



The bidi Package

Source documentation for [version 25.09.12](#)

*to my Master, **Ferdowsi The Great***

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

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The *bid*i Package

Bidirectional typesetting with plain $\text{T}_{\text{E}}\text{X}$ and $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ formats in Xe $\text{T}_{\text{E}}\text{X}$ and Lua $\text{T}_{\text{E}}\text{X}$ engines

Source documentation for [version 25.09.12](#)

Vafa Khalighi*

September 12, 2025

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*Thanks to the `bid`i-tex GitHub organization consisted of David Carlisle and other members of the $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ team for maintaining the package in the period 2018–2020.

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1 File amsart-xetex-bidi.def

```

1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17    \endgroup
18  \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefnmark%
46     \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@RTLfootnotetext@font% \normalfont\footnotesize

```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnmark%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \RTLfalse%
67 \reset@font%
68 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefnmark%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \@bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTL\bibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent{z@ \parskip{z@ \@plus.3\p@}\relax
104 \ifRTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111   \@topnum\z@ % this prevents figures from falling at the top of page 1
112   \@setcopyright
113   \thispagestyle{firstpage}% this sets first page specifications
114   \uppercase\nonmath\shorttitle
115   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116   \else \andify\shortauthors
117   \fi
118   \@maketitle@hook
119   \begingroup
120   \@maketitle
121   \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
122   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123   \edef\@tempa{%
124     \@nx\markboth{\the\toks4
125       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126   \@tempa
127   \endgroup
128   \c@footnote\z@
129   \cleartopmattertags
130 }

```

2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133   \def\@tempa{#2}%
134   \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135   \def\@tempa{#3}%
136   \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137   \ifnum\col@number<\@ne
138     \PackageWarning{adjmulticol}%
139       {Using '\number\col@number'
140        columns doesn't seem a good idea.^^J
141        I therefore use one columns instead}%
142     \col@number\@ne\fi
143   \ifnum\col@number>10
144     \PackageError{adjmulticol}%
145       {Too many columns}%
146       {Current implementation doesn't
147        support more than 10 columns.%
148       \MessageBreak
149        I therefore use 10 columns instead}%
150     \col@number10 \fi
151   \ifx\@footnotetext\mult@footnotetext\else
152     \let\orig@footnotetext\@footnotetext
153     \let\@footnotetext\mult@footnotetext
154   \fi
155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156     \let\orig@LTRfootnotetext\@LTRfootnotetext
157     \let\@LTRfootnotetext\mult@LTRfootnotetext

```




```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
166 \expandafter\ifx\cscname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\cscname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
169 \fi
170 \ApplyPatchIfPackageLoadedF{color}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }
196
197 \@ifpackagewith{algorithm2e}{algonl}{%
198 \renewcommand{\theAlgoLine}{\expandafter\cscname the\algocf@float\endcsname\@SepMark\arabic{A
199 }{}
200
201 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
202
203 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
204
205 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```

4 File amsbook-xetex-bidi.def



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\tocline#1#2#3#4#5#6#7{\relax
208   \ifnum #1>\c@tocdepth % then omit
209   \else
210     \par \addpenalty\@secpenalty\addvspace{#2}%
211     \begingroup \hyphenpenalty\@M
212     \@ifempty{#4}{%
213       \@tempdima\csname r@tocindent\number#1\endcsname\relax
214     }{%
215       \@tempdima#4\relax
216     }%
217     \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\leftskip
218     \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221     \nobreak
222   \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229   \columnseprule\z@ \columnsep 35\p@
230   \@indextitlestyle
231   \thispagestyle{plain}%
232   \let\item\@idxitem
233   \parindent\z@ \parskip\z@\@plus.3\p@\relax
234   \if@RTL\raggedleft\else\raggedright\fi
235   \hyphenpenalty\@M
236   \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241   \kern-.4\p@
242   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243   \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248   \insert\footins{%
249     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
250     \reset@font%
251     \bidi@footnotetext@font% \normalfont\footnotesize
252     \interlinepenalty\interfootnotelinepenalty
253     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254     \floatingpenalty\@MM \hsize\columnwidth
255     \@parboxrestore \parindent\normalparindent \sloppy
256     \protected@edef\@currentlabel{%
257       \csname p@footnote\endcsname\@thefnmark}%
258     \@makefntext{%
259       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}

```



```

260
261 \long\def\@RTLfootnotetext#1{%
262   \insert\footins{%
263     \@RTLtrue%
264     \reset@font%
265     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
266     \interlinepenalty\interfootnotelinepenalty
267     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefnfntext{%
273       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
274
275
276 \long\def\@LTRfootnotetext#1{%
277   \insert\footins{%
278     \@RTLfalse%
279     \reset@font%
280     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
281     \interlinepenalty\interfootnotelinepenalty
282     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefnfntext{%
288       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
289
290
291
292 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
293 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
294 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
295
296 \renewenvironment{thebibliography}[1]{%
297   \@bibtitlestyle
298   \normalfont\bibliofont\labelsep .5em\relax
299   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
300   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
301   \bidi@thebibliography@font@hook%
302   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
303     \leftmargin\labelwidth \advance\leftmargin\labelsep
304     \usecounter{enumiv}}%
305   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
306   \sfcode`\.=\@m
307 }{%
308   \def\@noitemerr{\@latex@warning{Empty 'thebibliography' environment}}%
309   \endlist
310 }
311 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
312   \begingroup
313   \fontsize{\@xivpt}{18}\bfseries\centering

```



```

314 \ifnum\c@secnumdepth>\m@ne
315 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
316 \rlap{\vbox to\z@{\vss
317 \centerline{\normalsize\mdseries
318 \uppercase\@xp{\chaptername}\enspace\thechapter}
319 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
320 #1\par \endgroup
321 \skip@34\p@ \advance\skip@-\normalbaselineskip
322 \vskip\skip@ }
323 \def\maketitle{\par
324 \@topnum\z@ % this prevents figures from falling at the top of page 1
325 \begingroup
326 \@maketitle
327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

5 File amsmath-xetex-bidi.def

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340 \ifundefined{c@#2}{\nocounterr{#2}}{%
341 \ifundefined{c@#3}{\nocnterr{#3}}{%
342 \@addtoreset{#2}{#3}%
343 \@xp\xdef\csname the#2\endcsname{%
344 \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@ \ignorespaces#1\unskip\@italicco
347
348 \bidi@patchcmd\math@cr@@@align\place@tag{%
349 \place@tag
350 \else
351 \place@tag
352 }{}{}
353

```

6 File amstext-xetex-bidi.def

```

354 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
355 \def\textdef@#1#2#3{\hbox{%
356 \everymath{#1}%
357 \let\f@size#2\selectfont
358 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```

7 File amsthm-xetex-bidi.def



```

359 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
360 \def\@thmcountersep{\@SepMark}

```

8 File array-xetex-bidi.def

```

361 \ProvidesFile{array-xetex-bidi.def}[2025/09/11 v0.7 bidi adaptations for array package for X
362 \def\@testpach{\@chclass
363 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
364 \ifnum \@lastchclass=7 5 \else
365 \ifnum \@lastchclass=8 \tw@ \else
366 \ifnum \@lastchclass=9 \thr@@
367 \else \z@
368 \ifnum \@lastchclass = 10 \else
369 \edef\@nextchar{\expandafter\string\@nextchar}%
370 \@chnum
371 \if \@nextchar c\z@ \else
372 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
373 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
374 \z@ \@chclass
375 \if \@nextchar |\@ne \else
376 \if \@nextchar !6 \else
377 \if \@nextchar @7 \else
378 \if \@nextchar <8 \else
379 \if \@nextchar >9 \else
380 10
381 \@chnum
382 \if \@nextchar m\thr@@ \else
383 \if \@nextchar p4 \else
384 \if \@nextchar b5 \else
385 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
386 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
387 \def\@tabular{%
388 \leavevmode
389 \UseTaggingSocket{tbl/hmode/begin}%
390 \hbox \bgroup\if@RTLtab\beginR \fi
391 \MathCollectFalse$\MathCollectTrue
392 \col@sep\tabcolsep \let\d@llarbegin\begin\group
393 \let\d@llarend\end\group
394 \@kernel@tabular@init
395 \@tabarray}
396 \def\endtabular{\endarray\m@th $\if@RTLtab\endR\fi\egroup
397 \UseTaggingSocket{tbl/hmode/end}%
398 }
399 \expandafter\let\csname endtabular*\endcsname=\endtabular
400 \ExplSyntaxOn
401 \def\@array[#1]#2{
402 \@tempdima \ht \strutbox
403 \advance \@tempdima by\extrarowheight
404 \setbox \@arstrutbox \hbox{\vrule
405 \@height \arraystretch \@tempdima
406 \@depth \arraystretch \dp \strutbox
407 \@width \z@}%
408 \tbl_save_outer_table_cols:
409 \begin\group

```



```

410 \@mkpream{#2}%
411 \tbl_count_table_cols:
412 \xdef\@preamble{
413   \noexpand \ar@ialign
414   \@halignto
415   \bgroup \@arstrut
416   \UseTaggingSocket{tbl/row/begin}
417   \tbl_init_cell_data_for_row:
418   \@preamble
419   \tabskip \z@ \cr}
420 \endgroup
421 \@arrayleft
422 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
423 \bgroup
424 \let \@sharp ##\let \protect \relax
425 \lineskip \z@
426 \baselineskip \z@
427 \mathsurround \z@
428 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
429 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
430 \UseTaggingSocket{tbl/init}
431 \@preamble
432 }
433 \let\@array\@array
434 \def\endarray {
435   \tbl_crcr:n{endarray}
436   \tag_socket_use_expandable:n { math/luamml/array/save }
437   \egroup
438   \tag_socket_use:n { tbl/finalize }
439   \tbl_restore_outer_cell_data:
440   \if@RTLtab\egroup\endR\egroup\fi
441   \egroup
442   \tag_socket_use:n { math/luamml/array/finalize }
443   \@arrayright \gdef\@preamble{}%
444 }
445 \def\array{\col@sep\arraycolsep
446 \def\dollarbegin{${\tag_socket_use:n { math/luamml/array/initcol }}
447 \def\dollarend
448 {
449   \tag_socket_use:nn { math/luamml/save/nn }{ }{ }{mtd}}
450   $
451   \tag_socket_use:nn { math/luamml/array/finalizecol }{\the\@chnum}
452 }
453 \def\@halignto{ }%
454 \def\@RTLtabfalse
455 \def\@tabarray}
456 \ExplSyntaxOff

```

9 File article-xetex-bidi.def

```

457 \ProvidesFile{article-xetex-bidi.def}[2025/09/08 v1.1 bidi adaptations for standard article
458 \IfClassLoadedT{svmult}{\endinput}
459 \if@titlepage
460 \renewcommand\maketitle{\begin{titlepage}%

```



```

461 \let\footnotesize\small
462 \let\right@footnoterule\relax
463 \let\left@footnoterule\relax
464 \let\textwidth@footnoterule\relax
465 \let \footnote \thanks
466 \let \LTRfootnote \LTRthanks
467 \let \RTLfootnote \RTLthanks
468 \null\vfil
469 \vskip 60\p@
470 \begin{center}%
471   {\LARGE \@title \par}%
472   \vskip 3em%
473   {\large
474     \lineskip .75em%
475     \begin{tabular}[t]{c}%
476       \@author
477       \end{tabular}\par}%
478     \vskip 1.5em%
479     {\large \@date \par}%           % Set date in \large size.
480 \end{center}\par
481 \@thanks
482 \vfil\null
483 \end{titlepage}%
484 \setcounter{footnote}{0}%
485 \global\let\thanks\relax
486 \global\let\LTRthanks\relax
487 \global\let\RTLthanks\relax
488 \global\let\maketitle\relax
489 \global\let\@thanks\@empty
490 \global\let\@author\@empty
491 \global\let\@date\@empty
492 \global\let\@title\@empty
493 \global\let\title\relax
494 \global\let\author\relax
495 \global\let\date\relax
496 \global\let\and\relax
497 }
498 \else
499 \renewcommand\maketitle{\par
500   \begingroup
501     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
502     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
503     \long\def\@makefntext##1{\parindent 1em\noindent
504       \hb@xt@1.8em{%
505         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
506     \if@twocolumn
507       \ifnum \col@number=\@ne
508         \@maketitle
509       \else
510         \twocolumn[\@maketitle]%
511       \fi
512     \else
513       \newpage
514       \global\@topnum\z@           % Prevents figures from going at top of page.

```



```

515     \@maketitle
516     \fi
517     \thispagestyle{plain}\@thanks
518 \endgroup
519 \setcounter{footnote}{0}%
520 \global\let\thanks\relax
521 \global\let\LTRthanks\relax
522 \global\let\RTLthanks\relax
523 \global\let\maketitle\relax
524 \global\let\@maketitle\relax
525 \global\let\@thanks\@empty
526 \global\let\@author\@empty
527 \global\let\@date\@empty
528 \global\let\@title\@empty
529 \global\let\title\relax
530 \global\let\author\relax
531 \global\let\date\relax
532 \global\let\and\relax
533 }
534 \def\@maketitle{%
535     \newpage
536     \null
537     \vskip 2em%
538     \begin{center}%
539     \let \footnote \thanks
540     \let \LTRfootnote \LTRthanks
541     \let \RTLfootnote \RTLthanks
542     {\LARGE \@title \par}%
543     \vskip 1.5em%
544     {\large
545     \lineskip .5em%
546     \begin{tabular}[t]{c}%
547     \@author
548     \end{tabular}\par}%
549     \vskip 1em%
550     {\large \@date}%
551     \end{center}%
552     \par
553     \vskip 1.5em}
554 \fi
555 \renewcommand*\l@part[2]{%
556     \ifnum \c@tocdepth >-2\relax
557     \addpenalty\@secpenalty
558     \addvspace{2.25em \@plus\p@}%
559     \setlength\@tempdima{3em}%
560     \begingroup
561     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
562     \parfillskip -\@pnumwidth
563     {\leavevmode
564     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
565     \nobreak
566     \if@compatibility
567     \global\@nobreaktrue
568     \everypar{\global\@nobreakfalse\everypar{}}}%

```




```

569     \fi
570   \endgroup
571 \fi}
572 \renewcommand*\l@section[2]{%
573   \ifnum \c@tocdepth >\z@
574     \addpenalty\@secpenalty
575     \addvspace{1.0em \@plus\p@}%
576     \setlength\@tempdima{1.5em}%
577     \begingroup
578       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
579       \parfillskip -\@pnumwidth
580       \leavevmode \bfseries
581       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
582       \hskip -\if@RTL\rightskip\else\leftskip\fi
583       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
584     \endgroup
585   \fi}
586 \renewcommand\left@footnoterule{%
587   \kern-3\p@
588   \hrule\@width.4\columnwidth
589   \kern2.6\p@}
590 \renewcommand\right@footnoterule{%
591   \kern-3\p@
592   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
593   \kern2.6\p@}
594 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
595 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
596 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
597 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
598 \ApplyPatchIfPackageLoaded{nameref}{%
599   \bidi@patchcmd\NR@part\raggedright{%
600     \if@RTL\raggedleft\else\raggedright\fi
601   }{\bidi@warningnoline{Oops! patching `\'string\NR@part' failed}}}%
602 \bidi@patchcmd\NR@spart\raggedright{%
603   \if@RTL\raggedleft\else\raggedright\fi
604 }{\bidi@warningnoline{Oops! patching `\'string\NR@spart' failed}}}%
605 }{%
606   \bidi@patchcmd\@part\raggedright{%
607     \if@RTL\raggedleft\else\raggedright\fi
608   }{\bidi@warningnoline{Oops! patching `\'string\@part' failed}}}%
609   \bidi@patchcmd\@spart\raggedright{%
610     \if@RTL\raggedleft\else\raggedright\fi
611   }{\bidi@warningnoline{Oops! patching `\'string\@spart' failed}}}%
612 }
613 \renewenvironment{thebibliography}[1]
614   {\section*\refname}%
615   \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
616   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
617   \bidi@@thebibliography@font@hook%
618   \list{\@biblabel{\@arabic\c@enumiv}}%
619     {\settowidth\labelwidth{\@biblabel{#1}}%
620     \leftmargin\labelwidth
621     \advance\leftmargin\labelsep
622     \@openbib@code

```



```

623         \usecounter{enumiv}%
624         \let\p@enumiv\@empty
625         \renewcommand\theenumiv{\@arabic\c@enumiv}}}%
626     \sloppy
627     \clubpenalty4000
628     \@clubpenalty \clubpenalty
629     \widowpenalty4000%
630     \sfcode`.\@m}
631     {\def\@noitemerr
632       {\@latex@warning{Empty `thebibliography' environment}}}%
633     \endlist}
634 \renewenvironment{theindex}
635     {\if@twocolumn
636       \@restonecolfalse
637       \else
638         \@restonecoltrue
639       \fi
640       \columnseprule \z@
641       \columnsep 35\p@
642       \twocolumn[\section*{\indexname}}%
643       \@mkboth{\MakeUppercase\indexname}%
644               {\MakeUppercase\indexname}%
645       \thispagestyle{plain}\parindent\z@
646       \parskip\z@ \@plus .3\p@\relax
647       \let\item\@idxitem}
648     {\if@restonecol\onecolumn\else\clearpage\fi}

```

10 File artikel1-xetex-bidi.def

```

649 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
650 \renewenvironment{theindex}{%
651   \if@twocolumn
652     \@restonecolfalse
653   \else
654     \@restonecoltrue
655   \fi
656   \columnseprule \z@
657   \columnsep 35\p@
658   \twocolumn[\section*{\indexname}}%
659   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
660   \thispagestyle{plain}\parindent\z@
661   \parskip\z@ \@plus .3\p@\relax
662   \let\item\@idxitem
663 }{%
664   \if@restonecol\onecolumn\else\clearpage\fi}
665 \renewcommand*\head@style{%
666   \interlinepenalty \@M
667   \hyphenpenalty=\@M \exhyphenpenalty=\@M
668   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
669 \if@titlepage
670 \renewenvironment{abstract}{%
671   \titlepage
672   \null\vfil
673   \section*{\SectFont\abstractname}

```



```

674     \noindent\ignorespaces}
675     {\par\vfil\null\endtitlepage}
676 \else
677   \renewenvironment{abstract}{%
678     \if@twocolumn
679       \section*{\abstractname}%
680     \else
681       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
682       \section*{\small\SectFont\abstractname}%
683       \noindent\ignorespaces
684     \fi}
685     {\if@twocolumn\else\par\egroup\fi}
686 \fi
687 \renewcommand*{\@regtocline}[3]{%
688   \ifnum #1>\c@tocdepth
689   \else
690     \vskip\z@\@plus.2\p@
691     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
692     \if@RTL\rightskip\else\leftskip\fi\unitindent
693     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
694     \parfillskip\z@
695     \@tempdima\unitindent
696     \parindent\z@
697     \leavevmode
698     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
699     \hskip 1em \nobreak{\slshape #3}\par
700   }%
701   \fi}
702 \if@oldtoc
703 \renewcommand*{\l@part}[2]{%
704   \ifnum \c@tocdepth >-2\relax
705     \addpenalty\@secpenalty
706     \addvspace{2.25em \@plus\p@}%
707     \begingroup
708       \setlength{\@tempdima}{3em}%
709       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
710       \parfillskip -\@pnumwidth
711       {\leavevmode
712         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
713         \nobreak
714         \if@compatibility
715           \global\@nobreaktrue
716           \everypar{\global\@nobreakfalse\everypar{}}%
717         \fi
718       \endgroup
719     \fi}
720 \else
721   \renewcommand*{\l@part}{%
722     \ifnum \c@tocdepth >-2\relax
723       \addpenalty\@secpenalty
724       \addvspace{2.25em \@plus \p@}%
725       \@regtocline{0}%
726     \fi}
727 \fi

```



```

728 \if@oldtoc
729 \renewcommand*\l@section[2]{%
730     \addpenalty\@secpenalty
731     \addvspace{1.0em \@plus\p@}%
732     \setlength\@tempdima{1.5em}%
733     \begingroup
734     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
735     \parfillskip -\@pnumwidth
736     \leavevmode \bfseries
737     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
738     \hskip -\if@RTL\rightskip\else\leftskip\fi
739     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
740     \endgroup}
741 \else
742     \renewcommand*\l@section{\@regtocline{1}}
743 \fi
744 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
745 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
746 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
747 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
748 \renewenvironment{thebibliography}[1]
749     {\section*\refname}%
750     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
751     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
752     \bidi@thebibliography@font@hook%
753     \list{\@biblabel{\@arabic\c@enumiv}}%
754         {\settowidth\labelwidth{\@biblabel{#1}}%
755         \leftmargin\labelwidth
756         \advance\leftmargin\labelsep
757         \@openbib@code
758         \usecounter{enumiv}%
759         \let\p@enumiv\@empty
760         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
761     \sloppy\clubpenalty4000\widowpenalty4000%
762     \sfcode\.\@m}
763     {\def\@noitemerr
764     {\@latex@warning{Empty `thebibliography' environment}}}%
765     \endlist}
766 \renewcommand*\left@footnoterule{%
767     \kern-3\p@
768     \kern.5\baselineskip
769     \hrule\@width\unitindent
770     \kern.4\baselineskip
771 }
772 \renewcommand*\right@footnoterule{%
773     \kern-3\p@
774     \kern.5\baselineskip
775     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
776     \kern.4\baselineskip}
777 \if@titlepage
778 \renewcommand*\TitleFont{\rmfamily}
779 \renewcommand*\maketitle{%
780     \begin{titlepage}%
781     \let\footnotesize\small

```



```

782 \let\right@footnoterule\relax
783 \let\left@footnoterule\relax
784 \let\textwidth@footnoterule\relax
785 \let \footnote \thanks
786 \long\def\@makefntext##1{\parindent\z@
787 \def\labelitemi{\textendash}\@revlabeltrue
788 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
789 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
790 \if@compatibility\setcounter{page}{0}\fi
791 \null\vfil
792 \vskip 60\p@
793 \begin{center}%
794 \TitleFont
795 {\LARGE \def\\{\penalty -\@M}
796 \if@allcaps
797 \expandafter\uc@nothanks\@title\thanks\relax
798 \else
799 \@title
800 \fi\par}%
801 \vskip 3em%
802 {\large
803 \lineskip .75em \parindent\z@
804 \begin{tabular}[t]{c}%
805 \if@allcaps
806 \expandafter\uc@authornothanks\@author\and\relax
807 \else
808 \@author
809 \fi
810 \end{tabular}\par}%
811 \vskip 1.5em%
812 {\large
813 \if@allcaps
814 \uppercase\expandafter{\@date}%
815 \else
816 \@date
817 \fi\par}%
818 \end{center}\par
819 \@thanks
820 \vfil\null
821 \end{titlepage}%
822 \setcounter{footnote}{0}%
823 \global\let\thanks\relax
824 \global\let\maketitle\relax
825 \global\let\@thanks\@empty
826 \global\let\@author\@empty
827 \global\let\@title\@empty
828 \global\let\@date\@empty
829 \global\let\title\relax
830 \global\let\author\relax
831 \global\let\date\relax
832 \global\let\and\relax
833 }
834 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
835 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax

```



```

836 \futurelet\@tempa\uc@ax}
837 \def\uc@ax{%
838 \ifx\@tempa\relax
839 \else
840 \\\andname \\\expandafter\uc@authornothanks
841 \fi}
842 \def\uc@tx{\ifx\@tempa\relax
843 \else \expandafter\uc@ty \fi}
844 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
845 \else
846 \renewcommand*\maketitle{\par
847 \begingroup
848 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
849 \def\@makefnmark{\rlap{%
850 \@textsuperscript{\normalfont\@thefnmark}}}%
851 \long\def\@makefntext{\@xmakefntext{%
852 \@textsuperscript{\normalfont\@thefnmark}}}%
853 \if@twocolumn
854 \ifnum \col@number=\@one
855 \@maketitle
856 \else
857 \twocolumn[\@maketitle]%
858 \fi
859 \else
860 \newpage
861 \global\@topnum\z@
862 \@maketitle
863 \fi
864 \thispagestyle{plain}\@thanks
865 \endgroup
866 \setcounter{footnote}{0}%
867 \global\let\thanks\relax
868 \global\let\maketitle\relax
869 \global\let\@maketitle\relax
870 \global\let\@thanks\@empty
871 \global\let\@author\@empty
872 \global\let\@title\@empty
873 \global\let\@date\@empty
874 \global\let\title\relax
875 \global\let\author\relax
876 \global\let\date\relax
877 \global\let\and\relax
878 }
879 \def\@maketitle{%
880 \newpage
881 \null
882 \vskip 2em%
883 \begin{center}%
884 \let \footnote \thanks
885 {\LARGE \TitleFont \@title \par}%
886 \vskip 1.5em%
887 {\large \TitleFont
888 \lineskip .5em%
889 \begin{tabular}[t]{c}%

```



```

890      \@author
891      \end{tabular}\par}%
892      \vskip 1em%
893      {\large \TitleFont \@date}%
894      \end{center}%
895      \par
896      \vskip 1.5em}
897 \fi

```

11 File artikel2-xetex-bidi.def

```

898 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
899 \renewenvironment{theindex}{%
900   \if@twocolumn
901     \@restonecolfalse
902   \else
903     \@restonecoltrue
904   \fi
905   \columnseprule \z@
906   \columnsep 35\p@
907   \twocolumn[\section*{\indexname}]%
908   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
909   \thispagestyle{plain}\parindent\z@
910   \parskip\z@ \@plus .3\p@\relax
911   \let\item\@idxitem
912   }{%
913   \if@restonecol\onecolumn\else\clearpage\fi}
914 \renewcommand*\@regtocline[3]{%
915   \ifnum #1>\c@tocdepth
916   \else
917     \vskip\z@ \@plus.2\p@
918     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
919     \if@RTL\righskip\else\leftskip\fi\unitindent
920     \if@RTL\leftskip\else\righskip\fi\unitindent \@plus 1fil
921     \parfillskip\z@
922     \@tempdima\unitindent
923     \advance\@tempdima by \othermargin
924     \parindent\z@
925     \leavevmode
926     \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
927     \hskip 1em \nobreak{\slshape #3}\par
928     }%
929   \fi}
930 \if@oldtoc
931 \renewcommand*\l@section[2]{%
932   \addpenalty\@secpenalty
933   \addvspace{1.0em \@plus\p@}%
934   \setlength\@tempdima{1.5em}%
935   \begingroup
936   \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
937   \parfillskip -\@pnumwidth
938   \leavevmode \bfseries
939   \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
940   \hskip -\if@RTL\righskip\else\leftskip\fi

```



```

941     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
942     \endgroup}
943 \else
944     \renewcommand*\l@section{\@regtocline{1}}
945 \fi
946 \if@oldtoc
947 \renewcommand*\l@part[2]{%
948     \ifnum \c@tocdepth >-2\relax
949         \addpenalty\@secpenalty
950         \addvspace{2.25em \@plus\p@}%
951         \begingroup
952             \setlength\@tempdima{3em}%
953             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
954             \parfillskip -\@pnumwidth
955             {\leavevmode
956                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
957                 \nobreak
958                 \if@compatibility
959                     \global\@nobreaktrue
960                     \everypar{\global\@nobreakfalse\everypar{}}%
961                 \fi
962             \endgroup
963         \fi}
964 \else
965     \renewcommand*\l@part{%
966         \ifnum \c@tocdepth >-2\relax
967             \addpenalty\@secpenalty
968             \addvspace{2.25em \@plus \p@}%
969             \@regtocline{0}%
970         \fi}
971 \fi
972 \renewcommand*\head@style{%
973     \interlinepenalty \@M
974     \hyphenpenalty=\@M \exhyphenpenalty=\@M
975     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
976 \if@titlepage
977     \renewenvironment{abstract}{%
978         \titlepage
979         \null\vfil
980         \section*{\SectFont\abstractname}%
981         \noindent\ignorespaces}
982     {\par\vfil\null\endtitlepage}
983 \else
984     \renewenvironment{abstract}{%
985         \if@twocolumn
986             \section*{\abstractname}%
987         \else
988             \section*{\hskip\unitindent\small\SectFont\abstractname}%
989             \list{}{\setlength\listparindent{\unitindent}%
990                 \setlength\parindent {\z@}%
991                 \setlength\leftmargin {\unitindent}%
992                 \setlength\rightmargin {\unitindent}%
993                 \setlength\parsep {\z@}}%
994             \item[]%

```




```

995     \fi}
996     {\if@twocolumn\else\par\endlist\fi}
997 \fi
998 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
999 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1000 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1001 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1002 \renewcommand*\left@footnoterule{%
1003     \kern-3\p@
1004     \hrule\@width 3\unitindent
1005     \kern 2.6\p@
1006 }
1007 \renewcommand*\right@footnoterule{%
1008     \kern-3\p@
1009     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1010     \kern 2.6\p@}
1011 \renewenvironment{thebibliography}[1]
1012     {\section*{\refname}%
1013         \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1014         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1015         \bidi@thebibliography@font@hook%
1016         \list{\@biblabel{\@arabic\c@enumiv}}%
1017             {\settowidth\labelwidth{\@biblabel{#1}}%
1018             \leftmargin\labelwidth
1019             \advance\leftmargin\labelsep
1020             \@openbib@code
1021             \usecounter{enumiv}%
1022             \let\p@enumiv\@empty
1023             \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1024         \sloppy\clubpenalty4000\widowpenalty4000%
1025         \sfcode`\.\@m}
1026     {\def\@noitemerr
1027         {\@latex@warning{Empty `thebibliography' environment}}%
1028         \endlist}
1029 \if@titlepage
1030 \renewcommand*\TitleFont{\rmfamily}
1031 \renewcommand*\maketitle{%
1032     \begin{titlepage}%
1033         \let\footnotesize\small
1034         \let\right@footnoterule\relax
1035         \let\left@footnoterule\relax
1036         \let\textwidth\footnoterule\relax
1037         \let \footnote \thanks
1038         \long\def\@makefnmark##1{\parindent\z@
1039             \def\labelitemi{\textendash}\@revlabeltrue
1040             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1041         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1042         \if@compatibility\setcounter{page}{0}\fi
1043         \null\vfil
1044         \vskip 60\p@
1045         \begin{center}%
1046             \TitleFont
1047             {\LARGE \def\\{\penalty -\@M}
1048             \if@allcaps

```



```

1049         \expandafter\uc@nothanks \@title\thanks\relax
1050     \else
1051         \@title
1052     \fi\par}%
1053 \vskip 3em%
1054 {\large
1055     \lineskip .75em \parindent\z@
1056     \begin{tabular}[t]{c}%
1057         \if@allcaps
1058             \expandafter\uc@authornothanks \@author\and\relax
1059         \else
1060             \@author
1061         \fi
1062     \end{tabular}\par}%
1063 \vskip 1.5em%
1064 {\large
1065     \if@allcaps
1066         \uppercase\expandafter{\@date}%
1067     \else
1068         \@date
1069     \fi\par}%
1070 \end{center}\par
1071 \@thanks
1072 \vfil\null
1073 \end{titlepage}%
1074 \setcounter{footnote}{0}%
1075 \global\let\thanks\relax
1076 \global\let\maketitle\relax
1077 \global\let\@thanks\@empty
1078 \global\let\@author\@empty
1079 \global\let\@title\@empty
1080 \global\let\@date\@empty
1081 \global\let\title\relax
1082 \global\let\author\relax
1083 \global\let\date\relax
1084 \global\let\and\relax
1085 }
1086 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1087 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1088     \futurelet\@tempa\uc@ax}
1089 \def\uc@ax{%
1090     \ifx\@tempa\relax
1091     \else
1092         \ \andname \ \ \expandafter\uc@authornothanks
1093     \fi}
1094 \def\uc@tx{\ifx\@tempa\relax
1095     \else \expandafter\uc@ty \fi}
1096 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1097 \else
1098 \renewcommand*\maketitle{\par
1099     \begingroup
1100     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1101     \long\def\@makefntext##1{\parindent\z@
1102         \def\labelitemi{\textendash}%

```



```

1103     \leavevmode\hb@xt@.5\unitindent{%
1104         \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1105     \if@twocolumn
1106         \ifnum \col@number=\@ne
1107             \@maketitle
1108         \else
1109             \twocolumn[\@maketitle]%
1110         \fi
1111     \else
1112         \newpage
1113         \global\@topnum\z@
1114         \@maketitle
1115     \fi
1116     \thispagestyle{plain}\@thanks
1117 \endgroup
1118 \setcounter{footnote}{0}%
1119 \global\let\thanks\relax
1120 \global\let\maketitle\relax
1121 \global\let\@maketitle\relax
1122 \global\let\@thanks\@empty
1123 \global\let\@author\@empty
1124 \global\let\@title\@empty
1125 \global\let\@date\@empty
1126 \global\let\title\relax
1127 \global\let\author\relax
1128 \global\let\date\relax
1129 \global\let\and\relax
1130 }
1131 \def\@maketitle{%
1132     \newpage
1133     \null
1134     \vskip 2em%
1135     \begin{center}%
1136         \let \footnote \thanks
1137         {\LARGE \TitleFont \@title \par}%
1138         \vskip 1.5em%
1139         {\large \TitleFont
1140             \lineskip .5em%
1141             \begin{tabular}[t]{c}%
1142                 \@author
1143             \end{tabular}\par}%
1144         \vskip 1em%
1145         {\large \TitleFont \@date}%
1146     \end{center}%
1147     \par
1148     \vskip 1.5em}
1149 \fi

```

12 File artikel3-xetex-bidi.def

```

1150 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f
1151 \renewenvironment{theindex}{%
1152     \if@twocolumn
1153         \@restonecolfalse

```



```

1154 \else
1155 \@restonecoltrue
1156 \fi
1157 \columnseprule \z@
1158 \columnsep 35\p@
1159 \twocolumn[\section*{\indexname}]%
1160 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1161 \thispagestyle{plain}\parindent\z@
1162 \parskip\z@ \@plus .3\p@\relax
1163 \let\item\@idxitem
1164 }{%
1165 \if@restonecol\onecolumn\else\clearpage\fi}
1166 \renewcommand*\head@style{%
1167 \interlinepenalty \@M
1168 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1169 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1170 \renewcommand*\@regtocline[3]{%
1171 \ifnum #1>\c@tocdepth
1172 \else
1173 \vskip\z@ \@plus.2\p@
1174 {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
1175 \if@RTL\rightskip\else\leftskip\fi\unitindent
1176 \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
1177 \parfillskip\z@
1178 \@tempdima\unitindent
1179 \parindent\z@
1180 \leavevmode
1181 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1182 \hskip 1em \nobreak{\slshape #3}\par
1183 }%
1184 \fi}
1185 \if@oldtoc
1186 \renewcommand*\l@part[2]{%
1187 \ifnum \c@tocdepth >-2\relax
1188 \addpenalty\@secpenalty
1189 \addvspace{2.25em \@plus\p@}%
1190 \begingroup
1191 \setlength\@tempdima{3em}%
1192 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1193 \parfillskip -\@pnumwidth
1194 {\leavevmode
1195 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1196 \nobreak
1197 \if@compatibility
1198 \global\@nobreaktrue
1199 \everypar{\global\@nobreakfalse\everypar{}}%
1200 \fi
1201 \endgroup
1202 \fi}
1203 \else
1204 \renewcommand*\l@part{%
1205 \ifnum \c@tocdepth >-2\relax
1206 \addpenalty\@secpenalty
1207 \addvspace{2.25em \@plus \p@}%

```



```

1208 \regtocline{0}%
1209 \fi}
1210 \fi
1211
1212 \if@oldtoc
1213 \renewcommand*\l@section[2]{%
1214 \addpenalty\@secpenalty
1215 \addvspace{1.0em \@plus\p@}%
1216 \setlength\@tempdima{1.5em}%
1217 \begingroup
1218 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1219 \parfillskip -\@pnumwidth
1220 \leavevmode \bfseries
1221 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1222 \hskip -\if@RTL\rightskip\else\leftskip\fi
1223 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1224 \endgroup}
1225 \else
1226 \renewcommand*\l@section{\@regtocline{1}}
1227 \fi
1228 \if@titlepage
1229 \renewenvironment{abstract}{%
1230 \titlepage
1231 \null\vfil
1232 \section*{\SectFont\abstractname}%
1233 \noindent\ignorespaces}
1234 {\par\vfil\null\endtitlepage}
1235 \else
1236 \renewenvironment{abstract}{%
1237 \if@twocolumn
1238 \section*{\abstractname}%
1239 \else
1240 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1241 \section*{\small\SectFont\abstractname}%
1242 \noindent\ignorespaces
1243 \fi}
1244 {\if@twocolumn\else\par\egroup\fi}
1245 \fi
1246 \renewcommand*\left@footnoterule{%
1247 \kern-3\p@
1248 \kern.5\baselineskip
1249 \hrule\@width\unitindent
1250 \kern.4\baselineskip
1251 }
1252 \renewcommand*\right@footnoterule{%
1253 \kern-3\p@
1254 \kern.5\baselineskip
1255 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1256 \kern.4\baselineskip}
1257 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1258 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1259 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1260 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1261 \renewenvironment{thebibliography}[1]

```



```

1262 {\section*{\refname}%
1263 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1264 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1265 \bidi@thebibliography@font@hook%
1266 \list{\@biblabel{\@arabic\c@enumiv}}%
1267 {\settowidth\labelwidth{\@biblabel{#1}}%
1268 \leftmargin\labelwidth
1269 \advance\leftmargin\labelsep
1270 \@openbib@code
1271 \usecounter{enumiv}%
1272 \let\p@enumiv\@empty
1273 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1274 \sloppy\clubpenalty4000\widowpenalty4000%
1275 \sfcode\.\@m}
1276 {\def\@noitemerr
1277 {\@latex@warning{Empty `thebibliography' environment}}}%
1278 \endlist}
1279 \if@titlepage
1280 \renewcommand*\TitleFont{\rmfamily}
1281 \renewcommand*\maketitle{%
1282 \begin{titlepage}%
1283 \let\footnotesize\small
1284 \let\right@footnoterule\relax
1285 \let\left@footnoterule\relax
1286 \let\textwidth\footnoterule\relax
1287 \let\footnote\thanks
1288 \long\def\@makefntext##1{\parindent\z@
1289 \def\labelitemi{\textendash}\@revlabeltrue
1290 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1291 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1292 \if@compatibility\setcounter{page}{0}\fi
1293 \null\vfil
1294 \vskip 60\p@
1295 \begin{center}%
1296 \TitleFont
1297 {\LARGE \def\\{\penalty -\@M}
1298 \if@allcaps
1299 \expandafter\uc@nothanks\@title\thanks\relax
1300 \else
1301 \@title
1302 \fi\par}%
1303 \vskip 3em%
1304 {\large
1305 \lineskip .75em \parindent\z@
1306 \begin{tabular}[t]{c}%
1307 \if@allcaps
1308 \expandafter\uc@authornothanks\@author\and\relax
1309 \else
1310 \@author
1311 \fi
1312 \end{tabular}\par}%
1313 \vskip 1.5em%
1314 {\large
1315 \if@allcaps

```



```

1316         \uppercase\expandafter{\@date}%
1317         \else
1318             \@date
1319         \fi\par}%
1320     \end{center}\par
1321     \@thanks
1322     \vfil\null
1323 \end{titlepage}%
1324 \setcounter{footnote}{0}%
1325 \global\let\thanks\relax
1326 \global\let\maketitle\relax
1327 \global\let\@thanks\@empty
1328 \global\let\@author\@empty
1329 \global\let\@title\@empty
1330 \global\let\@date\@empty
1331 \global\let\title\relax
1332 \global\let\author\relax
1333 \global\let\date\relax
1334 \global\let\and\relax
1335 }
1336 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1337 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1338     \futurelet\@tempa\uc@ax}
1339 \def\uc@ax{%
1340     \ifx\@tempa\relax
1341     \else
1342         \andname \and \expandafter\uc@authornothanks
1343     \fi}
1344 \def\uc@tx{\ifx\@tempa\relax
1345     \else \expandafter\uc@ty \fi}
1346 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1347 \else
1348 \renewcommand*\maketitle{\par
1349     \begingroup
1350     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1351     \def\@makefnmark{\rlap{%
1352         \@textsuperscript{\normalfont\@thefnmark}}}%
1353     \long\def\@makefntext{\@xmakefntext{%
1354         \@textsuperscript{\normalfont\@thefnmark}}}%
1355     \if@twocolumn
1356         \ifnum \col@number=\@ne
1357             \@maketitle
1358         \else
1359             \twocolumn[\@maketitle]%
1360         \fi
1361     \else
1362         \newpage
1363         \global\@topnum\z@
1364         \@maketitle
1365     \fi
1366     \thispagestyle{plain}\@thanks
1367 \endgroup
1368 \setcounter{footnote}{0}%
1369 \global\let\thanks\relax

```



```

1370 \global\let\maketitle\relax
1371 \global\let\@maketitle\relax
1372 \global\let\@thanks\@empty
1373 \global\let\@author\@empty
1374 \global\let\@title\@empty
1375 \global\let\@date\@empty
1376 \global\let\title\relax
1377 \global\let\author\relax
1378 \global\let\date\relax
1379 \global\let\and\relax
1380 }
1381 \def\@maketitle{%
1382 \newpage
1383 \null
1384 \vskip 2em%
1385 \if@titlecentered
1386 \begin{center}%
1387 \let \footnote \thanks
1388 {\LARGE \TitleFont \@title \par}%
1389 \vskip 1.5em%
1390 {\large \TitleFont
1391 \lineskip .5em%
1392 \begin{tabular}[t]{c}%
1393 \@author
1394 \end{tabular}\par}%
1395 \vskip 1em%
1396 {\large \TitleFont \@date}%
1397 \end{center}%
1398 \else
1399 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1400 {\large \TitleFont \lineskip .5em \tabcolsep\z@
1401 \def\and{%% \begin{tabular} has already started
1402 \end{tabular}\hskip 1em plus .17fil
1403 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
1404 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}%
1405 \vskip 1em {\large \TitleFont \@date}
1406 \fi
1407 \par
1408 \vskip 1.5em}
1409 \fi

```

13 File arydshln-xetex-bidi.def

```

1410 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln package]
1411 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1412 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1413 \expandafter\let\csname endtabular*\endcsname\endtabular
1414 \let\adl@array\@array
1415 \def\@array{\adl@everyvbox\everyvbox
1416 \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1417 \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1418 \let\adl@noalign\noalign
1419 \adl@array}
1420 \ifadl@usingarypkg

```




```

1421 \def\@testpach{\@chclass
1422 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1423 \ifnum \@lastchclass=7 5 \else
1424 \ifnum \@lastchclass=8 \tw@ \else
1425 \ifnum \@lastchclass=9 \thr@@
1426 \else \z@
1427 \ifnum \@lastchclass = 10 \else
1428 \edef\@nextchar{\expandafter\string\@nextchar}%
1429 \@chnum
1430 \if \@nextchar c\z@ \else
1431 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1432 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
1433 \z@ \@chclass
1434 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1435 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1436 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1437 \if \@nextchar !6 \else
1438 \if \@nextchar @7 \else
1439 \if \@nextchar <8 \else
1440 \if \@nextchar >9 \else
1441 10
1442 \@chnum
1443 \if \@nextchar m\thr@@\else
1444 \if \@nextchar p4 \else
1445 \if \@nextchar b5 \else
1446 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1447 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
1448
1449 \def\@classz{\@classx
1450 \@tempcnta \count@
1451 \prepnext@tok
1452 \@addtopreamble{\ifcase \@chnum
1453 \hfil
1454 \adl@putlrc{\dollarbegin \insert@column \dollarend}\hfil \or
1455 \hskip1sp\adl@putlrc{\dollarbegin \insert@column \dollarend}\hfil \or
1456 \hfil\hskip1sp\adl@putlrc{\dollarbegin \insert@column \dollarend}\or
1457 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1458 \adl@endmbox\or
1459 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1460 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1461 \fi}\prepnext@tok}
1462 \def\adl@class@start{4}
1463 \def\adl@class@iiiorvii{7}
1464
1465 \else
1466 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1467 \ifnum \@lastchclass=\thr@@ 5\relax \else
1468 \z@ \if #1c\@chnum \z@ \else
1469 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1470 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1471 \@chclass
1472 \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
1473 \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
1474 \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else

```



```

1475             \if #1@tw@ \else
1476             \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1477     \fi \fi \fi \fi \fi \fi \fi \fi}
1478
1479 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1480     \or \or \@addamp \or
1481     \@acolampacol \or \@firstampfalse \@acol \fi
1482     \edef\@preamble{\@preamble
1483     \ifcase \@chnum
1484     \hfil\adl@putlrc{$\relax\@sharp$}\hfil
1485     \or \adl@putlrc{$\relax\@sharp$}\hfil
1486     \or \hfil\adl@putlrc{$\relax\@sharp$}\fi}}
1487 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1488     \or \or \@addamp \or
1489     \@acolampacol \or \@firstampfalse \@acol \fi
1490     \edef\@preamble{\@preamble
1491     \ifcase \@chnum
1492     \hfil\adl@putlrc{\@sharp\unskip}\hfil
1493     \or \adl@putlrc{\@sharp\unskip}\hfil
1494     \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1495 \def\adl@class@start{6}
1496 \def\adl@class@iiiorvii{3}
1497 \fi
1498 \ApplyPatchCodeToPackage{colortbl}{%
1499 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1500 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1501     \let\@endpbox\adl@org@endpbox}
1502 \let\adl@CT@setup\CT@setup
1503 \def\CT@setup{\adl@CT@setup
1504     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1505     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1506     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1507 \let\adl@act@CT@setup\CT@setup
1508 \def\@classz{\@classx
1509     \@tempcnta\count@ \prepnext@tok
1510     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1511     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1512     \expandafter\adl@extract@drsc
1513     \the\toks\@tempcnta\doublerulesepcolor!\@nil
1514     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1515     \@addtopreamble{\if@RTL\beginL\fi%
1516     \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1517     \ifcase \@chnum
1518     \hskip\stretch{.5}\kern\z@
1519     \dollarbegin
1520     \insert@column
1521     \dollarend\hskip\stretch{.5}%
1522     \or \dollarbegin \insert@column \dollarend \hfill
1523     \or \hfill \kern\z@ \dollarbegin \insert@column \dollarend
1524     \or $\vcenter
1525     \startpbox{\@nextchar}\insert@column \@endpbox $\%
1526     \or \vtop \startpbox{\@nextchar}\insert@column \@endpbox
1527     \or \vbox \startpbox{\@nextchar}\insert@column \@endpbox
1528     \fi

```



```

1529             \if@RTL\endR\fi\egroup\egroup
1530             \beginngroup
1531                 \CT@setup
1532                 \CT@column@color
1533                 \CT@row@color
1534                 \CT@cell@color
1535                 \CT@do@color
1536             \endgroup
1537             \@tempdima\ht\z@
1538             \advance\@tempdima\minrowclearance
1539             \vrule\@height\@tempdima\@width\z@
1540             \unhbox\z@\if@RTL\endL\fi}%
1541         \prepnext@tok}
1542 \let\adl@act@classz\@classz
1543 \let\adl@org@classz\@classz
1544 }

```

14 File beamer-xetex-bidi.def

```

1545 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1546 \AtBeginDocument{%
1547   \if@RTLmain
1548     \raggedleft
1549   \else
1550     \raggedright
1551   \fi
1552 }
1553
1554 \renewcommand*{\bidi@beamer@ragged}{%
1555   \if@RTL
1556     \raggedleft
1557   \else
1558     \raggedright
1559   \fi
1560 }
1561
1562

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1563 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1564 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1565
1566 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1567
1568 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}
1569
1570 \bidi@csundef{beamer@tmpop@subsection in toc@subsections numbered}
1571
1572 \bidi@csundef{beamer@tmpop@subsubsection in toc@subsections numbered}
1573
1574 \defbeamer@template{subsection in toc}{sections numbered}
1575 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1576

```



```

1577 \defbeamertemplate{subsubsection in toc}{sections numbered}
1578 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}\bidi@beamer@leftskip=3.5em\inserttocsubsubsection\par}
1579 \inserttocsubsubsection\par}
1580
1581 \defbeamertemplate{section in toc}{subsections numbered}
1582 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsection\par}
1583
1584 \defbeamertemplate{subsection in toc}{subsections numbered}
1585 {\leavevmode\bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsubsection in toc}\bidi@beamer@leftskip=2em\inserttocsubsubsection\par}
1586
1587 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1588 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}\bidi@beamer@leftskip=3em\inserttocsubsubsection\par}
1589 \inserttocsubsubsection\par}
1590 \inserttocsubsubsection\par}
1591
1592 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1593
1594 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1595
1596 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1597
1598 \defbeamertemplate{section in toc}{circle}
1599 {\leavevmode\bidi@beamer@leftskip=2ex%
1600 \llap{%
1601 \usebeamerfont*{section number projected}%
1602 \usebeamerfont*{section number projected}%
1603 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1604 \color{bg}
1605 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1606 \pgfusepath{fill}
1607 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1608 \end{pgfpicture}\kern1.25ex%
1609 }%
1610 \inserttocsection\par}
1611
1612 \defbeamertemplate{subsection in toc}{circle}
1613 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsubsection\par}
1614
1615 \defbeamertemplate{subsubsection in toc}{circle}
1616 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}\bidi@beamer@leftskip=3em\inserttocsubsubsection\par}
1617 \inserttocsubsubsection\par}
1618 \inserttocsubsubsection\par}
1619
1620 \bidi@csundef{beamer@@tmpop@section in toc@square}
1621
1622 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1623
1624 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1625
1626 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1627
1628 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1629
1630 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}

```



```

1631
1632 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1633
1634 \defbeamertemplate{section in toc}{square}
1635 {\leavevmode\bidi@beamer@leftskip=3ex%
1636 \llap{%
1637 \usebeamerfont*{section number projected}%
1638 \usebeamercolor[bg]{section number projected}%
1639 \if@RTL
1640 \else
1641 \vrule width2.25ex height1.85ex depth.4ex%
1642 \hskip-2.25ex%
1643 \fi
1644 \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}%
1645 \if@RTL
1646 \hskip-2.25ex%
1647 \vrule width2.25ex height1.85ex depth.4ex%
1648 \fi
1649 }\kern1.25ex}%
1650 \inserttocsection\par}
1651
1652 \defbeamertemplate{subsection in toc}{square}
1653 {\leavevmode\bidi@beamer@leftskip=5ex\llap{%
1654 \usebeamercolor[bg]{subsection number projected}%
1655 \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1656
1657 \defbeamertemplate{subsubsection in toc}{square}
1658 {\leavevmode\normalsize\usebeamerfont{subsection in
1659 toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1660 \llap{%
1661 \usebeamercolor[bg]{subsubsection number projected}%
1662 \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1663
1664 \defbeamertemplate{enumerate item}{square}
1665 {
1666 \hbox{%
1667 \usebeamerfont*{item projected}%
1668 \usebeamercolor[bg]{item projected}%
1669 \if@RTL
1670 \else
1671 \vrule width2.25ex height1.85ex depth.4ex%
1672 \hskip-2.25ex%
1673 \fi
1674 \hbox to2.25ex{%
1675 \hfil%
1676 \color{fg}\insertenumlabel%
1677 \hfil}}%
1678 \if@RTL
1679 \hskip-2.25ex%
1680 \vrule width2.25ex height1.85ex depth.4ex%
1681 \fi
1682 }}%
1683 }
1684 [action]

```



```

1685 {\setbeamerfont{item projected}{size=\scriptsize}}
1686
1687 \defbeamertemplate{enumerate subitem}{square}
1688 {
1689   \hbox{%
1690     \usebeamerfont*{subitem projected}%
1691     \usebeamercolor[bg]{subitem projected}%
1692     \if@RTL
1693     \else
1694       \vrule width2.25ex height1.85ex depth.4ex%
1695       \hskip-2.25ex%
1696     \fi
1697     \hbox to2.25ex{%
1698       \hfil%
1699       \color{fg}\insertsubenumlabel%
1700       \hfil}}%
1701     \if@RTL
1702       \hskip-2.25ex%
1703       \vrule width2.25ex height1.85ex depth.4ex%
1704     \fi
1705   }}%
1706 }
1707
1708 \defbeamertemplate{enumerate subsubitem}{square}
1709 {
1710   \hbox{%
1711     \usebeamerfont*{subitem projected}%
1712     \usebeamercolor[bg]{subsubitem projected}%
1713     \if@RTL
1714     \else
1715       \vrule width2.25ex height1.85ex depth.4ex%
1716       \hskip-2.25ex%
1717     \fi
1718     \hbox to2.25ex{%
1719       \hfil%
1720       \color{fg}\insertsubsubenumlabel%
1721       \hfil}}%
1722     \if@RTL
1723       \hskip-2.25ex%
1724       \vrule width2.25ex height1.85ex depth.4ex%
1725     \fi
1726   }}%
1727 }
1728
1729 \defbeamertemplate{enumerate mini template}{square}
1730 {
1731   \hbox{%
1732     \usebeamerfont*{\beameritemnestingprefix item projected}%
1733     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1734     \if@RTL
1735     \else
1736       \vrule width2.25ex height1.85ex depth.4ex%
1737       \hskip-2.25ex%
1738     \fi

```



```

1739 \hbox to2.25ex{{%
1740 \hfil%
1741 \color{fg}\insertenumlabel%
1742 \hfil}}}%
1743 \if@RTL
1744 \hskip-2.25ex%
1745 \vrule width2.25ex height1.85ex depth.4ex%
1746 \fi
1747 }}%
1748 }
1749
1750 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1751
1752 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1753
1754 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1755
1756 \defbeamertemplate{section in toc}{ball unnumbered}
1757 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1758 \llap{%
1759 \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1760 \inserttocsection\par}
1761
1762 \defbeamertemplate{subsection in toc}{ball unnumbered}
1763 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1764 \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1765
1766 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1767 {\leavevmode\normalsize\usebeamerfont{subsection in
1768 toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1769 \llap{%
1770 \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsubsubsection\par}
1771
1772 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1773
1774 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1775
1776 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1777
1778 \defbeamertemplate{section in toc}{ball}
1779 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1780 \llap{%
1781 \normalsize%
1782 \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1783 \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1784 \pgftext{%
1785 \usebeamerfont*{section number projected}%
1786 \usebeamercolor{section number projected}%
1787 \color{fg!90!bg}%
1788 \inserttocsectionnumber}
1789 \end{pgfpicture}%
1790 \kern1.25ex}%
1791 \inserttocsection\par}
1792 }

```



```

1793 [action]
1794 {\setbeamerfont{section number projected}{size=\scriptsize}}
1795
1796 \defbeamertemplate{subsection in toc}{ball}
1797 {\leavevmode\bidibeamer@leftskip=5ex%
1798   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1799   \inserttocsubsection\par%
1800 }
1801
1802 \defbeamertemplate{subsubsection in toc}{ball}
1803 {\leavevmode\normalsize\usebeamerfont{subsection in
1804   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1805   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1806   \inserttocsubsubsection\par%
1807 }
1808
1809 \bidicsundef{beamer@@tmpop@block begin@rounded}
1810
1811 \bidicsundef{beamer@@tmpop@block alerted begin@rounded}
1812
1813 \bidicsundef{beamer@@tmpop@block example begin@rounded}
1814
1815 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1816 {%
1817   \par\vskip\medskipamount%
1818   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1819     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1820     \bidibeamer@ragged%
1821     \usebeamerfont{block body}%
1822   }
1823
1824 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1825 {%
1826   \par\vskip\medskipamount%
1827   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1828     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1829     \bidibeamer@ragged%
1830     \usebeamerfont{block body alerted}%
1831   }%
1832
1833 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1834 {%
1835   \par\vskip\medskipamount%
1836   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]%
1837     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1838     \bidibeamer@ragged%
1839     \usebeamerfont{block body example}%
1840   }%
1841
1842 \bidicsundef{beamer@@tmpop@caption@numbered}
1843
1844 \defbeamertemplate{caption}{numbered}
1845 {%
1846   \leavevmode

```




```

1847 \bidi@beamer@ragged
1848 {%
1849   \usebeamercolor[fg]{caption name}%
1850   \usebeamerfont*{caption name}%
1851   \insertcaptionname~\insertcaptionnumber
1852   \usebeamertemplate{caption label separator}%
1853 }%
1854 \insertcaption\par
1855 }
1856
1857 \bidi@csundef{beamer@@tmpop@caption@caption name own line}
1858
1859 \defbeamertemplate{caption}{caption name own line}
1860 {%
1861   \begin{minipage}{\textwidth}
1862     \leavevmode
1863     \bidi@beamer@ragged
1864     {%
1865       \usebeamercolor[fg]{caption name}%
1866       \usebeamerfont*{caption name}%
1867       \insertcaptionname%
1868     }\\
1869     \insertcaption
1870   \end{minipage}
1871 }
1872
1873 \ApplyPatchCodeToPackage{caption}{%
1874   \DeclareCaptionFont{beamer@font}{%
1875     \usebeamerfont*{caption}%
1876     \usebeamercolor[fg]{caption}%
1877   }
1878   \SetCaptionDefault{font}{beamer@font}
1879   \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1880   \SetCaptionDefault{justification}{bidi@beamer@ragged}
1881 }
1882

```

16 File beamerbaseboxes-xetex-bidi.def

```

1883 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1884 \renewcommand\beamerboxesrounded[2] [] {%
1885   \global\let\beamer@firstlineitemizeunskip=\relax%
1886   \vbox\bgroup%
1887   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1888   \setkeys{beamerboxes}{#1}%
1889   {%
1890     \usebeamercolor{\bmb@lower}%
1891     \globalcolorstrue%
1892     \colorlet{lower.bg}{bg}%
1893   }%
1894   {%
1895     \usebeamercolor{\bmb@upper}%
1896     \globalcolorstrue%
1897     \colorlet{upper.bg}{bg}%

```



```

1898 }%
1899 %
1900 % Typeset head
1901 %
1902 \vskip4bp
1903 \setbox\bmb@box=\hbox{%
1904   \begin{minipage}[b]{\bmb@width}%
1905     \usebeamercolor[fg]{\bmb@upper}%
1906     #2%
1907   \end{minipage}}%
1908 \ifdim\wd\bmb@box=0pt%
1909   \setbox\bmb@box=\hbox{}%
1910   \ht\bmb@box=1.5pt%
1911   \bmb@prevheight=-4.5pt%
1912 \else%
1913   \wd\bmb@box=\bmb@width%
1914   \bmb@temp=\dp\bmb@box%
1915   \ifdim\bmb@temp<1.5pt%
1916     \bmb@temp=1.5pt%
1917   \fi%
1918   \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1919   \dp\bmb@box=0pt%
1920   \bmb@prevheight=\ht\bmb@box%
1921 \fi%
1922 \bmb@temp=\bmb@width%
1923 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1924 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1925 \hbox{%
1926   \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1927     \ifdim\wd\bmb@box=0pt%
1928       \color{lower.bg}%
1929     \else%
1930       \color{upper.bg}%
1931     \fi%
1932     \pgfpathmoveto{-4bp}{-1bp}
1933     \pgfpathcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1934     \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1935     \pgfpathcurveto%
1936       {\pgfpoint{\bmb@dima}{3bp}}%
1937       {\pgfpoint{\bmb@dimb}{1.2bp}}%
1938       {\pgfpoint{\bmb@dimb}{-1bp}}%
1939     \bmb@dima=-\ht\bmb@box%
1940     \advance\bmb@dima by-2pt%
1941     \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1942     \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1943     \pgfusepath{fill}
1944   \end{pgfpicture}%
1945   \copy\bmb@box%
1946 }%
1947 \nointerlineskip%
1948 \vskip-1pt%
1949 \ifdim\wd\bmb@box=0pt%
1950 \else%
1951 \hbox{%

```



```

1952 \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1953 \bmb@dima=\bmb@width%
1954 \advance\bmb@dima by8bp%
1955 \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1956 \pgfusepath{clip}
1957 {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1958 \end{pgfpicture}%
1959 }%
1960 \nointerlineskip%
1961 \vskip-0.5pt%
1962 \fi%
1963 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1964 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1965 \vskip2pt%
1966 \usebeamercolor[fg]{\bmb@lower}%
1967 \colorlet{beamerstructure}{upper.bg}%
1968 \colorlet{structure}{upper.bg}%
1969 %\color{.}%
1970 \@bidi@list@minipage@parboxfalse
1971 }
1972
1973 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1974 \begingroup
1975 \@RTLfalse
1976 }{}{}
1977
1978

```

17 File beamerbasecolor-xetex-bidi.def

```

1979 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1980 \renewenvironment{beamercolorbox}[2][]{%
1981 \def\beamer@vmode{\leavevmode}%
1982 \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1983 leftskip=0pt,rightskip=0pt plus1fil,%
1984 sep=0pt,colsep=0pt,colsep*=0pt,%
1985 shadow=false,rounded=false,ignorebg=false}%
1986 \if@RTL
1987 \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1988 \else
1989 \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1990 \fi
1991 \setkeys{beamercolbox}{#1}%
1992 \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1993 \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1994 \def\beamer@colbox@color{#2}%
1995 \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1996 \ifbeamer@colbox@ignorebg%
1997 \colorlet{beamer@temp@color}{bg}%
1998 \usebeamercolor[fg]{#2}%
1999 \colorlet{bg}{beamer@temp@color}%
2000 \else%
2001 \usebeamercolor[fg]{#2}%
2002 \fi%

```



```

2003 \beginL
2004 \vbox\bgroup%
2005 \hsize=\beamer@colbox@wd%
2006 \@arrayparboxrestore%
2007 \leftskip=\beamer@colbox@ls%
2008 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2009 \rightskip=\beamer@colbox@rs%
2010 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2011 \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2012 \advance\leftskip by\beamer@colbox@colsep%
2013 \advance\rightskip by\beamer@colbox@colsep%
2014 \vskip\beamer@colbox@colsep%
2015 \fi%
2016 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2017 \fi%
2018 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2019 \beamer@vmode\ignorespaces}{%
2020 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2021 \if@tempswa
2022 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2023 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2024 \fi%
2025 \egroup\endL\color@endgroup\egroup%
2026 \wd\beamer@tempbox=\beamer@colbox@wd%
2027 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2028 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2029 \ifbeamer@colbox@rounded%
2030 \if@tempswa%
2031 \begin{beamerboxesrounded}[%
2032 shadow=\beamer@colbox@shadow,%
2033 lower=\beamer@colbox@color,%
2034 upper=normal text,%
2035 width=\beamer@colbox@wd]{%
2036 \box\beamer@tempbox%
2037 \end{beamerboxesrounded}%
2038 \else%
2039 \ifdim\wd\beamer@tempbox>\textwidth%
2040 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2041 \fi%
2042 \box\beamer@tempbox%
2043 \fi%
2044 \else%
2045 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2046 \usebeamercolor{\beamer@colbox@color}%
2047 \hskip-\beamer@colbox@colseps%
2048 \fboxsep=\z@\colorbox{bg}{%
2049 \hskip\beamer@colbox@colseps%
2050 \box\beamer@tempbox%
2051 \hskip\beamer@colbox@colseps%
2052 }%
2053 \hskip-\beamer@colbox@colseps%
2054 }\fi%
2055 \ifdim\wd\beamer@tempbox>\textwidth%
2056 \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box

```



```

2057 \fi%
2058 \box\beamer@tempbox%
2059 \fi%
2060 }
2061
2062

```

18 File beamerbasecompatibility-xetex-bidi.def

```

2063 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2064 \def\insertvrule#1#2{\hbox{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2065
2066

```

19 File beamerbaseframecomponents-xetex-bidi.def

```

2067 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations for
2068 \renewcommand{\setbeamersize}[1]{%
2069 \beamer@dogeometryfalse%
2070 \setkeys{beamer@margin}{#1}%
2071 \ifbeamer@dogeometry%
2072 % Reset left margin now
2073 \beamer@tempdim=\beamer@leftmargin%
2074 \advance\beamer@tempdim by\beamer@leftsidebar%
2075 \if@RTLmain
2076 \geometry{right=\the\beamer@tempdim}%
2077 \else
2078 \geometry{left=\the\beamer@tempdim}%
2079 \fi
2080 % Reset right margin now
2081 \beamer@tempdim=\beamer@rightmargin%
2082 \advance\beamer@tempdim by\beamer@rightsidebar%
2083 \if@RTLmain
2084 \geometry{left=\the\beamer@tempdim}%
2085 \else
2086 \geometry{right=\the\beamer@tempdim}%
2087 \fi
2088 \fi%
2089 }
2090
2091 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2092 \if@RTLmain
2093 \Gm@rmargin
2094 \else
2095 \Gm@lmargin
2096 \fi
2097 }
2098
2099 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2100 \if@RTLmain
2101 \Gm@lmargin
2102 \else
2103 \Gm@rmargin
2104 \fi

```



```

2105 }
2106
2107 \def\ps@navigation{
2108   \def\@oddhead{%
2109     \begingroup%
2110     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2111     \beamer@tempdim=\ht\beamer@tempbox%
2112     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2113     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2114     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2115     \beamer@tempdim=\ht\@tempboxa%
2116     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2117     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2118     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2119     \hbox{%
2120       {%
2121         \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2122         \if@RTLmain
2123           {%
2124             \vbox to \sidebarheight{%
2125               \usebeamertemplate***{sidebar left}%
2126               \vfil%
2127             }}%
2128             \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2129               \hskip-\textwidth
2130             }%
2131             \fi
2132             {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2133               \usebeamercolor*{sidebar left}%
2134               \usebeamertemplate{sidebar canvas left}%
2135               \vss%
2136             }}%
2137             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2138             \box\beamer@tempbox}%
2139             \if@RTLmain
2140             \else
2141             {%
2142               \vbox to \sidebarheight{%
2143                 \usebeamertemplate***{sidebar left}%
2144                 \vfil%
2145               }}\fi}%
2146             \beamer@tempdim=\ht\beamer@tempbox%
2147             \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2148             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2149             \box\beamer@tempbox%
2150           }%
2151           {% print right sidebar first, since it should be overwritten by headline
2152           \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2153           \if@RTLmain
2154             {%
2155               \vbox to \sidebarheight{%
2156                 \usebeamertemplate***{sidebar right}%
2157                 \vfil%
2158               }}%

```



```

2159         \hskip-\textwidth
2160     \fi
2161     {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2162         \usebeamercolor*{sidebar right}%
2163         \usebeamertemplate{sidebar canvas right}%
2164         \vss%
2165     }}%
2166     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2167     \box\beamer@tempbox}%
2168     \if@RTLmain
2169     \else
2170     {%
2171         \vbox to \sidebarheight{%
2172             \usebeamertemplate***{sidebar right}%
2173             \vfil%
2174         }}\fi}%
2175     \beamer@tempdim=\ht\beamer@tempbox%
2176     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2177     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2178     \box\beamer@tempbox%
2179     }%
2180     \beamer@typesetheadorfoot{headline}%
2181     }%
2182     \hfil}%
2183     \endgroup}
2184     \def\@oddfoot{%
2185         \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2186             \hfil}\hbox{}}\hfil
2187     }%
2188     \let\@evenhead\@oddhead
2189     \let\@evenfoot\@oddfoot}
2190
2191 \AtBeginDocument{%
2192     \pagestyle{navigation}%
2193 }
2194
2195 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2196     {\parskip0pt\offinterlineskip%
2197         \hbox{%
2198             \hskip-\bidi@beamer@Gm@lmargin%
2199             \hbox{%
2200                 \vbox{%
2201                     \@tempdima=\textwidth%
2202                     \textwidth=\paperwidth%
2203                     \hsize=\textwidth%
2204                     \def\{\,%
2205                         \usebeamertemplate***{#1}%
2206                     }%
2207                     \hskip-\bidi@beamer@Gm@rmargin%
2208                 }}\hfil%
2209     }
2210
2211 \def\ps@empty{%
2212     \let\@mkboth\@gobbletwo%

```



```

2213 \def\@oddhead{\begingroup%
2214   \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2215   \beamer@tempdim=\ht\beamer@tempbox%
2216   \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2217   \wd\beamer@tempbox=Opt\ht\beamer@tempbox=Opt\dp\beamer@tempbox=Opt%
2218   \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2219   \beamer@tempdim=\ht\@tempboxa%
2220   \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2221   \wd\@tempboxa=Opt\ht\@tempboxa=Opt\dp\@tempboxa=Opt%
2222   \vbox{\hbox{\hskip-\Gm\lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\
2223   \endgroup%
2224 }
2225 \def\@oddfoot{{\normalcolor{\hfil%
2226   \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beame
2227   \ht\beamer@tempbox=Opt%
2228   \dp\beamer@tempbox=Opt%
2229   \box\beamer@tempbox}}}%
2230 \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2231
2232 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2233   \beamer@colclose\def\beamer@colclose{%
2234   \begin{actionenv}#3%
2235     \setkeys{beamer@col}{#1}%
2236     \begin{minipage}[\beamer@colalign]{#2}%
2237       \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2238     {\end{minipage}\hfill\end{actionenv}\@ignoretrue}
2239 \let\endcolumn\endbeamer@columnenv
2240
2241 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2242   \beamer@colclose%
2243   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2244 \begin{actionenv}#3%
2245   \setkeys{beamer@col}{#1}%
2246   \begin{minipage}[\beamer@colalign]{#2}%
2247     \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2248
2249 \renewenvironment<>{columns}[1][{}]{%
2250   \begin{actionenv}#2%
2251   \ifbeamer@onlytextwidth
2252     \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2253     \def\beamer@colexitcode{\unskip\egroup}
2254   \else%
2255     \def\beamer@colentrycode{%
2256       \hbox to\textwidth\bgroup%
2257       \leavevmode%
2258       \hskip-\beamer@leftmargin%
2259       \nobreak%
2260       \beamer@tempdim=\textwidth%
2261       \advance\beamer@tempdim by\beamer@leftmargin%
2262       \advance\beamer@tempdim by\beamer@rightmargin%
2263       \hbox to\beamer@tempdim\bgroup%
2264       \hbox{}\hfill\ignorespaces}%
2265     \def\beamer@colexitcode{\egroup%
2266       \nobreak%

```




```

2267 \hskip-\beamer@rightmargin\egroup}%
2268 \fi%
2269 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2270 \setkeys{beamer@col}{#1}%
2271 \par%
2272 \leavevmode
2273 \beamer@colentrycode%
2274 \def\beamer@colclose{}\ignorespaces}%
2275 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}}%
2276
2277
2278 \def\@makeRTLfntext#1{%
2279 \def\insertfootnotetext{#1}%
2280 \def\insertfootnotemark{\@makefntmark}%
2281 \usebeamertemplate***{RTLfootnote}}
2282
2283 \def\@makeLTRfntext#1{%
2284 \def\insertfootnotetext{#1}%
2285 \def\insertfootnotemark{\@makefntmark}%
2286 \usebeamertemplate***{LTRfootnote}}
2287
2288 \renewcommand<>\beamer@framefootnotetext[1]{%
2289 \global\setbox\beamer@footins\vbox{%
2290 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2291 \hsize\framewidth
2292 \textwidth\hsize
2293 \columnwidth\hsize
2294 \unvbox\beamer@footins
2295 \reset@font
2296 \bidi@@footnotetext@font
2297 \@parboxrestore
2298 \protected@edef\@currentlabel
2299 {\csname p@footnote\endcsname\@thefnmark}%
2300 \color@begingroup
2301 \uncover#2{\@makefntext{%
2302 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2303 \color@endgroup}}
2304
2305 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2306 \global\setbox\beamer@footins\vbox{%
2307 \@RTLtrue
2308 \hsize\framewidth
2309 \textwidth\hsize
2310 \columnwidth\hsize
2311 \unvbox\beamer@footins
2312 \reset@font
2313 \bidi@@RTLfootnotetext@font
2314 \@parboxrestore
2315 \protected@edef\@currentlabel
2316 {\csname p@footnote\endcsname\@thefnmark}%
2317 \color@begingroup
2318 \uncover#2{\@makeRTLfntext{%
2319 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2320 \color@endgroup}}

```



```

2321
2322 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2323   \global\setbox\beamer@footins\vbox{%
2324     \RTLfalse
2325     \hsize\framewidth
2326     \textwidth\hsize
2327     \columnwidth\hsize
2328     \unvbox\beamer@footins
2329     \reset@font
2330     \bidi@@LTRfootnotetext@font
2331     \@parboxrestore
2332     \protected@edef\@currentlabel
2333       {\csname p@footnote\endcsname\@thefnmark}%
2334     \color@begingroup
2335       \uncover#2{\@makeLTRfntext{%
2336         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2337     \color@endgroup}}
2338
2339 \renewcommand<>\@mpfootnotetext[1]{%
2340 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule
2341   \global\setbox\@mpfootins\vbox{%
2342     \unvbox\@mpfootins
2343     \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
2344     \reset@font
2345     \bidi@@footnotetext@font
2346     \hsize\columnwidth
2347     \@parboxrestore
2348     \protected@edef\@currentlabel
2349       {\csname p@mpfootnote\endcsname\@thefnmark}%
2350     \color@begingroup
2351       \uncover#2{\@makefntext{%
2352         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2353     \color@endgroup}}
2354
2355 \renewcommand<>\@mpRTLfootnotetext[1]{%
2356 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2357   \global\setbox\@mpfootins\vbox{%
2358     \unvbox\@mpfootins
2359     \RTLtrue
2360     \reset@font
2361     \bidi@@RTLfootnotetext@font
2362     \hsize\columnwidth
2363     \@parboxrestore
2364     \protected@edef\@currentlabel
2365       {\csname p@mpfootnote\endcsname\@thefnmark}%
2366     \color@begingroup
2367       \uncover#2{\@makeRTLfntext{%
2368         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2369     \color@endgroup}}
2370
2371 \renewcommand<>\@mpLTRfootnotetext[1]{%
2372 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnoterule
2373   \global\setbox\@mpfootins\vbox{%
2374     \unvbox\@mpfootins

```



```

2375 \RTLfalse
2376 \reset@font
2377 \bidi@LTRfootnotetext@font
2378 \hsize\columnwidth
2379 \@parboxrestore
2380 \protected@edef\currentlabel
2381 {\csname p@mpfootnote\endcsname\@thefnmark}%
2382 \color@begingroup
2383 \uncover#2{\@makeLTrfntext{%
2384 \rule{z@footnotesep}{\ignorespaces#1\@finalstrut\strutbox}}%
2385 \color@endgroup}}
2386
2387 \let\@footnotetext=\beamer@framefootnotetext
2388 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2389 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2390
2391 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2392 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2393 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2394
2395 \renewcommand<>{\footnote}[1][{}]{%
2396 \let\beamer@footnotetext=\@footnotetext%
2397 \let\beamer@mpfn=\@mpfn%
2398 \let\beamer@thempfn=\thempfn%
2399 \let\beamer@kvorig=KV@errx%
2400 \let\beamer@xkvorig=XKV@err
2401 \def\beamer@footarg{}%
2402 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2403 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2404 \setkeys{beamerfootnote}{#1}%
2405 \let\KV@errx=\beamer@kvorig%
2406 \let\XKV@errx=\beamer@xkvorig
2407 \ifx\beamer@footarg\@empty%
2408 \def\beamer@next{\stepcounter\beamer@mpfn
2409 \protected@xdef\@thefnmark{\beamer@thempfn}%
2410 \@footnotemark\beamer@footnotetext#2}%
2411 \else%
2412 \def\beamer@next{%
2413 \begingroup
2414 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2415 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2416 \endgroup
2417 \@footnotemark\beamer@footnotetext#2}%
2418 \fi%
2419 \beamer@next}
2420
2421 \renewcommand<>{\RTLfootnote}[1][{}]{%
2422 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2423 \let\beamer@mpfn=\@mpfn%
2424 \let\beamer@thempfn=\thempfn%
2425 \let\beamer@kvorig=KV@errx%
2426 \let\beamer@xkvorig=XKV@err
2427 \def\beamer@footarg{}%
2428 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%

```



```

2429 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2430 \setkeys{beamerfootnote}{#1}%
2431 \let\KV@errx=\beamer@kvorig%
2432 \let\XKV@errx=\beamer@xkvorig
2433 \ifx\beamer@footarg\@empty%
2434   \def\beamer@next{\stepcounter\beamer@mpfn
2435     \protected@xdef\@thefnmark{\beamer@thempfn}%
2436     \@footnotemark\beamer@RTLfootnotetext#2}%
2437 \else%
2438   \def\beamer@next{%
2439     \begingroup
2440       \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2441       \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2442     \endgroup
2443     \@footnotemark\beamer@RTLfootnotetext#2}%
2444 \fi%
2445 \beamer@next}
2446
2447 \renewcommand<>{\LTRfootnote}[1] [] {%
2448   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2449   \let\beamer@mpfn=\@mpfn%
2450   \let\beamer@thempfn=\thempfn%
2451   \let\beamer@kvorig=\KV@errx%
2452   \let\beamer@xkvorig=\XKV@err
2453   \def\beamer@footarg{}%
2454   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2455   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2456   \setkeys{beamerfootnote}{#1}%
2457   \let\KV@errx=\beamer@kvorig%
2458   \let\XKV@errx=\beamer@xkvorig
2459   \ifx\beamer@footarg\@empty%
2460     \def\beamer@next{\stepcounter\beamer@mpfn
2461       \protected@xdef\@thefnmark{\beamer@thempfn}%
2462       \@footnotemark\beamer@LTRfootnotetext#2}%
2463   \else%
2464     \def\beamer@next{%
2465       \begingroup
2466         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2467         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2468       \endgroup
2469       \@footnotemark\beamer@LTRfootnotetext#2}%
2470   \fi%
2471   \beamer@next}
2472
2473

```

20 File beamerbaseframesize-xetex-bidi.def

```

2474 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beame
2475 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2476   \par\nointerlineskip%
2477   \global\beamer@slidehaszoomtrue%
2478   \advance\beamer@zoomcount by1\relax%
2479   \def\beamer@zoomborderwidth{0}%

```



```

2480 \edef\beamer@labelzoomed{beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomco
2481 \setkeys{beamerzoom}{#3}%
2482 \only<#1>{%
2483   {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2484   \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2485     \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2486       \vbox to #7{%
2487         \hbox to#6{\hfil}%
2488         \vfil%
2489       }%
2490     \else%
2491       \begin{group}%
2492         \normalsize%
2493         \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2494           \pgfsetfillopacity{0}
2495           \pgftext[x=0cm,y=3pt]{.}
2496           \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2497         \end{pgfpicture}%
2498       \end{group}%
2499     \fi%
2500   }}%
2501   \ht\@tempboxa=0pt%
2502   \wd\@tempboxa=0pt%
2503   \dp\@tempboxa=0pt%
2504   \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@te
2505   \ht\@tempboxa=0pt%
2506   \wd\@tempboxa=0pt%
2507   \dp\@tempboxa=0pt%
2508   \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2509 }%
2510 \only<#2>{%
2511   \@ifundefined{\beamer@labelzoomed}%
2512   {%
2513     \hypertarget{\beamer@labelzoomed}{}%
2514     \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2515   }{}%
2516   \gdef\beamer@zoomer{%
2517     % compute zoom factor
2518     \@tempdima=\beamer@frametextheight%
2519     \@tempdimb=#7\relax%
2520     \@tempcnta=\@tempdimb%
2521     \divide\@tempcnta by4096\relax%
2522     \multiply\@tempdima by16\relax%
2523     \divide\@tempdima by\@tempcnta%
2524     \@tempdimb=\paperwidth%
2525     \ifbeamer@plainframe%
2526     \else%
2527       \advance\@tempdimb by-\beamer@leftsidebar%
2528       \advance\@tempdimb by-\beamer@rightsidebar\relax%
2529     \fi%
2530     \@tempdimc=#6\relax%
2531     \@tempcntb=\@tempdimc%
2532     \divide\@tempcntb by4096\relax%
2533     \multiply\@tempdimb by16\relax%

```



```

2534 \divide\@tempdimb by\@tempcntb%
2535 \ifdim\@tempdimb<\@tempdima%
2536 \@tempdima=\@tempdimb%
2537 \fi%
2538 \edef\beamer@temp{\strip@pt\@tempdima}%
2539 \@tempdimc=\beamer@frametextheight%
2540 \advance\@tempdimc by4pt%
2541 \@tempdimb=\paperwidth%
2542 \ifbeamer@plainframe%
2543 \else%
2544 \advance\@tempdimb by-\beamer@leftsidebar%
2545 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2546 \fi%
2547 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2548 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2549 \ht\@tempboxa=0pt%
2550 \wd\@tempboxa=0pt%
2551 \dp\@tempboxa=0pt%
2552 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2553 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2554 \ifRTL
2555 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pape
2556 \pgftext[right,top]{\box\@tempboxa}
2557 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2558 \pgfusepath{clip}
2559 \begingroup
2560 \pgftransformscale{\beamer@temp}
2561 \@tempdima=#4\relax%
2562 \@tempdimb=#5\relax%
2563 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2564 \pgftext[right,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}
2565 \endgroup
2566 \end{pgfpicture}%
2567 \else
2568 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargi
2569 \pgftext[left,top]{\box\@tempboxa}
2570 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2571 \pgfusepath{clip}
2572 \begingroup
2573 \pgftransformscale{\beamer@temp}
2574 \@tempdima=#4\relax%
2575 \@tempdimb=#5\relax%
2576 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2577 \pgftext[left,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}
2578 \endgroup
2579 \end{pgfpicture}%
2580 \fi
2581 }}%
2582 \setbox\beamer@framebox=\vbox{%
2583 \nobreak\vbox{}\nobreak\par\nobreak\beamer@entrycode\nobreak%
2584 \nointerlineskip\unvbox\beamer@frametitlebox%
2585 \nobreak%
2586 \box\beamer@framebox%
2587 \nobreak%

```



```

2588         \vss%
2589         \beamer@exitcode%
2590     }%
2591     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2592 }%
2593 }%
2594 }
2595
2596

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2597 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2598 \def\beamer@enum{%
2599     \beamer@compute\pref\@itemdepth% sets \beameritemnestingprefix
2600     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2601     \bgroup
2602     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2603     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2604     \egroup
2605     \expandafter
2606     \list
2607         {\usebeamertemplate{\beamer@enumtempl}}
2608         {\usecounter\@enumctr%
2609         \def\makelabel##1{\hss\llap{\hss
2610             \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2611             \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}%
2612     \beamer@cramped%
2613     \bidi@beamer@ragged%
2614     \beamer@firstlineitemizeunskip%
2615 }
2616
2617 \renewcommand{\itemize}[1][1]{%
2618     \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2619     \ifnum \@itemdepth >2\relax\@toodeep\else
2620         \advance\@itemdepth\@ne
2621         \beamer@compute\pref\@itemdepth% sets \beameritemnestingprefix
2622         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2623         \bgroup
2624         \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2625         \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2626         \egroup
2627         \list
2628             {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2629             {\def\makelabel##1{\hss
2630                 \hss\llap{\hss
2631                     \usebeamerfont*{itemize \beameritemnestingprefix item}%
2632                     \usebeamerfont{fg}{itemize \beameritemnestingprefix item}##1}}}%
2633             }%
2634         }%
2635     }%
2636 }
2637 \fi%
2638 \beamer@cramped%

```



```

2639 \bidi@beamer@ragged%
2640 \beamer@firstlineitemizeunskip%
2641 }
2642
2643 \def\@@description{%
2644 \advance\beamer@descdefault by \labelsep%
2645 \usebeamerfont{description body}%
2646 \bgroup
2647 \usebeamercolor[fg]{description body}%
2648 \usebeamertemplate{description body begin}%
2649 \egroup
2650 \list
2651 {}
2652 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2653 \beamer@cramped%
2654 \bidi@beamer@ragged
2655 \beamer@firstlineitemizeunskip%
2656 }
2657
2658 \renewenvironment{thebibliography}[1]
2659 {%\leavevmode\unskip%
2660 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2661 \bidi@thebibliography@font@hook%
2662 \list{\@biblabel{\@arabic\c@enumiv}}%
2663 {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2664 \leftmargin\labelwidth
2665 \advance\leftmargin\labelsep
2666 \itemsep=0pt%
2667 \partopsep=0pt%
2668 \topsep=0pt%
2669 \usecounter{enumiv}%
2670 \let\p@enumiv\@empty
2671 \renewcommand\theenumiv{\@arabic\c@enumiv}
2672 \let\makelabel\beamer@biblabeltemplate}%
2673 \sloppy\bidi@beamer@ragged
2674 \clubpenalty10000
2675 \@clubpenalty \clubpenalty
2676 \widowpenalty10000%
2677 \sfcode`.\@m}
2678 {\def\@noitemerr
2679 {\@latex@warning{Empty `thebibliography' environment}}}%
2680 \ifhmode\unskip\fi\endlist}
2681
2682

```

22 File beamerbasemisc-xetex-bidi.def

```

2683 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2684 \define@key{beamerst}{width}{%
2685 \def\beamer@ststart{%
2686 \begin{minipage}[t]{#1}%
2687 \bidi@beamer@ragged
2688 \beamer@stalign
2689 \beamer@stlinebreakrule

```




```

2690 }%
2691 \def\beamer@stend{\end{minipage}}
2692
2693

```

23 File beamerbasenavigation-xetex-bidi.def

```

2694 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2695 \def\slideentry#1#2#3#4#5#6{%
2696 %section number, subsection number, slide number, first/last frame, page number, part numb
2697 \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2698 \ifbeamer@compress%
2699 \advance\beamer@xpos by1\relax%
2700 \else%
2701 \ifnum#2=0%
2702 \beamer@ypos@offset=1\relax%
2703 \fi
2704 \beamer@xpos=#3\relax%
2705 \beamer@ypos=#2\relax%
2706 \advance\beamer@ypos by \beamer@ypos@offset\relax
2707 \fi%
2708 \hbox to 0pt{%
2709 \beamer@tempdim=-\beamer@vboxoffset%
2710 \advance\beamer@tempdim by-\beamer@boxsize%
2711 \multiply\beamer@tempdim by\beamer@ypos%
2712 \advance\beamer@tempdim by -.05cm%
2713 \raise\beamer@tempdim\hbox{%
2714 \beamer@tempdim=\beamer@boxsize%
2715 \multiply\beamer@tempdim by\beamer@xpos%
2716 \advance\beamer@tempdim by -\beamer@boxsize%
2717 \advance\beamer@tempdim by 1pt%
2718 \kern\beamer@tempdim
2719 \global\beamer@section@min@dim\beamer@tempdim
2720 \hbox{\beamer@link(#4){%
2721 \usebeamerfont{mini frame}%
2722 \ifnum\c@section=#1%
2723 \ifnum\c@subsection=#2%
2724 \usebeamercolor[fg]{mini frame}%
2725 \ifnum\c@subsectionslide=#3%
2726 \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2727 \else%
2728 \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhil
2729 \fi%
2730 \else%
2731 \usebeamercolor{mini frame}%
2732 \%color{fg!50!bg}%
2733 \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2734 \fi%
2735 \else%
2736 \usebeamercolor{mini frame}%
2737 \%color{fg!50!bg}%
2738 \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2739 \fi%
2740 }}}\hskip-10cm plus 1fil%

```



```

2741 } \fi \fi %
2742 \else %
2743 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2744 \fi \ignorespaces
2745 }
2746
2747 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2748 {
2749   \pgfpathmoveto{3.5bp}{0.5bp}
2750   \pgfpathqlineto{1.5bp}{2bp}
2751   \pgfpathqlineto{3.5bp}{3.5bp}
2752   \pgfusepathqfill
2753 }
2754
2755 \def\insertgotosymbol{%
2756 \if@RTL
2757   \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2758     \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2759   \end{pgfpicture}%
2760 \else
2761   \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2762     \pgfuseobject{beamer@gotosymbol}%
2763   \end{pgfpicture}%
2764 \fi
2765 }
2766
2767 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2768 {
2769   \pgfpathmoveto{5.5bp}{0.5bp}
2770   \pgfpathqlineto{3.5bp}{2bp}
2771   \pgfpathqlineto{5.5bp}{3.5bp}
2772   \pgfpathmoveto{3.5bp}{0.5bp}
2773   \pgfpathqlineto{1.5bp}{2bp}
2774   \pgfpathqlineto{3.5bp}{3.5bp}
2775   \pgfusepathqfill
2776 }
2777
2778 \def\insertskipsymbol{%
2779 \if@RTL
2780   \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2781     \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2782   \end{pgfpicture}%
2783 \else
2784   \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2785     \pgfuseobject{beamer@skipsymbol}%
2786   \end{pgfpicture}%
2787 \fi
2788 }
2789
2790 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2791 {
2792   \pgfpathmoveto{1.5bp}{0.5bp}
2793   \pgfpathqlineto{3.5bp}{2bp}
2794   \pgfpathqlineto{1.5bp}{3.5bp}

```



```

2795 \pgfusepathqfill
2796 }
2797
2798 \def\insertreturnsymbol{%
2799 \if@RTL
2800 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2801 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2802 \end{pgfpicture}%
2803 \else
2804 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2805 \pgfuseobject{beamerreturnsymbol}%
2806 \end{pgfpicture}%
2807 \fi
2808 }
2809
2810

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2811 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2812 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2813
2814

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2815 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2816 \newcommand*{\bidi@beamer@leftskip}{%
2817 \if@RTL
2818 \rightskip
2819 \else
2820 \leftskip
2821 \fi
2822 }
2823
2824 \newcommand*{\bidi@beamer@rightskip}{%
2825 \if@RTL
2826 \leftskip
2827 \else
2828 \rightskip
2829 \fi
2830 }
2831
2832 \bidi@csundef{beamer@@tmpop@subsection in toc@default}
2833
2834 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2835
2836 \defbeamertemplate*{subsection in toc}{default}
2837 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2838
2839 \defbeamertemplate*{subsubsection in toc}{default}
2840 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2841 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2842

```



```

2843 \newcommand*{\bidi@beamer@blacktriangle}{%
2844   \if@RTL
2845     $\blacktriangleleft$%
2846   \else
2847     $\blacktriangleright$%
2848   \fi
2849 }
2850
2851 \bidi@csundef{beamer@@tmpop@itemize item@default}
2852
2853 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2854
2855 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2856
2857 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\v
2858 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2859 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2860
2861 \bidi@undef\beamer@@tmpop@footnote@default
2862
2863 \defbeamertemplate*{footnote}{default}
2864 {
2865   \parindent 1em\noindent%
2866   \bidi@beamer@ragged
2867   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2868 }
2869
2870 \defbeamertemplate*{RTLfootnote}{default}
2871 {
2872   \parindent 1em\noindent%
2873   \raggedleft
2874   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2875 }
2876
2877 \defbeamertemplate*{LTRfootnote}{default}
2878 {
2879   \parindent 1em\noindent%
2880   \raggedright
2881   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2882 }
2883
2884 \bidi@undef\beamer@@tmpop@caption@default
2885
2886 \defbeamertemplate*{caption}{default}
2887 {%
2888   \bidi@beamer@ragged
2889   {%
2890     \leavevmode
2891     \usebeamerfont*{caption name}%
2892     \usebeamerfont*{caption name}%
2893     \insertcaptionname
2894     \usebeamertemplate{caption label separator}%
2895   }%
2896   \insertcaption\par

```



```

2897 }
2898
2899 \bidi@csundef{beamer@@tmpop@block begin@default}
2900
2901 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2902
2903 \bidi@csundef{beamer@@tmpop@block example begin@default}
2904
2905 \defbeamertemplate*{block begin}{default}
2906 {
2907   \par\vskip\medskipamount%
2908   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2909     \usebeamerfont*{block title}\insertblocktitle%
2910   \end{beamercolorbox}%
2911   {\parskip0pt\par}%
2912   \ifbeamercoloreempty[bg]{block title}
2913   {}
2914   {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2915   \usebeamerfont{block body}%
2916   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2917     \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2918   }
2919
2920 \defbeamertemplate*{block alerted begin}{default}
2921 {
2922   \par\vskip\medskipamount%
2923   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2924     \usebeamerfont*{block title alerted}\insertblocktitle%
2925   \end{beamercolorbox}%
2926   {\parskip0pt\par}%
2927   \ifbeamercoloreempty[bg]{block title alerted}
2928   {}
2929   {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2930   \usebeamerfont{block body alerted}%
2931   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2932     \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2933   }
2934
2935 \defbeamertemplate*{block example begin}{default}
2936 {
2937   \par\vskip\medskipamount%
2938   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2939     \usebeamerfont*{block title example}\insertblocktitle%
2940   \end{beamercolorbox}%
2941   {\parskip0pt\par}%
2942   \ifbeamercoloreempty[bg]{block title example}
2943   {}
2944   {\ifbeamercoloreempty[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2945   \usebeamerfont{block body example}%
2946   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2947     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2948   }
2949
2950 \bidi@csundef{beamer@@tmpop@abstract begin@default}

```



```

2951
2952 \defbeamertemplate*{abstract begin}{default}
2953 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil
2954
2955 \bidi@undef\beamer@tmpop@button@default
2956
2957 \defbeamertemplate*{button}{default}
2958 {%
2959   \setbox\beamer@tempbox=\hbox{{\insertbuttontext}}%
2960   \ht\beamer@tempbox=6pt%
2961   \dp\beamer@tempbox=0pt%
2962   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2963   \beamer@tempdim=\wd\beamer@tempbox%
2964   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2965   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2966   \if@RTL
2967     \kern4pt%
2968     \box\beamer@tempbox%
2969     \hskip-\beamer@tempdim%
2970   \fi
2971   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2972     \color{bg}
2973     \pgfsetlinewidth{0.8pt}
2974     \pgfpathqmoveto{0pt}{0pt}
2975     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2976     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2977     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2978     \pgfpathcurveto%
2979       {\pgfpoint{\the\beamer@dima}{8pt}}%
2980       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2981       {\pgfpoint{\the\beamer@dimb}{4pt}}
2982     \pgfpathcurveto%
2983       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2984       {\pgfpoint{\the\beamer@dima}{0pt}}%
2985       {\pgfpoint{\the\beamer@tempdim}{0pt}}
2986     \pgfpathclose
2987     \pgfusepathqfill
2988     \colorlet{bg}{parent.bg}
2989     \usebeamercolor[fg]{button border}
2990     \pgfpathqmoveto{0pt}{0pt}
2991     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2992     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2993     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2994     \pgfpathcurveto%
2995       {\pgfpoint{\the\beamer@dima}{8pt}}%
2996       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2997       {\pgfpoint{\the\beamer@dimb}{4pt}}
2998     \pgfpathcurveto%
2999       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3000       {\pgfpoint{\the\beamer@dima}{0pt}}%
3001       {\pgfpoint{\the\beamer@tempdim}{0pt}}
3002     \pgfpathclose
3003     \pgfusepathqstroke
3004   \end{pgfpicture}%

```



```

3005 \if@RTL
3006 \else
3007   \hskip-\beamer@tempdim%
3008   \box\beamer@tempbox%
3009   \kern4pt%
3010 \fi
3011 }
3012
3013

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3014 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for beamer]
3015 \setbeamertemplate{sections/subsections in toc}[circle]
3016

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3017 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for beamer]
3018 \setbeamertemplate{section in toc}[square]
3019 \setbeamertemplate{subsection in toc}[square]
3020
3021 \setbeamertemplate{itemize items}[square]
3022 \setbeamertemplate{itemize subitem}[triangle]
3023
3024 \bidi@csundef{beamer@@tmpop@title page@focus}
3025
3026 \defbeamertemplate*{title page}{focus}{%
3027   {%
3028     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3029     \begin{tikzpicture}[overlay, remember picture]
3030       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4}
3031     \end{tikzpicture}
3032   }
3033
3034   \vspace{-1.65\baselineskip}
3035   \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3036     \vspace{\baselineskip}
3037     \usebeamerfont{title}
3038     \usebeamercolor[fg]{frametitle}
3039     \inserttitle
3040   \end{minipage}
3041
3042   \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3043     \usebeamerfont{subtitle}
3044     \usebeamercolor[fg]{frametitle}
3045     \insertsubtitle
3046   \end{minipage}
3047
3048   % Set the title graphic in a zero-height box, so that
3049   % the position of other elements is not affected.
3050   {\vfuzz=9999pt\vbox to 0pt {
3051     \if@RTL
3052     \raggedright

```



```

3053         \else
3054         \raggedleft
3055         \fi
3056         \inserttitlegraphic
3057     }}
3058
3059     \begin{minipage}[t]{\textwidth}
3060         \usebeamerfont{author}
3061         \insertauthor
3062     \end{minipage}
3063
3064     \vspace*{\baselineskip}
3065     \begin{minipage}[t]{\textwidth}
3066         \usebeamerfont{institute}
3067         \insertinstitute
3068     \end{minipage}
3069
3070     \vspace*{\baselineskip}
3071     \begin{minipage}[t]{\textwidth}
3072         \usebeamerfont{date}
3073         \insertdate
3074     \end{minipage}
3075
3076     \vspace*{0pt plus 100fill}
3077
3078     \addtocounter{framenum}{-1}
3079     \addtocounter{realframenum}{-1}
3080 }
3081
3082
3083

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3084 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3085 \AtBeginDocument{%
3086   \setbeamersize{sidebar width left=.25\paperwidth}%
3087 }
3088
3089 \bidi\csundef{beamer@@tmpop@section in toc@inmargin}
3090
3091 \bidi\csundef{beamer@@tmpop@title page@inmargin}
3092
3093 \bidi\csundef{beamer@@tmpop@block begin@inmargin}
3094
3095 \bidi\csundef{beamer@@tmpop@block end@inmargin}
3096
3097 \bidi\csundef{beamer@@tmpop@block alerted begin@inmargin}
3098
3099 \bidi\csundef{beamer@@tmpop@block alerted end@inmargin}
3100
3101 \bidi\csundef{beamer@@tmpop@block example begin@inmargin}
3102
3103 \bidi\csundef{beamer@@tmpop@block example end@inmargin}

```




```

3104
3105 \defbeamertemplate*{section in toc}{inmargin}
3106 {\leavevmode
3107   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3108
3109 \defbeamertemplate*{title page}{inmargin}
3110 {
3111   \begin{block}{\inserttitleindicator}
3112     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3113     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3114   \end{block}
3115   \vfill
3116   \ifx\insertauthor\@empty
3117     \else
3118     \begin{block}{\insertauthorindicator}
3119       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3120     \end{block}
3121     \fi
3122     \ifx\insertinstitute\@empty
3123       \else
3124       \begin{block}{\insertinstituteindicator}
3125         \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3126       \end{block}
3127       \fi
3128       \ifx\insertdate\@empty
3129         \else
3130         \begin{block}{\insertdateindicator}
3131           \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3132         \end{block}
3133         \fi
3134       }
3135
3136 \defbeamertemplate*{block begin}{inmargin}
3137 {
3138   \par\vskip\medskipamount%
3139   \leavevmode%
3140   \beamer@putleft{\normalfont\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i
3141   \beginL\beamer@putright
3142   %\usebeamercolor[fg]{block body}% to be done!
3143 }
3144
3145 \defbeamertemplate*{block end}{inmargin}
3146 {\endbeamer@putright\endL\vskip\smallskipamount}
3147
3148 \defbeamertemplate*{block alerted begin}{inmargin}
3149 {
3150   \par\vskip\medskipamount%
3151   \leavevmode%
3152   \beamer@putleft{\normalfont\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block
3153   \beginL\beamer@putright
3154   %\usebeamercolor[fg]{block body alerted}% to be done!
3155 }
3156
3157 \defbeamertemplate*{block alerted end}{inmargin}

```



```

3158 {\endbeamer@putright\endL\vskip\smallskipamount}
3159
3160 \defbeamertemplate*{block example begin}{inmargin}
3161 {
3162   \par\vskip\medskipamount%
3163   \leavevmode%
3164   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}}\usebeamerfont*{block
3165   \beginL\beamer@putright
3166   %\usebeamercolor[fg]{block body example}% to be done
3167 }
3168
3169 \defbeamertemplate*{block example end}{inmargin}
3170 {\endbeamer@putright\endL\vskip\smallskipamount}
3171
3172 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3173   \setbeamertemplate{section in toc}[inmargin]%
3174   \setbeamertemplate{subsection in toc}[inmargin]%
3175   \setbeamertemplate{subsubsection in toc}[inmargin]%
3176 }
3177
3178

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3179 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3180 \setbeamertemplate{title}{
3181   \bidi@beamer@ragged%
3182   \linespread{1.0}%
3183   \inserttitle%
3184   \par%
3185   \vspace*{0.5em}
3186 }
3187
3188 \setbeamertemplate{subtitle}{
3189   \bidi@beamer@ragged%
3190   \insertsubtitle%
3191   \par%
3192   \vspace*{0.5em}
3193 }
3194
3195 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3196
3197 \defbeamertemplate{section page}{progressbar}{
3198   \centering
3199   \begin{minipage}{22em}
3200     \bidi@beamer@ragged
3201     \usebeamercolor[fg]{section title}
3202     \usebeamerfont{section title}
3203     \insertsectionhead\[-1ex]
3204     \usebeamertemplate*{progress bar in section page}
3205     \par
3206     \ifx\insertsubsectionhead\@empty\else%
3207       \usebeamercolor[fg]{subsection title}%
3208       \usebeamerfont{subsection title}%

```



```

3209     \insertsubsectionhead
3210     \fi
3211 \end{minipage}
3212 \par
3213 \vspace{\baselineskip}
3214 }
3215
3216 \setbeamertemplate{progress bar in section page}{
3217   \setlength{\metropolis@progressonsectionpage}{%
3218     \textwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}}%
3219   }%
3220   \begin{tikzpicture}
3221     \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3222 \if@RTLmain
3223   \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage);
3224 \else
3225   \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage);
3226 \fi
3227 \end{tikzpicture}%
3228 }
3229
3230 \renewcommand{\metropolis@block}[1]{
3231   \par\vskip\medskipamount%
3232   \setlength{\parskip}{0pt}
3233   \ifbeamercolorempthy[bg]{block title#1}{%
3234     \if@RTL
3235       \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3236     \else
3237       \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3238     \fi
3239   }{%
3240     \ifbeamercolorempthy[bg]{block title}{%
3241       \if@RTL
3242         \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3243       \else
3244         \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3245       \fi
3246     }%
3247     {%
3248     \if@RTL
3249       \begin{beamercolorbox}[
3250         sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3251         rightskip=\metropolis@blockadjust,
3252         leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3253       ]{block title#1}%
3254     \else
3255       \begin{beamercolorbox}[
3256         sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3257         leftskip=\metropolis@blockadjust,
3258         rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3259       ]{block title#1}%
3260     \fi
3261   }}%
3262   \usebeamerfont*{block title#1}%

```



```

3263 \metropolis@strut%
3264 \insertblocktitle%
3265 \metropolis@strut%
3266 \end{beamercolorbox}%
3267 \nointerlineskip%
3268 \ifbeamercoloreempty[bg]{block body#1}{%
3269 \begin{beamercolorbox}[vmode]{block body#1}}{
3270 \ifbeamercoloreempty[bg]{block body}{%
3271 \begin{beamercolorbox}[vmode]{block body#1}%
3272 }{%
3273 \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3274 \vspace{-\metropolis@parskip}
3275 }}%
3276 \usebeamerfont{block body#1}%
3277 \setlength{\parskip}{\metropolis@parskip}%
3278 }
3279
3280
3281 \setbeamertemplate{footnote}{%
3282 \parindent 0em\noindent%
3283 \bidi@beamer@ragged
3284 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3285 }
3286
3287 \setbeamertemplate{RTLfootnote}{%
3288 \parindent 0em\noindent%
3289 \raggedleft
3290 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3291 }
3292
3293 \setbeamertemplate{LTRfootnote}{%
3294 \parindent 0em\noindent%
3295 \raggedright
3296 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3297 }
3298
3299 \setbeamertemplate{itemize items}{\textbullet}
3300
3301 \setbeamertemplate{section page}[progressbar]
3302
3303

```

30 File beamerinnerthemerectangles-xetex-bidi.def

```

3304 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo
3305 \setbeamertemplate{sections/subsections in toc}[square]
3306 \setbeamertemplate{items}[square]
3307

```

31 File beamerinnerthemrounded-xetex-bidi.def

```

3308 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3309 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3310 \setbeamertemplate{items}[ball]

```



```

3311 \setbeamertemplate{sections/subsections in toc}[ball]
3312

```

32 File beamerouterthemedefault-xetex-bidi.def

```

3313 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3314 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3315
3316 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3317
3318 \AtBeginDocument{%
3319   \if@RTLmain
3320     \setbeamertemplate{frametitle}[default][right]
3321   \fi
3322 }
3323
3324 \bidi@csundef{beamer@@tmpop@note page@default}
3325
3326 \newcommand*{\bidi@beamer@today}{%
3327 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3328
3329 \defbeamertemplate*{note page}{default}
3330 {%
3331   {%
3332     \scriptsize
3333     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3334     \ifbeamercoloreempty[bg]{note title}{\}%
3335     \insertvrule{.25\paperheight}{note title.bg}%
3336     \vskip-.25\paperheight%
3337     \nointerlineskip%
3338   }%
3339   \vbox{
3340     \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3341     \vskip-0.25\paperheight%
3342     \nointerlineskip
3343     \if@RTL
3344       \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3345         \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3346           {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3347           \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3348         \end{pgflowlevelscope}
3349       \end{pgfpicture}%
3350     \else
3351       \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3352         \begin{pgflowlevelscope}{\pgftransformrotate{90}}
3353           {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3354           \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3355         \end{pgflowlevelscope}
3356       \end{pgfpicture}%
3357     \fi
3358     \nointerlineskip
3359     \vbox to .25\paperheight{\vskip0.5em
3360     \if@RTL
3361       \moveright0.25\textwidth

```



```

3362 \fi
3363 \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3364 \setbox\beamer@tempbox=\hbox{\insertsection}%
3365
3366 \if@RTL
3367 \moveright\dimexpr0.29\textwidth-14pt\relax
3368 \fi
3369 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3370 width0.4pt height7pt\vrule width 9pt
3371 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}%
3372 \if@RTL\endR\fi}%
3373 \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3374
3375 \if@RTL
3376 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3377 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3378 width0.4pt height7pt\vrule width 9pt
3379 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}%
3380 \if@RTL\endR\fi}%
3381 \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3382
3383 \if@RTL
3384 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3385 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3386 width0.4pt height7pt\vrule width 9pt
3387 height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi}%
3388 \if@RTL\endR\fi}%
3389 \vfil}%
3390 }%
3391 \ifbeamercolorempy[bg]{note page}{}{%
3392 \nointerlineskip%
3393 \insertvrule{.75\paperheight}{note page.bg}%
3394 \vskip-.75\paperheight%
3395 }%
3396 \vskip.25em
3397 \nointerlineskip
3398 \insertnote
3399 }
3400
3401
3402

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3403 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3404 \bidi@undef\beamer@tmpop@footline@progressbar
3405
3406 \defbeamertemplate*{footline}{progressbar}{%
3407 % If not appendix.
3408 \ifnum\mainend<0% From package appendixnumberbeamer.
3409 %
3410 \settowidth{\focus@pbar@leftoffset}{1}%
3411 \addtolength{\focus@pbar@leftoffset}{1.5em}%
3412 %

```



```

3413 \ifx\beamer@focus@totalframenum\no%
3414 \settowidth{\focus@pbar@rightoffset}{}%
3415 \addtolength{\focus@pbar@rightoffset}{0.5em}%
3416 \else%
3417 \settowidth{\focus@pbar@rightoffset}{\inserttotalframenum}%
3418 \addtolength{\focus@pbar@rightoffset}{1.5em}%
3419 \fi%
3420 %
3421 % If not title page.
3422 \ifnum\value{realframenum}>0%
3423 \ifnum\value{framenum}<\inserttotalframenum%
3424 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footli
3425 \pgfmathsetmacro{\focus@pbar@progress}%
3426 {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inse
3427
3428 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3429 \if@RTLmain
3430 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoff
3431 \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3432 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3433 \else
3434 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\fo
3435 \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pb
3436 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3437 \fi
3438 \ifx\beamer@focus@totalframenum\no%
3439 \else%
3440 \if@RTLmain
3441 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\t
3442 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=e
3443 \else
3444 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rig
3445 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=w
3446 \fi
3447 \fi%
3448 \end{tikzpicture}%
3449 \else%
3450 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3451 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3452 \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height
3453 \if@RTLmain
3454 \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\
3455 \else
3456 \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightof
3457 \fi
3458 \ifx\beamer@focus@totalframenum\no%
3459 \else%
3460 \if@RTLmain
3461 \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pba
3462 \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0
3463 \else
3464 \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.
3465 \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3466 \fi

```



```

3467             \fi%
3468         \end{tikzpicture}%
3469     \fi%
3470 \fi%
3471 \fi%
3472 }
3473
3474

```

34 File beamerouterthemeinfolines-xetex-bidi.def

```

3475 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3476 \bidi@csundef{beamer@tmpop@footline@infolines theme}
3477
3478 \defbeamertemplate*{footline}{infolines theme}
3479 {%
3480     \leavevmode%
3481     \hbox{%
3482         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3483         \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3484         \end{beamercolorbox}%
3485         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3486         \usebeamerfont{title in head/foot}\insertshorttitle
3487         \end{beamercolorbox}%
3488         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3489         \hfill%
3490         \usebeamerfont{date in head/foot}%
3491         \insertshortdate{}}%
3492         \hfill%
3493         \bgroup
3494         \usebeamercolor[fg]{page number in head/foot}%
3495         \usebeamerfont{page number in head/foot}%
3496         \usebeamertemplate{page number in head/foot}%
3497         \egroup
3498         \end{beamercolorbox}}}%
3499     \vskip0pt%
3500 }
3501
3502 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3503
3504 \defbeamertemplate*{headline}{infolines theme}
3505 {%
3506     \leavevmode%
3507     \hbox{%
3508         \if@RTL
3509         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3510         \else
3511         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3512         \fi
3513         \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3514         \end{beamercolorbox}%
3515         \if@RTL
3516         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3517         \else

```




```

3518 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3519 \fi
3520 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3521 \end{beamercolorbox}}%
3522 \vskip0pt%
3523 }
3524
3525 \bidi@AfterFile{beamerouterthememsplit-xetex-bidi.def}{%
3526 \setbeamertemplate{footline}[infolines theme]%
3527 }
3528

```

35 File beamerouterthememetropolis-xetex-bidi.def

```

3529 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3530 \setbeamertemplate{progress bar in head/foot}{
3531 \nointerlineskip
3532 \setlength{\metropolis@progressinheadfoot}{%
3533 \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}%
3534 }%
3535 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3536 \begin{tikzpicture}
3537 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3538 \if@RTLmain
3539 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3540 \else
3541 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3542 \fi
3543 \end{tikzpicture}%
3544 \end{beamercolorbox}
3545 }
3546
3547 \AtBeginDocument{%
3548 \setbeamertemplate{frametitle}[plain]%
3549 }
3550
3551

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3552 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3553 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3554
3555 \defbeamertemplate*{headline}{miniframes theme}
3556 {%
3557 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3558 \end{beamercolorbox}
3559 \begin{beamercolorbox}{section in head/foot}
3560 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3561 \end{beamercolorbox}%
3562 \ifbeamer@theme@subsection%
3563 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3564 \end{beamercolorbox}
3565 \if@RTL

```



```

3566 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3567 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3568 \else
3569 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3570 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3571 \fi
3572 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3573 \end{beamercolorbox}%
3574 \fi%
3575 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3576 \end{beamercolorbox}
3577 }
3578
3579

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3580 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3581 \bidi@csundef{beamer@tmpop@frametitle@sidebar theme}
3582
3583 \bidi@csundef{beamer@tmpop@headline@sidebar theme}
3584
3585 \bidi@csundef{beamer@tmpop@sidebar left@sidebar theme}
3586
3587 \bidi@csundef{beamer@tmpop@sidebar right@sidebar theme}
3588
3589 \ifdim\beamer@headheight>0pt
3590
3591 \defbeamertemplate*{frametitle}{sidebar theme}
3592 {%
3593 \nointerlineskip%
3594 \ifbeamer@plainframe%
3595 \hbox{\usebeamercolor[bg]{frametitle}%
3596 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3597 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\beam
3598 \nointerlineskip%
3599 \fi%
3600 \vskip-\beamer@headheight%
3601 \vbox to \beamer@headheight{%
3602 \vfil
3603 \bidi@beamer@leftskip=-\beamer@leftmargin%
3604 \advance\bidi@beamer@leftskip by0.3cm%
3605 \bidi@beamer@rightskip=-\beamer@rightmargin%
3606 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3607 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3608 \ifx\insertframesubtitle\@empty\else%
3609 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
3610 \fi%
3611 \vbox{}%
3612 \vskip-1em%
3613 \vfil
3614 }%
3615 }
3616

```



```

3617 \AtBeginDocument{%
3618   \setbeamertemplate{frametitle}[sidebar theme]%
3619 }
3620
3621 \defbeamertemplate*{headline}{sidebar theme}
3622 {%
3623   \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3624     \ifx\beamer@sidebarside\beamer@lefttext%
3625       \else%
3626         \hfill%
3627       \fi%
3628     \ifdim\beamer@sidebarwidth>0pt%
3629       \bgroup
3630       \usebeamercolor[bg]{logo}%
3631       \if@RTLmain
3632       \else
3633         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3634         \hskip-\beamer@sidebarwidth%
3635       \fi
3636       \hbox to \beamer@sidebarwidth{\hss\vbox to
3637         \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3638       \if@RTLmain
3639         \hskip-\beamer@sidebarwidth%
3640         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3641       \fi
3642       \egroup
3643     \else%
3644       \vrule width0pt height \beamer@headheight%
3645     \fi%
3646   \end{beamercolorbox}
3647 }
3648 \fi
3649
3650 \def\beamer@sidebarformat#1#2#3{%
3651 \if@RTL
3652   \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#
3653 \else
3654   \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#
3655 \fi
3656   \vbox{%
3657     #3\par%
3658   \vbox{%
3659     \vskip-1.5ex%
3660   \end{beamercolorbox}
3661 }
3662
3663 \ifdim\beamer@sidebarwidth>0pt
3664
3665 \AtBeginDocument{%
3666   \setbeamerzsize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3667 }
3668
3669 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3670 {

```



```

3671 \beamer@tempdim=\beamer@sidebarwidth%
3672 \advance\beamer@tempdim by -6pt%
3673 {\usebeamerfont{title in sidebar}%
3674 \vskip1.5em%
3675 \hskip3pt%
3676 \bgroup
3677 \usebeamercolor[fg]{title in sidebar}%
3678 \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3679 \vskip1.25em%
3680 }%
3681 {%
3682 \hskip3pt%
3683 \bgroup
3684 \usebeamercolor[fg]{author in sidebar}%
3685 \usebeamerfont{author in sidebar}%
3686 \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3687 \vskip1.25em%
3688 }%
3689 \insertverticalnavigation{\beamer@sidebarwidth}%
3690 \vfill
3691 \ifx\beamer@sidebarside\beamer@lefttext%
3692 \else%
3693 \usebeamercolor{normal text}%
3694 \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3695 \vskip2pt%
3696 \fi%
3697 }%
3698 \fi
3699

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3700 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3701 \bidi@csundef{beamer@tmpop@footline@split theme}
3702
3703 \defbeamertemplate*{footline}{split theme}
3704 {%
3705 \leavevmode%
3706 \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3707 \else
3708 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3709 \fi
3710 \usebeamerfont{author in head/foot}\insertshortauthor
3711 \end{beamercolorbox}%
3712 \if@RTL
3713 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3714 \else
3715 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3716 \fi
3717 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3718 \end{beamercolorbox}}%
3719 \vskip0pt%
3720 }
3721

```



39 File beamerouterthemeshadow-xetex-bidi.def

```

3723 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3724 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3725   color(0pt)=(frametitle right.bg);
3726   color(\paperwidth)=(frametitle.bg)
3727 }
3728
3729 \newcommand*{\bidi@beamer@frametitlesshade}{%
3730   \if@RTLmain
3731     \pgfuses shading{bidi@beamer@RTL@frametitlesshade}%
3732   \else
3733     \pgfuses shading{beamer@frametitlesshade}%
3734   \fi
3735 }
3736
3737 \bidi@csundef{beamer@tmpop@frametitle@shadow theme}
3738
3739 \defbeamer template*{frametitle}{shadow theme}
3740 {%
3741   \nointerlineskip%
3742   \vskip-2pt%
3743   \hbox{\leavevmode
3744     \advance\beamer@leftmargin by -12bp%
3745     \advance\beamer@rightmargin by -12bp%
3746     \beamer@tempdim=\textwidth%
3747     \advance\beamer@tempdim by \beamer@leftmargin%
3748     \advance\beamer@tempdim by \beamer@rightmargin%
3749     \hskip-\Gm@lmargin\hbox{%
3750       \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3751         \vbox{\vskip-.75ex%
3752           \bidi@beamer@leftskip0.3cm%
3753           \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3754           \bgroup\usebeamer color{fg}{frametitle}\usebeamer font{frametitle}\strut\insertframe
3755           \ifx\insertframesubtitle@empty\else%
3756             {\usebeamer font*{framesubtitle}\usebeamer color{fg}{framesubtitle}\insertframesu
3757           \fi%
3758           \nointerlineskip
3759           \vbox{}}%
3760         \end{minipage}}%
3761       \beamer@tempdim=\ht\beamer@tempbox%
3762       \advance\beamer@tempdim by 2pt%
3763       \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3764         \begin{pgfscope}
3765           \pgfsetfillcolor{black}%
3766           \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3767           \pgfsetfading{beamer@topshadowmask}{}%
3768           \pgfusepath{fill}%
3769         \end{pgfscope}
3770         \begin{pgfscope}
3771           \usebeamer color{frametitle right}%
3772           \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%

```



```

3773         \pgfusepath{clip}%
3774         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3775         \end{pgfscope}
3776         \end{pgfpicture}
3777         \hskip-\paperwidth%
3778         \box\beamer@tempbox%
3779     }%
3780     \hskip-\Gm@rmargin%
3781 }%
3782 \vskip-2pt
3783 }
3784
3785 \AtBeginDocument{%
3786     \setbeamertemplate{frametitle}[shadow theme]%
3787 }
3788
3789

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3790 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3791 \bidi@csundef{beamer@@tmpop@headline@smoothbars theme}
3792
3793 \bidi@csundef{beamer@@tmpop@frametitle@smoothbars theme}
3794
3795 \defbeamertemplate*{headline}{smoothbars theme}
3796 {%
3797     \pgfuses shading{beamer@barshade}%
3798     \vskip-0.05ex%
3799     \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3800     \begin{pgfpicture}
3801         \begin{pgfscope}%
3802             \ifbeamer@sb@subsection%
3803                 \pgfsetfillcolor{subsection in head/foot.bg}%
3804             \else%
3805                 \pgfsetfillcolor{section in head/foot.bg}%
3806             \fi%
3807             \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3808             \pgfsetfading{beamer@belowframetitlemask}{}%
3809             \pgfusepath{fill}%
3810         \end{pgfscope}%
3811     \end{pgfpicture}%
3812     \end{beamer colorbox}%
3813     \ifbeamer@sb@subsection%
3814         \vskip-9.75ex%
3815     \else%
3816         \vskip-6.85ex%
3817     \fi%
3818     \begin{beamer colorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3819         \insertnavigation{\paperwidth}
3820     \end{beamer colorbox}%
3821     \ifbeamer@sb@subsection%
3822     \if@RTL
3823         \begin{beamer colorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%

```



```

3824     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3825   \else
3826     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3827       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3828     \fi
3829     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3830   \end{beamercolorbox}%
3831 \fi%
3832 }%
3833
3834 \defbeamertemplate*{frametitle}{smoothbars theme}
3835 {%
3836   \nointerlineskip%
3837   \vskip-0.19ex%
3838   \usebeamerfont{headline}%
3839   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3840     \pgfuses shading{beamer@aboveframetitle}%
3841   \end{beamercolorbox}%
3842   \vskip-1ex%
3843   \nointerlineskip%
3844   \if@RTL
3845     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3846   \else
3847     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3848   \fi
3849     \vskip0.5ex%
3850     \usebeamerfont*{frametitle}\strut\insertframetitle%
3851     \ifx\insertframesubtitle\@empty%
3852       \strut\par%
3853     \else
3854       \par{\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\strut\insertf
3855     \fi%%
3856     \usebeamerfont{headline}%
3857     \vskip0.05ex%
3858   \end{beamercolorbox}%
3859   \nointerlineskip%
3860   \vskip-0.05ex%
3861   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3862   \begin{pgfpicture}
3863     \begin{pgfscope}%
3864       \pgfsetfillcolor{frametitle.bg}%
3865       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3866       \pgfsetfading{beamer@belowframetitlemask}{}%
3867       \pgfusepath{fill}%
3868     \end{pgfscope}%
3869   \end{pgfpicture}%
3870   \end{beamercolorbox}%
3871 }
3872
3873 \AtBeginDocument{%
3874   \setbeamertemplate{frametitle}[smoothbars theme]%
3875 }
3876
3877

```



41 File beamerouterthemesmoothtree-xetex-bidi.def

```
3878 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3879 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3880
3881 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3882
3883 \defbeamertertemplate*{headline}{smoothtree theme}
3884 {%
3885   \pgfuses shading{beamer@treeshade}%
3886   \vskip-0.05ex%
3887   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3888   \begin{pgf picture}
3889     \begin{pgf scope}%
3890       \pgfset fillcolor{subsection in head/foot.bg}%
3891       \pgfpath rectangle{\pgf point{-0.5\paperwidth}{-0.5ex}}{\pgf point{\paperwidth}{1ex}}%
3892       \pgfset fading{beamer@belowframetitlemask}%
3893       \pgfuse path{fill}%
3894     \end{pgf scope}%
3895   \end{pgf picture}%
3896   \end{beamer colorbox}%
3897   \vskip-9.15ex%
3898   \if@RTL
3899     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3900       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3901     \else
3902     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3903       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3904     \fi
3905     \usebeamer font{title in head/foot}\insertshorttitle
3906   \end{beamer colorbox}
3907   \if@RTL
3908     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3909       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3910     \else
3911     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3912       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3913     \fi
3914     \usebeamer font{section in head/foot}%
3915     \hskip6pt\insertsectionhead
3916   \end{beamer colorbox}
3917   \if@RTL
3918     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3919       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3920     \else
3921     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3922       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3923     \fi
3924     \usebeamer font{subsection in head/foot}%
3925     \hskip12pt\insertsubsectionhead
3926   \end{beamer colorbox}
3927   \vskip-0.4ex%
3928 }
3929
```




```

3930 \defbeamertemplate*{frametitle}{smoothtree theme}
3931 {%
3932   \nointerlineskip%
3933   \vskip-0.05ex%
3934   \usebeamerfont{headline}%
3935   \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3936     \pgfuses shading{beamer@aboveframetitle}%
3937   \end{beamercolorbox}
3938   \nointerlineskip%
3939   \if@RTL
3940     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3941   \else
3942     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3943   \fi
3944     \vskip-1.2ex%
3945     \usebeamerfont*{frametitle}\strut\insertframetitle%
3946     \ifx\insertframesubtitle\@empty%
3947       \strut\par%
3948     \else
3949       \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3950     \fi%%
3951     \usebeamerfont{headline}%
3952   \end{beamercolorbox}%
3953   \nointerlineskip
3954   \vskip-0.2ex%
3955   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3956   \begin{pgfpicture}
3957     \begin{pgfscope}%
3958       \pgfsetfillcolor{frametitle.bg}%
3959       \pgfpathrectangle{\pgfpoint{- .5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3960       \pgfsetfading{beamer@belowframetitlemask}{}%
3961       \pgfusepath{fill}%
3962     \end{pgfscope}%
3963   \end{pgfpicture}%
3964   \end{beamercolorbox}%
3965 }
3966
3967
3968 \AtBeginDocument{%
3969   \setbeamertemplate{frametitle}[smoothtree theme]%
3970 }
3971
3972

```

42 File beamerouterthemetree-xetex-bidi.def

```

3973 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3974 \bidi@csundef{beamer@tmpop@headline@tree theme}
3975
3976 \defbeamertemplate*{headline}{tree theme}
3977 {%
3978   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3979   \end{beamercolorbox}
3980   \if@RTL

```



```

3981 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3982 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3983 \else
3984 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3985 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3986 \fi
3987 \usebeamerfont{title in head/foot}\insertshorttitle
3988 \end{beamercolorbox}
3989 \if@RTL
3990 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3991 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3992 \else
3993 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3994 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3995 \fi
3996 \usebeamerfont{section in head/foot}%
3997 \ifbeamer@tree@showhooks
3998 \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
3999 \ifdim\wd\beamer@tempbox>1pt%
4000 \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.
4001 \hskip1pt%
4002 \fi%
4003 \else%
4004 \hskip6pt%
4005 \fi%
4006 \insertsectionhead
4007 \end{beamercolorbox}
4008 \if@RTL
4009 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4010 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4011 \else
4012 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4013 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4014 \fi
4015 \usebeamerfont{subsection in head/foot}%
4016 \ifbeamer@tree@showhooks
4017 \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4018 \ifdim\wd\beamer@tempbox>1pt%
4019 \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height
4020 \hskip1pt%
4021 \fi%
4022 \else%
4023 \hskip12pt%
4024 \fi%
4025 \insertsubsectionhead
4026 \end{beamercolorbox}
4027 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4028 \end{beamercolorbox}
4029 }
4030
4031

```

43 File beamerthemeHannover-xetex-bidi.def



```

4032 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4033 \AtBeginDocument{%
4034   \if@RTLmain
4035     \setbeamertemplate{frametitle}[default][left]%
4036   \else
4037     \setbeamertemplate{frametitle}[default][right]%
4038   \fi
4039 }
4040
4041

```

44 File beamerthemeSingapore-xetex-bidi.def

```

4042 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4043 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%
4044
4045 \beamertemplatedotitem
4046
4047 \AtBeginDocument{%
4048   \setbeamertemplate{frametitle}[default][center]%
4049 }
4050
4051

```

45 File bidi.sty

```

4052 \NeedsTeXFormat{LaTeX2e}
4053 \def\bididate{2025/09/12}
4054 \def\bidi@version{25.09.12}
4055 \def\bidi@releasename{Iran}
4056 \newcommand*{\bidi@releasename}{\bidi@releasename}
4057 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space]
4058 Bidirectional typesetting in plain TeX and LaTeX
4059 \newif\if@bidi@banner
4060 \newif\if@bidi@pdfbanner
4061 \newif\iffootdir@debug
4062 \newif\if@extrafootnote@features
4063 \newif\if@nonlatin
4064 \newif\if@bidi@pdfm@mark
4065 \newif\if@bidi@perpage@footnote
4066 \ExplSyntaxOn
4067 \msg_new:nnn {bidi} {cannot-use-engine}
4068 {
4069   Oops!~can-not-use~\c_sys_engine_str.\\
4070   The~bidi~package~requires~XeTeX.
4071 }
4072 \sys_if_engine_xetex:F
4073 {
4074   \msg_fatal:nn {bidi} {cannot-use-engine}
4075 }
4076
4077 \keys_define:nn { bidi }
4078 {
4079   banner .choice: ,

```



```

4080     banner / on .code:n = \@bidi@bannertrue ,
4081     banner / off .code:n = \@bidi@bannerfalse ,
4082     banner .default:n = on
4083 }
4084 \keys_define:nn { bidi }
4085 {
4086     PDFbanner .choice: ,
4087     PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4088     PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4089     PDFbanner .default:n = on
4090 }
4091 \keys_define:nn { bidi }
4092 {
4093     RTLdocument .choice: ,
4094     RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4095     RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4096     RTLdocument .default:n = on
4097 }
4098 \keys_define:nn { bidi }
4099 {
4100     rldocument .choice: ,
4101     rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4102     rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4103     rldocument .default:n = on
4104 }
4105 \keys_define:nn { bidi }
4106 {
4107     documentdirection .choice: ,
4108     documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4109     documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4110 }
4111 \keys_define:nn { bidi }
4112 {
4113     tabledirection .choice: ,
4114     tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4115     tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4116 }
4117 \keys_define:nn { bidi }
4118 {
4119     footnotedirection .choice: ,
4120     footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4121     footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4122 }
4123 \keys_define:nn { bidi }
4124 {
4125     debugfootnotedirection .choice: ,
4126     debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4127     debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4128     debugfootnotedirection .default:n = on
4129 }
4130 \keys_define:nn { bidi }
4131 {
4132     footnoterule .choice: ,
4133     footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,

```



```

4134 footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4135 footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4136 footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4137 footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4138 }
4139 \keys_define:nn { bidi }
4140 {
4141   extrafootnotefeatures .choice: ,
4142   extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4143   extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4144   extrafootnotefeatures .default:n = on
4145 }
4146 \keys_define:nn { bidi }
4147 {
4148   script .choice: ,
4149   script / latin .code:n = \@nonlatinfalse ,
4150   script / nonlatin .code:n = \@nonlatintrue ,
4151   script .default:n = latin
4152 }
4153 \keys_define:nn { bidi }
4154 {
4155   DetectColumn .choice: ,
4156   DetectColumn / on .code:n =
4157     \def\bidi@firstcolumn@status@write{%
4158       \protected@write\@auxout{%
4159         {\string\bidi@column@status
4160           {1}}}}
4161     \def\bidi@lastcolumn@status@write{%
4162       \protected@write\@auxout{%
4163         {\string\bidi@column@status{2}}}} ,
4164   DetectColumn / off .code:n =
4165     \let\bidi@firstcolumn@status@write\relax
4166     \let\bidi@lastcolumn@status@write\relax ,
4167   DetectColumn .default:n = on
4168 }
4169 \keys_define:nn { bidi }
4170 {
4171   logo .choice: ,
4172   logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo@}} ,
4173   logo / off .code:n = \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty ,
4174   logo .default:n = on
4175 }
4176 \keys_define:nn { bidi }
4177 {
4178   pdfinfo .choice: ,
4179   pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4180   pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4181   pdfinfo .default:n = on
4182 }
4183 % The `perpagefootnote' option is documented in UK TeX FAQ at
4184 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4185 \keys_define:nn { bidi }
4186 {
4187   perpagefootnote .choice: ,

```



```

4188     perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4189     perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4190     perpagefootnote .default:n = on
4191 }
4192 \keys_set:nn { bidi }
4193 {
4194     banner = on ,
4195     PDFbanner = on ,
4196     DetectColumn = off
4197 }
4198 }
4199 \ExplSyntaxOff
4200 \ProcessKeyOptions
4201 \edef\@bidi@info{*****~J%
4202 * ~J%
4203 * bidi package (Bidirectional typesetting with~J%
4204 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4205 * ~J%
4206 * Description: A convenient interface for~J%
4207 * typesetting bidirectional texts in plain TeX~J%
4208 * and LaTeX. The package includes adaptations~J%
4209 * for use with many other commonly-used packages.~J%
4210 * ~J%
4211 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4212 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4213 * ~J%
4214 * v\bidi@version\space (Release \bidi@releasename), \bididate~J%
4215 * ~J%
4216 * License: LaTeX Project Public License, version~J%
4217 * 1.3c or higher (your choice)~J%
4218 * ~J%
4219 * Location on CTAN: /macros/unicodetex/generic/bidi~J%
4220 * ~J%
4221 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4222 * ~J%
4223 * Primary author of bidi package: Vafa Khalighi.~J%
4224 * ~J%
4225 *****}
4226 \edef\bidi@everyjob{\the\everyjob}
4227 \if@bidi@banner
4228   \typeout{\@bidi@info}
4229   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4230 \fi
4231 \newcommand*{\bidiversion}{\ensuremath\bidi@version}
4232 \RequirePackage{biditools}
4233 \RequirePackage{zref-abspage}
4234 \RequirePackage{auxhook}
4235 \RequirePackage{ltxcmds}
4236 \eqnewif{\if@RTLmain}{\if@rlmain}
4237 \eqnewif{\if@RTL}{\if@rl}
4238 \newcommand*{\setlatin}{\@nonlatinfalse}
4239 \newcommand*{\setnonlatin}{\@nonlatintrue}
4240 \eqnewif{\if@RTLtab}{\if@tab@rl}
4241 \newif\if@hboxRconstruct

```



```

4242 \newif\if@bidi@pdfencrypt
4243 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4244 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4245 \newif\if@RTLmarginpar
4246 \newif\if@LTRmarginpar
4247 \newif\if@LTRbibitems
4248 \newif\if@RTLbibitems
4249 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4250 \newif\if@bidi@list@minipage@parbox
4251 \newif\if@bidi@list@minipage@parbox@not@nob
4252 \newcommand*{\@bidi@pdfcreator}{%
4253   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4254 }
4255 \newcommand*{\@bidi@pdfproducer}{%
4256   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4257 }
4258 \newcommand*{\@bidi@pdfcustomproperties}{%
4259   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4260   Released September 12, 2025.
4261 }
4262 \newcommand*{\@bidi@beamer@ragged}{%
4263   \@RTLmainfalse
4264   \AtBeginDocument{%
4265     \if@RTLmain\else
4266       \if@RTL\@RTLmaintrue%
4267       \else\@RTLmainfalse%
4268       \fi%
4269     \fi%
4270 }
4271 \let\n@xt=\
4272 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4273 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4274 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4275 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4276 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4277   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4278 \newinsert\@bidi@copyins@
4279 \skip\@bidi@copyins@=12\p@
4280 \dimen\@bidi@copyins@=40pc
4281 \count\@bidi@copyins@=1000
4282 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4283 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4284   \if@RTLmain
4285     \if@twocolumn
4286       \hboxR to \columnwidth
4287     \else
4288       \hboxR to \textwidth
4289     \fi
4290   \else
4291     \if@twocolumn
4292       \hboxL to \columnwidth
4293     \else
4294       \hboxL to \textwidth
4295     \fi

```



```

4296 \fi
4297 }
4298 \newcommand*{\@bidi@logo}[1]{%
4299 \toks@{%
4300 \setbox\z@\hbox{%
4301 \special{%
4302 pdf:image width 50pt height 50pt (#1)%
4303 }
4304 }%
4305 \dp\z@\z@
4306 \ht\z@=50pt
4307 \wd\z@=50pt
4308 \beginL
4309 \lower20pt\box\z@
4310 \endL
4311 }%
4312 \the\toks@
4313 }
4314 \newcount\bidi@typesethour
4315 \newcount\bidi@typesetminute
4316 \bidi@typesethour=\time
4317 \divide\bidi@typesethour 60
4318 \bidi@typesetminute=-\bidi@typesethour
4319 \multiply\bidi@typesetminute 60
4320 \advance\bidi@typesetminute \time
4321 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4322 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4323 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4324 \newcommand*{\@bidi@logo@}{%
4325 \@bidi@logo@hb@xt@columnwidth
4326 {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4327 package\quad\@bidi@logo{bidi-logo.pdf}}}}
4328 \ExplSyntaxOn
4329 \keys_define:nn { bidi / pdfencrypt }
4330 {
4331 userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4332 userpassword .default:n =
4333 }
4334 \keys_define:nn { bidi / pdfencrypt }
4335 {
4336 ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4337 ownerpassword .default:n =
4338 }
4339 \keys_define:nn { bidi / pdfencrypt }
4340 {
4341 keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4342 keylength .default:n = 128
4343 }
4344 \keys_define:nn { bidi / pdfencrypt }
4345 {
4346 permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4347 permissionflags .default:n = 2052
4348 }
4349 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }

```




```

4350 \ExplSyntaxOff
4351 \@onlypreamble\pdfencryptsetup
4352 \input{latex-xetex-bidi.def}
4353
4354 \pdfencryptsetup{%
4355   userpassword,%
4356   ownerpassword,%
4357   keylength,%
4358   permissionflags%
4359 }
4360
4361 \if@extrafootnotefeatures
4362 \input{extrafootnotefeatures-xetex-bidi.def}
4363 \fi
4364 \newcount\bididigits
4365 \XeTeXinterchartokenstate=\@ne
4366 \newXeTeXintercharclass\bididigits@charclass
4367 \newXeTeXintercharclass\bidisepmark@charclass
4368 \XeTeXcharclass`\.\bidisepmark@charclass
4369 \XeTeXcharclass`\- \bidisepmark@charclass
4370 \bididigits=\@0 \loop \XeTeXcharclass \bididigits \bididigits@charclass \ifnum\bididigit
4371 \bididigits=\` \loop \XeTeXcharclass \bididigits \bididigits@charclass \ifnum\bididigit
4372 \bididigits=\` \loop \XeTeXcharclass \bididigits \bididigits@charclass \ifnum\bididigit
4373 \XeTeXinterchartoks \bidisepmark@charclass \bididigits@charclass = {\DigitsDotDashInterCh
4374 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4375 \bididigits@AtEndPreamble{%
4376   \if@bidi@perpage@footnote
4377     \RequirePackage{bidi-perpage}%
4378     \ResetCounterPerPage{footnote}%
4379   \fi
4380   \ifx\bidid@pdfencrypt@ownerpassword\bidid@empty
4381     \ifx\bidid@pdfencrypt@userpassword\bidid@empty
4382       \bidid@pdfencryptfalse
4383     \else
4384       \bidid@pdfencrypttrue
4385     \fi
4386   \else
4387     \bidid@pdfencrypttrue
4388   \fi
4389   \if@bidi@pdfencrypt
4390     \special{pdf:encrypt
4391       userpw (\bidid@pdfencrypt@userpassword)
4392       ownerpw (\bidid@pdfencrypt@ownerpassword)
4393       length \bidid@pdfencrypt@keylength
4394       perm \bidid@pdfencrypt@permissionflags
4395     }%
4396   \fi
4397 }
4398 \if@bidi@pdfbanner
4399 \if@bidi@pdfm@mark
4400 \AtEndDocument{%
4401 \special{pdf:%
4402 docinfo<<%
4403 /Creator(\@bidi@pdfcreator)%

```



```

4404         /Producer(\@bidi@pdfproducer)%
4405         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4406         \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4407             /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4408         }{}%
4409         >>%
4410     }%
4411 }
4412 \else
4413     \AtEndDocument{%
4414         \special{pdf:%
4415             docinfo<<%
4416                 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4417                 \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4418                     /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4419                 }{}%
4420             >>%
4421         }%
4422     }
4423 \fi
4424 \else
4425     \if@bidi@pdfm@mark
4426         \AtEndDocument{%
4427             \special{pdf:%
4428                 docinfo<<%
4429                     /Creator(\@bidi@pdfcreator)%
4430                     /Producer(\@bidi@pdfproducer)%
4431                 >>%
4432             }%
4433         }
4434 \fi
4435 \fi

```

46 File bidi.tex

```

4436 \def\bididate{2025/09/12}
4437 \catcode`\@=11
4438 \def\bidi@version{25.09.12}
4439 \def\bidi@releasename{Iran}
4440 \def\bidireleasename{\bidi@releasename}
4441 \let \protect \relax
4442 \newlinechar`\^^J
4443 \edef\@bidi@info{*****~J%
4444 * ~J%
4445 * bidi package (Bidirectional typesetting with~J%
4446 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4447 * ~J%
4448 * Description: A convenient interface for~J%
4449 * typesetting bidirectional texts in plain TeX~J%
4450 * and LaTeX. The package includes adaptations~J%
4451 * for use with many other commonly-used packages.~J%
4452 * ~J%
4453 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4454 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%

```



```

4455 * ^^J%
4456 * v\bid@version\space (Release \bid@releasename), \bid@date^^J%
4457 * ^^J%
4458 * License: LaTeX Project Public License, version^^J%
4459 * 1.3c or higher (your choice)^^J%
4460 * ^^J%
4461 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4462 * ^^J%
4463 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4464 * ^^J%
4465 * Primary author of bidi package: Vafa Khalighi.^^J%
4466 * ^^J%
4467 *****}
4468 \edef\bid@everyjob{\the\everyjob}
4469 \message{\@bid@info}
4470 \everyjob{\bid@everyjob\message{\@bid@info}}
4471 \def\bid@version{%
4472   \relax
4473   \ifmmode
4474     \bid@version
4475   \else
4476     $\bid@version$
4477   \fi
4478 }
4479 \input iftex.sty
4480 \RequireXeTeX
4481 \newif\if@bid@pdfm@mark
4482 \newif\if@RTLmain
4483 \newif\if@RTL
4484 \newif\if@hboxRconstruct
4485 \newif\if@sentedir
4486 \newif\if@RTL@footnote
4487 \@RTLmainfalse
4488 \def\setRTLmain{%
4489   \if@RTLmain\else
4490     \if@RTL\@RTLmaintrue%
4491     \else\@RTLmainfalse%
4492     \fi%
4493   \fi%
4494 }
4495 \let\n@xt=\
4496 \protected\def\LRE{\protect\pLRE}%
4497 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4498 \protected\def\RLE{\protect\pRLE}
4499 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4500 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4501   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4502 \newinsert\@bid@copyins@
4503 \skip\@bid@copyins@=12\p@
4504 \dimen\@bid@copyins@=40pc
4505 \count\@bid@copyins@=1000
4506 \def\@bid@inslogo@{\insert\@bid@copyins@{\@bid@logo@}}
4507 \def\@bid@logo@hb@xt@{%
4508   \if@RTLmain

```



```

4509 \hboxR to
4510 \else
4511 \hboxL to
4512 \fi
4513 }
4514 \def\@bidi@logo#1{%
4515 \toks@{%
4516 \setbox\z@\hbox{%
4517 \special{%
4518 pdf:image width 50pt height 50pt (#1)%
4519 }
4520 }%
4521 \dp\z@\z@
4522 \ht\z@=50pt
4523 \wd\z@=50pt
4524 \beginL
4525 \lower20pt\box\z@
4526 \endL
4527 }%
4528 \the\toks@
4529 }
4530 \def\today{\ifcase\month\or
4531 January\or February\or March\or April\or May\or June\or
4532 July\or August\or September\or October\or November\or December\fi
4533 \space\number\day, \number\year}
4534 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4535 \newcount\@bidi@typesethour
4536 \newcount\@bidi@typesetminute
4537 \@bidi@typesethour=\time
4538 \divide\@bidi@typesethour 60
4539 \@bidi@typesetminute=-\@bidi@typesethour
4540 \multiply\@bidi@typesetminute 60
4541 \advance\@bidi@typesetminute \time
4542 \def\TypesetHour{\two@digits\@bidi@typesethour}
4543 \def\TypesetMinute{\two@digits\@bidi@typesetminute}
4544 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4545 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4546 \def\bidilogo{\@bidi@inslogo@}
4547 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4548 \def\@bidi@pdfcreator{%
4549 The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \bididate
4550 }
4551 \def\@bidi@pdfproducer{%
4552 The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \bididate
4553 }
4554 \def\@bidi@pdfcustomproperties{%
4555 This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4556 Released September 12, 2025.
4557 }
4558 \def\@bidi@pdfm@mark{%
4559 \special{pdf:%
4560 docinfo<<%
4561 \if\@bidi@pdfm@mark
4562 /Creator(\@bidi@pdfcreator)%

```



```

4563      /Producer(\@bidi@pdfproducer)%
4564      \fi
4565      /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4566      >>%
4567      }%
4568 }
4569 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4570 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4571 \input plain-xetex-bidi.def
4572 \outer\def\bye{\@bidi@pdfm@mark\par\vfill\supereject\end}
4573 \catcode\@=12
4574 \bidipdfinfoon

```

47 File bidi2in1.sty

```

4575 \NeedsTeXFormat{LaTeX2e}
4576 \ProvidesPackage{bidi2in1}
4577 \pagestyle{plain}
4578 \newcount\evenpage
4579 \newcount\oddpager
4580 \twocolumn
4581 \def\@oddfoot{\evenpage=\thepage%
4582 \multiply\evenpage by 2%
4583 \oddpager=\thevenpage%
4584 \advance\oddpager by -1%
4585 \hfil\thevenpage\hfil\hfil\thoddpager\hfil}%
4586 \def\@evenfoot{\evenpage=\thepage%
4587 \multiply\evenpage by 2%
4588 \oddpager=\thevenpage%
4589 \advance\oddpager by -1%
4590 \hfil\thoddpager\hfil\hfil\thevenpage\hfil}%
4591 \textwidth 9.49in
4592 \textheight 6.7in
4593 \columnsep 0.9in
4594 \columnseprule 0.125pt
4595 \headheight 0cm
4596 \topmargin 0in
4597 \marginparwidth 0in
4598 \marginparsep 0in
4599 \hoffset 0.05in % Corrected
4600 \voffset -0.5in %top margin space is 1.0in by default
4601 \oddsidemargin 0in
4602 \evensidemargin 0in
4603 \headsep 0cm
4604 \topskip 0cm
4605 \parskip 0.15in %
4606 \headsep 0pt
4607 \special{papersize=11.69in,8.26in}
4608 \renewcommand\maketitle{\par
4609 \begingroup
4610 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4611 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4612 \long\def\@makefntext##1{\parindent 1em\noindent
4613 \hb@xt@1.8em{\%

```



```

4614 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4615 \@maketitle
4616 \@thanks
4617 \endgroup
4618 \setcounter{footnote}{0}%
4619 \global\let\thanks\relax
4620 \global\let\maketitle\relax
4621 \global\let\@maketitle\relax
4622 \global\let\@thanks\@empty
4623 \global\let\@author\@empty
4624 \global\let\@date\@empty
4625 \global\let\@title\@empty
4626 \global\let\title\relax
4627 \global\let\author\relax
4628 \global\let\date\relax
4629 \global\let\and\relax
4630 }

```

48 File bidicode.sty

```

4631 \NeedsTeXFormat{LaTeX2e}
4632 \ProvidesPackage{bidicode}
4633 \RequirePackage{xcolor}
4634 \RequirePackage{showexpl}
4635 \definecolor{hellgelb}{rgb}{1,1,0.85}
4636 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4637 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4638 \definecolor{colIdentifier}{rgb}{0,0,0}
4639 \definecolor{colComments}{rgb}{1,0,0}
4640 \definecolor{colString}{rgb}{0,0.5,0}
4641 \lstset{%
4642     language=[LaTeX]TeX,%
4643     float=hbp,%
4644     basicstyle=\ttfamily\small,%
4645     identifierstyle=\color{colIdentifier},%
4646     keywordstyle=\color{colKeys},%
4647     texcsstyle=\color{colCS},%
4648     stringstyle=\color{colString},%
4649     commentstyle=\color{colComments},%
4650     backgroundcolor=\color{hellgelb},%
4651     columns=flexible,%
4652     tabsize=4,%
4653     extendedchars=true,%
4654     showspaces=false,%
4655     showstringspaces=false,%
4656     numbers=left,%
4657     numbersep=0.9em,%
4658     numberstyle=\tiny,%
4659     frame=single,%
4660     captionpos=b,%
4661     xleftmargin=1em,%
4662     breaklines=true,%
4663     breakautoindent=false,%
4664     breakindent=0pt,%

```



```

4665     escapeinside=**,%
4666     pos=r,%
4667     explpreset={%
4668         xleftmargin=1em,%
4669         columns=flexible,%
4670         language=[LaTeX]TeX%
4671     },%
4672     moretexcs={%
4673         bididate,%
4674         bidiversion,%
4675         deflatinfont,%
4676         defpersianfont,%
4677         ding,%
4678         endLTR,%
4679         endRTL,%
4680         false,%
4681         falsesymbol,%
4682         junicode,%
4683         lr,%
4684         LR,%
4685         LRE,%
4686         LTR,%
4687         maketitle,%
4688         Nastaliq,%
4689         newfontfamily,%
4690         Parsifont,%
4691         part,%
4692         RL,%
4693         RLE,%
4694         RTL,%
4695         RTLcases,%
4696         SepMark,%
4697         setLR,%
4698         setLTR,%
4699         setRL,%
4700         setRTL,%
4701         settextfont,%
4702         subsection,%
4703         subsubsection,%
4704         tableofcontents,%
4705         text,%
4706         theequation,%
4707         thesection,%
4708         true,%
4709         truesymbol,%
4710         XePersian,%
4711         xepersiandate,%
4712         xepersianversion%
4713     },%
4714 }
4715 \newcommand\HLON{%
4716     \gdef\lst@alloverstyle##1{%
4717         \fboxrule=0pt
4718         \fboxsep=0pt

```



```

4719 \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4720 }}
4721 \newcommand\HLOFF{%
4722 \xdef\lst@alloverstyle##1{##1}%
4723 }
4724 \newcommand\Larg [1]{\normalfont\itshape#1\/\}}
4725 \newcommand\Larga[1]{\langle$\Larg{#1}$\rangle$}
4726 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4727 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4728 \newcommand\Largr[1]{\lr b\Larg{#1}\rrb}
4729 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}
4730 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}}
4731
4732 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4733 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4734 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`{}}
4735 \DeclareRobustCommand\lsb{\normalfont\ttfamily{}}
4736 \DeclareRobustCommand\rsb{\normalfont\ttfamily{}}
4737 \DeclareRobustCommand\lr b{\normalfont\ttfamily{}}
4738 \DeclareRobustCommand\rrb{\normalfont\ttfamily{}}
4739
4740 \def\Lcs#1{\nxLcs{#1}}
4741 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4742 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4743
4744 \def\Coordx#1{$x_{#1}$}
4745 \def\Coordy#1{$y_{#1}$}
4746 \def\Coordz#1{$z_{#1}$}
4747 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4748 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4749 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4750 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4751 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4752 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4753 \def\coordin{(\Coordx{n},\kern 1pt\Coordy{n})}
4754 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4755 \def\coordx#1{($x_{#1}$)}
4756 \def\coordy#1{($y_{#1}$)}
4757 \def\coordz#1{($z_{#1}$)}
4758 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4759 \def\ciiiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4760
4761 \newsavebox{\boxdef}
4762 \newenvironment{BDef}
4763 {\begin{lrbox}\boxdef
4764 \def\arraystretch{1.0}
4765 \begin{tabular}{@{}l@{}l@{}l@{}}
4766 }
4767 {\end{tabular}\end{lrbox}}
4768
4769 {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4770 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4771 }
4772

```




```

4773 \newenvironment{BDef*}
4774   {\begin{lrbox}\boxdef
4775     \def\arraystretch{1.0}
4776     \begin{tabular}{@{}l@{}l@{}l@{}}
4777   }
4778   {\end{tabular}\end{lrbox}
4779   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
4780   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4781 }
4782 \newenvironment{BCmd*}{
4783   \@beginparpenalty-\@lowpenalty
4784   \topsep\BDefaboveskip
4785   \fboxsep3pt
4786   \flushleft}
4787 {\@endparpenalty\@M
4788  \topsepadd\BDefbelowskip
4789  \endflushleft}
4790
4791 \newenvironment{BCmd*}{
4792   \@beginparpenalty\@M
4793   \topsep\BDefinlineskip
4794   \fboxsep3pt
4795   \flushleft}
4796 {\@endparpenalty5000
4797  \endflushleft}
4798
4799 \newskip\BDefaboveskip
4800 \newskip\BDefbelowskip
4801 \newskip\BDefinlineskip
4802 \setlength\BDefaboveskip{10pt plus 4pt}
4803 \setlength\BDefbelowskip{6pt}
4804 \setlength\BDefinlineskip{6pt}
4805
4806 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}}\kern1pt}
4807 \def\OptArg{\@ifnextchar*\OptArgi{\OptArgii*}}
4808 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}}\kern1pt}
4809 \def\OptArgii*#1{\colorbox{black!20}{\texttt{[#1]}}}\kern1pt}

```

49 File bidiftnxtra.sty

```

4810 \NeedsTeXFormat{LaTeX2e}
4811 \ProvidesPackage{bidiftnxtra}
4812 \newtoks\bidip@ftn
4813 \let\FN@sffootnote\footnote
4814 \let\FN@sff@LTRfootnote\LTRfootnote
4815 \let\FN@sff@RTLfootnote\RTLfootnote
4816 \def\footnote{\ifx\protect\@typeset@protect
4817   \expandafter\FN@sffootnote
4818   \else
4819     \expandafter\FN@sff@gobble@opt
4820   \fi
4821 }
4822 \def\LTRfootnote{\ifx\protect\@typeset@protect
4823   \expandafter\FN@sff@LTRfootnote

```



```

4824 \else
4825 \expandafter\FN@sfgobble@opt
4826 \fi
4827 }
4828 \def\RTLfootnote{\ifx\protect\@typeset@protect
4829 \expandafter\FN@sfgobble@RTLfootnote
4830 \else
4831 \expandafter\FN@sfgobble@opt
4832 \fi
4833 }
4834 \edef\FN@sfgobble@opt{\noexpand\protect
4835 \expandafter\noexpand\csname FN@sfgobble@opt \endcsname}
4836 \expandafter\def\csname FN@sfgobble@opt \endcsname{%
4837 \@ifnextchar[%]
4838 \FN@sfgobble@twobrace
4839 \@gobble
4840 }
4841 \def\FN@sfgobble@twobrace[#1]#2{}
4842 \let\FN@sfgobble@footnotemark\footnotemark
4843 \def\footnotemark{\ifx\protect\@typeset@protect
4844 \expandafter\FN@sfgobble@footnotemark
4845 \else
4846 \expandafter\FN@sfgobble@optonly
4847 \fi
4848 }
4849 \edef\FN@sfgobble@optonly{\noexpand\protect
4850 \expandafter\noexpand\csname FN@sfgobble@optonly \endcsname}
4851 \expandafter\def\csname FN@sfgobble@optonly \endcsname{%
4852 \@ifnextchar[%]
4853 \FN@sfgobble@brace
4854 }%
4855 }
4856 \def\FN@sfgobble@brace[#1]{}
4857 \def\@tabular{%
4858 \leavevmode \hbox \bgroup
4859 \let\@footnotetext\@bidi@p@ftntext
4860 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4861 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4862 \let\@xfootnotenext\@bidi@p@xftntext
4863 \let\@xfootnote\@bidi@p@xfootnote
4864 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4865 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4866 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4867 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4868 \if@RTLtab\beginR \fi
4869 $\let\@acol\@tabacol
4870 \let\@classz\@tabclassz
4871 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4872 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
4873 \egroup $\if@RTLtab\endR\fi\egroup
4874 \ifx\@captive\@undefined
4875 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
4876 \long\def\@bidi@p@ftntext#1{%
4877 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%

```



```

4878 \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4879 \long\def\bidip@LTRftntext#1{%
4880 \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4881 \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4882 \long\def\bidip@RTLftntext#1{%
4883 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4884 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4885
4886
4887 \long\def\bidip@xftntext[#1]#2{%
4888 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4889
4890 \long\def\bidip@xLTRftntext[#1]#2{%
4891 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4892
4893 \long\def\bidip@xRTLftntext[#1]#2{%
4894 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4895
4896
4897 \def\bidip@xfootnote[#1]{%
4898 \begingroup
4899 \csname c@\mpfn\endcsname #1\relax
4900 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4901 \endgroup
4902 \@footnotemark\bidip@xftntext[#1]}
4903
4904
4905 \def\bidip@xLTRfootnote[#1]{%
4906 \begingroup
4907 \csname c@\mpfn\endcsname #1\relax
4908 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4909 \endgroup
4910 \@footnotemark\bidip@xLTRftntext[#1]}
4911
4912
4913 \def\bidip@xRTLfootnote[#1]{%
4914 \begingroup
4915 \csname c@\mpfn\endcsname #1\relax
4916 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4917 \endgroup
4918 \@footnotemark\bidip@xRTLftntext[#1]}
4919
4920 \def\@xfloat #1[#2]{%
4921 \@nodocument
4922 \def \@cuptype {#1}%
4923 \def \@fps {#2}%
4924 \@onelevel@sanitize \@fps
4925 \def \reserved@b {!}%
4926 \ifx \reserved@b \@fps
4927 \@fpsadddefault
4928 \else
4929 \ifx \@fps \@empty
4930 \@fpsadddefault
4931 \fi

```



```

4932 \fi
4933 \ifhmode
4934 \@bsphack
4935 \@floatpenalty -\@Mii
4936 \else
4937 \@floatpenalty-\@Miii
4938 \fi
4939 \ifinner
4940 \@parmoderr\@floatpenalty\z@
4941 \else
4942 \@next\@currbox\@freelist
4943 {%
4944 \@tempcnta \sixt@n
4945 \expandafter \@tfor \expandafter \reserved@a
4946 \expandafter :\expandafter =\@fps
4947 \do
4948 {%
4949 \if \reserved@a h%
4950 \ifodd \@tempcnta
4951 \else
4952 \advance \@tempcnta \@ne
4953 \fi
4954 \fi
4955 \if \reserved@a t%
4956 \setfpsbit \tw@
4957 \fi
4958 \if \reserved@a b%
4959 \setfpsbit 4%
4960 \fi
4961 \if \reserved@a p%
4962 \setfpsbit 8%
4963 \fi
4964 \if \reserved@a !%
4965 \ifnum \@tempcnta>15
4966 \advance\@tempcnta -\sixt@n\relax
4967 \fi
4968 \fi
4969 }%
4970 \@tempcntb \csname ftype@\@capttype \endcsname
4971 \multiply \@tempcntb \@xxxii
4972 \advance \@tempcnta \@tempcntb
4973 \global \count\@currbox \@tempcnta
4974 }%
4975 \@fltovf
4976 \fi
4977 \global \setbox\@currbox
4978 \color@vbox
4979 \normalcolor
4980 \vbox \bgroup
4981 \let\@footnotetext\@bidi@p@fnttext
4982 \let\@LTRfootnotetext\@bidi@p@LTRfnttext
4983 \let\@RTLfootnotetext\@bidi@p@RTLfnttext
4984 \let\@xfootnotenext\@bidi@p@xftntext
4985 \let\@xfootnote\@bidi@p@xfootnote

```



```

4986      \let\@xLTRfootnotenext\bidip@xLTRftntext
4987      \let\@xLTRfootnote\bidip@xLTRfootnote
4988      \let\@xRTLfootnotenext\bidip@xRTLftntext
4989      \let\@xRTLfootnote\bidip@xRTLfootnote
4990      \hsize\columnwidth
4991      \@parboxrestore
4992      \@floatboxreset
4993 }
4994 \def \@endfloatbox{%
4995     \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
4996     \@minipagefalse
4997     \outer@nobreak
4998     \egroup                %% end of vbox
4999     \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn
5000     \color@endbox
5001 }

```

50 File bidimoderncv.cls

```

5002 \NeedsTeXFormat{LaTeX2e}
5003 \ProvidesClass{bidimoderncv}
5004 \newif\if@DEBUG\@DEBUGfalse
5005 \DeclareOption{a4paper}{
5006     \setlength\paperheight{297mm}
5007     \setlength\paperwidth{210mm}}
5008 \DeclareOption{a5paper}{
5009     \setlength\paperheight{210mm}
5010     \setlength\paperwidth{148mm}}
5011 \DeclareOption{b5paper}{
5012     \setlength\paperheight{250mm}
5013     \setlength\paperwidth{176mm}}
5014 \DeclareOption{letterpaper}{
5015     \setlength\paperheight{11in}
5016     \setlength\paperwidth{8.5in}}
5017 \DeclareOption{legalpaper}{
5018     \setlength\paperheight{14in}
5019     \setlength\paperwidth{8.5in}}
5020 \DeclareOption{executivepaper}{
5021     \setlength\paperheight{10.5in}
5022     \setlength\paperwidth{7.25in}}
5023 \DeclareOption{landscape}{
5024     \setlength\@tempdima{\paperheight}
5025     \setlength\paperheight{\paperwidth}
5026     \setlength\paperwidth{\@tempdima}}
5027 \newcommand\@ptsize{}
5028 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5029 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5030 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5031 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5032 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5033 \newif\if@colour\@colourtrue
5034 \DeclareOption{nocolour}{\@colourfalse}
5035 \ExecuteOptions{a4paper,11pt,colour,final}
5036 \ProcessOptions\relax

```



```

5037 \input{size1\@ptsize.clo}
5038 \RequirePackage{color}
5039 \RequirePackage{graphicx}
5040 \RequirePackage{ifthen}
5041 \RequirePackage{marvosym}
5042 \addtolength{\oddsidemargin}{-54pt}
5043 \addtolength{\textwidth}{109pt}
5044 \addtolength{\topmargin}{-70pt}
5045 \addtolength{\textheight}{122pt}
5046 \addtolength{\marginparsep}{-5pt}
5047 \addtolength{\marginparwidth}{-10pt}
5048 \RequirePackage{url}
5049 \RequirePackage{hyperref}
5050 \hypersetup{%
5051   breaklinks,
5052   baseurl      = http://,%
5053   pdfborder    = 0 0 0,%
5054   pdfpagemode  = UseNone,%
5055   pdfstartpage = 1}
5056 \AtEndOfClass{%
5057   \AtBeginDocument{%
5058     \hypersetup{%
5059       pdfauthor      = \@firstname~\@familyname,%
5060       pdftitle       = \@title,%
5061       pdfsubject     = \@firstname~\@familyname,%
5062       pdfkeywords    = \@resumename~\@firstname~\@familyname}}}
5063 \urlstyle{tt}
5064 \RequirePackage{fancyhdr}
5065 \fancypagestyle{plain}{%
5066   \renewcommand{\headrulewidth}{0pt}
5067   \renewcommand{\footrulewidth}{0pt}
5068   \fancyhf{}}
5069 \pagestyle{plain}
5070 \setlength\lineskip{1\p@}
5071 \setlength\normallineskip{1\p@}
5072 \renewcommand\baselinestretch{}
5073 \setlength{\parindent}{0pt}
5074 \setlength{\parskip}{0pt}
5075 \setlength\columnsep{10\p@}
5076 \setlength\columnseprule{0\p@}
5077 \pagestyle{empty}
5078 \pagenumbering{arabic}
5079 \raggedbottom
5080 \onecolumn
5081 \providecommand*\listitemsymbol{\textbullet}
5082 \providecommand*\addresssymbol{}
5083 \providecommand*\mobilesymbol{\Mobilefone}
5084 \providecommand*\phonesymbol{\Telefon}
5085 \providecommand*\faxsymbol{\FAX}
5086 \providecommand*\emailsymbol{\Letter}
5087 \definecolor{firstnamecolor}{rgb}{0,0,0}
5088 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5089 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
5090 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}

```



```

5091 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5092 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5093 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5094 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5095 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5096 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5097 \providecommand*\{ \firstnamefont }{}
5098 \providecommand*\{ \familynamefont }{}
5099 \providecommand*\{ \titlefont }{}
5100 \providecommand*\{ \addressfont }{}
5101 \providecommand*\{ \quote font }{}
5102 \providecommand*\{ \sectionfont }{}
5103 \providecommand*\{ \subsectionfont }{}
5104 \providecommand*\{ \hintfont }{\small}
5105 \providecommand*\{ \firstnamestyle }[1]{\{ \firstnamefont \@firstnamecolour#1 }
5106 \providecommand*\{ \familynamestyle }[1]{\{ \familynamefont \@familynamecolour#1 }
5107 \providecommand*\{ \titlestyle }[1]{\{ \titlefont \@titlecolour#1 }
5108 \providecommand*\{ \addresstyle }[1]{\{ \addressfont \@addresscolour#1 }
5109 \providecommand*\{ \quotestyle }[1]{\{ \quote font \@quotecolour#1 }
5110 \providecommand*\{ \sectionstyle }[1]{\{ \sectionfont \@sectiontitlecolour#1 }
5111 \providecommand*\{ \subsectionstyle }[1]{\{ \subsectionfont \@subsectioncolour#1 }
5112 \providecommand*\{ \hintstyle }[1]{\{ \hintfont \@hintcolour#1 }
5113 \newcommand*\{ \cvtheme }[2] [] {
5114   \def\@cvtheme{#2}
5115   \def\@cvthemeoptions{#1}
5116   \cvtheme{bidi-casual}
5117 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5118 \newcommand*\{ \resumename }[1]{\def\@resumename{#1}}
5119 \newcommand*\{ \firstname }[1]{\def\@firstname{#1}}
5120 \newcommand*\{ \familyname }[1]{\def\@familyname{#1}}
5121 \renewcommand*\{ \title }[1]{\def\@title{#1}}
5122 \newcommand*\{ \address }[1]{\def\@address{#1}}
5123 \newcommand*\{ \mobile }[1]{\def\@mobile{#1}}
5124 \newcommand*\{ \phone }[1]{\def\@phone{#1}}
5125 \renewcommand*\{ \fax }[1]{\def\@fax{#1}}
5126 \newcommand*\{ \email }[1]{\def\@email{#1}}
5127 \newcommand*\{ \extrainfo }[1]{\def\@extrainfo{#1}}
5128 \def\@photowidth{0pt}
5129 \newcommand*\{ \photo }[2] [64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5130 \newcommand*\{ \quote }[1]{\def\@quote{#1}}
5131 \newlength{\quotewidth}
5132 \newlength{\hintscolumnwidth}
5133 \newlength{\separatorcolumnwidth}
5134 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5135 \newlength{\maincolumnwidth}
5136 \newlength{\doubleitemmaincolumnwidth}
5137 \newlength{\listitemsymbolwidth}
5138 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}
5139 \newlength{\listitemmaincolumnwidth}
5140 \newlength{\listdoubleitemmaincolumnwidth}
5141 \newcommand*\{ \recomputethemelengths }{}
5142 \newcommand*\{ \recomputelengths }{%
5143 \setlength{\quotewidth}{0.65\textwidth}%
5144 \setlength{\maincolumnwidth}{\textwidth}%

```



```

5145 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5146 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5147 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5148 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5149 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5150 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5151 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5152 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5153 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5154 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5155 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5156 \renewcommand{\headwidth}{\textwidth}%
5157 \recomputethemelengths}
5158 \setlength{\hintscolumnwidth}{0.15\textwidth}
5159 \recomputelengths
5160 \title{}
5161 \renewcommand*{\maketitle}{}
5162 \newcommand*{\section}[1]{%
5163 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5164 \phantomsection}%
5165 \addcontentsline{toc}{part}{#1}%
5166 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5167 \hspace{\separatorcolumnwidth}%
5168 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\!ex}}
5169 \newcommand*{\subsection}[1]{%
5170 \cvline[0.45em]{\subsectionstyle{#1}}%
5171 \newcommand*{\cvline}[3][.25em]{%
5172 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5173 \bidi@raggedleft\hintfont{#2} &{#3}%
5174 \end{tabular}\[\!#1}}
5175 \newcommand*{\cvdoubleitem}[4]{%
5176 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5177 \hfill%
5178 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5179 \newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
5180 \cvline[Opt]{\#1~\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}%
5181 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
5182 \cvline[Opt]{\#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5183 \hfill%
5184 \ifthenelse{\equal{#3}{}}%
5185 {}%
5186 {\#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}%
5187 \newcommand*{\cventry}[6]{%
5188 \cvline{#1}{%
5189 {\bfseries#2}%
5190 \ifx#3\else{, {\slshape#3}}\fi%
5191 \ifx#4\else{, #4}\fi%
5192 \ifx#5\else{, #5}\fi%
5193 .%
5194 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}\fi
5195 }%
5196 \newcommand*{\cvlanguage}[3]{%
5197 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin
5198 \newcommand*{\cvcomputer}[4]{%

```




```

5199 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5200 \newcommand*{\link}[2][{}]{%
5201 \ifthenelse{\equal{#1}{}}{%
5202 {\href{#2}{#2}}%
5203 {\href{#2}{#1}}}
5204 \newcommand*{\httplink}[2][{}]{%
5205 \ifthenelse{\equal{#1}{}}{%
5206 {\href{http://#2}{#2}}%
5207 {\href{http://#2}{#1}}}
5208 \newcommand*{\emailink}[2][{}]{%
5209 \ifthenelse{\equal{#1}{}}{%
5210 {\href{mailto:#2}{#2}}%
5211 {\href{mailto:#2}{#1}}}
5212 \newif\if@displaypagenumbers\@displaypagenumberstrue
5213 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5214 \AtBeginDocument{%
5215 \if@displaypagenumbers%
5216 \ifundefined{r@lastpage}{\fi%
5217 \ifthenelse{\pageref{lastpage} > 1}{%
5218 \fancypagestyle{plain}{%
5219 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pag
5220 \pagestyle{plain}}}{\fi}%
5221 \AtEndDocument{\label{lastpage}}%
5222 \fi}
5223 \newlength{\bibindent}
5224 \setlength{\bibindent}{1.5em}
5225 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5226 \newenvironment{thebibliography}[1]{%
5227 {%
5228 \section{\refname}%
5229 \small%
5230 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5231 \bidi@thebibliography@font@hook%
5232 \begin{list}{\bibliographyitemlabel}%
5233 {%
5234 \setlength{\topsep}{0pt}%
5235 \setlength{\labelwidth}{\hintscolumnwidth}%
5236 \setlength{\labelsep}{\separatorcolumnwidth}%
5237 \leftmargin\labelwidth%
5238 \advance\leftmargin\labelsep%
5239 \@openbib@code%
5240 \usecounter{enumiv}%
5241 \let\p@enumiv\@empty%
5242 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5243 \sloppy\clubpenalty4000\widowpenalty4000%
5244 }%
5245 {%
5246 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5247 \end{list}%
5248 }
5249 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5250 \let\@openbib@code\@empty

```



51 File bidi-perpage.sty

```

5251 \NeedsTeXFormat{LaTeX2e}
5252 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5253 \newcount\bidi@page@count
5254 \bidi@page@count\@ne
5255 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5256   \if@bidi@csundef\bidi@stepcounterhook@#2}{%
5257     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{%
5258     }%
5259   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5260     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5261   }{%
5262   \if@bidi@csundef\bidi@#2@count}{%
5263     \expandafter\newcount\csname bidi@#2@count\endcsname
5264   }{%
5265   \csname bidi@#2@count\endcsname\z@
5266   \if@bidi@csundef\bidi@previous@page@#2@count}{%
5267     \expandafter\newcount\csname
5268     bidi@previous@page@#2@count\endcsname
5269   }{%
5270   \csname bidi@previous@page@#2@count\endcsname\z@
5271   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5272     \bidi@AfterEndDocumentCheckLabelsRerun{%
5273       \csname if@bidi@reset@#2@rerun\endcsname
5274       \PackageWarningNoLine{bidi-perpage}{%
5275         Counter `#2' may not have been reset per page.
5276         Rerun to reset counter `#2' per page%
5277       }%
5278     }%
5279   }%
5280 }{%
5281 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5282   \global\advance\csname bidi@#2@count\endcsname\@ne
5283   \if@filesw
5284     \edef\@tempa{%
5285       \write\@auxout{%
5286         \string\bidi@counter@page{#2}%
5287         {\number\csname bidi@#2@count\endcsname}%
5288         {\noexpand\number\noexpand\bidi@page@count}%
5289       }%
5290     }%
5291     \@tempa
5292   \fi
5293   \begingroup\expandafter\expandafter\expandafter\endgroup
5294   \expandafter\ifx\csname bidi@#2@@\number\csname
5295   bidi@#2@count\endcsname\endcsname\relax
5296     \global\csname @bidi@reset@#2@reruntrue\endcsname
5297   \else
5298     \global\csname @bidi@reset@#2@rerunfalse\endcsname
5299     \expandafter\@tempcnta\csname bidi@#2@@\number
5300     \csname bidi@#2@count\endcsname\endcsname\relax
5301     \ifnum\@tempcnta=\csname
5302     bidi@previous@page@#2@count\endcsname

```



```

5303 \else
5304 \global\csname
5305 bidi@previous@page@@#2@count\endcsname\@tempcnta
5306 \global\csname c@#2\endcsname#1\relax
5307 \fi
5308 \fi
5309 }%
5310 \expandafter\bidi@gappto\csname
5311 bidi@stepcounterhook@@#2\endcsname{%
5312 \csname bidi@reset@#2@perpage\endcsname
5313 }%
5314 }
5315 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@@#2}{#3}}
5316 \bidi@AtEndOutputPage{%
5317 \global\advance\bidi@page@count\@ne
5318 }

```

52 File biditools.sty

```

5319 \NeedsTeXFormat{LaTeX2e}
5320 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5321 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5322 \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5323 \ifx\@tempa\@tempb \global\let#2#1%
5324 \else
5325 \edef\@tempb{\meaning#2}%
5326 \ifx\@tempa\@tempb
5327 \else
5328 \latex@error{Unable to properly define \string#2; primitive
5329 \noexpand#1no longer primitive}\@eha
5330 \fi
5331 \fi
5332 \endgroup}
5333 \newtoks\@bidi@envbody
5334 \newtoks\@bidi@emptytoks
5335 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5336 \def\bidi@collect@body#1{%
5337 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5338 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5339 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5340 \begingroup
5341 \expandafter\let\csname\@currentvir\endcsname\bidi@collect@@body
5342 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5343 \bidi@process@envbody
5344 }
5345 \def\bidi@push@begins#1\begin#2{%
5346 \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5347 }
5348 \def\bidi@collect@@body#1\end#2{%
5349 \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack
5350 \ifx\@empty\begin@bidi@stack
5351 \endgroup
5352 \checkend{#2}%
5353 \bidi@addto@envbody{#1}%

```



```

5354 \else
5355 \bidi@addto@envbody{#1\end{#2}}%
5356 \fi
5357 \bidi@process@envbody % A little tricky! Note the grouping
5358 }
5359 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5360 \long\def\bidi@collect@long@body#1{%
5361 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5362 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5363 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5364 \begingroup
5365 \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
5366 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5367 \bidi@process@envbody
5368 }
5369 \long\def\bidi@push@long@begins#1\begin#2{%
5370 \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5371 }
5372 \long\def\bidi@collect@long@@body#1\end#2{%
5373 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5374 \ifx\@empty\begin@bidi@stack
5375 \endgroup
5376 \@checkend{#2}%
5377 \bidi@addto@long@envbody{#1}%
5378 \else
5379 \bidi@addto@long@envbody{#1\end{#2}}%
5380 \fi
5381 \bidi@process@envbody % A little tricky! Note the grouping
5382 }
5383 \long\def\bidi@new@ifnextchar#1#2#3{%
5384 \let\reserved@d= #1%
5385 \def\reserved@a{#2}\def\reserved@b{#3}%
5386 \futurelet\@let@token\bidi@new@ifnch
5387 }
5388 \def\bidi@new@ifnch{%
5389 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5390 \reserved@b
5391 }
5392 \def\bidi@matrix@check#1{%
5393 \expandafter\ifx\csname\@currentvir\endcsname#1%
5394 \else\bidi@matrix@error#1%
5395 \expandafter\@gobble
5396 \fi
5397 }
5398 \def\bidi@matrix@error#1{%
5399 \PackageError{biditools}{%
5400 Old form ``\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5401 }{%
5402 ``\string#1{...}' is old bidi package syntax whose use is
5403 ill-advised in the old versions of bidi package.%
5404 }%
5405 }
5406 \def\eqnewif#1#2{%
5407 \count@\escapechar \escapechar\m@ne

```



```

5408 \let#1\iffalse
5409 \let#2\iffalse
5410 \eq@if#1#2\iftrue
5411 \eq@if#1#2\iffalse
5412 \escapechar\count@}
5413 \def\eq@if#1#2#3{%
5414 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5415 \expandafter@gobbletwo\string#3\endcsname
5416 {\let#1#3%
5417 \let#2#3}%
5418 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5419 \expandafter@gobbletwo\string#3\endcsname
5420 {\let#2#3%
5421 \let#1#3}}
5422 \def\noteqnewif#1#2{%
5423 \count@\escapechar \escapechar\m@ne
5424 \let#1\iffalse
5425 \let#2\iffalse
5426 \not@eq@if#1#2\iftrue\iffalse
5427 \escapechar\count@}
5428 \def\not@eq@if#1#2#3#4{%
5429 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5430 \expandafter@gobbletwo\string#3\endcsname
5431 {\let#1#3%
5432 \let#2#4}%
5433 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5434 \expandafter@gobbletwo\string#4\endcsname
5435 {\let#1#4%
5436 \let#2#3}%
5437 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5438 \expandafter@gobbletwo\string#3\endcsname
5439 {\let#2#3%
5440 \let#1#4}%
5441 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5442 \expandafter@gobbletwo\string#4\endcsname
5443 {\let#2#4%
5444 \let#1#3}}
5445 \newcommand*\SetBoolean}[2]{%
5446 \lowercase{\def\@tempa{#2}}%
5447 \@ifundefined{\@tempa}{\PackageError{biditytools}%
5448 {You can only set a boolean to `true' or `false'}\@ehc}%
5449 {\@ifundefined{#1\@tempa}%
5450 {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5451 {\csname#1\@tempa\endcsname}}}%
5452 \newcommand*\GlobalSetBoolean}[2]{%
5453 \lowercase{\def\@tempa{#2}}%
5454 \@ifundefined{\@tempa}{\PackageError{biditytools}%
5455 {You can only set a boolean to `true' or `false'}\@ehc}%
5456 {\@ifundefined{#1\@tempa}%
5457 {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5458 {\global\csname#1\@tempa\endcsname}}}%
5459 \newcommand*\SetatBoolean}[2]{%

```



```

5462 \lowercase{\def\@tempa{#2}}%
5463 \@ifundefined{@tempwa\@tempa}%
5464 {\PackageError{biditools}%
5465   {You can only set a boolean to `true' or `false'}\@ehc}%
5466 {\@ifundefined{@#1\@tempa}%
5467   {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5468   {\csname @#1\@tempa\endcsname}}}%
5469 \newcommand*{\GlobalSetatBoolean}[2]{%
5470 \lowercase{\def\@tempa{#2}}%
5471 \@ifundefined{@tempwa\@tempa}%
5472 {\PackageError{biditools}%
5473   {You can only set a boolean to `true' or `false'}\@ehc}%
5474 {\@ifundefined{@#1\@tempa}%
5475   {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5476   {\global\csname @#1\@tempa\endcsname}}}%
5477 \def\@bidi@removefromreset#1#2{%
5478 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5479 \def\@elt##1{%
5480 \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5481 \else
5482 \noexpand\@elt{##1}%
5483 \fi}%
5484 \expandafter\xdef\csname cl@#2\endcsname{%
5485 \csname cl@#2\endcsname}}}%
5486 \newcommand*{\ifRtoL}{%
5487 \if@RTL
5488 \expandafter\@firstoftwo
5489 \else
5490 \expandafter\@secondoftwo
5491 \fi}
5492 \newcommand*{\ifLtoR}{%
5493 \if@RTL
5494 \expandafter\@secondoftwo
5495 \else
5496 \expandafter\@firstoftwo
5497 \fi}
5498 \newcommand*{\ifRtoLtable}{%
5499 \if@RTLtab
5500 \expandafter\@firstoftwo
5501 \else
5502 \expandafter\@secondoftwo
5503 \fi}
5504 \newcommand*{\ifLtoRtable}{%
5505 \if@RTLtab
5506 \expandafter\@secondoftwo
5507 \else
5508 \expandafter\@firstoftwo
5509 \fi}
5510 \newcommand*{\ifRtoLhboxconstruct}{%
5511 \if@hboxRconstruct
5512 \expandafter\@firstoftwo
5513 \else
5514 \expandafter\@secondoftwo
5515 \fi}

```



```

5516 \newcommand*{\ifLtoRhboxconstruct}{%
5517   \if@hboxRconstruct
5518     \expandafter\@secondoftwo
5519   \else
5520     \expandafter\@firstoftwo
5521   \fi}
5522 \newcommand*{\iflatin}{%
5523   \if@nonlatin
5524     \expandafter\@secondoftwo
5525   \else
5526     \expandafter\@firstoftwo
5527   \fi}
5528 \newcommand*{\ifnonlatin}{%
5529   \if@nonlatin
5530     \expandafter\@firstoftwo
5531   \else
5532     \expandafter\@secondoftwo
5533   \fi}
5534
5535 \newcommand*{\bidi@@convert@dimen@t@unit}[2]{%
5536   \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5537
5538 \newcommand*{\bidi@@convert@dimen@t@pt}[1]{%
5539   \dimexpr #1*65536/\dimexpr 1pt\relax}
5540
5541 \newcommand*{\IfPackageVersionAtLeastTF}[1]{%
5542   \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5543 }
5544 \newcommand*{\@if@ver@pkg@least}[2]{%
5545   \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5546     \expandafter\@secondoftwo
5547   \else
5548     \expandafter\@firstoftwo
5549   \fi
5550 }
5551 \newcommand*{\bidi@parse@ver@}[1]{\bidi@parse@ver0#1}
5552 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5553   \if\relax#2\relax\else#1\fi#2#3#4
5554 }
5555 \newcommand*{\IfPackageVersionAtMostTF}[1]{%
5556   \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5557 }
5558 \newcommand*{\@if@ver@pkg@most}[2]{%
5559   \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5560     \expandafter\@secondoftwo
5561   \else
5562     \expandafter\@firstoftwo
5563   \fi
5564 }
5565 \newcommand*{\IfPackageVersionTF}[1]{%
5566   \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5567 }
5568 \newcommand*{\@if@ver@pkg@}[2]{%
5569   \ifnum\expandafter\bidi@parse@ver@#100\@nil=\expandafter\bidi@parse@ver@#200\@nil

```



```

5570 \expandafter\@firstoftwo
5571 \else
5572 \expandafter\@secondoftwo
5573 \fi
5574 }
5575
5576 \newcommand*{\if@bidi@csdef}[1]{%
5577 \ifcsname#1\endcsname
5578 \expandafter\@firstoftwo
5579 \else
5580 \expandafter\@secondoftwo
5581 \fi}
5582 \newcommand*{\if@bidi@csundef}[1]{%
5583 \ifcsname#1\endcsname
5584 \expandafter\ifx\csname#1\endcsname\relax
5585 \expandafter\expandafter
5586 \expandafter\@firstoftwo
5587 \else
5588 \expandafter\expandafter
5589 \expandafter\@secondoftwo
5590 \fi
5591 \else
5592 \expandafter\@firstoftwo
5593 \fi}
5594 \newcommand{\if@bidi@def}[1]{%
5595 \ifdefined#1%
5596 \expandafter\@firstoftwo
5597 \else
5598 \expandafter\@secondoftwo
5599 \fi}
5600 \newcommand{\if@bidi@undef}[1]{%
5601 \ifdefined#1%
5602 \ifx#1\relax
5603 \expandafter\expandafter
5604 \expandafter\@firstoftwo
5605 \else
5606 \expandafter\expandafter
5607 \expandafter\@secondoftwo
5608 \fi
5609 \else
5610 \expandafter\@firstoftwo
5611 \fi}
5612 \newcommand{\if@bidi@blank}[1]{% from url.sty
5613 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5614 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5615 \newcommand{\bidi@notblank}[1]{%
5616 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5617 \newcommand{\if@bidi@defmacro}{}
5618 \long\edef\if@bidi@defmacro#1{%
5619 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5620 \noexpand\meaning#1\detokenize{macro}:&}
5621 \edef\bidi@ifdefmacro{%
5622 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5623 \bidi@ifdefmacro{\bidi@notblank{#2}}

```




```

5624 \newcommand*{\if@bidi@csmacro}[1]{%
5625   \if@bidi@csdef{#1}
5626     {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5627     {\@secondoftwo}}
5628 \newcommand{\if@bidi@defprimitive}[1]{%
5629   \ifprimitive#1%
5630     \expandafter\@firstoftwo
5631   \else
5632     \expandafter\@secondoftwo
5633   \fi}
5634 \newcommand{\if@bidi@csprimitive}[1]{%
5635   \begingroup\expandafter\expandafter\expandafter\endgroup%
5636   \expandafter\ifprimitive\csname#1\endcsname%
5637     \expandafter\@firstoftwo
5638   \else
5639     \expandafter\@secondoftwo
5640   \fi}
5641 \newcommand*{\bidi@csdefcs}[2]{%
5642   \expandafter\@ifdefinable \csname#1\endcsname{%
5643     \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5644 \newcommand*{\bidi@csletcs}[2]{%
5645   \expandafter\@ifdefinable \csname#1\endcsname{%
5646     \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}
5647 \newcommand*{\bidi@cslet}[2]{%
5648   \expandafter\@ifdefinable \csname#1\endcsname{%
5649     \expandafter\let\csname#1\endcsname#2}}
5650 \newcommand{\bidi@namelongdef}[1]{%
5651   \long\expandafter\def\csname #1\endcsname}
5652 \newcommand{\bidi@namelonggdef}[1]{%
5653   \long\expandafter\gdef\csname #1\endcsname}
5654 \newcommand{\bidi@namelongedef}[1]{%
5655   \long\expandafter\edef\csname #1\endcsname}
5656 \newcommand{\bidi@namelongxdef}[1]{%
5657   \long\expandafter\xdef\csname #1\endcsname}
5658 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5659 \def\bidi@ensure@new@command#1{%
5660   \begingroup \escapechar\m@ne\xdef\@gtempa{\{string#1\}}\endgroup
5661   \expandafter\if@bidi@csundef\@gtempa
5662     {\new@command#1}{\relax%
5663   \let\@ifdefinable\@rc@ifdefinable%
5664   \new@command#1}}
5665 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5666
5667 \protected\def\bidi@error{\PackageError{bidi}}
5668 \protected\def\bidi@warning{\PackageWarning{bidi}}
5669 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5670 \protected\def\bidi@info{\PackageInfo{bidi}}
5671
5672 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@#2@#3}{#4}}
5673
5674 \newcount\bidi@poscount
5675
5676 \newcommand*{\WriteStartXPostoaux}{%
5677   \global\advance\bidi@poscount\@ne

```



```

5678 \edef\@tempa{%
5679 \write\@auxout{%
5680 \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5681 }%
5682 }%
5683 \ifvmode
5684 \leavevmode
5685 \fi
5686 \if@RTL
5687 \if@filesw
5688 \@tempa
5689 \fi
5690 \pdfsavepos
5691 \else
5692 \pdfsavepos
5693 \if@filesw
5694 \@tempa
5695 \fi
5696 \fi
5697 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5698 \PackageWarningNoLine{biditools}{%
5699 The start x position `\'number\bidiposcount' is not known yet.
5700 Rerun to get this x position%
5701 }%
5702 }{}%
5703 }
5704
5705 \newcommand*{\WriteEndXPostoaux}{%
5706 \edef\@tempa{%
5707 \write\@auxout{%
5708 \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5709 }%
5710 }%
5711 \if@RTL
5712 \if@filesw
5713 \@tempa
5714 \fi
5715 \pdfsavepos
5716 \else
5717 \pdfsavepos
5718 \if@filesw
5719 \@tempa
5720 \fi
5721 \fi
5722 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5723 \PackageWarningNoLine{biditools}{%
5724 The end x position `\'number\bidiposcount' is not known yet.
5725 Rerun to get this x position%
5726 }%
5727 }{}%
5728 }
5729
5730 \newcommand*{\WriteStartYPostoaux}{%
5731 \global\advance\bidiposcount\@ne

```



```

5732 \edef\@tempa{%
5733 \write\@auxout{%
5734 \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5735 }%
5736 }%
5737 \ifvmode
5738 \leavevmode
5739 \fi
5740 \if@RTL
5741 \if@filesw
5742 \@tempa
5743 \fi
5744 \pdfsavepos
5745 \else
5746 \pdfsavepos
5747 \if@filesw
5748 \@tempa
5749 \fi
5750 \fi
5751 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5752 \PackageWarningNoLine{biditools}{%
5753 The start y position ``\number\bidiposcount' is not known yet.
5754 Rerun to get this y position%
5755 }%
5756 }{}%
5757 }
5758
5759 \newcommand*\WriteEndYPostoaux{%
5760 \edef\@tempa{%
5761 \write\@auxout{%
5762 \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5763 }%
5764 }%
5765 \if@RTL
5766 \if@filesw
5767 \@tempa
5768 \fi
5769 \pdfsavepos
5770 \else
5771 \pdfsavepos
5772 \if@filesw
5773 \@tempa
5774 \fi
5775 \fi
5776 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5777 \PackageWarningNoLine{biditools}{%
5778 The end y position ``\number\bidiposcount' is not known yet.
5779 Rerun to get this y position%
5780 }%
5781 }{}%
5782 }
5783
5784 \newcommand*\WriteStartXYPostoaux{%
5785 \global\advance\bidiposcount\@ne

```



```

5786 \edef\@tempa{%
5787 \write\@auxout{%
5788 \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5789 }%
5790 \write\@auxout{%
5791 \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5792 }%
5793 }%
5794 \ifvmode
5795 \leavevmode
5796 \fi
5797 \if@RTL
5798 \if@filesw
5799 \@tempa
5800 \fi
5801 \pdfsavepos
5802 \else
5803 \pdfsavepos
5804 \if@filesw
5805 \@tempa
5806 \fi
5807 \fi
5808 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5809 \PackageWarningNoLine{biditytools}{%
5810 The start x position ``\number\bidiposcount' is not known yet.
5811 Rerun to get this x position%
5812 }%
5813 }{}%
5814 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5815 \PackageWarningNoLine{biditytools}{%
5816 The start y position ``\number\bidiposcount' is not known yet.
5817 Rerun to get this y position%
5818 }%
5819 }{}%
5820 }
5821
5822 \newcommand*\WriteEndXYPostoaux{%
5823 \edef\@tempa{%
5824 \write\@auxout{%
5825 \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5826 }%
5827 \write\@auxout{%
5828 \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5829 }%
5830 }%
5831 \if@RTL
5832 \if@filesw
5833 \@tempa
5834 \fi
5835 \pdfsavepos
5836 \else
5837 \pdfsavepos
5838 \if@filesw
5839 \@tempa

```



```

5840 \fi
5841 \fi
5842 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5843     \PackageWarningNoLine{biditools}{%
5844         The end x position ` \number\bidi@poscount' is not known yet.
5845         Rerun to get this x position%
5846     }%
5847 }{}%
5848 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5849     \PackageWarningNoLine{biditools}{%
5850         The end y position ` \number\bidi@poscount' is not known yet.
5851         Rerun to get this y position%
5852     }%
5853 }{}%
5854 }
5855
5856 \newcommand*{\currentposxwidth}{%
5857     \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{\z@}
5858     {%
5859         \ifnum\csname bidi@xpos@@start@\number\bidi@poscount
5860             \endcsname < \csname bidi@xpos@@end@\number\bidi@poscount
5861             \endcsname
5862             \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
5863             \endcsname sp - \csname bidi@xpos@@start@\number\bidi@poscount
5864             \endcsname sp\relax
5865         \else
5866             \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5867             \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5868             \endcsname sp\relax
5869         \fi
5870     }%
5871 }
5872
5873 \newcommand*{\currentposyheight}{%
5874     \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5875     {%
5876         \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5877             \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5878             \endcsname sp\relax
5879     }%
5880 }
5881
5882
5883
5884 \newcommand*{\setbaselineskip}[1]{%
5885     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5886     \selectfont
5887 }
5888
5889
5890 \newcommand*{\bidi@newrobustcmd}{}
5891 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5892
5893 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}

```



```

5894
5895 \def\bidinewcommand#1[#2]{%
5896   \@ifnextchar[%
5897     {\bidixargdef#1[#2]}
5898     {\ifx\l@ngrel@x\relax
5899       \let\l@ngrel@x\protected
5900       \else
5901         \protected\def\l@ngrel@x{\protected\long}%
5902       \fi
5903       \@argdef#1[#2]}}
5904
5905 \long\def\bidixargdef#1[#2][#3]#4{%
5906   \@ifdefinable#1{%
5907     \expandafter\protected
5908     \expandafter\def
5909     \expandafter#1%
5910     \expandafter{%
5911       \expandafter\@testopt
5912       \csname\string#1\endcsname{#3}}%
5913     \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}
5914
5915 \bidinewrobustcmd*{\bidirenewrobustcmd}{\@star@or@long\bidirenew@command}
5916
5917 \def\bidirenew@command#1{%
5918   \if@bidi@undef{#1}
5919     {\bidierror{\string#1 undefined}\@ehc}
5920     {}%
5921   \let\@ifdefinable\@rc@ifdefinable
5922   \bidinew@command#1}
5923
5924
5925
5926 \bidinewrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidiprove@command}
5927
5928 \def\bidiprove@command#1{%
5929   \if@bidi@undef{#1}
5930     {\def\reserved@a{\bidinew@command#1}}
5931     {\def\reserved@a{\bidirenew@command\reserved@a}}%
5932   \reserved@a}
5933
5934 \newcommand*{\bidicsuse}[1]{%
5935   \ifcsname#1\endcsname
5936     \csname#1\expandafter\endcsname
5937   \fi}
5938
5939 \newcommand{\bidiexpandonce}[1]{%
5940   \unexpanded\expandafter{#1}}
5941
5942 \def\bidiprotected{%
5943   \let\@@protect\protect
5944   \let\protect\@unexpandable@protect
5945   \afterassignment\restore@protect}
5946
5947 \bidinewrobustcmd{\bidi@appto}[2]{%

```



```

5948 \if@bidi@undef{#1}
5949   {\edef#1{\unexpanded{#2}}}
5950   {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5951 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5952   \if@bidi@undef{#1}
5953     {\edef#1{#2}}
5954     {\edef#1{\bidi@expandonce#1#2}}}
5955 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5956   \if@bidi@undef{#1}
5957     {\xdef#1{\unexpanded{#2}}}
5958     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5959 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5960   \if@bidi@undef{#1}
5961     {\xdef#1{#2}}
5962     {\xdef#1{\bidi@expandonce#1#2}}}
5963
5964 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5965 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5966
5967
5968
5969 \bidi@newrobustcmd{\bidi@preto}[2]{%
5970   \if@bidi@undef{#1}
5971     {\edef#1{\unexpanded{#2}}}
5972     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5973 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5974   \if@bidi@undef{#1}
5975     {\edef#1{#2}}
5976     {\edef#1{#2\bidi@expandonce#1}}}
5977 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5978   \if@bidi@undef{#1}
5979     {\xdef#1{\unexpanded{#2}}}
5980     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5981 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5982   \if@bidi@undef{#1}
5983     {\xdef#1{#2}}
5984     {\xdef#1{#2\bidi@expandonce#1}}}
5985
5986 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5987 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5988
5989
5990
5991 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5992 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5993 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5994 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5995 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5996 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5997
5998
5999
6000 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6001 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}

```



```

6002 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
6003 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6004 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6005 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6006
6007
6008
6009 \bidi@newrobustcmd{\if@bidi@patchable}{%
6010   \bidi@dbg@trce\if@bidi@patchable
6011   \begingroup
6012   \@makeother\%
6013   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
6014
6015 \long\def\bidi@ifpatchable#1#2{%
6016   \endgroup
6017   \bidi@dbg@init#1%
6018   \if@bidi@undef{#1}
6019     {\bidi@dbg@fail{def}\@secondoftwo}
6020     {\bidi@dbg@info{def}%
6021       \if@bidi@defmacro{#1}
6022         {\bidi@dbg@info{mac}%
6023           \bidi@ifscanable{#1}
6024             {\bidi@ifhashcheck{#2}
6025               {\bidi@dbg@info{tok}%
6026                 \bidi@ifpattern#1{#2}
6027                   {\bidi@dbg@info{pat}%
6028                     \bidi@dbg@info{pos}\@firstoftwo}
6029                     {\bidi@dbg@fail{pat}\@secondoftwo}}
6030                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6031                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6032                   {\bidi@dbg@fail{mac}\@secondoftwo}}}
6033
6034 \long\def\bidi@ifpatchable@i#1{%
6035   \endgroup
6036   \bidi@dbg@init#1%
6037   \if@bidi@undef{#1}
6038     {\bidi@dbg@fail{def}\@secondoftwo}
6039     {\bidi@dbg@info{def}%
6040       \if@bidi@defmacro{#1}
6041         {\bidi@dbg@info{mac}%
6042           \if@bidi@defparam{#1}
6043             {\bidi@dbg@info{prm}%
6044               \bidi@ifscanable{#1}
6045                 {\bidi@dbg@info{tok}%
6046                   \bidi@dbg@info{pos}\@firstoftwo}
6047                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6048                 {\bidi@dbg@info{prl}%
6049                   \if@bidi@defprotected{#1}
6050                     {\bidi@dbg@info{pro}}
6051                     {}%
6052                   \bidi@dbg@info{pos}\@firstoftwo}}
6053                 {\bidi@dbg@fail{mac}\@secondoftwo}}}
6054
6055 \bidi@newrobustcmd*{\bidi@patchcmd}{%

```




```

6056 \bidi@dbg@trce\bidi@patchcmd
6057 \begingroup
6058 \@makeother\%
6059 \bidi@@patchcmd}
6060
6061 \newcommand{\bidi@@patchcmd}[4][#####1]{%
6062 \bidi@ifpatchable#2{#3}
6063 {\bidi@dbg@succ{ret}}%
6064 \begingroup
6065 \edef\bidi@resrvda{%
6066 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6067 #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
6068 \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
6069 ####1\detokenize{#4}####2}%
6070 \edef\noexpand\bidi@resrvda{%
6071 \noexpand\bidi@resrvda\meaning#2&}}%
6072 \bidi@resrvda
6073 \bidi@patchcmd@scantoks\bidi@resrvda
6074 \let#2\bidi@resrvda
6075 \bidi@undef\bidi@resrvda
6076 \@firstoftwo}
6077 {\@secondoftwo}}
6078
6079 \def\bidi@patchcmd@scantoks#1{%
6080 \edef\bidi@resrvda{\endgroup
6081 \unexpanded{\makeatletter\scantokens}{#1}%
6082 \catcode\number`\@=\the\catcode`\@ \relax}%
6083 \bidi@resrvda}
6084
6085 \protected\def\bidi@ifscanable#1{%
6086 \begingroup
6087 \edef\bidi@resrvda{%
6088 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6089 ####1\def\string\bidi@resrvda####2{####3}}%
6090 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6091 \bidi@resrvda
6092 \makeatletter
6093 \scantokens\expandafter{\bidi@resrvda}%
6094 \expandafter\endgroup\ifx#1\bidi@resrvda
6095 \expandafter\@firstoftwo
6096 \else
6097 \expandafter\@secondoftwo
6098 \fi}
6099
6100
6101 \protected\long\def\bidi@ifhashcheck#1{%
6102 \begingroup
6103 \edef\bidi@resrvda{\detokenize{#1}}%
6104 \expandafter\endgroup
6105 \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
6106
6107 \edef\bidi@ifhashcheck@i#1&{%
6108 \noexpand\expandafter
6109 \noexpand\bidi@ifhashcheck@ii

```



```

6110 \noexpand\strip@prefix#1\string#\string#&}
6111
6112 \edef\bidi@ifhashcheck@ii{%
6113 \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
6114 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
6115
6116
6117 \protected\long\def\bidi@ifpattern#1#2{%
6118 \begingroup
6119 \edef\bidi@resrvda{%
6120 \def\noexpand\bidi@resrvda####1\detokenize{#2}###2&{%
6121 \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{###2}}}%
6122 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
6123 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6124 \noexpand\bidi@resrvda}
6125 \bidi@resrvda\@secondoftwo\@firstoftwo}
6126
6127
6128 \newcommand{\if@bidi@defparam}{%
6129 \long\edef\if@bidi@defparam#1{%
6130 \noexpand\expandafter\noexpand\bidi@ifdefparam
6131 \noexpand\meaning#1\detokenize{macro}:->&}
6132 \edef\bidi@ifdefparam{%
6133 \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
6134 \bidi@ifdefparam{\bidi@notblank{#2}}
6135
6136
6137 \newcommand{\if@bidi@defprotected}{%
6138 \long\edef\if@bidi@defprotected#1{%
6139 \noexpand\expandafter\noexpand\bidi@ifdefprotected
6140 \noexpand\meaning#1\string\protected&}
6141 \edef\bidi@ifdefprotected{%
6142 \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
6143 \bidi@ifdefprotected{\bidi@notblank{#2}}
6144
6145
6146 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6147 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6148 \expandafter\let\csname #1\endcsname\bidi@undefined
6149 }
6150
6151 \let\bidi@dbg@trce\@gobble
6152 \let\bidi@dbg@init\@gobble
6153 \let\bidi@dbg@info\@gobble
6154 \let\bidi@dbg@succ\@gobble
6155 \let\bidi@dbg@fail\@gobble
6156
6157
6158
6159 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6160 \bidi@dbg@trce\bidi@apptocmd
6161 \begingroup
6162 \@makeother\#%
6163 \bidi@hooktocmd\bidi@append}

```



```

6164
6165
6166
6167 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6168   \bidi@dbg@trce\bidi@pretocmd
6169   \begingroup
6170   \@makeother\%
6171   \bidi@hooktocmd\bidi@prepend}
6172
6173 \long\def\bidi@hooktocmd#1#2#3{%
6174   \endgroup
6175   \bidi@dbg@init#2%
6176   \if@bidi@undef{#2}
6177     {\bidi@dbg@fail{def}\@secondoftwo}
6178     {\bidi@dbg@info{def}%
6179       \if@bidi@defmacro{#2}
6180         {\bidi@dbg@info{mac}%
6181           \if@bidi@defparam{#2}
6182             {\bidi@dbg@info{prm}%
6183               \bidi@ifscanable{#2}
6184                 {\bidi@ifhashcheck{#3}
6185                   {\bidi@dbg@info{tok}%
6186                     \bidi@dbg@succ{ret}%
6187                     \bidi@hooktocmd@i#1#2{#3}%
6188                     \@firstoftwo}
6189                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6190                 {\bidi@dbg@fail{tok}\@secondoftwo}}
6191             {\bidi@dbg@info{prl}%
6192               \if@bidi@defprotected{#2}
6193                 {\bidi@dbg@info{pro}%
6194                   \bidi@dbg@succ{red}%
6195                   \protected}
6196                 {\bidi@dbg@succ{red}}}%
6197             \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6198             \@firstoftwo}}
6199     {\bidi@dbg@fail{mac}\@secondoftwo}}
6200
6201 \long\def\bidi@hooktocmd@i#1#2#3{%
6202   \begingroup
6203   \edef\bidi@resrvda{%
6204     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6205       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
6206     \edef\noexpand\bidi@resrvda{%
6207       \noexpand\bidi@resrvda\meaning#2&}}%
6208   \bidi@resrvda
6209   \bidi@patchcmd@scantoks\bidi@resrvda
6210   \let#2\bidi@resrvda
6211   \bidi@undef\bidi@resrvda}
6212
6213 \long\def\bidi@append#1#2{#1#2}
6214 \long\def\bidi@prepend#1#2{#2#1}
6215
6216 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6217 %\newcommand*{\bidi@endpreamblehook}{

```



```

6218
6219 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}}%
6220
6221 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout
6222 \newcommand*{\bidi@beforeoutputpageshipouthook}{}}
6223
6224 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6225 \newcommand*{\bidi@beforeheaderhook}{}}
6226
6227 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput
6228 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}}
6229
6230 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputpa
6231 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}}
6232
6233 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6234 \newcommand*{\bidi@beforefooterhook}{}}
6235
6236 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6237 \newcommand*{\bidi@afterfooterhook}{}}
6238
6239
6240 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipoutho
6241 \newcommand*{\bidi@afteroutputpageshipouthook}{}}
6242
6243 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6244 \newcommand*{\bidi@atendoutputpagehook}{}}
6245
6246 %\bidi@preto\document{%
6247 % \endgroup
6248 % \let\bidi@AtEndPreamble\@firstofone
6249 % \bidi@endpreamblehook
6250 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6251 % \bidi@undef\bidi@endpreamblehook
6252 % \begingroup}
6253
6254 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6255 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6256
6257 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6258 %\newcommand*{\bidi@afterendpreamblehook}{}}
6259
6260 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}}%
6261
6262 %\bidi@appto\document{%
6263 % \let\bidi@AfterEndPreamble\@firstofone
6264 % \bidi@afterendpreamblehook
6265 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6266 % \bidi@undef\bidi@afterendpreamblehook
6267 % \ignorespaces}
6268
6269 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocume
6270 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}}
6271

```



```

6272 \bidi@patchcmd\enddocument
6273   {\fi}
6274   {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6275     \bidi@afterenddocumentchecklabelssrerunhook
6276     \fi}
6277   {}
6278   {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6279
6280 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6281
6282 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6283 \newcommand*{\bidi@afterlastshipouthook}{}
6284
6285 \bidi@patchcmd\enddocument
6286   {\clearpage}
6287   {\clearpage
6288     \let\bidi@AfterLastShipout\@firstofone
6289     \bidi@afterlastshipouthook}
6290   {}
6291   {\let\bidi@clearpage\clearpage
6292     \def\clearpage{%
6293       \bidi@clearpage
6294       \let\bidi@AfterLastShipout\@firstofone
6295       \bidi@afterlastshipouthook}}
6296
6297 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
6298 %\newcommand*{\bidi@afterenddocumenthook}{}
6299
6300 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6301
6302 %\bidi@patchcmd\enddocument
6303 % {\deadcycles}
6304 % {\let\bidi@AfterEndDocument\@firstofone
6305 %   \bidi@afterenddocumenthook
6306 %   \deadcycles}
6307 % {}
6308 % {\let\bidi@@end\@end
6309 %   \def\@end{%
6310 %     \let\bidi@AfterEndDocument\@firstofone
6311 %     \bidi@afterenddocumenthook
6312 %     \bidi@@end}}
6313
6314 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6315   \bidi@csgappto{\bidi@begin@#1@hook}}
6316
6317 % Patch \begin<space> and \end<space> in newer LaTeX releases
6318 % \begin and \end in older ones.
6319 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6320   {\csname #1\endcsname}
6321   {\bidi@csuse{\bidi@begin@#1@hook}%
6322     \csname #1\endcsname}
6323   {}
6324   {\bidi@warning{%
6325     Patching '\string\begin' failed!\MessageBreak

```



```

6326 '\string\bid@AtBeginEnvironment' will not work\@gobble}}
6327
6328
6329
6330 \bid@newrobustcmd{\bid@AtEndEnvironment}[1]{%
6331 \bid@csgappto{@bid@end@#1@hook}}
6332
6333 \expandafter\bid@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6334 {\csname end#1\endcsname}
6335 {\bid@csuse{@bid@end@#1@hook}%
6336 \csname end#1\endcsname}
6337 {}
6338 {\bid@warning{%
6339 Patching '\string\end' failed!\MessageBreak
6340 '\string\bid@AtEndEnvironment' will not work\@gobble}}
6341
6342
6343
6344 \bid@newrobustcmd{\bid@BeforeBeginEnvironment}[1]{%
6345 \bid@csgappto{@bid@beforebegin@#1@hook}}
6346
6347 \expandafter\bid@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6348 {\bid@csuse{@bid@beforebegin@#1@hook}}
6349 {}
6350 {\bid@warning{%
6351 Patching '\string\begin' failed!\MessageBreak
6352 '\string\bid@BeforeBeginEnvironment' will not work\@gobble}}
6353
6354 \bid@newrobustcmd{\bid@AfterEndEnvironment}[1]{%
6355 \bid@csgappto{@bid@afterend@#1@hook}}
6356
6357 \expandafter\bid@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6358 {\if@ignore}
6359 {\bid@csuse{@bid@afterend@#1@hook}%
6360 \if@ignore}
6361 {}
6362 {\bid@warning{%
6363 Patching '\string\end' failed!\MessageBreak
6364 '\string\bid@AfterEndEnvironment' will not work\@gobble}}
6365
6366 \def\bid@namedef#1{\expandafter\def\csname #1\endcsname}
6367 \def\bid@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6368 \def\bid@nameedef#1{\expandafter\edef\csname #1\endcsname}
6369 \def\bid@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6370
6371 % From David Carlisle:
6372 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6373 % See also https://github.com/ho-tex/oberdiek/issues/26
6374
6375 \let\@bid@stepcounter\stepcounter
6376 \let\@bid@\stpelt\@stpelt
6377
6378 \def\@stpelt#1{%
6379 \ifcsname bid@reset@#1@perpage\endcsname

```



```

6380 \begingroup
6381 \let\stepcounter\@bidi@stepcounter
6382 \@bidi@@stpelt{#1}%
6383 \endgroup
6384 \expandafter\@gobbletwo
6385 \fi
6386 \@bidi@@stpelt{#1}%
6387 }
6388
6389 \bidi@pretocmd\stepcounter
6390 {%
6391 \if@bidi@csundef{bidi@stepcounterhook@@#1}{%
6392 \csname bidi@stepcounterhook@@#1\endcsname
6393 }%
6394 }-}%
6395 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6396
6397 \chardef\bidi@backslash`\\
6398 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6399
6400 % anonymous control sequences
6401 \newcount\bidi@tempcountb
6402 \newtoks\bidi@temptoksa
6403 \newtoks\bidi@temptoksb
6404
6405 % Catcode (re)storing
6406 %
6407 \def\bidi@storecatcode#1%
6408 {\escapechar\m@ne
6409 \bidi@csarg\edef{bidi@restorecatcode\string#1}%
6410 {\catcode`\string#1=
6411 \the\catcode\expandafter`\string#1}%
6412 \catcode\expandafter`\string#1=12\relax
6413 \escapechar`\\ \relax}
6414 \def\bidi@restorecatcode#1%
6415 {\escapechar\m@ne
6416 \csname bidi@restorecatcode\string#1\endcsname
6417 \escapechar`\\ \relax}
6418
6419 % Construct a control sequence inside \edef
6420 %
6421 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6422
6423 % Construct a control sequence out of #2, and give it to #1
6424 %
6425 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6426
6427 % Pick an escapecharacter
6428 % this presumes that its argument is a character.
6429 %
6430 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6431
6432 % Equality of strings.
6433 % the fast approach: does not work in expansion-only environment.

```



```

6434 %
6435 \def\bid@EqualString#1#2{00\fi\def\bid@eqs@a{#1}\def\bid@eqs@b{#2}%
6436     \ifx\bid@eqs@a\bid@eqs@b}
6437
6438 % Test by expansion only
6439 %
6440 \def\bid@EqualStringX#1#2{00\fi
6441     \csname if\@bid@EqualStringX#1&#2&\$ \endcsname}
6442 \def\@bid@EqualStringX#1#2$#3#4$ {\ifx#1#3%
6443     \ifx#1&true\else\bid@hop@ES\@bid@EqualStringX#2$#4$\fi
6444     \else false\fi}
6445 \def\bid@hop@ES#1\fi#2\fi{\fi\fi#1}
6446
6447 % Lexicographic ordering
6448 % note the use of \def
6449 % also note the characters 0,127,255 that are used,
6450 % these are not supposed to appear in the strings
6451 %
6452 {\catcode0=12 \catcode255=12 \catcode127=12
6453 \gdef\bid@StringBeforeNC#1#2{00\fi
6454     \bid@CharsBefore#1^^@^^?#2^^ff^^?}%
6455 \gdef\bid@CharsBeforeNC#1#2^^?#3#4^^?{%
6456     \ifcat#1\relax\def\bid@next{\bid@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6457     \else\ifcat#3\relax\def\bid@next{\bid@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6458     \else\ifnum\lccode`#1<\lccode`#3
6459         \def\bid@next{\csname iftrue\endcsname}%
6460     \else\ifnum\lccode`#1>\lccode`#3
6461         \def\bid@next{\csname iffalse\endcsname}%
6462     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6463     \fi \fi \fi \fi
6464     \bid@next}
6465 \gdef\bid@StringBefore#1#2{00\fi
6466     \bid@CharsBefore#1^^@^^?#2^^ff^^?}%
6467 \gdef\bid@CharsBefore#1#2^^?#3#4^^?{%
6468     \ifnum`#1<`#3
6469         \def\bid@next{\csname iftrue\endcsname}%
6470     \else\ifnum`#1>`#3
6471         \def\bid@next{\csname iffalse\endcsname}%
6472     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6473     \fi\fi
6474     \bid@next}
6475 }
6476
6477 % Null argument test
6478 %
6479 \def\bid@empty{}
6480 \def\bid@ifempty#1{00\fi\expandafter\ifx\csname bid@#1@null\endcsname\bid@@null}
6481 \def\bid@ifEmptyX#1{\expandafter\ifx\csname bid@#1@null\endcsname\bid@@null}
6482 %\def\bid@ifEmpty#1{\def\bid@cs@a{#1}\ifx\bid@cs@a\bid@empty}
6483 \def\bid@IsEmptyList#1{00\fi\def\bid@cs@a{#1}\ifx\cs@a\bid@empty}
6484
6485 % Next character test
6486 %
6487 \def\bid@NextChar#1#2#3{00\fi

```




```

6488 \let\bidixnt@ch#1\def\bidixnt@a{#2}\def\bidixnt@b{#3}%
6489 \futurelet\bidixnt@c\@bidixntc}
6490 \def\bidixnt@ifNextChar#1#2#3{%
6491 \let\bidixnt@ch#1\def\bidixnt@a{#2}\def\bidixnt@b{#3}%
6492 \futurelet\bidixnt@c\@bidixntc}
6493 \def\@bidixntc{\ifx\bidixnt@ch\bidixnt@c \expandafter\bidixnt@a
6494 \else \expandafter\bidixnt@b \fi}
6495
6496 % Test for defined-ness of string as control sequence.
6497 % works inside \edef
6498 %
6499 \def\bidixnt@undefinedcs#1{00\fi\bidixnt@c\ifx{#1}\relax}
6500
6501 % Define uniquely defined dummy macros,
6502 % usually to serve as bumper blocks at the end of a list
6503 %
6504 \newcount\bidixnt@dummies
6505 \def\DefNewDummy#1{
6506 \if\bidixnt@undefinedcs{#1}\bidixnt@c\edef{#1}{\bidixnt@dum\the\bidixnt@dummies}
6507 \advance\bidixnt@dummies\@ne
6508 \else
6509 \bidixnt@error{Attempt at second definition of `#1'}
6510 \fi}
6511
6512 % string case statement
6513 % use: \bidixnt@switch \iftest{...} in:
6514 % item1 action1
6515 % ...
6516 % itemn actionn
6517 % default defaultaction [optional]
6518 % \endbidixnt@switch
6519 % inspired by Jonathan Fine: Some Basic Control Macros
6520 % Tugboat 12 #4
6521 %
6522 \let\@bidixnt\fi \let\endbidixnt@switch\relax \DefNewDummy{\bidixnt@default}
6523 \def\bidixnt@switch@exit #1 \@bidixnt\fi #2 \endbidixnt@switch {\fi #1}
6524 \def\bidixnt@switch #1#2#3{\bidixnt@c\ifx{#2}\bidixnt@default\bidixnt@switch@exit #3 \@bidixnt\fi
6525 #1{#2}\bidixnt@switch@exit #3 \@bidixnt\fi
6526 \bidixnt@switch {#1}
6527 }
6528 % this version puts the test object in {}
6529 \def\bidixnt@oswitch #1 in: #2 #3; {\bidixnt@c\ifx{#2}\bidixnt@default\bidixnt@switch@exit #3 \@bidixnt\fi
6530 #1{#2}\bidixnt@switch@exit #3 \@bidixnt\fi
6531 \bidixnt@switch #1 in:
6532 }
6533 % this version assumes that the test object is just one character
6534 \def\bidixnt@cswitch #1 in: #2 #3; {\bidixnt@c\ifx{#2}\bidixnt@default\bidixnt@switch@exit #3 \@bidixnt\fi
6535 #1#2\bidixnt@switch@exit #3 \@bidixnt\fi
6536 \bidixnt@cswitch #1 in:
6537 }
6538 % this version assumes that the test object can have an optional space
6539 \def\bidixnt@bswitch #1 in: #2 #3; {\bidixnt@c\ifx{#2}\bidixnt@default\bidixnt@switch@exit #3 \@bidixnt\fi
6540 #1#2 \bidixnt@switch@exit #3 \@bidixnt\fi
6541 \bidixnt@bswitch #1 in:

```



```

6542 }
6543 % this version can cope with significant spaces at the start of #3;
6544 % #2 is macro argument
6545 \def\bidimswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6546 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6547 \bidimswitch #1 in:
6548 }
6549 % idem; #2 does not have to be enclosed in braces
6550 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6551 #1#2 \bidi@switch@exit #3 \@bidi@fi
6552 \bidi@fswitch #1 in:
6553 }
6554
6555 % Routines for taking the value of a string:
6556 % if the string is defined as control sequence
6557 % take the value of that, otherwise take the string itself
6558
6559 % String or value of control sequence
6560 %
6561 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6562
6563 % String or control sequence
6564 %
6565 \def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6566
6567 % String or \noexpand-ed control sequence;
6568 % for use in \edef
6569 %
6570 \newif\ifbidi@in@label
6571 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6572 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6573 \newtoks\bidi@are@these@correct
6574 \def\bidi@t@w@w#1{%
6575 \if\bidi@undefinedcs{#1}#1%
6576 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6577 \else
6578 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6579
6580 % List Manipulation .....
6581 % this assumes that #1 is a list of tokens, #2 is the name of a list
6582 %
6583 % Names of lists (and of items to pop into) are given as strings;
6584 % not as control sequences.
6585 %
6586 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6587 % basic append/prepend macro
6588 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6589 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@lista}
6590 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6591 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lista}
6592 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@cslist}
6593 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@cslist}
6594 % variations:
6595 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}

```



```

6596 \long\def\bidiprepend@to@list#1#2{\@bidiprepend@to@list{#1}{#2}}
6597 \def\bidiprepend@list@to@list#1#2{%
6598   \@bidiprepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}%
6599 \def\bidiprepend@list@to@list#1#2{%
6600   \@bidiprepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}%
6601 \def\bidiprepend@csl@list@to@csl@list#1#2{%
6602   \@bidiprepend@to@csl@list{#1}{\expandafter\the#2}}
6603 \def\bidiprepend@csl@list@to@csl@list#1#2{%
6604   \@bidiprepend@to@csl@list{#1}{\expandafter\the#2}}
6605 \def\bidiprepend@toks@cs@to@list#1#2{\@bidiprepend@to@list{#1}{\expandafter\the#2}}
6606 \def\bidiprepend@toks@cs@to@list#1#2{\@bidiprepend@to@list{#1}{\expandafter\the#2}}
6607
6608 \let\bidibeenhskip\unhskip
6609
6610 % A few list macros for the user
6611 \def\NewTokenList:#1 {\@bidicsarg\newtoks{#1}\global\csname#1\endcsname{}}
6612 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6613 \long\def\AppendToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6614 \long\def\PrependToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6615 \def\TheTokenList:#1 {\let\bidibeenhskip\bidibeenhskip \let\bidibeenhskip\empty
6616   \if\bidibeenhskip{#1}\bidibeenhskip{Token List <#1> undefined}
6617   \else\bidibeenhskip\the#1\fi
6618   \let\bidibeenhskip\bidibeenhskip}
6619
6620 \def\bididel@tok@from@list#1#2{\begingroup
6621   \long\def\bidics@list#1#2#3{\biditok@SM
6622     {\biditoks@list#1}\biditoks@list#2}%
6623     \edef\bidics@listb{\global\bidicsname{#1}=
6624       {\the\biditoks@list#1}\the\biditoks@list#2}}%
6625     \bidics@listb}%
6626     \edef\bidics@list{\noexpand\bidics@list#1}\expandafter\the\csname#1\endcsname\noexpand
6627     \bidics@listb \endgroup}
6628 \def\bidibeenhskip@of@list#1{\bidicsarg{\let\expandafter\bidics@list#1}%
6629   \bidibeenhskip@of@csl@list\bidics@list#1}
6630 \long\def\bidibeenhskip@of@csl@list#1#2{\begingroup\biditoks@list#1#2}%
6631   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list#1}
6632   \endgroup}
6633 \long\def\bidibeenhskip@local@in@front@of@list#1#2{\biditoks@list#1#2}%
6634   \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6635   {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6636   \expandafter\the\csname#1\endcsname}%
6637   }
6638 \def\bidibeenhskip@set@list#1{\bidicsarg{\let\expandafter\bidics@list#1}%
6639   \bidibeenhskip@set@csl@list\bidics@list#1}
6640 \long\def\bidibeenhskip@set@csl@list#1#2{\begingroup\biditoks@list#1#2}%
6641   \global#1=\expandafter\the\biditoks@list#1\endgroup}
6642
6643 %%%%%%%%%%%%%%% Stack macros
6644 %
6645 % push in terms of prepending of lists
6646 \def\bidipush@cs@onto@cs#1#2{\@bidiprepend@to@csl@list#1\expandafter\expandafter\expandafter
6647 \def\bidipush@onto@cs#1{\bidicsarg\bidipush@onto@cs{#1}}
6648 \def\bidipush@onto@cs#1#2{\@bidiprepend@to@csl@list#1}{\the#2}}
6649 \def\bidibeenhskip@local@push@onto@cs#1#2{\let\bidibeenhskip\relax

```



```

6650 \bidi@local@in@front@of@list{#1}{\{\#2\}}
6651 % pop via auxiliary macro: #1 is result, #2 is stack
6652 % two cs arguments
6653 \def\bidi@pop@cs@into#1#2{\edef\bidi@cs@e
6654 {\noexpand\@bidi@popinto\noexpand#1\noexpand#2\the#2\noexpand\@bidi@pop}\bidi@cs@e}
6655 % two string arguments
6656 \def\bidi@pop@into#1#2{\edef\bidi@cs@e
6657 {\noexpand\@bidi@popinto\bidi@csname{#1}\bidi@csname{#2}\bidi@csarg\the{#2}\noexpand\@bidi@pop}
6658 \long\def\@bidi@popinto#1#2\#3#4\@bidi@pop{#1{#3}#2{#4}}
6659 \def\bidi@copy@stacktop#1#2{%
6660 \edef\bidi@cs@e{\noexpand\@bidi@copy@stacktop
6661 {#1}\bidi@csarg\the{#2}\noexpand\@bidi@pop}%
6662 \bidi@cs@e}
6663 \def\bidi@copy@stacktop#1\#2#3\@bidi@pop{\csname#1\endcsname#2\relax}
6664 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{\}}
6665 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6666 \def\bidi@length@of@csstack#1{\def\##1{\advance\bidi@stack@length\one}%
6667 \bidi@stack@length\mone \the#1}
6668 % turn a stack upside down
6669 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6670 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6671 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6672 \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\mone
6673 \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6674 % \bidi@append@clist@to@clist\bidi@temptoksb\bidi@temptoksa% append a to b
6675 % \bidi@temptoksa\bidi@temptoksb
6676 \repeat% copy b to a
6677 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6678 % invert a stack into a list
6679 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6680 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6681 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6682 \bidi@pop@into\bidi@temptoksb{#1}\advance\bidi@stack@length\mone
6683 \bidi@append@list@to@list\bidi@temptoksb{\bidi@temptoksa}\repeat
6684 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6685
6686
6687 % General loop macro:
6688 % \looprepeat
6689 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6690 % \untilcondition{<cond>} \whilecondition{<cond>}
6691 % \doloopbody { <loop body> }
6692 % where all control sequences in between \looprepeat and \doloopbody are optional.
6693 %
6694 % var: characters to form a control sequence;
6695 % after \forvariable{index} you can access the loop counter as \index.
6696 % This is a count register; to print it use \number\index.
6697 % start,step,end: integers with obvious relations to the loop counter;
6698 % start and step have a default value of 1
6699 % cond: (sequence of commands ending in) any TeX \if... test.
6700 %
6701 % Count down instead of up with \downtovalue; the increment given in \bystep
6702 % is always positive, and is added or subtracted accordingly.
6703 %

```



```

6704 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6705 % at the beginning of the loop body.
6706 %
6707 % Exit from middle of loop: \breaklooprepeat
6708 % use this at any place in the loop; in case of a conditional use
6709 % \ifsomething ... \expandafter \breaklooprepeat \fi
6710 %
6711 % Note that the line ends do not cause spaces in the output.
6712 %
6713 % Technical details:
6714 % The loop body is not executed in a group: the braces are those
6715 % of a token list.
6716 % The 'forvariable' variable is \let to a \count register.
6717
6718
6719
6720 % Auxiliary stuff
6721 \def\bidilooptrepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6722 \def\bidilooptrepeat@csromannumeral#1{\csname #1\romannumeral\bidilooptrepeat@depth\endcsname}
6723 \def\bidilooptrepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooptrepeat@depth\endcsname}
6724
6725 \newcount\bidilooptrepeat@depth
6726 \let\endlooprepeat\relax \def\bidilooptprotect{}
6727 % Trace switches may later be defined by PAC_utils
6728 \let\bidilooptrepeat@traceinit\relax \let\bidilooptrepeat@traceexit\relax
6729
6730 % Main repeatloop macro
6731 % - go to next level and allocate unique counter/toks if this is the
6732 % first time we visit this level
6733 % - setup: gather bounds and termination conditions
6734 % - scoop up body in token list; after the assignment define and
6735 % execute body
6736 \def\looprepeat#1\doloopbody{\bidilooptrepeat@traceinit % exit in \breakrepeatloop
6737 \advance\bidilooptrepeat@depth\one\relax
6738 \bidilooptrepeat@csargromannumeral\ifx\bidilooptrepeat@count\relax
6739 \bidilooptrepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidilooptrepeat@count}%
6740 \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@toks}%
6741 \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@toks}%
6742 \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@toks}%
6743 \fi \bidilooptrepeat@zero \def\bidilooptrepeat@sign{}\def\bidilooptrepeat@comp{>}\bidilooptrepeat@tmp
6744 \edef\bidilooptrepeat@tmp
6745 {\def\bidilooptrepeat@csargromannumeral\noexpand{\bidilooptrepeat@looprepeat}{\bidilooptrepeat@body}%
6746 \afterassignment\bidilooptrepeat@dxbody\bidilooptrepeat@csromannumeral{\bidilooptrepeat@toks}%
6747
6748 % Define and execute loop body
6749 % This is done with an \edef to construct the actual sequence
6750 \def\bidilooptrepeat@dxbody{\bidilooptrepeat@csargromannumeral\edef{\bidilooptrepeat@body}{%
6751 \bidilooptrepeat@csargromannumeral\the{\bidilooptrepeat@wtest}}%
6752 \noexpand\the\bidilooptrepeat@csargromannumeral\noexpand{\bidilooptrepeat@toks}}%
6753 \bidilooptrepeat@csargromannumeral\the{\bidilooptrepeat@utest}}%
6754 \global\bidilooptrepeat@csargromannumeral\advance{\bidilooptrepeat@count} by \bidilooptrepeat@tmp
6755 \noexpand\endlooprepeat
6756 \bidilooptrepeat@csargromannumeral\noexpand{\bidilooptrepeat@looprepeat}}%
6757 \bidilooptrepeat@csromannumeral{\bidilooptrepeat@body}\ignorespaces}

```



```

6758
6759 % Stop test
6760 %% In order to stop, issue a
6761 % \breaklooprepeat which scoops up the rest of the body and exits
6762 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral{bidi@looprepeat@body}}
6763 \advance\bidi@looprepeat@depth@m@ne \bidi@looprepeat@traceexit
6764 }
6765
6766
6767 % Setup
6768 % gather bounds and termination conditions
6769 \def\bidi@looprepeat@setup#1{%
6770   \begingroup
6771     \def\forvariable##1{%
6772       \edef\bidi@looprepeat@tmp{%
6773         \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{bidi@looprepeat@body}}
6774       \bidi@looprepeat@tmp}%
6775     \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{bidi@looprepeat@count}##1\ignorespaces}%
6776     \def\tovalue##1{%
6777       \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}}
6778       {\bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}%
6779       \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}\bidi@looprepeat@wtest
6780       \noexpand\expandafter \noexpand\breaklooprepeat
6781       \noexpand\fi}\ignorespaces}%
6782     \bidi@looprepeat@tmp}%
6783   \def\downtovalue##1{%
6784     \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6785   \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}%
6786     \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{-##1}\else
6787     \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{##1}\fi\ignorespaces}%
6788   \def\untilcondition##1{%
6789     \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}}
6790     {\noexpand##1\relax
6791     \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6792   \bidi@looprepeat@tmp}%
6793   \def\whilecondition##1{%
6794     \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}}
6795     {\noexpand##1\relax \noexpand\else
6796     \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6797   \bidi@looprepeat@tmp}%
6798   \fromvalue{\@ne}\bystep{\@ne}#1%
6799   \endgroup}
6800 \def\bidi@looprepeat@zero
6801   {\bidi@looprepeat@csromannumeral{bidi@looprepeat@toks}}{\bidi@looprepeat@csromannumeral{bidi@looprepeat@body}}
6802   \bidi@looprepeat@csargromannumeral\def{bidi@looprepeat@body}{}}
6803
6804 %\tracingmacros2
6805 %\newcount\tmpcount % used in some examples below
6806
6807 %\looprepeat \forvariable{i}
6808 %   \bystep{2}
6809 % \doloopbody {%
6810 %   \ifnum i=13 \expandafter\breaklooprepeat \fi
6811 %   \number i}%

```



```

6812 %}%
6813
6814 %\looprepeat \forvariable{iii}
6815 %      \tovalue{8}
6816 %      \doloopbody {}
6817 %After loop: \number\iii%
6818
6819 %\looprepeat \forvariable{i}
6820 %      \fromvalue{10}
6821 %      \bystep{2}
6822 %      \downtovalue{0}
6823 %      \doloopbody {\number\i} }
6824
6825 %\looprepeat \forvariable{x} \whilecondition{\ifnum\x<7}
6826 %      \doloopbody {\number\x} }
6827
6828 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6829
6830 %\looprepeat \forvariable{j}
6831 %      \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6832 %      \doloopbody {\number\j} }
6833
6834 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6835 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6836 % \doloopbody {(\number\i.\number\j) }
6837 % }
6838
6839 % infinite loop
6840 %\looprepeat \doloopbody {}
6841
6842 \ExplSyntaxOn
6843 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6844 {
6845   \IfBooleanTF { #1 }
6846   {
6847     \@ifclassloaded{ #2 }
6848     { #4 }
6849     {
6850       \hook_gput_code:nnn
6851       { file / #2.\@clsextension / after }
6852       { #3 }
6853       { #4 }
6854     }
6855   }
6856   {
6857     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6858   }
6859 }
6860
6861 \seq_new:N \g__biditools_input_file_seq
6862
6863 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6864 {
6865   \str_set:Nx \l_tmpa_str { #1 }

```



```

6866 \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6867 { \prg_return_true: }
6868 { \prg_return_false: }
6869 }
6870
6871 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6872 {
6873   \@ifclassloaded { #1 }
6874   {
6875     \__bidi_if_loading:nTF { #1.\@clsextension }
6876     { \prg_return_false: }
6877     { \prg_return_true: }
6878   }
6879   {
6880     \prg_return_false:
6881   }
6882 }
6883
6884 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6885 {
6886   \@ifpackageloaded { #1 }
6887   {
6888     \__bidi_if_loading:nTF { #1.\@pkgextension }
6889     { \prg_return_false: }
6890     { \prg_return_true: }
6891   }
6892   {
6893     \prg_return_false:
6894   }
6895 }
6896
6897 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6898 {
6899   \IfBooleanTF { #1 }
6900   {
6901     \bidi_if_class_loaded:nTF { #2 }
6902     { #4 }
6903     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6904   }
6905   {
6906     \bidi_if_class_loaded:nF
6907     { #2 }
6908     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6909   }
6910 }
6911
6912 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6913 {
6914   \IfBooleanTF { #1 }
6915   {
6916     \@ifpackageloaded{ #2 }
6917     { #4 }
6918     {
6919       \hook_gput_code:nnn

```




```

6920         { file / #2.\@pkgextension / after }
6921         { #3 }
6922         { #4 }
6923     }
6924 }
6925 {
6926     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6927 }
6928 }
6929
6930 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6931 {
6932     \IfBooleanTF { #1 }
6933     {
6934         \bidi_if_package_loaded:nTF { #2 }
6935         { #4 }
6936         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6937     }
6938     {
6939         \bidi_if_package_loaded:nF
6940         { #2 }
6941         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6942     }
6943 }
6944
6945 \clist_new:N \l__biditools_package_clist
6946 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6947 {
6948     Can-not-prevent-package~`#1'~from-being-loaded,~
6949     since-it-has-been-loaded-already-before-line~\msg_line_number:
6950 }
6951 \clist_new:N \g__biditools_prevent_clist
6952
6953 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6954 {
6955     \clist_set:Nx \l__biditools_package_clist { #3 }
6956     \clist_map_inline:Nn \l__biditools_package_clist
6957     {
6958         \@ifpackageloaded { ##1 }
6959         {
6960             \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
6961             { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
6962         }
6963         {
6964             \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
6965             { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
6966             \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
6967             {
6968                 \tl_new:c { g__biditools_exclude_package_##1_tl }
6969             }
6970             \IfValueT { #2 }
6971             {
6972                 \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
6973             }

```



```

6974         \disable@package@load { ##1 }
6975         { \tl_use:c { g__biditools_exclude_package_##1_tl } }
6976     }
6977 }
6978 \clist_clear:N \l__biditools_package_clist
6979 }
6980
6981 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
6982 {
6983     \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
6984     \clist_gclear:N \g__biditools_prevent_clist
6985 }
6986
6987 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
6988 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
6989
6990 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
6991 {
6992     \clist_set:Nx \l__biditools_package_clist { #2 }
6993     \clist_map_inline:Nn \l__biditools_package_clist
6994     {
6995         \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
6996         {
6997             \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
6998             \reenable@package@load { ##1 }
6999             \IfBooleanT { #1 }
7000             { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7001         }
7002     }
7003 }
7004
7005 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7006 {
7007     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7008     {
7009         \debug_suspend:
7010         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7011         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7012         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7013         #2
7014         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7015         \debug_resume:
7016     }
7017 }
7018
7019 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7020 {
7021     \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7022     {
7023         \debug_suspend:
7024         \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7025         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7026         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7027         #2

```



```

7028      \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7029      \debug_resume:
7030    }
7031  }
7032
7033 \clist_new:N \l__biditools_file_patch_clist
7034
7035 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7036 {
7037   \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7038   \clist_map_inline:Nn \l__biditools_file_patch_clist
7039   {
7040     \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7041   }
7042   \clist_clear:N \l__biditools_file_patch_clist
7043 }
7044
7045 \clist_new:N \l__biditools_package_patch_clist
7046
7047 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7048 {
7049   \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7050   \clist_map_inline:Nn \l__biditools_package_patch_clist
7051   {
7052     \ApplyPatchToPackage { ##1 } [ #2 ]
7053   }
7054   \clist_clear:N \l__biditools_package_patch_clist
7055 }
7056
7057 \clist_new:N \l__biditools_class_patch_clist
7058
7059 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7060 {
7061   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7062   \clist_map_inline:Nn \l__biditools_class_patch_clist
7063   {
7064     \ApplyPatchToClass { ##1 } [ #2 ]
7065   }
7066   \clist_clear:N \l__biditools_class_patch_clist
7067 }
7068
7069 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7070 {
7071   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7072   \clist_map_inline:Nn \l__biditools_class_patch_clist
7073   {
7074     \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7075   }
7076   \clist_clear:N \l__biditools_class_patch_clist
7077 }
7078 \ExplSyntaxOff
7079
7080 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7081 \newcommand*{\bidi@UnReplaceInput}

```



```

7082 {\undeclare@file@substitution}
7083 \newcommand*{\bidi@ReplacePackage}[2]{%
7084   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7085 }
7086 \newcommand*{\bidi@UnReplacePackage}[1]{%
7087   \undeclare@file@substitution{#1.\@pkgextension}%
7088 }
7089 \newcommand*{\bidi@ReplaceClass}[2]{%
7090   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7091 }
7092 \newcommand*{\bidi@UnReplaceClass}[1]{%
7093   \undeclare@file@substitution{#1.\@clsextension}%
7094 }
7095 \newcommand*{\bidi@BeforeFile}[1]{%
7096   \AddToHook{file/#1/before}%
7097 }
7098 \newcommand*{\bidi@AfterFile}[1]{%
7099   \AddToHook{file/#1/after}%
7100 }
7101 \newcommand*{\bidi@BeforeClass}[1]{%
7102   \bidi@BeforeFile{#1.\@clsextension}%
7103 }
7104 \newcommand*{\bidi@BeforePackage}[1]{%
7105   \bidi@BeforeFile{#1.\@pkgextension}%
7106 }
7107
7108 \long\def\bidi@protected@immediate@write#1#2#3{%
7109   \begingroup
7110     #2%
7111     \let\protect\@unexpandable@protect
7112     \edef\reserved@a{\immediate\write#1{#3}}%
7113     \reserved@a
7114   \endgroup
7115   \if@nobreak\ifvmode\nobreak\fi\fi
7116 }
7117
7118 \def\bidi@patch@AfterPackage#1{%
7119   \@ifpackageloaded{#1}{%
7120     \@firstofone
7121   }{%
7122     \AddToHook{package/#1/after}%
7123   }%
7124 }
7125
7126 \def\bidi@patch@AfterFile#1{%
7127   \IfFileLoadedTF{#1}{%
7128     \@firstofone
7129   }{%
7130     \AddToHook{file/#1/after}%
7131   }%
7132 }
7133
7134 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7135 {

```



```

7136 \bidi@patch@AfterFile{#1.#2}{%
7137 \ifnum\catcode`\@=11
7138 \input{#1-xetex-#3.def}%
7139 \else
7140 \bidi@storecatcode\@
7141 \makeatletter
7142 \input{#1-xetex-#3.def}%
7143 \bidi@restorecatcode\@
7144 \fi
7145 }%
7146 }
7147
7148 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7149 {
7150 \bidi@patch@AfterFile{#1.#3}{#2}%
7151 }
7152
7153 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7154 {
7155 \AddToHook{begindocument/before}{%
7156 \IfPackageLoadedF{#1}{%
7157 \ApplyPatchToFiles{#2}{#3}{#4}%
7158 }%
7159 }
7160 }
7161
7162 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7163 {
7164 \AddToHook{begindocument/before}{%
7165 \IfPackageLoadedF{#2}{%
7166 \ifnum\catcode`\@=11
7167 \@ifclassloaded{#1}{%
7168 \input{#1-xetex-#3.def}%
7169 }{}%
7170 \else
7171 \bidi@storecatcode\@
7172 \makeatletter
7173 \@ifclassloaded{#1}{%
7174 \input{#1-xetex-#3.def}%
7175 }{}%
7176 \bidi@restorecatcode\@
7177 \fi
7178 }%
7179 }
7180 }
7181
7182 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7183 {
7184 \AddToHook{begindocument/before}{%
7185 \IfPackageLoadedF{#2}{%
7186 \IfPackageLoadedT{#1}{%
7187 \ifnum\catcode`\@=11
7188 \input{#1-xetex-#3.def}%
7189 \else

```



```

7190         \bidi@storecatcode\@
7191         \makeatletter
7192         \input{#1-xetex-#3.def}%
7193         \bidi@restorecatcode\@
7194     \fi
7195 }%
7196 }%
7197 }
7198 }
7199
7200 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7201 {
7202     \AddToHook{begindocument/before}{%
7203         \ifnum\catcode`\@=11
7204             \@ifpackageloaded{#1}{#2}{#3}%
7205         \else
7206             \bidi@storecatcode\@
7207             \makeatletter
7208             \@ifpackageloaded{#1}{#2}{#3}%
7209             \bidi@restorecatcode\@
7210         \fi
7211     }
7212 }
7213
7214 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7215 {
7216     \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7217 }
7218
7219 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7220 {
7221     \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7222 }
7223
7224 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7225 {
7226     \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7227 }
7228
7229 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7230 {
7231     \bidi@patch@AfterPackage{#1}{#2}%
7232 }
7233
7234 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7235 {
7236     \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7237 }

```

53 File `bidituftefloat.sty`

```

7238 \NeedsTeXFormat{LaTeX2e}
7239 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7240 bidi implementation of tufte float]

```



```

7241 \RequirePackage{xifthen}
7242 \newcommand{\@biditytfloat@pkgname}{biditytfloat}
7243 \newcommand{\biditytfloatError}[2]{\PackageError{\@biditytfloat@pkgname}{#1}{#2}}
7244 \newcommand{\biditytfloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@biditytfloat@debug}}{\bid
7245 \newcommand{\biditytfloatInfoNL}[1]{\PackageInfo{\@biditytfloat@pkgname}{#1\@gobble}}
7246 \newboolean{\@biditytfloat@reversegeometry}
7247 \setboolean{\@biditytfloat@reversegeometry}{false}
7248 \DeclareOption{reversegeometry}{\setboolean{\@biditytfloat@reversegeometry}{true}}
7249 \newboolean{\@biditytfloat@a4paper}
7250 \DeclareOption{a4paper}{\setboolean{\@biditytfloat@a4paper}{true}}
7251 \newboolean{\@biditytfloat@b5paper}
7252 \DeclareOption{b5paper}{\setboolean{\@biditytfloat@b5paper}{true}}
7253 \newboolean{\@biditytfloat@symmetric}
7254 \newboolean{\@biditytfloat@twoside}
7255 \DeclareOption{twoside}{%
7256 \@twoside>true \mparswitchtrue%
7257 \setboolean{\@biditytfloat@twoside}{true}%
7258 \setboolean{\@biditytfloat@symmetric}{true}%
7259 }
7260 \DeclareOption{oneside}{%
7261 \@twoside>false \mparswitchfalse%
7262 \setboolean{\@biditytfloat@twoside}{false}%
7263 \setboolean{\@biditytfloat@symmetric}{false}%
7264 }
7265 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7266 \newboolean{\@biditytfloat@debug}
7267 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodete
7268 \ProcessOptions
7269 %% Globally sets the length
7270 \newcommand*{\gsetlength}[2]{%
7271 \setlength{#1}{#2}%
7272 \global#1=#1\relax%
7273 }
7274
7275 %% Set the font sizes and baselines to match biditytfloat's books
7276 \renewcommand\normalsize{%
7277 \setfontsize\normalsize\@xpt{14}%
7278 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7279 \abovedisplayshortskip \z@ \@plus3\p@
7280 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7281 \belowdisplayskip \abovedisplayskip
7282 \let\@listi\@listI}
7283 \normalbaselineskip=14pt
7284 \normalsize
7285 \renewcommand\footnotesize{%
7286 \setfontsize\footnotesize\@viipt{10}%
7287 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7288 \abovedisplayshortskip \z@ \@plus\p@
7289 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7290 \def\@listi{\leftmargin\leftmarginI
7291 \topsep 3\p@ \@plus\p@ \@minus\p@
7292 \parsep 2\p@ \@plus\p@ \@minus\p@
7293 \itemsep \parsep}%
7294 \belowdisplayskip \abovedisplayskip

```



```

7295 }
7296 %% Paragraph indentation and separation for marginal text
7297 \newcommand{\@biditytfloat@margin@par}{%
7298   \setlength{\RaggedRightParindent}{0.5pc}%
7299   \setlength{\JustifyingParindent}{0.5pc}%
7300   \setlength{\parindent}{0.5pc}%
7301   \setlength{\parskip}{0pt}%
7302 }
7303 \RequirePackage{ragged2e}
7304 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
7305 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7306 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7307   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7308   }}
7309 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7310   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7311   }}{%
7312 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7313 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7314   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7315   }}
7316 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7317   {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7318   }}
7319 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7320   {}
7321   {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7322 \setlength\marginparpush{10pt}
7323 %% Font for margin items
7324 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
7325 \newcommand*{\@biditytfloat@caption@font}{\@biditytfloat@marginfont}
7326 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@caption@font}{#1}}
7327 \newcommand{\@biditytfloat@justification}{\justifying}%
7328 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7329 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7330 \newboolean{@biditytfloat@changepage}
7331 \IfFileExists{changepage.sty}{%
7332   \biditytfloatDebugInfoNL{Found changepage.sty}
7333   \RequirePackage[strict]{changepage}
7334   \setboolean{@biditytfloat@changepage}{true}
7335 }{%
7336   \biditytfloatDebugInfoNL{Found chngpage.sty}
7337   \RequirePackage[strict]{chngpage}
7338   \setboolean{@biditytfloat@changepage}{false}
7339 }
7340 \newboolean{@biditytfloat@odd@page}
7341 \setboolean{@biditytfloat@odd@page}{true}
7342 \newcommand*{\@biditytfloat@checkoddpage}{%
7343   \checkoddpage%
7344   \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7345     \ifoddpage%
7346       \setboolean{@biditytfloat@odd@page}{true}%
7347     \else%
7348       \setboolean{@biditytfloat@odd@page}{false}%

```




```

7349 \fi%
7350 }{%
7351 \ifcoddpage%
7352 \setboolean{@biditytfloat@odd@page}{true}%
7353 \else%
7354 \setboolean{@biditytfloat@odd@page}{false}%
7355 \fi%
7356 }%
7357 }
7358 \newlength{@biditytfloat@overhang}% used by the fullwidth environment and the running head
7359 \newlength{@biditytfloat@fullwidth}
7360 \newlength{@biditytfloat@caption@fill}
7361 \newcommand{@biditytfloatRecalculate}{%
7362 \setlength{@biditytfloat@overhang}{\marginparwidth}
7363 \addtolength{@biditytfloat@overhang}{\marginparsep}
7364
7365 \setlength{@biditytfloat@fullwidth}{\textwidth}
7366 \addtolength{@biditytfloat@fullwidth}{\marginparsep}
7367 \addtolength{@biditytfloat@fullwidth}{\marginparwidth}
7368
7369 \setlength{@biditytfloat@caption@fill}{\textwidth}
7370 \addtolength{@biditytfloat@caption@fill}{\marginparsep}
7371 }
7372 \AtBeginDocument{@biditytfloatRecalculate}
7373 \RequirePackage{optparams}% provides multiple optional arguments for commands
7374 \RequirePackage{placeins}
7375 \newsavebox{@biditytfloat@margin@floatbox}
7376 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
7377 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in order}
7378 \begin{lrbox}{@biditytfloat@margin@floatbox}%
7379 \begin{minipage}{\marginparwidth}%
7380 \setlength{@biditytfloat@caption@font}{\marginparsep}
7381 \def\capttype{#2}%
7382 \hbox{\vspace*{#1}%
7383 \@biditytfloat@caption@justification%
7384 \@biditytfloat@margin@par%
7385 \noindent%
7386 }
7387 {\end{minipage}%
7388 \end{lrbox}%
7389 \marginpar{\usebox{@biditytfloat@margin@floatbox}}%
7390 }
7391 \newenvironment{marginfigure}[1][-1.2ex]%
7392 {\begin{@biditytfloat@margin@float}[#1]{figure}}
7393 {\end{@biditytfloat@margin@float}}
7394 \newenvironment{margintable}[1][-1.2ex]%
7395 {\begin{@biditytfloat@margin@float}[#1]{table}}
7396 {\end{@biditytfloat@margin@float}}
7397 \newcommand*{@biditytfloat@justification@autodetect}{\justifying}%
7398
7399 \newcommand{@biditytfloat@float@debug@info}{}% contains debug info generated as the float is processed
7400 \newcommand{@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7401 \ifthenelse{equal{@biditytfloat@float@debug@info}{}}{
7402 {\def{@biditytfloat@float@debug@info{#1}}{

```



```

7403     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7404 }
7405 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7406 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7407 \newboolean{\@biditytfloat@float@recto}
7408 \newcommand{\forcerectofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7409 \newcommand{\forceversofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7410 \newsavebox{\@biditytfloat@figure@box}
7411 \newsavebox{\@biditytfloat@caption@box}
7412 \let\@biditytfloat@orig@float\@float
7413 \let\@biditytfloat@orig@endfloat\endfloat
7414 \newlength{\@biditytfloat@caption@vertical@offset}
7415 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7416 \newcommand{\@biditytfloat@stored@shortcaption}{%
7417 \newcommand{\@biditytfloat@stored@caption}{%
7418 \newcommand{\@biditytfloat@stored@label}{%
7419 \long\def\@biditytfloat@caption[#1][#2]#3{%
7420 \ifthenelse{\isempty{#1}}{%
7421     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7422     {\gdef\@biditytfloat@stored@caption{#1}}%
7423 \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to 1
7424 \gdef\@biditytfloat@stored@caption{#3}%
7425 }
7426 \newcommand{\@biditytfloat@label}[1]{%
7427 \gdef\@biditytfloat@stored@label{#1}%
7428 }
7429 \newcommand{\@biditytfloat@fps}{%
7430 \newboolean{\@biditytfloat@float@star}
7431 \newlength{\@biditytfloat@float@contents@width}
7432 \newenvironment{\@biditytfloat@float}[3][htbp]%
7433 {% begin \@biditytfloat@float
7434 % Should this float be full-width or just text-width?
7435 \ifthenelse{\equal{#3}{star}}{%
7436     {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7437     {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7438 % Check page side (recto/verso) and store detected value -- can be overridden in environment
7439 \@biditytfloat@checkoddpagel%
7440 \ifthenelse{\boolean{\@biditytfloat@float@odd@page}}{%
7441     {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7442     {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7443 % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7444 \renewcommand{\@biditytfloat@fps}{#1}%
7445 \@biditytfloat@float@debug@info{\MessageBreak#1} Allowed positions: [1]}%
7446 \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}{%
7447     {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug@info{\MessageBreak#1} Presumed position: [bottom]}%
7448     {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug@info{\MessageBreak#1} Presumed position: [top]}%
7449 % Capture the contents of the \caption and \label commands to use later
7450 \global\let\@biditytfloat@orig@caption\caption%
7451 \global\let\@biditytfloat@orig@label\label%
7452 \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[1][Opt]}}%
7453 \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7454 % Handle subfigure package compatibility
7455 \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7456     \bidi@patchcmd{\subfigure}{%

```



```

7457 \let\subfig@oldlabel=\label
7458 }{%
7459 \let\subfig@oldlabel=\@biditytfloat@orig@label
7460 }
7461 {}
7462 {}
7463 \let\subtable=\subfigure
7464 }{}% subfigure package is not loaded
7465 \@biditytfloat@orig@float{#2}[#1]%
7466 \ifthenelse{\boolean{@biditytfloat@float@star}}{%
7467   {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7468   {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7469 \begin{lrbox}{\@biditytfloat@figure@box}%
7470 \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{}%
7471 }{% end @biditytfloat@float
7472   \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7473   \end{minipage}%
7474 \end{lrbox}%
7475 % build the caption box
7476 \begin{lrbox}{\@biditytfloat@caption@box}%
7477 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7478   \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}}{\@biditytfloat@orig@cap
7479   \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}}{\@biditytfloat@orig@label
7480   \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7481   \end{minipage}%
7482 \end{lrbox}%
7483 % now typeset the stored boxes
7484 \begin{fullwidth}%
7485   \begin{minipage}[\floatalignment]{\linewidth}%
7486     \ifthenelse{\boolean{@biditytfloat@float@star}}{%
7487       {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7488       {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7489     \end{minipage}%
7490 \end{fullwidth}%
7491 \@biditytfloat@orig@endfloat% end original LaTeX float environment
7492 % output debug info
7493 \ifthenelse{\boolean{@biditytfloat@debug}}{%
7494   \typeout{^^J^^J----- biditytfloat package float information -----}%
7495   \ifthenelse{\equal{\@biditytfloat@stored@label}}{%
7496     {\typeout{Warning: Float unlabeled!}}%
7497     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7498   \typeout{Page number: [\thepage]}%
7499   \def\MessageBreak{^^J}%
7500   \typeout{\@biditytfloat@float@debug@info}%
7501   \ifthenelse{\boolean{@biditytfloat@symmetric}}{%
7502     {\typeout{Symmetric: [true]}}%
7503     {\typeout{Symmetric: [false]}}%
7504   \typeout{-----^^J^^J}%
7505 }{}%
7506 % reset commands and temp boxes and captions
7507 \gdef\@biditytfloat@float@debug@info{}%
7508 \let\caption\@biditytfloat@orig@caption%
7509 \let\label\@biditytfloat@orig@label%
7510 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%

```



```

7511 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7512 \gdef\@biditytfloat@stored@shortcaption{}%
7513 \gdef\@biditytfloat@stored@caption{}%
7514 \gdef\@biditytfloat@stored@label{}%
7515 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7516 }
7517 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7518 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto}}
7519 % asymmetric or page is odd, so caption is on the right
7520 \hbox{%
7521 \usebox{#2}%
7522 \hspace{\marginparsep}%
7523 \smash{\raisebox{#1}{\usebox{#3}}}%
7524 }
7525 \@biditytfloat@float@debug{Caption position: [right]}%
7526 }{% symmetric pages and page is even, so caption is on the left
7527 \hbox{%
7528 \smash{\raisebox{#1}{\usebox{#3}}}%
7529 \hspace{\marginparsep}%
7530 \usebox{#2}%
7531 }
7532 \@biditytfloat@float@debug{Caption position: [left]}%
7533 }%
7534 }
7535 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7536 \ifthenelse{\equal{\floatalignment}{b}}%
7537 {% place caption above figure
7538 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto}}
7539 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug}
7540 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug}
7541 }{% place caption below figure
7542 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto}}
7543 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug}
7544 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug}
7545 }%
7546 }
7547 \renewenvironment{figure}[1][htbp]%
7548 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7549 {\end{@biditytfloat@float}}
7550 \renewenvironment{table}[1][htbp]
7551 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7552 {\end{@biditytfloat@float}}
7553 \renewenvironment{figure*}[1][htbp]%
7554 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7555 {\end{@biditytfloat@float}}
7556 \renewenvironment{table*}[1][htbp]%
7557 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7558 {\end{@biditytfloat@float}}
7559 \newenvironment{fullwidth}
7560 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7561 {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{- \@biditytfloat@overhang}}%
7562 {\begin{adjustwidth}{- \@biditytfloat@overhang}}%
7563 }%
7564 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%

```



```

7565     {\ifthenelse{\boolean{@bidituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}
7566     {\end{adjustwidth}}}%
7567 }
7568 \long\def\@caption#1[#2]#3{%
7569   \par%
7570   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7571     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7572   \begingroup%
7573     \@parboxrestore%
7574     \if@minipage%
7575       \@setminipage%
7576     \fi%
7577     \@bidituftefloat@caption@font\@bidituftefloat@caption@justification%
7578     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7579     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7580   \endgroup}
7581 %%
7582 % Turns newlines into spaces. Based on code from the 'titlesec' package.
7583 \DeclareRobustCommand{\@biditufteheading@newlinetospace}{%
7584   \@ifstar{\@biditufteheading@newlinetospace@i}{\@biditufteheading@newlinetospace@i}%
7585 }
7586 \def\@biditufteheading@newlinetospace@i{%
7587   \ifdim\lastskip>z@\else\space\fi
7588   \ignorespaces%
7589 }
7590 \DeclareRobustCommand{\newlinetospace}[1]{%
7591   \let\@biditufteheading@orig@cr\\% save the original meaning of \\
7592   \def\\{\@biditufteheading@newlinetospace}% turn \\ and \\* into \space
7593   \let\newline\\% turn \newline into \space
7594   #1%
7595   \let\\ \@biditufteheading@orig@cr% revert to original meaning of \\
7596 }
7597 \RequirePackage{fancyhdr}
7598 \pagestyle{fancy}
7599 \AtBeginDocument{%
7600   \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7601     {\fancyhfoffset[LE,RO]{\@bidituftefloat@overhang}}
7602     {\fancyhfoffset[RE,RO]{\@bidituftefloat@overhang}}
7603 }
7604 % The running heads/feet don't have rules
7605 \renewcommand{\headrulewidth}{0pt}
7606 \renewcommand{\footrulewidth}{0pt}
7607 % The 'fancy' page style is the default style for all pages.
7608 \fancyhf{} % clear header and footer fields
7609   \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7610     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7611     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7612     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7613 % The 'plain' page style is used on chapter opening pages.
7614 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7615 % bottom of pages -- the folios are unexpressed.
7616 \fancypagestyle{plain}{
7617   \fancyhf{} % clear header and footer fields
7618   % Uncomment the following five lines of code if you want the opening page

```



```

7619 % of the chapter to express the folio in the lower outside corner.
7620 % \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7621 % {\fancyfoot[LE,RO]{\thepage}}
7622 % {\fancyfoot[RE,RO]{\thepage}}
7623 }
7624 % The 'empty' page style suppresses all headers and footers.
7625 % It's used on title pages and 'intentionally blank' pages.
7626 \fancypagestyle{empty}{
7627   \fancyhf{} % clear header and footer fields
7628 }
7629 \def\morefloats{% provides a total of 52 floats
7630   \ifthenelse{\isundefined{\bx@S}}{%
7631     \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7632     \newinsert\bx@S
7633     \newinsert\bx@T
7634     \newinsert\bx@U
7635     \newinsert\bx@V
7636     \newinsert\bx@W
7637     \newinsert\bx@X
7638     \newinsert\bx@Y
7639     \newinsert\bx@Z
7640     \newinsert\bx@a
7641     \newinsert\bx@b
7642     \newinsert\bx@c
7643     \newinsert\bx@d
7644     \newinsert\bx@e
7645     \newinsert\bx@f
7646     \newinsert\bx@g
7647     \newinsert\bx@h
7648     \newinsert\bx@i
7649     \newinsert\bx@j
7650     \newinsert\bx@k
7651     \newinsert\bx@l
7652     \newinsert\bx@m
7653     \newinsert\bx@n
7654     \newinsert\bx@o
7655     \newinsert\bx@p
7656     \newinsert\bx@q
7657     \newinsert\bx@r
7658     \newinsert\bx@s
7659     \newinsert\bx@t
7660     \newinsert\bx@u
7661     \newinsert\bx@v
7662     \newinsert\bx@w
7663     \newinsert\bx@x
7664     \newinsert\bx@y
7665     \newinsert\bx@z
7666     \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7667       \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7668       \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7669       \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7670       \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7671       \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7672       \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e

```



```

7673         \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7674         \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7675         \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7676         \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7677         \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7678 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7679 \ifthenelse{\isundefined{\bx@AA}}{%
7680   \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7681   \newinsert\bx@AA
7682   \newinsert\bx@BB
7683   \newinsert\bx@CC
7684   \newinsert\bx@DD
7685   \newinsert\bx@EE
7686   \newinsert\bx@FF
7687   \newinsert\bx@GG
7688   \newinsert\bx@HH
7689   \newinsert\bx@II
7690   \newinsert\bx@JJ
7691   \newinsert\bx@KK
7692   \newinsert\bx@LL
7693   \newinsert\bx@MM
7694   \newinsert\bx@NN
7695   \newinsert\bx@OO
7696   \newinsert\bx@PP
7697   \newinsert\bx@QQ
7698   \newinsert\bx@RR
7699   \newinsert\bx@SS
7700   \newinsert\bx@TT
7701   \newinsert\bx@UU
7702   \newinsert\bx@VV
7703   \newinsert\bx@WW
7704   \newinsert\bx@XX
7705   \newinsert\bx@YY
7706   \newinsert\bx@ZZ
7707   \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7708     \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7709     \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7710     \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7711     \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7712     \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7713     \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7714     \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7715     \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7716     \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7717     \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7718     \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7719     \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7720     \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7721     \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7722     \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7723     \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7724     \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7725 }{%
7726   \bidituftefloatError{You may only call \string\morefloats\space twice. See the\Message

```



```

7727         {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7728     }%
7729 }%
7730 }
7731 \newboolean{@biditytfloat@packages@subfigure}
7732 \setboolean{@biditytfloat@packages@subfigure}{false}
7733 \AtBeginDocument{%
7734     \ifpackageloaded{subfigure}
7735     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7736     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}}%
7737 }
7738 \AtBeginDocument{%
7739     \ifpackageloaded{float}{%
7740         % Save the redefined float environment (instead of the LaTeX float environment)
7741         \let\@biditytfloat@orig@float\@float
7742         \let\@biditytfloat@orig@endfloat\endfloat
7743
7744         % Define Tuftian float styles (with the caption in the margin)
7745         \newcommand{\floatc@biditytfloatplain}[2]{%
7746             \begin{lrbox}{\@biditytfloat@caption@box}%
7747                 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7748                     \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7749                 \end{minipage}%
7750             \end{lrbox}%
7751             \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7752     }
7753     \newcommand{\fs@biditytfloatplain}{%
7754         \def\@fs@cfont{\@biditytfloat@caption@font}%
7755         \let\@fs@capt\floatc@biditytfloatplain%
7756         \def\@fs@pre{}%
7757         \def\@fs@post{}%
7758         \def\@fs@mid{}%
7759         \let\@fs@iftopcapt\iftrue%
7760     }
7761     \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7762     \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7763     \newcommand\floatc@biditytfloatruled[2]{%
7764         {\@fs@cfont #1} #2\par%
7765     }
7766     \newcommand\fs@biditytfloatruled{%
7767         \def\@fs@cfont{\@biditytfloat@caption@font}%
7768         \let\@fs@capt\floatc@biditytfloatplain%
7769         \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7770         \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7771         \def\@fs@mid{}%
7772         \let\@fs@iftopcapt\iftrue%
7773     }
7774     \newcommand\fs@biditytfloatboxed{%
7775         \def\@fs@cfont{}%
7776         \let\@fs@capt\floatc@biditytfloatplain%
7777         \def\@fs@pre{%
7778             \setbox\@currbox\vbox{\hbadness10000
7779             \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7780             \hrule \hbox to\hsize{\vrule\kern3pt

```




```

7781         \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7782     }%
7783     \def\@fs@mid{\kern2pt}%
7784     \def\@fs@post{}%
7785     \let\@fs@iftopcapt\iftrue%
7786 }
7787 }{%
7788 % Nothing to do
7789 }
7790 }
7791 \AtBeginDocument{%
7792 \ifpackageloaded{algorithm}{%
7793 % Set the float style to the Tufte version
7794 \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@floatstyle}{list}}{}%
7795 \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to \ALG@floatstyle}%
7796 \floatstyle{bidituftefloat\ALG@floatstyle}%
7797 \restylefloat{algorithm}%
7798 }{}%
7799 }{%
7800 % Nothing to do
7801 }
7802 }
7803 \PassOptionsToPackage{caption=false}{subfig}

```

54 File `bidituftesidenote.sty`

```

7804 \NeedsTeXFormat{LaTeX2e}
7805 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7806 bidi implementation of tufte sidenote]
7807 \RequirePackage{xifthen}
7808 \RequirePackage{ragged2e}
7809 \RequirePackage{setspace}
7810 \RequirePackage{biditools}
7811 \def\bidituftesidenotemarginpar{%
7812 \ifhmode
7813 \@bsphack
7814 \@floatpenalty -\@Mii
7815 \else
7816 \@floatpenalty -\@Miii
7817 \fi
7818 \ifinner
7819 \@parmoderr
7820 \@floatpenalty\z@
7821 \else
7822 \@next\@currbox\@freelist{}{}%
7823 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7824 {\@floatpenalty\z@
7825 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7826 \fi
7827 \ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
7828 \long\def\@bidituftesidenotexmpar[#1]#2{%
7829 \@bidituftesidenotesavemarbox\@marbox{#1}%
7830 \@bidituftesidenotesavemarbox\@currbox{#2}%
7831 \@xympar}

```



```

7832 \long\def \@bidityftesidenoteympar#1{%
7833   \@bidityftesidenotesavemarbox\@marbox{#1}%
7834   \global\setbox\@currbox\copy\@marbox
7835   \@xympar}
7836 \long\def \@bidityftesidenotesavemarbox #1#2{%
7837   \global\setbox #1%
7838     \color@vbox
7839     \vtop{%
7840       \hsize\marginparwidth
7841       \@parboxrestore
7842       \@bidityftesidenotemarginparreset
7843       #2%
7844       \@minipagefalse
7845       \outer@nobreak
7846     }%
7847   \color@endbox
7848 }
7849 \def \@bidityftesidenotemarginparreset {%
7850   \reset@font
7851   \normalsize
7852   \@minipagetrue
7853   \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7854 }
7855 \def \LTRbidityftesidenotemarginpar{%
7856   \ifhmode
7857     \@bsphack
7858     \@floatpenalty -\@Mii
7859   \else
7860     \@floatpenalty -\@Miii
7861   \fi
7862   \ifinner
7863     \@parmoderr
7864     \@floatpenalty\z@
7865   \else
7866     \@next\@currbox\@freelist{}\{}%
7867     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7868     {\@floatpenalty\z@
7869     \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7870   \fi
7871   \ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7872 \long\def \@LTRbidityftesidenotexmpar[#1]#2{%
7873   \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7874   \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7875   \@xympar}
7876 \long\def \@LTRbidityftesidenoteympar#1{%
7877   \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7878   \global\setbox\@currbox\copy\@marbox
7879   \@xympar}
7880 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7881   \global\setbox #1%
7882     \color@vbox
7883     \vtop{%
7884       \hsize\marginparwidth
7885       \@parboxrestore

```



```

7886      \LTRbidituftesidenotemarginparreset
7887      #2%
7888      \@minipagefalse
7889      \outer@nobreak
7890      }%
7891      \color@endbox
7892 }
7893 \def \LTRbidituftesidenotemarginparreset {%
7894      \reset@font
7895      \normalsize
7896      \@minipagetrue
7897      \everypar{\@minipagefalse\everypar{}\beginL}%
7898 }
7899 \def \RTLbidituftesidenotemarginpar{%
7900      \ifhmode
7901          \@bsphack
7902          \floatpenalty -\@Mii
7903      \else
7904          \floatpenalty-\@Miii
7905      \fi
7906      \ifinner
7907          \@parmoderr
7908          \floatpenalty\z@
7909      \else
7910          \@next\@currbox\@freelist{}\{}%
7911          \next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7912          {\floatpenalty\z@
7913           \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7914      \fi
7915      \ifnextchar [\@RTLbidituftesidenotexmpar\@RTLbidituftesidenoteympar}
7916 \long\def\@RTLbidituftesidenotexmpar[#1]#2{%
7917      \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7918      \@RTLbidituftesidenotesavemarbox\@currbox{#2}%
7919      \@xympar}
7920 \long\def\@RTLbidituftesidenoteympar#1{%
7921      \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7922      \global\setbox\@currbox\copy\@marbox
7923      \@xympar}
7924 \long\def \@RTLbidituftesidenotesavemarbox #1#2{%
7925      \global\setbox #1%
7926          \color@vbox
7927          \vtop{%
7928              \hsize\marginparwidth
7929              \@parboxrestore
7930              \@RTLbidituftesidenotemarginparreset
7931              #2%
7932              \@minipagefalse
7933              \outer@nobreak
7934              }%
7935          \color@endbox
7936 }
7937 \def \@RTLbidituftesidenotemarginparreset {%
7938      \reset@font
7939      \normalsize

```



```

7940 \minipagetrue
7941 \everypar{\minipagefalse\everypar{}\beginR}%
7942 }
7943 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7944 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7945 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7946 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7947 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7948 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7949 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
7950 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7951 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7952 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7953 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7954 \newcommand*{\@bidityftesidenote@RTLCitation@font}{\@bidityftesidenote@RTLmarginfont}
7955 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
7956 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
7957 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
7958 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
7959 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
7960 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
7961 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
7962 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
7963 \newcommand*{\setRTLCitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLCitation@font}{#1}}
7964 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@autodetect}
7965 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@autodetect}
7966 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@autodetect}
7967 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7968 \newcommand{\@bidityftesidenote@margin@par}{%
7969 \setlength{\RaggedRightParindent}{0.5pc}%
7970 \setlength{\JustifyingParindent}{0.5pc}%
7971 \setlength{\parindent}{0.5pc}%
7972 \setlength{\parskip}{0pt}%
7973 }
7974 %%
7975 % Globally sets the length
7976 \ifundefined{gsetlength}{%
7977 \newcommand*{gsetlength}[2]{%
7978 \setlength{#1}{#2}%
7979 \global#1=#1\relax%
7980 }%
7981 }{}
7982
7983 %%
7984 % A function that removes leading and trailing spaces from the supplied macro.
7985 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7986 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7987 % being trimmed of leading and trailing white space.
7988 \catcode`\Q=3
7989 \def\@bidityftesidenote@trim@spaces#1{%
7990 % Use grouping to emulate a multi-token afterassignment queue
7991 \begingroup%
7992 % Put \toks 0 {' into the afterassignment queue
7993 \aftergroup\toks\aftergroup0\aftergroup{%

```



```

7994 % Apply \trimb to the replacement text of #1, adding a leading
7995 % \noexpand to prevent brace stripping and to serve another purpose
7996 % later.
7997 \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
7998 % Transfer the trimmed text back into #1.
7999 \edef#1{\the\toks0}%
8000 }
8001 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8002 % clean up any leftover bizarre Qs, and trim a leading space. In
8003 % order for \trimc to work properly we need to put back a Q first.
8004 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8005 % Execute \vfuzz assignment to remove leading space; the \noexpand
8006 % will now prevent unwanted expansion of a macro or other expandable
8007 % token at the beginning of the trimmed text. The \endgroup will feed
8008 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8009 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8010 \catcode\Q=11
8011 %%
8012 % Citations should go in the margin as sidenotes
8013
8014 \RequirePackage{natbib}
8015 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
8016 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8017 \renewcommand\BR@b@bibitem[2][{}]{%
8018   \ifthenelse{\isempty{#1}}{%
8019     {\BR@bibitem{#2}}%
8020     {\BR@bibitem{#1}{#2}}%
8021   \BR@c@bibitem{#2}%
8022 }
8023 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8024 %%
8025 % Normal \cite behavior
8026 \newcounter{@bidityftesidenote@num@bibkeys}%
8027 \newcommand{\@bidityftesidenote@normal@cite}[2][0pt]{%
8028   % Snag the last bibentry in the list for later comparison
8029   \let\@temp@last@bibkey\@empty%
8030   \for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8031   \sidenote[] [1]{%
8032     % Loop through all the bibentries, separating them with semicolons and spaces
8033     \normalsize\normalfont\@bidityftesidenote@citation@font%
8034     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8035     \for\@temp@bibkeyx:=#2\do{%
8036       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8037         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{-}{and\ }}%
8038         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8039         \bibentry{\@temp@bibkeyx}}%
8040       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8041         \bibentry{\@temp@bibkeyx};\ }%
8042       \stepcounter{@bidityftesidenote@num@bibkeys}%
8043     }%
8044   }%
8045 }
8046 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2][0pt]{%
8047   % Snag the last bibentry in the list for later comparison

```



```

8048 \let\@temp@last@bibkey\@empty%
8049 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8050 \LTRsidenote[] [#1]{%
8051   % Loop through all the bibentries, separating them with semicolons and spaces
8052   \normalsize\normalfont\@bituftesidenote@LTRcitation@font%
8053   \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8054   \@for\@temp@bibkeyx:=#2\do{%
8055     \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8056       {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\{and\ }%
8057         \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8058         \bibentry{\@temp@bibkeyx}}}%
8059       {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8060         \bibentry{\@temp@bibkeyx};\ }%
8061       \stepcounter{\@bituftesidenote@num@bibkeys}%
8062     }%
8063   }%
8064 }
8065 \newcommand{\@bituftesidenote@normal@cite}[2][Opt]{%
8066   % Snag the last bibentry in the list for later comparison
8067   \let\@temp@last@bibkey\@empty%
8068   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8069   \RTLsidenote[] [#1]{%
8070     % Loop through all the bibentries, separating them with semicolons and spaces
8071     \normalsize\normalfont\@bituftesidenote@citation@font%
8072     \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8073     \@for\@temp@bibkeyx:=#2\do{%
8074       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8075         {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\{and\ }%
8076           \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8077           \bibentry{\@temp@bibkeyx}}}%
8078         {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8079           \bibentry{\@temp@bibkeyx};\ }%
8080         \stepcounter{\@bituftesidenote@num@bibkeys}%
8081       }%
8082     }%
8083   }
8084 %%
8085 % Macros for holding the list of cite keys until after the \sidenote
8086 \gdef\@bituftesidenote@citations{}% list of cite keys
8087 \newcommand\@bituftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
8088   \ifx\@bituftesidenote@citations\@empty\else
8089     \g@addto@macro\@bituftesidenote@citations{,}% separate by commas
8090   \fi
8091   \g@addto@macro\@bituftesidenote@citations{#1}
8092 }
8093 \newcommand{\@bituftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8094   % Snag the last bibentry in the list for later comparison
8095   \let\@temp@last@bibkey\@empty%
8096   \@for\@temp@bibkey:=\@bituftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8097   \marginpar{%
8098     \hbox{}\vspace*{#1}%
8099     \@bituftesidenote@citation@font%
8100     \@bituftesidenote@citation@justification%
8101     \@bituftesidenote@margin@par% use parindent and parskip settings for marginal text

```



```

8102 \vspace*{-1\baselineskip}%
8103 % Loop through all the bibentries, separating them with semicolons and spaces
8104 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8105 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8106 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8107 {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8108 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8109 \bibentry{\@temp@bibkeyx}}%
8110 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8111 \bibentry{\@temp@bibkeyx};\ }%
8112 \stepcounter{@bidityftesidenote@num@bibkeys}%
8113 }%
8114 }%
8115 }
8116 %%
8117 % \cite behavior when executed within a sidenote
8118 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8119 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8120 \@bidityftesidenote@add@citation{#1}
8121 }
8122 %%
8123 % Set the default \cite style. This is set and reset by the \sidenote command.
8124 \let\cite\@bidityftesidenote@normal@cite
8125 \let\LTRcite\@bidityftesidenote@normal@cite
8126 \let\RTLcite\@bidityftesidenote@normal@cite
8127 %%
8128 % Transform existing \footnotes into \sidenotes
8129 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8130 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8131 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8132 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8133 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8134 % sidenote's text block.
8135 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidityftesidenote
8136 % Set the in-text footnote mark in the same typeface as the body text itself.
8137 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8138 \providecommand*\@multiplefootnotemark}{3sp}
8139 \providecommand*\@multfootsep}{,}
8140 \bidi@patch@AfterPackage{bidi}{%
8141 \renewcommand{\@footnotemark}{%
8142 \leavevmode%
8143 \ifhmode%
8144 \edef\@x@sf{\the\spacefactor}%
8145 \@bidityftesidenote@check@multiple@sidenotes%
8146 \nobreak%
8147 \fi%
8148 \@makefnmark%
8149 \ifhmode\spacefactor\@x@sf\fi%
8150 \relax%
8151 }%
8152 }
8153 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8154 \ifdim\lastkern=\@multiplefootnotemark\relax%
8155 \edef\@x@sf{\the\spacefactor}%

```



```

8156 \unkern%
8157 \textsuperscript{\multfootsep}%
8158 \spacefactor\@x@sf\relax%
8159 \fi
8160 }
8161 \bidi@patch@AfterPackage{bidi}{%
8162 \renewcommand\@footnotetext[2][0pt]{%
8163 \bidityftesidenotemarginpar{%
8164 \hbox{}}\vspace*{#1}%
8165 \def\baselinestretch {\setspace@singlespace}%
8166 \reset@font%
8167 \bidi@@footnotetext@font% \reset@font\footnotesize%
8168 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8169 \vspace*{-1\baselineskip}\noindent%
8170 \protected@edef\@currentlabel{%
8171 \csname p@footnote\endcsname\@thefnmark%
8172 }%
8173 \color@begingroup%
8174 \@makefntext{%
8175 \ignorespaces#2%
8176 }%
8177 \color@endgroup%
8178 }%
8179 }%
8180 \renewcommand\@LTRfootnotetext[2][0pt]{%
8181 \LTRbidityftesidenotemarginpar{%
8182 \hbox{}}\vspace*{#1}%
8183 \def\baselinestretch {\setspace@singlespace}%
8184 \reset@font%
8185 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
8186 \@LTRbidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8187 \vspace*{-1\baselineskip}\noindent%
8188 \protected@edef\@currentlabel{%
8189 \csname p@footnote\endcsname\@thefnmark%
8190 }%
8191 \color@begingroup%
8192 \@makefntext{%
8193 \ignorespaces#2%
8194 }%
8195 \color@endgroup%
8196 }%
8197 }%
8198 \renewcommand\@RTLfootnotetext[2][0pt]{%
8199 \RTLbidityftesidenotemarginpar{%
8200 \hbox{}}\vspace*{#1}%
8201 \def\baselinestretch {\setspace@singlespace}%
8202 \reset@font%
8203 \bidi@@RTLfootnotetext@font% \reset@font\footnotesize%
8204 \@RTLbidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8205 \vspace*{-1\baselineskip}\noindent%
8206 \protected@edef\@currentlabel{%
8207 \csname p@footnote\endcsname\@thefnmark%
8208 }%
8209 \color@begingroup%

```




```

8210      \@makefnintext{%
8211          \ignorespaces#2%
8212      }%
8213      \color@endgroup%
8214  }%
8215 }%
8216 }
8217 %
8218 % Define \sidenote command. Can handle \cite.
8219 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8220 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8221 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8222 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8223     \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
8224     \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8225     \ifthenelse{\NOT\isempty{#2}}{%
8226         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8227     }{%
8228         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8229     }%
8230     \ifthenelse{\isempty{#1}}{%
8231         % no specific footnote number provided
8232         \stepcounter\@mpfn%
8233         \protected@xdef\@thefnmark{\thempfn}%
8234         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8235     }{%
8236         % specific footnote number provided
8237         \begingroup%
8238             \csname c@\@mpfn\endcsname #1\relax%
8239             \unrestored@protected@xdef\@thefnmark{\thempfn}%
8240         \endgroup%
8241         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8242     }%
8243     \@bidityftesidenote@print@citations%             print any citations
8244     \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite comm
8245     \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTR
8246     \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTL
8247     \unskip\ignorespaces%                            remove extra white space
8248     \kern-\multiplefootnotemarker%                   remove \kern left behind by sidenote
8249     \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8250 }
8251 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8252     \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
8253     \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8254     \ifthenelse{\NOT\isempty{#2}}{%
8255         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8256     }{%
8257         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8258     }%
8259     \ifthenelse{\isempty{#1}}{%
8260         % no specific footnote number provided
8261         \stepcounter\@mpfn%
8262         \protected@xdef\@thefnmark{\thempfn}%
8263         \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%

```



```

8264 }{%
8265 % specific footnote number provided
8266 \begingroup%
8267 \csname c@\@mpfn\endcsname #1\relax%
8268 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8269 \endgroup%
8270 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8271 }%
8272 \@bidityftesidenote@print@citations% print any citations
8273 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8274 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8275 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8276 \unskip\ignorespaces% remove extra white space
8277 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8278 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8279 }
8280 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8281 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8282 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8283 \ifthenelse{\NOT\isempty{#2}}{%
8284 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8285 }{%
8286 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8287 }%
8288 \ifthenelse{\isempty{#1}}{%
8289 % no specific footnote number provided
8290 \stepcounter\@mpfn%
8291 \protected@xdef\@thefnmark{\thempfn}%
8292 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8293 }{%
8294 % specific footnote number provided
8295 \begingroup%
8296 \csname c@\@mpfn\endcsname #1\relax%
8297 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8298 \endgroup%
8299 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8300 }%
8301 \@bidityftesidenote@print@citations% print any citations
8302 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8303 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8304 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8305 \unskip\ignorespaces% remove extra white space
8306 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8307 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8308 }
8309 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [0pt]}}
8310 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [0pt]}}
8311 \newcommand{\RTLSidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [0pt]}}
8312 \bidi@patch@AfterPackage{bidi}{%
8313 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [0pt]}}%
8314 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [0pt]}}%
8315 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [0pt]}}%
8316 }
8317 %%

```



```

8318 % Sidenote without the footnote mark
8319 \newcommand\marginnote[2][Opt]{%
8320   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8321   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8322   \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidityftesidenote@print@citations%
8323   \@bidityftesidenote@print@citations%             print any citations
8324   \let\cite\@bidityftesidenote@normal@cite%         go back to using normal in-text \cite command
8325   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%   go back to using normal in-text \LTR
8326   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%    go back to using normal in-text \RTL
8327 }
8328 \newcommand\LTRmarginnote[2][Opt]{%
8329   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8330   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8331   \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@bidityftesidenote@print@citations%
8332   \@bidityftesidenote@print@citations%             print any citations
8333   \let\cite\@bidityftesidenote@normal@cite%         go back to using normal in-text \cite command
8334   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%   go back to using normal in-text \LTR
8335   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%    go back to using normal in-text \RTL
8336 }
8337 \newcommand\RTLmarginnote[2][Opt]{%
8338   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8339   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8340   \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@bidityftesidenote@print@citations%
8341   \@bidityftesidenote@print@citations%             print any citations
8342   \let\cite\@bidityftesidenote@normal@cite%         go back to using normal in-text \cite command
8343   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%   go back to using normal in-text \LTR
8344   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%    go back to using normal in-text \RTL
8345 }

```

55 File bidityftetoc.sty

```

8346 \NeedsTeXFormat{LaTeX2e}
8347 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8348 bidi implementation of tuftes toc]
8349 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8350 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8351 \newcommand{\@bidityftetoc@error}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8352 %%
8353 % Turn off section numbering
8354 \setcounter{secnumdepth}{-1}
8355 \newboolean{\@bidityftetoc@toc}
8356 \setboolean{\@bidityftetoc@toc}{true}
8357 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
8358 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
8359 \ProcessOptions
8360 %%
8361 % Make Tuftian-style section headings and TOC formatting
8362 \bidityftetoc@patch@AfterPackage{bidi}{%
8363   \titleformat{\chapter}%
8364     [display]% shape
8365     {\relax\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8366     {\itshape\huge\thechapter}% label
8367     {0pt}% horizontal separation between label and title body
8368     {\huge\rmfamily\itshape}% before the title body

```



```

8369 [\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\end{fullwidth}}{}]% after the title
8370 \titleformat{\section}%
8371   [hang]% shape
8372   {\normalfont\Large\itshape}% format applied to label+text
8373   {\thesection}% label
8374   {1em}% horizontal separation between label and title body
8375   {}% before the title body
8376   []% after the title body
8377 \titleformat{\subsection}%
8378   [hang]% shape
8379   {\normalfont\large\itshape}% format applied to label+text
8380   {\thesubsection}% label
8381   {1em}% horizontal separation between label and title body
8382   {}% before the title body
8383   []% after the title body
8384 \titleformat{\paragraph}%
8385   [runin]% shape
8386   {\normalfont\itshape}% format applied to label+text
8387   {\theparagraph}% label
8388   {1em}% horizontal separation between label and title body
8389   {}% before the title body
8390   []% after the title body
8391 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8392 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8393 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8394 }
8395 % Subsubsection and following section headings shouldn't be used.
8396 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8397 \renewcommand\subsubsection{%
8398   \biditytetocError{\noexpand\subsubsection is undefined by this class.%
8399     \MessageBreak See Robert Bringhurst's _The Elements of
8400     \MessageBreak Typographic Style_, section 4.2.2.
8401     \MessageBreak \noexpand\subsubsection was used}
8402     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8403     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8404     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8405 }
8406 \renewcommand\subparagraph{%
8407   \biditytetocError{\noexpand\subparagraph is undefined by this class.%
8408     \MessageBreak See Robert Bringhurst's _The Elements of
8409     \MessageBreak Typographic Style_, section 4.2.2.
8410     \MessageBreak \noexpand\subparagraph was used}
8411     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8412     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8413     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8414 }
8415 % Formatting for main TOC (printed in front matter)
8416 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8417 \ifthenelse{\boolean{@biditytetoc@toc}}{%
8418   \bidity@patch@AfterPackage{bidi}{%
8419     \titlecontents{part}% FIXME
8420     [0em] % distance from left margin
8421     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8422     {\contentslabel{2em}} % before w/label (label = ``II'')

```



```

8423 {} % before w/o label
8424 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8425 [\end{fullwidth}] % after
8426 \titlecontents{chapter}%
8427 [0em] % distance from left margin
8428 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format
8429 {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8430 {\hspace*{0em}} % before w/o label
8431 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8432 [\end{fullwidth}] % after
8433 \titlecontents{section}% FIXME
8434 [0em] % distance from left margin
8435 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8436 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8437 {\hspace*{2em}} % before w/o label
8438 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8439 [\end{fullwidth}] % after
8440 \titlecontents{subsection}% FIXME
8441 [0em] % distance from left margin
8442 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8443 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8444 {\hspace*{4em}} % before w/o label
8445 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8446 [\end{fullwidth}] % after
8447 \titlecontents{paragraph}% FIXME
8448 [0em] % distance from left margin
8449 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8450 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8451 {\hspace*{6em}} % before w/o label
8452 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8453 [\end{fullwidth}] % after
8454}%
8455}{%
8456%%
8457% Format lists of figures/tables
8458\renewcommand\listoffigures{%
8459 \ifundefined{chapter}%
8460 {\section*{\listfigurename}}%
8461 {\chapter*{\listfigurename}}%
8462% \begin{fullwidth}%
8463 \@starttoc{lof}%
8464% \end{fullwidth}%
8465}
8466\renewcommand\listoftables{%
8467 \ifundefined{chapter}%
8468 {\section*{\listtablename}}%
8469 {\chapter*{\listtablename}}%
8470% \begin{fullwidth}%
8471 \@starttoc{lot}%
8472% \end{fullwidth}%
8473}
8474\newcommand{\@bidityfttoc@lof@line}[2]{%
8475 % #1 is the figure/table number and its caption text
8476 % #2 is the page number on which the figure/table appears

```



```

8477 \leftskip 0.0em
8478 \rightskip 0em
8479 \parfillskip 0em plus 1fil
8480 \parindent 0.0em
8481 \@afterindenttrue
8482 \interlinepenalty\@M
8483 \leavevmode
8484 \@tempdima 2.0em
8485 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8486 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8487 {#1}\nobreak\quad\nobreak#2%
8488 \par%
8489 }
8490 \renewcommand*\l@figure{\@biditytetoc\lof@line}
8491 \let\l@table\l@figure

```

56 File biditytgeneralstructure.sty

```

8492 \NeedsTeXFormat{LaTeX2e}
8493 \ProvidesPackage{biditytgeneralstructure}[2011/06/18 v0.1
8494 bidi implementation of tufte general structure]
8495 \renewcommand\small{%
8496   \@setfontsize\small\@ixpt{12}%
8497   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8498   \abovedisplayshortskip \z@ \@plus2\p@
8499   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8500   \def\@listi{\leftmargin\leftmargini
8501             \topsep 4\p@ \@plus2\p@ \@minus2\p@
8502             \parsep 2\p@ \@plus\p@ \@minus\p@
8503             \itemsep \parsep}%
8504   \belowdisplayskip \abovedisplayskip
8505 }
8506 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
8507 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8508 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8509 \renewcommand\Large{\@setfontsize\Large\@xipt{16}}
8510 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8511 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8512 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8513 \setlength\leftmargini {1pc}
8514 \setlength\leftmarginii {1pc}
8515 \setlength\leftmarginiii {1pc}
8516 \setlength\leftmarginiv {1pc}
8517 \setlength\leftmarginv {1pc}
8518 \setlength\leftmarginvi {1pc}
8519 \setlength\labelsep {.5pc}
8520 \setlength\labelwidth {\leftmargini}
8521 \addtolength\labelwidth{-\labelsep}
8522 \setlength{\parindent}{1.0pc}%
8523 \setlength{\parskip}{0pt}%
8524 \RequirePackage{ragged2e}
8525 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8526 % Paragraph indentation and separation for normal text
8527 \newcommand{\@biditytgeneralstructure@reset@par}{%

```



```

8528 \setlength{\RaggedRightParindent}{1.0pc}%
8529 \setlength{\JustifyingParindent}{1.0pc}%
8530 \setlength{\parindent}{1pc}%
8531 \setlength{\parskip}{Opt}%
8532 }
8533 \@biditytgeneralstructure@reset@par
8534 % Require paralist package for tighter lists
8535 \RequirePackage{paralist}
8536 % Add rightmargin to compactenum
8537 \def\@compactenum@{%
8538 \expandafter\list\csname label\@enumctr\endcsname{%
8539 \usecounter{\@enumctr}%
8540 \rightmargin=2em% added this
8541 \parsep\plparsep
8542 \itemsep\plitemsep
8543 \topsep\pltopsep
8544 \partopsep\plpartopsep
8545 \def\makelabel##1{\hss\llap{##1}}}}
8546 %%
8547 % An environment for paragraph-style section
8548 \providecommand\newthought[1]{%
8549 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8550 \noindent\textbf{#1}%
8551 }
8552 %%
8553 % Redefine the display environments (quote, quotation, etc.)
8554 \renewenvironment{verse}
8555 {\let\\ \@centercr
8556 \list{}{\itemsep \z@
8557 \itemindent -1pc%
8558 \listparindent\itemindent
8559 \rightmargin \leftmargin
8560 \advance\leftmargin 1pc}%
8561 \small%
8562 \item\relax}
8563 {\endlist}
8564 \renewenvironment{quotation}
8565 {\list{}{\listparindent 1pc%
8566 \itemindent \listparindent
8567 \rightmargin \leftmargin
8568 \parsep \z@ \@plus\p@}%
8569 \small%
8570 \item\relax\noindent\ignorespaces}
8571 {\endlist}
8572 \renewenvironment{quote}
8573 {\list{}{\rightmargin\leftmargin}%
8574 \small%
8575 \item\relax}
8576 {\endlist}
8577 % Italicize description run-in headings (instead of the default bold)
8578 \renewcommand*{descriptionlabel}[1]{\hspace\labelsep\normalfont\em #1}
8579 %%
8580 % Redefine \bibsection to not mark the running heads.
8581 % (Code modified from natbib.sty.)

```



```

8582 \@ifundefined{chapter}%
8583   {\renewcommand\bibsection{\section*{\refname}}}
8584   {\@ifundefined{NAT@sectionbib}%
8585     {\renewcommand\bibsection{\chapter{\bibname}}}
8586     {\renewcommand\bibsection{\section*{\bibname}}}}
8587 \RequirePackage{multicol}
8588 \renewenvironment{theindex}{%
8589 \@ifundefined{chapter}%
8590   {\section*{\indexname}}%
8591   {\chapter{\indexname}}%
8592 \begin{fullwidth}%
8593 \small%
8594 \parskip0pt%
8595 \parindent0pt%
8596 \let\item\@idxitem%
8597 \begin{multicols}{3}%
8598 }{%
8599 \end{multicols}%
8600 \end{fullwidth}%
8601 }
8602 \AtBeginDocument{%
8603 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8604 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8605 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}
8606 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8607 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

57 File `bidituftehyperref.sty`

```

8608 \NeedsTeXFormat{LaTeX2e}
8609 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8610 bidi implementation of tufte hyperref]
8611 %%
8612 % Color
8613 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8614 \newboolean{@bidituftehyperref@loadhyper}
8615 \setboolean{@bidituftehyperref@loadhyper}{true}
8616 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8617 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8618 \ProcessOptions
8619 %% Loads the hyperref package and sets some default options.
8620 \newcommand{\bidituftehyperrefLoadHyperref}{%
8621 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8622 \hypersetup{%
8623   bookmarksdepth = section,
8624   citecolor = DarkGreen,
8625   linkcolor = DarkBlue,
8626   pagecolor = DarkBlue,
8627   urlcolor = DarkGreen,
8628 }%
8629 }
8630 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8631 \bidituftehyperrefLoadHyperref%
8632 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.

```




```

8633 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8634 }

```

58 File `bidituftetitle.sty`

```

8635 \NeedsTeXFormat{LaTeX2e}
8636 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8637 bidi implementation of tufte title]
8638 \RequirePackage{biditools}
8639 %%
8640 % 'titlepage' option -- creates a full title page with \maketitle
8641 \newboolean{@bidituftetitle@titlepage}
8642 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
8643 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
8644 % Default 'book' and 'handout' options
8645 \ifclassloaded{book}{%
8646 \ExecuteOptions{titlepage}}{%
8647 \ifclassloaded{article}{%
8648 \ExecuteOptions{notitlepage}}%
8649 {}}
8650 \ProcessOptions
8651 %%
8652 % Modified \title, \author, and \date commands. These store the
8653 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8654 \newcommand{\plaintitle}{}% plain-text-only title
8655 \newcommand{\plainauthor}{}% plain-text-only author
8656 \newcommand{\plainpublisher}{}% plain-text-only publisher
8657 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8658 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8659 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8660 \newcommand{\@publisher}{}% full publisher with \thanks{}
8661 \newcommand{\thedata}{\today}
8662 \bidi@patch@AfterPackage{bidi}{%
8663 \renewcommand{\thanks}[1]{\footnote{#1}}
8664 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8665 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8666 }
8667 \renewcommand{\title}[2][]{%
8668 \gdef{@title{#2}}%
8669 \begingroup%
8670 % TODO store contents of \thanks command
8671 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8672 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8673 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8674 \protected@xdef\thanklesstitle{#2}%
8675 \endgroup%
8676 \ifthenelse{\isempty{#1}}%
8677 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8678 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8679 \@ifundefined{hypersetup}%
8680 {}% hyperref is not loaded; do nothing
8681 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8682 }
8683 \let\@author\@empty% suppress default latex.ltx ``no author'' warning

```



```

8684 \renewcommand{\author}[2][]{%
8685   \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8686   \begingroup%
8687     % TODO store contents of \thanks command
8688     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8689     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8690     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8691     \protected@xdef\thanklessauthor{#2}%
8692   \endgroup%
8693   \ifthenelse{\isempty{#1}}%
8694     {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8695     {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8696   \ifundefined{hypersetup}%
8697     {}% hyperref is not loaded; do nothing
8698     {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8699 }
8700 \renewcommand{\date}[1]{%
8701   \gdef\@date{#1}%
8702   \begingroup%
8703     % TODO store contents of \thanks command
8704     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8705     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8706     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8707     \protected@xdef\thedata{#1}%
8708   \endgroup%
8709 }
8710 %%
8711 % Provides a \publisher command to set the publisher
8712 \newcommand{\publisher}[2][]{%
8713   \gdef\@publisher{#2}%
8714   \begingroup%
8715     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8716     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8717     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8718     \protected@xdef\thanklesspublisher{#2}%
8719   \endgroup%
8720   \ifthenelse{\isempty{#1}}%
8721     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8722     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8723 }
8724 %%
8725 % Produces a full title page
8726 \newcommand{\maketitlepage}[0]{%
8727   \cleardoublepage%
8728   {%
8729     \bfseries%
8730     \begin{fullwidth}%
8731       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8732       \vspace{11.5pc}%
8733       \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8734       \vfill%
8735       \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8736     \end{fullwidth}%
8737   }

```



```

8738 \thispagestyle{empty}%
8739 \clearpage%
8740 }
8741 %%
8742 % Title block
8743 \bidi@AfterEndPreamble{%
8744 \renewcommand{\maketitle}{%
8745 \newpage%
8746 \global\@topnum\z@% prevent floats from being placed at the top of the page
8747 \begingroup%
8748 \setlength{\parindent}{0pt}%
8749 \setlength{\parskip}{4pt}%
8750 \let\@title\@empty%
8751 \let\@author\@empty%
8752 \let\@date\@empty%
8753 \gdef\@title{\LARGE\itshape\@title\par}%
8754 \gdef\@author{\Large\itshape\@author\par}%
8755 \gdef\@date{\Large\itshape\@date\par}%
8756 \@title%
8757 \@author%
8758 \@date%
8759 \endgroup%
8760 \thispagestyle{plain}% suppress the running head
8761 }%
8762 }
8763 %%
8764 % Title page (if the 'titlepage' option was passed to the bidentufte-handout
8765 % class.)
8766 \bidi@AfterEndPreamble{%
8767 \ifthenelse{\boolean{@bidentufte@titlepage}}{
8768 {\renewcommand{\maketitle}{\maketitlepage}}
8769 {}
8770 }
8771 %%
8772 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8773 % without headers and footers
8774 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8775 \hbox{}
8776 %\vspace*{\fill}
8777 %\begin{center}
8778 % This page intentionally contains only this sentence.
8779 %\end{center}
8780 %\vspace{\fill}
8781 \thispagestyle{empty}
8782 \newpage
8783 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

59 File bidentufte-handout.cls

```

8784 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8785 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
8786 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8787 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8788 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}

```



```

8789 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytethehyperref}}
8790 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityttetitle}}
8791 \ProcessOptions\relax
8792 \LoadClass{article}
8793 \RequirePackage{biditytfloat}
8794 \RequirePackage{bidityttesidenote}
8795 \RequirePackage{bidityttetoc}
8796 \RequirePackage{bidityttegeneralstructure}
8797 \RequirePackage{biditytethehyperref}
8798 \RequirePackage{bidityttetitle}
8799 \renewenvironment{abstract}
8800 { \begin{quotation} }
8801 { \end{quotation} }
8802 \AtBeginDocument{%
8803 \IfFileExists{biditytte-handout.cfg}
8804 { \input{biditytte-handout.cfg}
8805 \ClassInfo{biditytte-handout}{Loading biditytte-handout configuration file \@gobble}}
8806 {}%
8807 }

```

60 File biditytte-book.cls

```

8808 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8809 \ProvidesClass{biditytte-book}[2011/06/18 v0.1 biditytte-book class]
8810 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8811 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytfloat}}
8812 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityttetoc}}
8813 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytethehyperref}}
8814 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityttetitle}}
8815 \ProcessOptions\relax
8816 \LoadClass{book}
8817 \RequirePackage{biditytfloat}
8818 \RequirePackage{bidityttesidenote}
8819 \RequirePackage{bidityttetoc}
8820 \RequirePackage{bidityttegeneralstructure}
8821 \RequirePackage{biditytethehyperref}
8822 \RequirePackage{bidityttetitle}
8823 %%
8824 % Set up any book-specific stuff now
8825 %%
8826 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8827 % to the opening page of Chapter 1. The running heads, when they appear,
8828 % contain only the (arabic) page number in the outside corner.
8829 %\newif\if@mainmatter \@mainmattertrue
8830 \renewcommand\frontmatter{%
8831 \cleardoublepage%
8832 \@mainmatterfalse%
8833 \pagenumbering{arabic}%
8834 %\pagestyle{plain}%
8835 \fancyhf{}%
8836 \ifthenelse{\boolean{@biditytfloat@twoside}}%
8837 {\fancyhead[LE,RO]{\thepage}}%
8838 {\fancyhead[RE,RO]{\thepage}}%
8839 }

```



```

8840 %%
8841 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8842 % numbering---it continues where it left off in the front matter.
8843 \renewcommand\mainmatter{%
8844   \cleardoublepage%
8845   \@mainmattertrue%
8846   \fancyhf{}%
8847   \ifthenelse{\boolean{@bidituftefloat@twoside}}%
8848     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8849     \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8850     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8851     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8852 }
8853 %%
8854 % The back matter contains appendices, indices, glossaries, endnotes,
8855 % bibliographies, list of contributors, illustration credits, etc.
8856 \renewcommand\backmatter{%
8857   \if@openright%
8858     \cleardoublepage%
8859   \else%
8860     \clearpage%
8861   \fi%
8862   \@mainmatterfalse%
8863 }
8864 %%
8865 % Only show the chapter titles in the table of contents
8866 \setcounter{tocdepth}{0}
8867 \AtBeginDocument{%
8868   \IfFileExists{biditufte-book.cfg}
8869   {\input{biditufte-book.cfg}
8870    \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8871   {}%
8872 }

```

61 File bidipoem.sty

```

8873 \NeedsTeXFormat{LaTeX2e}
8874 \ProvidesPackage{bidipoem}%
8875 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8876
8877 % Usage:
8878 %
8879 % \Setversedim #1#2 % define the layout (within a group):
8880 % #1 = length of both half-verses
8881 % #2 = separation distance = length of a connection, if present
8882 % Variant:
8883 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8884 % #1 = length of first (=right) half-verse
8885 % #2 = length of second (=left) half-verse
8886 % #3 = separation distance = length of a connection, if present
8887 %
8888 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8889 % #1 = text of first (=right) half-verse
8890 % #2 = text of second (=left) half-verse

```



```

8891 % Variant:
8892 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8893 % #1 = text of first (=right) half-verse
8894 % #2 = text of connection
8895 % #3 = text of second (=left) half-verse
8896 %
8897 % Alternative (if preferred):
8898 %
8899 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8900
8901
8902 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1[#2]}
8903
8904 % define the layout, verses will be centered
8905
8906 \newdimen \bidipoem@hrlen \newdimen \bidipoem@hvsep
8907 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hrlen
8908
8909 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8910 \bidipoem@hvind \textwidth
8911 \bidipoem@hrlen #1\relax \advance \bidipoem@hvind -\bidipoem@hrlen
8912 \ifx [#2]\def \bidipoem@next {\bidipoem@set@verseI []}\else
8913 \bidipoem@@hrlen \bidipoem@hrlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8914
8915 \def \bidipoem@set@verseI [#1]{% optional parameter
8916 \bidipoem@@hrlen #1\relax \bidipoem@set@@verse }
8917
8918 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8919 \advance \bidipoem@hvind -\bidipoem@@hrlen \bidipoem@hvsep #1\relax
8920 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8921
8922 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8923 \ifdim Opt > \bidipoem@hvind %
8924 \bidipoem@spreadbox \bidipoem@hrlen {#1}\\ \hfill % first block
8925 \else
8926 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hrlen {#1}\fi
8927 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8928 \bidipoem@spreadbox \bidipoem@@hrlen {#3}% second block
8929 \par }
8930
8931 % macro for two half verses
8932 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8933 \ifx [#2]\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[]}%
8934 \else\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8935 \bidipoem@half@verses@next}
8936
8937 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8938 \traditionalconnverses {#1}{#2}{#3}}
8939
8940
8941 {\catcode\^^M=\active % these lines must end with %
8942 \gdef \traditionalpoem@obeylines {\catcode\^^M=\active \let^^M \traditionalpoem@par}%
8943 \global\let^^M \traditionalpoem@par} % this is in case ^^M appears in a \write
8944 {\catcode\^^M=\active % these lines must end with %

```



```

8945 \gdef\modernpoem@obeylines{\catcode\^^M\active \let^^M\modernpoem@par}%
8946 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8947 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8948 \def\poemmarginskip{1em plus 1fil minus 1em}
8949 \def\poemextrabaselineskip{0\baselineskip}
8950 \def\poemskip{\medskip}
8951 \newcommand{\bidipoem@openbox}{\leavevmode
8952 \hbox to.77778em{%
8953 \hfil\vrule
8954 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8955 \vrule\hfil}}
8956 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8957 \newdimen\versewidth
8958 \newtoks\bidipoem@p@ftn
8959 \def\poem@verse#1{%
8960 \ifdim\wd#1>\new@poem@width
8961 \xdef\new@poem@width{\the\wd#1}%
8962 \ifdim\new@poem@width>\poem@width
8963 \xdef\poem@width{\new@poem@width}%
8964 \global\let\poem@needrun\relax
8965 \fi
8966 \fi
8967 \hbox to\poem@width{\unhbox#1}%
8968 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8969 }
8970 \def\poem@linebegin{\vadjust{\hskip\@flushglue\hskip\poemmarginskip\relax}
8971 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
8972 \def\poem@lineversesep{%
8973 \nobreak
8974 \hskip\z@ plus 1filll%
8975 \penalty600%
8976 \hskip\poemcolsepskip
8977 \hskip\z@ plus -2filll%
8978 \vadjust{}}%
8979 \nobreak
8980 \hskip\z@ plus 1filll%
8981 }
8982 \def\poem@lineparsebegin{%
8983 \halign\bgroup
8984 \global\setbox\verse@i=\hbox{%
8985 \let\@footnotetext\bidipoem@p@ftntext%
8986 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8987 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8988 \let\@xfootnotenext\bidipoem@p@xftntext%
8989 \let\@xfootnote\bidipoem@p@xfootnote%
8990 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8991 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8992 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8993 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8994 \ignorespaces##\unskip}&&
8995 \global\setbox\verse@ii=\hbox{%
8996 \let\@footnotetext\bidipoem@p@ftntext%
8997 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8998 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%

```



```

8999 \let\@xfootnotenext\bidipoem@p@xftntext%
9000 \let\@xfootnote\bidipoem@p@xfootnote%
9001 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9002 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9003 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9004 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9005 \ignorespaces##\unskip}
9006 \cr
9007 }
9008 \def\poem@lineparseend{%
9009 \crcr\egroup
9010 \vskip-\baselineskip
9011 }
9012 \def\traditionalpoem@cr{%
9013   \cr\poem@line
9014 }
9015 \newbox\verse@i
9016 \newbox\verse@ii
9017 \newif\ifpoem@started
9018
9019 \def\poem@line{%
9020 \poem@lineparseend
9021 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9022 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9023 \ifpoem@started
9024   \ifdim\wd\verse@ii>\z@\else
9025     \nopagebreak[3]
9026     \fi
9027     \leavevmode
9028     \poem@linebegin
9029     \poem@verse\verse@i
9030     \ifdim\wd\verse@ii>\z@
9031       \poem@lineversesep
9032       \poem@verse\verse@ii
9033       \fi
9034     \poem@lineend
9035 %   \nopagebreak
9036     \par
9037     \vskip\poemextrabaselineskip
9038 \fi
9039 \poem@lineparsebegin
9040 }
9041 \def\@traditionalpoem{%
9042 \stepcounter{poem@no}
9043   \ifnum\max@poem@no<\number\c@poem@no%
9044 \xdef\poem@width{\z@}%
9045   \else
9046 \xdef\poem@width{\poem@prop{poem@width}}%
9047 \fi
9048 \xdef\new@poem@width{\z@}%
9049 \global\versewidth=\poem@width
9050 \poemskip\par
9051 \begingroup
9052 \tabskip=\z@

```




```

9053 \parskip=\z@
9054 \parindent=\z@
9055 \parfillskip=\z@
9056 \rightskip=\z@
9057 \leftskip=\z@
9058 \widowpenalty=10000% No break between verses of the same line.
9059 \clubpenalty=10000% Same as above. Not really needed.
9060 \def\newblock{\hfil\poemblocksep\hfil\null}%
9061 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9062 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9063 \global\poem@startedfalse
9064 \csname poem@obeylines\endcsname
9065 \let\poem@obeylines\relax
9066 \poem@lineparsebegin
9067 }
9068 \def\@endtraditionalpoem{%
9069 \cr
9070 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9071 \noalign{%
9072 \skip0=\poemextrabaseskip
9073 \vskip-\skip0
9074 \vskip-\baseskip
9075 }%
9076 \fi\fi
9077 \poem@lineparseend
9078 \endgroup
9079 \par
9080 \vskip\baseskip
9081 \poemskip
9082 \ifdim\new@poem@width<\poem@width
9083 \global\let\poem@needrun\relax
9084 \fi
9085 \poem@write@aux{\poem@width@romannumeral\c@poem@no}{\new@poem@width}%
9086 \ifx\AtEndDocument\undefined\poem@finish\fi
9087 \@endparenv
9088 }
9089
9090
9091 \long\def\bidipoem@p@ftntext#1{%
9092 \edef\@temp{the\bidipoem@p@ftn\noexpand\footnotetext[the\csname c@\mpfn\endcsname]}%
9093 \global\bidipoem@p@ftn\expandafter{\@temp{#1}}}%
9094 \long\def\bidipoem@p@LTRftntext#1{%
9095 \edef\@tempxi{the\bidipoem@p@ftn\noexpand\LTRfootnotetext[the\csname c@\mpfn\endcsname]}%
9096 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9097 \long\def\bidipoem@p@RTLftntext#1{%
9098 \edef\@tempxii{the\bidipoem@p@ftn\noexpand\RTLfootnotetext[the\csname c@\mpfn\endcsname]}%
9099 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9100
9101 \long\def\bidipoem@p@xftntext[#1]#2{%
9102 \global\bidipoem@p@ftn\expandafter{the\bidipoem@p@ftn\footnotetext[#1]{#2}}%
9103
9104 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9105 \global\bidipoem@p@ftn\expandafter{the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}%
9106

```



```

9107 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9108   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}
9109
9110 \def\bidipoem@p@xfootnote[#1]{%
9111   \begingroup
9112     \csname c@\@mpfn\endcsname #1\relax
9113     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9114   \endgroup
9115   \@footnotemark\bidipoem@p@xftntext[#1]}
9116
9117 \def\bidipoem@p@xLTRfootnote[#1]{%
9118   \begingroup
9119     \csname c@\@mpfn\endcsname #1\relax
9120     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9121   \endgroup
9122   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9123
9124 \def\bidipoem@p@xRTLfootnote[#1]{%
9125   \begingroup
9126     \csname c@\@mpfn\endcsname #1\relax
9127     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9128   \endgroup
9129   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9130
9131
9132
9133 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9134 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9135 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9136 \def\poem@finish{%
9137 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9138 \ifx\poem@needrun\relax
9139 \PackageWarning{bidipoem}{Unjustified poem.  Rerun TeX to get poem right}%
9140 \global\let\poem@needrun\undefined
9141 \fi
9142 }
9143 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9144 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9145 \ifx\max@poem@no\undefined
9146   \def\max@poem@no{0}%
9147 \fi
9148 \newcommand{\poem@prop}[1]{\@nameuse{#1\romannumeral\c@poem@no}}
9149 \newcommand{\poem@write@aux}[2]{%
9150   \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9151   \@x
9152 }
9153 \def\@modernpoem{%
9154 \par
9155 \begingroup
9156 \parskip=\z@
9157 \parindent=\z@
9158 \def\[{ \@settab\@tabplus\ignorespaces}%
9159 \def\]{ \@tabminus\ignorespaces}%
9160 \def\newblock{\poemblocksep}%

```



```

9161 \let\newpoem@tabcr\@tabcr
9162 \def\modernpoem@par{% Redefine \par for possible \obeylines
9163   \ifpoem@started\else
9164     \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9165       \@stopfield
9166     \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9167     \@contfield
9168   \fi
9169 \fi
9170 \ifpoem@started\newpoem@tabcr\fi}%
9171 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9172 \global\poem@startedfalse
9173 \csname poem@obeylines\endcsname
9174 \let\poem@obeylines\relax
9175 \begin{tabbing}%
9176 }
9177 \def\@endmodernpoem{%
9178 \global\poem@startedfalse
9179 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9180   \@stopfield
9181   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9182   \@contfield
9183 \fi
9184 \ifpoem@started\else\let\@stopline\@stopfield\fi
9185 \end{tabbing}%
9186 \endgroup
9187 \par
9188 \if@nparlist \else
9189   \ifdim\lastskip >\z@
9190     \@tempskipa\lastskip \vskip -\lastskip
9191     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9192     \vskip\@tempskipa
9193   \fi
9194   \@endparenv
9195 \fi
9196 }
9197 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9198 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9199 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9200 \gdef\@startfield{%
9201 \global\setbox\@curfield\hbox\bgroup%
9202 \let\@footnotetext\bidipoem@p@ftntext%
9203 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9204 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9205 \let\@xfootnotenext\bidipoem@p@xftntext%
9206 \let\@xfootnote\bidipoem@p@xfootnote%
9207 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9208 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9209 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9210 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9211 \color@begingroup}
9212 \gdef\@stopfield{%
9213   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9214 \gdef\@contfield{%

```



```

9215 \global\setbox\@curfield\hbox\bgroup%
9216 \let\@footnotetext\bidipoem@p@ftntext%
9217 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9218 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9219 \let\@xfootnotenext\bidipoem@p@xftntext%
9220 \let\@xfootnote\bidipoem@p@xfootnote%
9221 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9222 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9223 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9224 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9225 \color@begingroup\unhbox\@curfield}

```

62 File boek3-xetex-bidi.def

```

9226 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9227 \renewenvironment{theindex}{%
9228   \if@twocolumn
9229     \@restonecolfalse
9230   \else
9231     \@restonecoltrue
9232   \fi
9233   \columnseprule \z@
9234   \columnsep 35\p@
9235   \twocolumn[\@makeschapterhead{\indexname}]%
9236   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9237   \thispagestyle{plain}\parindent\z@
9238   \parskip\z@ \@plus .3\p@\relax
9239   \let\item\@idxitem
9240 }{%
9241   \if@restonecol\onecolumn\else\clearpage\fi}
9242 \renewcommand*\head@style{%
9243   \interlinepenalty \@M
9244   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9245   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9246 \renewcommand*\@regtocline[3]{%
9247   \ifnum #1>\c@tocdepth
9248   \else
9249     \vskip\z@ \@plus .2\p@
9250     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9251       \if@RTL\rightskip\else\leftskip\fi\unitindent
9252       \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9253       \parfillskip\z@
9254       \@tempdima\unitindent
9255       \parindent\z@
9256       \leavevmode
9257       \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9258       \hskip 1em \nobreak{\slshape #3}\par
9259     }%
9260   \fi}
9261 \if@oldtoc
9262 \renewcommand*\l@part[2]{%
9263   \ifnum \c@tocdepth >-2\relax
9264     \addpenalty{-\@highpenalty}%
9265     \addvspace{2.25em \@plus\p@}%

```



```

9266 \beginngroup
9267 \setlength\@tempdima{3em}%
9268 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9269 \parfillskip -\@pnumwidth
9270 {\leavevmode
9271 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9272 \nobreak
9273 \global\@nobreaktrue
9274 \everypar{\global\@nobreakfalse\everypar{}}%
9275 \endgroup
9276 \fi}
9277 \else
9278 \renewcommand*\l@part{%
9279 \ifnum \c@tocdepth >-2\relax
9280 \addpenalty{-\@highpenalty}%
9281 \addvspace{2.25em \@plus \p@}%
9282 \@regtocline{0}%
9283 \fi}
9284 \fi
9285 \if@oldtoc
9286 \renewcommand*\l@chapter[2]{%
9287 \addpenalty{-\@highpenalty}%
9288 \vskip 1.0em \@plus \p@
9289 \setlength\@tempdima{1.5em}%
9290 \beginngroup
9291 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9292 \parfillskip -\@pnumwidth
9293 \leavevmode \bfseries
9294 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9295 \hskip -\if@RTL\rightskip\else\leftskip\fi
9296 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9297 \penalty\@highpenalty
9298 \endgroup}
9299 \else
9300 \renewcommand*\l@chapter{\@regtocline{0}}
9301 \fi
9302 \renewenvironment{abstract}{%
9303 \titlepage
9304 \null\vfil
9305 \section*\SectFont \abstractname}
9306 \noindent\ignorespaces}
9307 {\par\vfil\null\endtitlepage}
9308 \renewenvironment{thebibliography}[1]
9309 {\chapter*\bibname}%
9310 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9311 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9312 \bidi@thebibliography@font@hook%
9313 \list{\@biblabel{\@arabic\c@enumiv}}%
9314 {\settowidth\labelwidth{\@biblabel{#1}}%
9315 \leftmargin\labelwidth
9316 \advance\leftmargin\labelsep
9317 \@openbib@code
9318 \usecounter{enumiv}%
9319 \let\p@enumiv\@empty

```



```

9320         \renewcommand*\theenumiv{\@arabic\c@enumiv}}}%
9321         \sloppy\clubpenalty4000\widowpenalty4000%
9322         \sfcode`\.\@m}
9323     {\def\@noitemerr
9324       {\@latex@warning{Empty `thebibliography' environment}}}%
9325     \endlist}
9326 \renewcommand*\left@footnoterule{%
9327   \kern-3\p@
9328   \kern.5\baselineskip
9329   \hrule\@width\unitindent
9330   \kern.4\baselineskip
9331 }
9332 \renewcommand*\right@footnoterule{%
9333   \kern-3\p@
9334   \kern.5\baselineskip
9335   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9336   \kern.4\baselineskip}
9337 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9338 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9339 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9340 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9341 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9342 \renewcommand*\theequation{%
9343   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9344 \renewcommand*\thefigure{%
9345   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
9346 \renewcommand*\thetable{%
9347   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
9348 \renewcommand*\maketitle{%
9349   \begin{titlepage}%
9350     \let\footnotesize\small
9351     \let\right@footnoterule\relax
9352     \let\left@footnoterule\relax
9353     \let\textwidth\footnoterule\relax
9354     \let \footnote \thanks
9355     \long\def\@makefntext##1{\parindent\z@
9356       \def\labelitemi{\textendash}\@revlabeltrue
9357       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9358     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9359     \if@compatibility\setcounter{page}{0}\fi
9360     \null\vfil
9361     \vskip 60\p@
9362     \begin{center}%
9363       \TitleFont
9364       {\LARGE \def\\{\penalty -\@M}
9365         \if@allcaps
9366           \expandafter\uc@nothanks\@title\thanks\relax
9367         \else
9368           \@title
9369           \fi\par}%
9370     \vskip 3em%
9371     {\large
9372       \lineskip .75em \parindent\z@
9373       \begin{tabular}[t]{c}%

```



```

9374         \if@allcaps
9375         \expandafter\uc@authornothanks\@author\and\relax
9376         \else
9377         \@author
9378         \fi
9379     \end{tabular}\par}%
9380 \vskip 1.5em%
9381 {\large
9382     \if@allcaps
9383     \uppercase\expandafter{\@date}%
9384     \else
9385     \@date
9386     \fi\par}%
9387 \end{center}\par
9388 \@thanks
9389 \vfil\null
9390 \end{titlepage}%
9391 \setcounter{footnote}{0}%
9392 \global\let\thanks\relax
9393 \global\let\maketitle\relax
9394 \global\let\@thanks\@empty
9395 \global\let\@author\@empty
9396 \global\let\@title\@empty
9397 \global\let\@date\@empty
9398 \global\let\title\relax
9399 \global\let\author\relax
9400 \global\let\date\relax
9401 \global\let\and\relax
9402 }

```

63 File boek-xetex-bidi.def

```

9403 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9404 \renewenvironment{theindex}{%
9405     \if@twocolumn
9406         \@restonecolfalse
9407     \else
9408         \@restonecoltrue
9409     \fi
9410     \columnseprule \z@
9411     \columnsep 35\p@
9412     \twocolumn[\@makeschapterhead{\indexname}]%
9413     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9414     \thispagestyle{plain}\parindent\z@
9415     \parskip\z@ \@plus .3\p@\relax
9416     \let\item\@idxitem
9417 }{%
9418     \if@restonecol\onecolumn\else\clearpage\fi}
9419 \renewcommand*\head@style{%
9420     \interlinepenalty \@M
9421     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9422     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9423 \renewcommand*\@regtocline[3]{%
9424     \ifnum #1>\c@tocdepth

```



```

9425 \else
9426 \vskip\z@\@plus.2\p@
9427 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9428 \if@RTL\righskip\else\leftskip\fi\unitindent
9429 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
9430 \parfillskip\z@
9431 \@tempdima\unitindent
9432 \parindent\z@
9433 \leavevmode
9434 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
9435 \hskip 1em \nobreak{\slshape #3}\par
9436 }%
9437 \fi}
9438 \if@oldtoc
9439 \renewcommand*\l@part[2]{%
9440 \ifnum \c@tocdepth >-2\relax
9441 \addpenalty{-\@highpenalty}%
9442 \addvspace{2.25em \@plus\p@}%
9443 \begingroup
9444 \setlength\@tempdima{3em}%
9445 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
9446 \parfillskip -\@pnumwidth
9447 {\leavevmode
9448 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9449 \nobreak
9450 \global\@nobreaktrue
9451 \everypar{\global\@nobreakfalse\everypar{}}%
9452 \endgroup
9453 \fi}
9454 \else
9455 \renewcommand*\l@part{%
9456 \ifnum \c@tocdepth >-2\relax
9457 \addpenalty{-\@highpenalty}%
9458 \addvspace{2.25em \@plus \p@}%
9459 \@regtocline{0}%
9460 \fi}
9461 \fi
9462 \if@oldtoc
9463 \renewcommand*\l@chapter[2]{%
9464 \addpenalty{-\@highpenalty}%
9465 \vskip 1.0em \@plus\p@
9466 \setlength\@tempdima{1.5em}%
9467 \begingroup
9468 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
9469 \parfillskip -\@pnumwidth
9470 \leavevmode \bfseries
9471 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
9472 \hskip -\if@RTL\righskip\else\leftskip\fi
9473 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9474 \penalty\@highpenalty
9475 \endgroup}
9476 \else
9477 \renewcommand*\l@chapter{\@regtocline{0}}
9478 \fi

```




```

9479 \renewcommand*\left@footnoterule{%
9480   \kern-3\p@
9481   \kern.5\baselineskip
9482   \hrule\@width\unitindent
9483   \kern.4\baselineskip
9484 }
9485 \renewcommand*\right@footnoterule{%
9486   \kern-3\p@
9487   \kern.5\baselineskip
9488   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9489   \kern.4\baselineskip}
9490 \renewenvironment{abstract}{%
9491   \titlepage
9492   \null\vfil
9493   \section*{\SectFont \abstractname}
9494   \noindent\ignorespaces}
9495   {\par\vfil\null\endtitlepage}
9496 \renewenvironment{thebibliography}[1]
9497   {\chapter*{\bibname}%
9498     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9499     \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9500     \bidi@thebibliography@font@hook%
9501     \list{\@biblabel{\@arabic\c@enumiv}}{%
9502       {\settowidth\labelwidth{\@biblabel{#1}}%
9503         \leftmargin\labelwidth
9504         \advance\leftmargin\labelsep
9505         \@openbib@code
9506         \usecounter{enumiv}%
9507         \let\p@enumiv\@empty
9508         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9509     \sloppy\clubpenalty4000\widowpenalty4000%
9510     \sfcode\.\@m}
9511   {\def\@noitemerr
9512     {\@latex@warning{Empty `thebibliography' environment}}}%
9513   \endlist}
9514 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9515 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9516 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9517 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9518 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9519 \renewcommand*\theequation{%
9520   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9521 \renewcommand*\thefigure{%
9522   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9523 \renewcommand*\thetable{%
9524   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9525 \renewcommand*\maketitle{%
9526   \begin{titlepage}%
9527     \let\footnotesize\small
9528     \let\right@footnoterule\relax
9529     \let\left@footnoterule\relax
9530     \let\textwidth\footnoterule\relax
9531     \let \footnote \thanks
9532     \long\def\@makefntext##1{\parindent\z@

```



```

9533         \def\labelitemi{\textendash}\@revlabeltrue
9534         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9535     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9536     \if@compatibility\setcounter{page}{0}\fi
9537     \null\vfil
9538     \vskip 60\p@
9539     \begin{center}%
9540         \TitleFont
9541         {\LARGE \def\{\{\penalty -\@M}
9542             \if@allcaps
9543                 \expandafter\uc@nothanks\@title\thanks\relax
9544             \else
9545                 \@title
9546             \fi\par}%
9547     \vskip 3em%
9548     {\large
9549         \lineskip .75em \parindent\z@
9550         \begin{tabular}[t]{c}%
9551             \if@allcaps
9552                 \expandafter\uc@authornothanks\@author\and\relax
9553             \else
9554                 \@author
9555             \fi
9556         \end{tabular}\par}%
9557     \vskip 1.5em%
9558     {\large
9559         \if@allcaps
9560             \uppercase\expandafter{\@date}%
9561         \else
9562             \@date
9563         \fi\par}%
9564     \end{center}\par
9565     \@thanks
9566     \vfil\null
9567 \end{titlepage}%
9568 \setcounter{footnote}{0}%
9569 \global\let\thanks\relax
9570 \global\let\maketitle\relax
9571 \global\let\@thanks\@empty
9572 \global\let\@author\@empty
9573 \global\let\@title\@empty
9574 \global\let\@date\@empty
9575 \global\let\title\relax
9576 \global\let\author\relax
9577 \global\let\date\relax
9578 \global\let\and\relax
9579 }

```

64 File `bookest-xetex-bidi.def`

```

9580 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9581 \def\@makechapterhead#1{%
9582     \vspace*{20\p@}
9583     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont

```



```

9584 \ifnum \c@secnumdepth >\m@ne
9585 \if@mainmatter
9586 {\colorA\huge\scshape \@chapapp\space \thechapter}
9587 \par\nobreak
9588 \vskip 10\p@
9589 \fi
9590 \fi
9591 \interlinepenalty\@M
9592 {\colorB\hrule}
9593 \vskip 15\p@
9594 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9595 {\colorA\Huge \bfseries #1}\par\nobreak
9596 \if@RTL\end{flushleft}\else\end{flushright}\fi
9597 \vskip 5\p@
9598 {\colorB\hrule}
9599 \vskip 30\p@
9600 }}
9601 \def\@makeschapterhead#1{%
9602 \vspace*{20\p@}
9603 {\parindent \z@ \raggedright \normalfont
9604 {\colorB\hrule}
9605 \vskip 15\p@
9606 \begin{center}
9607 {\colorA\Huge \bfseries #1}\par\nobreak
9608 \end{center}
9609 \vskip 5\p@
9610 {\colorB\hrule}
9611 \vskip 30\p@
9612 }}

```

65 File book-xetex-bidi.def

```

9613 \ProvidesFile{book-xetex-bidi.def}[2025/09/04 v1.3 bidi adaptations for standard book class]
9614 \renewenvironment{theindex}
9615 {\if@twocolumn
9616 \@restonecolfalse
9617 \else
9618 \@restonecoltrue
9619 \fi
9620 \columnseprule \z@
9621 \columnsep 35\p@
9622 \twocolumn[\@makeschapterhead{\indexname}]%
9623 \@mkboth{\MakeUppercase\indexname}%
9624 {\MakeUppercase\indexname}%
9625 \thispagestyle{plain}\parindent\z@
9626 \parskip\z@ \@plus .3\p@\relax
9627 \let\item\@idxitem}
9628 {\if@restonecol\onecolumn\else\clearpage\fi}
9629 \IfClassLoadedF{bookest}{%
9630 \if@titlepage
9631 \renewcommand\maketitle{\begin{titlepage}%
9632 \let\footnotesize\small
9633 \let\right@footnoterule\relax
9634 \let\left@footnoterule\relax

```



```

9635 \let\textwidth@footnoterule\relax
9636 \let \footnote \thanks
9637 \let \LTRfootnote \LTRthanks
9638 \let \RTLfootnote \RTLthanks
9639 \null\vfil
9640 \vskip 60\p@
9641 \begin{center}%
9642   {\LARGE \@title \par}%
9643   \vskip 3em%
9644   {\large
9645     \lineskip .75em%
9646     \begin{tabular}[t]{c}%
9647       \@author
9648     \end{tabular}\par}%
9649     \vskip 1.5em%
9650     {\large \@date \par}%           % Set date in \large size.
9651 \end{center}\par
9652 \@thanks
9653 \vfil\null
9654 \end{titlepage}%
9655 \setcounter{footnote}{0}%
9656 \global\let\thanks\relax
9657 \global\let\LTRthanks\relax
9658 \global\let\RTLthanks\relax
9659 \global\let\maketitle\relax
9660 \global\let\@thanks\@empty
9661 \global\let\@author\@empty
9662 \global\let\@date\@empty
9663 \global\let\@title\@empty
9664 \global\let\title\relax
9665 \global\let\author\relax
9666 \global\let\date\relax
9667 \global\let\and\relax
9668 }
9669 \else
9670 \renewcommand\maketitle{\par
9671   \begin{group}
9672     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9673     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9674     \long\def\@makefntext#1{\parindent 1em\noindent
9675       \hb@xt@1.8em{%
9676         \hss\@textsuperscript{\normalfont\@thefnmark}}\##1}%
9677     \if@twocolumn
9678       \ifnum \col@number=\@ne
9679         \@maketitle
9680       \else
9681         \twocolumn[\@maketitle]%
9682       \fi
9683     \else
9684       \newpage
9685       \global\@topnum\z@ % Prevents figures from going at top of page.
9686       \@maketitle
9687     \fi
9688     \thispagestyle{plain}\@thanks

```



```

9689 \endgroup
9690 \setcounter{footnote}{0}%
9691 \global\let\thanks\relax
9692 \global\let\LTRthanks\relax
9693 \global\let\RTLthanks\relax
9694 \global\let\maketitle\relax
9695 \global\let\@maketitle\relax
9696 \global\let\@thanks\@empty
9697 \global\let\@author\@empty
9698 \global\let\@date\@empty
9699 \global\let\@title\@empty
9700 \global\let\title\relax
9701 \global\let\author\relax
9702 \global\let\date\relax
9703 \global\let\and\relax
9704 }
9705 \def\@maketitle{%
9706 \newpage
9707 \null
9708 \vskip 2em%
9709 \begin{center}%
9710 \let \footnote \thanks
9711 \let \LTRfootnote \LTRthanks
9712 \let \RTLfootnote \RTLthanks
9713 {\LARGE \@title \par}%
9714 \vskip 1.5em%
9715 {\large
9716 \lineskip .5em%
9717 \begin{tabular}[t]{c}%
9718 \@author
9719 \end{tabular}\par}%
9720 \vskip 1em%
9721 {\large \@date}%
9722 \end{center}%
9723 \par
9724 \vskip 1.5em}
9725 \fi}
9726 \IfPackageLoadedF{tocloft}{%
9727 \renewcommand*\l@part[2]{%
9728 \ifnum \c@tocdepth >-2\relax
9729 \addpenalty{-\@highpenalty}%
9730 \addvspace{2.25em \@plus\p}%
9731 \setlength\@tempdima{3em}%
9732 \begin{group
9733 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9734 \parfillskip -\@pnumwidth
9735 {\leavevmode
9736 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9737 \nobreak
9738 \global\@nobreaktrue
9739 \everypar{\global\@nobreakfalse\everypar{}}}%
9740 \end{group
9741 \fi}
9742 \renewcommand*\l@chapter[2]{%

```



```

9743 \ifnum \c@tocdepth >\m@ne
9744 \addpenalty{-\@highpenalty}%
9745 \vskip 1.0em \@plus\p@
9746 \setlength\@tempdima{1.5em}%
9747 \begingroup
9748 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9749 \parfillskip -\@pnumwidth
9750 \leavevmode \bfseries
9751 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9752 \hskip -\if@RTL\rightskip\else\leftskip\fi
9753 #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
9754 \penalty\@highpenalty
9755 \endgroup
9756 \fi}
9757 }
9758 \renewcommand\left@footnoterule{%
9759 \kern-3\p@
9760 \hrule\@width.4\columnwidth
9761 \kern2.6\p@}
9762 \renewcommand\right@footnoterule{%
9763 \kern-3\p@
9764 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9765 \kern2.6\p@}
9766 \renewcommand\theequation
9767 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9768 \renewcommand \thefigure
9769 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9770 \renewcommand \thetable
9771 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9772 \renewcommand \thechapter {\@arabic\c@chapter}
9773 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9774 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9775 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9776 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9777 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9778 \def\@makechapterhead#1{%
9779 \vspace*{50\p@}%
9780 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9781 \ifnum \c@secnumdepth >\m@ne
9782 \if@mainmatter
9783 \huge\bfseries \@chapapp\space \thechapter
9784 \par\nobreak
9785 \vskip 20\p@
9786 \fi
9787 \fi
9788 \interlinepenalty\@M
9789 \Huge \bfseries #1\par\nobreak
9790 \vskip 40\p@
9791 }}
9792 \def\@makeschapterhead#1{%
9793 \vspace*{50\p@}%
9794 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9795 \normalfont
9796 \interlinepenalty\@M

```



```

9797 \Huge \bfseries #1\par\nobreak
9798 \vskip 40\p@
9799 }}
9800 \renewcommand\backmatter{%
9801 \if@openright
9802 \cleardoublepage
9803 \else
9804 \clearpage
9805 \fi
9806 \@mainmatterfalse}
9807 \IfPackageLoadedF{natbib}{%
9808 \renewenvironment{thebibliography}[1]
9809 {\chapter*{\bibname}%
9810 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9811 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9812 \bidi@thebibliography@font@hook%
9813 \list{\@biblabel{\@arabic\c@enumiv}}{%
9814 \settowidth\labelwidth{\@biblabel{#1}}%
9815 \leftmargin\labelwidth
9816 \advance\leftmargin\labelsep
9817 \@openbib@code
9818 \usecounter{enumiv}%
9819 \let\p@enumiv\@empty
9820 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9821 \sloppy
9822 \clubpenalty4000
9823 \@clubpenalty \clubpenalty
9824 \widowpenalty4000%
9825 \sfcode\.\@m}
9826 {\def\@noitemerr
9827 {\@latex@warning{Empty `thebibliography' environment}}}%
9828 \endlist}
9829 }

```

66 File breqn-xetex-bidi.def

```

9830 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9831 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9832 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9833 \if@noskipsec \leavevmode \fi
9834 \if@inlabel \leavevmode \global\@inlabelfalse \fi
9835 \if\eq@group\else\eq@prelim\fi
9836 \setkeys{breqn}{#1}%
9837 \the\eqstyle
9838 \eq@setnumber
9839 \begingroup
9840 \eq@setup@a
9841 \eq@startup
9842 }
9843 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9844 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9845 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9846 \global\let\GRP@label\@empty
9847 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@

```



```

9848 \global\grp@linewidth\z@\global\grp@wdNum\z@
9849 \global\let\grp@eqs@numbered@False
9850 \global\let\grp@aligned@True
9851 \global\let\grp@shiftnumber@False
9852 \eq@prelim
9853 \setkeys{breqn}{#1}%
9854 \if\grp@hasNumber \grp@setnumber \fi
9855 }
9856 \def\@dseries[#1]{\ifRTL\@RTLfalse\fi%
9857 \let\display@setup\dseries@display@setup
9858 % Question: should this be the default for dseries???
9859 \global\eq@wdCond\z@
9860 \@dmath[layout={M},#1]%
9861 \mathsurround\z@\@math \penalty\@Mi
9862 \let\endmath\ends@math
9863 \def\premath{%
9864 \ifdim\lastskip<.3em \unskip
9865 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9866 }%
9867 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9868 \ignorespaces
9869 }
9870 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9871 \renewenvironment{dsuspend}{%
9872 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9873 \parshape 1 \displayindent \displaywidth\relax
9874 \hsize=\columnwidth \noindent\ignorespaces
9875 }{%
9876 \par\egroup
9877 \global\setbox\GRP@box\vbox{%
9878 \hbox{\copy\EQ@box\top{\unvbox\EQ@box}}%
9879 \unvbox\GRP@box
9880 }%
9881 \global\GRP@queue\@xp{the\GRP@queue
9882 \@elt{\let\eq@isIntertext@True}%
9883 }%
9884 }

```

67 File cals-xetex-bidi.def

```

9885 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeTeX]
9886 \renewcommand\cals@setup@alignment[1]{%
9887 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9888 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9889 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9890 }
9891 \renewcommand\cals@table@alignment{\ifRTLtab r\else l\fi}
9892 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9893 \ifRTLtab\cals@activate@rtl\fi
9894 \let\cals@thead@tokens=\relax
9895 \let\cals@tfoot@tokens=\relax
9896 \let\cals@tbody@tokens=\relax
9897 \cals@tfoot@height=0pt \relax
9898 \let\cals@last@context=n%

```




```

9899 \let\cals@current@context=b%
9900 \parindent=0pt \relax%
9901 \cals@setup@alignment{#1}%
9902 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsz%
9903 %% Alignment inside is independent on center/flushright outside
9904 \parfillskip=0pt plus1fil\relax
9905 \let\cals@borderL=\relax
9906 \let\cals@borderR=\relax
9907 \let\cals@borderT=\relax
9908 \let\cals@borderB=\relax
9909 \setbox\cals@backup@row=\box\voidb@x\relax
9910 \cals@AtBeginTable
9911 }{% End of the table
9912 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9913 \renewcommand\alignL{%
9914 \if@RTLtab
9915   \cals@vfillAdd\cals@paddingL
9916 \else
9917   \cals@vfillDrop\cals@paddingL
9918 \fi
9919 \cals@vfillDrop\cals@paddingR}
9920 \renewcommand\alignR{%
9921 \if@RTLtab
9922   \cals@vfillDrop\cals@paddingL
9923 \else
9924   \cals@vfillAdd\cals@paddingL
9925 \fi
9926 \cals@vfillDrop\cals@paddingR}

```

68 File caption-xetex-bidi.def

```

9927 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package]
9928 \let\@makecaption\caption@makecaption

```

69 File caption3-xetex-bidi.def

```

9929 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package]
9930 \renewcommand*\caption@par{%
9931   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

70 File colortbl-xetex-bidi.def

```

9932 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package]
9933 \def\CT@setup{%
9934   \@tempdimb\col@sep
9935   \@tempdimc\col@sep
9936   \def\CT@color{%
9937     \global\let\CT@do@color\CT@@do@color
9938     \bidicolor}}
9939 \def\@classz{\@classx
9940   \@tempcnta \count@
9941   \prepnext@tok
9942 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9943   \@addtopreamble{\if@RTLtab\beginL\fi%

```



```

9944 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9945 \ifcase \@chnum
9946 \hskip\stretch{.5}\kern\z@
9947 \d@llarbegin
9948 \insert@column
9949 \d@llarend\hskip\stretch{.5}\or
9950 \d@llarbegin \insert@column \d@llarend \hfill \or
9951 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9952 $\vcenter
9953 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9954 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9955 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9956 \fi
9957 \if@RTLtab\endR\fi\egroup\egroup
9958 \begingroup
9959 \CT@setup
9960 \CT@column@color
9961 \CT@row@color
9962 \CT@cell@color
9963 \CT@do@color
9964 \endgroup
9965 \@tempdima\ht\z@
9966 \advance\@tempdima\minrowclearance
9967 \vrule\@height\@tempdima\@width\z@
9968 \unhbox\z@\if@RTLtab\endL\fi}%
9969 \prepnext@tok}

```

71 File color-xetex-bidi.def

```

9970 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
9971 \long\def\color@b@x#1#2#3{%
9972 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9973 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9974 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9975 \dimen@ \dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9976 \ifx\color@b@x\color@block\wd\z@\ht\z@\dp\z@}%
9977 \box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
9978 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9979 \DeclareRobustCommand\color{%
9980 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\ifnextchar[\@undeclaredcolor\@declaredcolor}%
9981 \def\@declaredcolor#1{%
9982 \@ifundefined{\string\color @#1}%
9983 {\color@error{`#1'}}%
9984 {\expandafter\let\expandafter\current@color
9985 \csname\string\color @#1\endcsname
9986 \set@color}%
9987 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9988 \def\@undeclaredcolor[#1]#2{%
9989 \@ifundefined{color@#1}%
9990 {\color@error{model `#1'}}%
9991 {\csname color@#1\endcsname\current@color{#2}%
9992 \set@color}%
9993 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9994 \DeclareRobustCommand\bidicolor{%

```



```

9995 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
9996 \def\@bidiundeclaredcolor[#1]#2{%
9997 \@ifundefined{color@#1}%
9998 {\c@lor@error{model `#1'}}%
9999 {\csname color@#1\endcsname\current@color{#2}%
10000 \set@color}%
10001 \ignorespaces}
10002 \def\@bidideclaredcolor#1{%
10003 \@ifundefined{\string\color @#1}%
10004 {\c@lor@error{`#1'}}%
10005 {\expandafter\let\expandafter\current@color
10006 \csname\string\color @#1\endcsname
10007 \set@color}%
10008 \ignorespaces}
10009 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10010 \def\color@fbbox#1#2#3{%
10011 \color@b@x{\fbboxsep\z@\bidicolor#1{#2}\fbbox}{\bidicolor#1{#3}}}
10012 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

72 File combine-xetex-bidi.def

```

10013 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
10014 \renewcommand{\c@ll@chapsecii}[2]{%
10015 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10016 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10017 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10018 }
10019 \renewcommand{\c@ll@chapseci}{%
10020 \setlength\@tempdima{0em}%
10021 \begingroup
10022 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10023 \parfillskip -\@pnumwidth
10024 \leavevmode
10025 }
10026 \renewenvironment{tocindent}[1]{%
10027 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

73 File crop-xetex-bidi.def

```

10028 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeT
10029 \IfClassLoadedT{memoir}{\endinput}
10030 \RequirePackage{graphicx}
10031 \renewcommand*{\CROP@ulc}{%
10032 \if@RTLmain%
10033 \begin{picture}(0,0)
10034 \unitlength\p@\thinlines
10035 \put(-40,0){\circle{10}}
10036 \put(-30,-5){\line(0,1){10}}
10037 \put(-35,0){\line(1,0){30}}
10038 \put(-10,30){\circle{10}}
10039 \put(-5,30){\line(1,0){10}}
10040 \put(0,35){\line(0,-1){30}}
10041 \end{picture}%
10042 \else%

```



```

10043 \begin{picture}(0,0)
10044 \unitlength\p@\thinline
10045 \put(-30,0){\circle{10}}
10046 \put(-30,-5){\line(0,1){10}}
10047 \put(-35,0){\line(1,0){30}}
10048 \put(0,30){\circle{10}}
10049 \put(-5,30){\line(1,0){10}}
10050 \put(0,35){\line(0,-1){30}}
10051 \end{picture}%
10052 \fi%
10053 }
10054 \renewcommand*\CROP@urc{%
10055 \if@RTLmain%
10056 \begin{picture}(0,0)
10057 \unitlength\p@\thinline
10058 \put(20,0){\circle{10}}
10059 \put(30,-5){\line(0,1){10}}
10060 \put(35,0){\line(-1,0){30}}
10061 \put(-10,30){\circle{10}}
10062 \put(-5,30){\line(1,0){10}}
10063 \put(0,35){\line(0,-1){30}}
10064 \end{picture}%
10065 \else%
10066 \begin{picture}(0,0)
10067 \unitlength\p@\thinline
10068 \put(30,0){\circle{10}}
10069 \put(30,-5){\line(0,1){10}}
10070 \put(35,0){\line(-1,0){30}}
10071 \put(0,30){\circle{10}}
10072 \put(-5,30){\line(1,0){10}}
10073 \put(0,35){\line(0,-1){30}}
10074 \end{picture}%
10075 \fi%
10076 }
10077 \renewcommand*\CROP@llc{%
10078 \if@RTLmain%
10079 \begin{picture}(0,0)
10080 \unitlength\p@\thinline
10081 \put(-40,0){\circle{10}}
10082 \put(-30,-5){\line(0,1){10}}
10083 \put(-35,0){\line(1,0){30}}
10084 \put(-10,-30){\circle{10}}
10085 \put(-5,-30){\line(1,0){10}}
10086 \put(0,-35){\line(0,1){30}}
10087 \end{picture}%
10088 \else%
10089 \begin{picture}(0,0)
10090 \unitlength\p@\thinline
10091 \put(-30,0){\circle{10}}
10092 \put(-30,-5){\line(0,1){10}}
10093 \put(-35,0){\line(1,0){30}}
10094 \put(0,-30){\circle{10}}
10095 \put(-5,-30){\line(1,0){10}}
10096 \put(0,-35){\line(0,1){30}}

```



```

10097 \end{picture}%
10098 \fi%
10099 }
10100 \renewcommand*\CROP@lrc{%
10101 \if@RTLmain%
10102 \begin{picture}(0,0)
10103 \unitlength\p@\thinline
10104 \put(20,0){\circle{10}}
10105 \put(30,-5){\line(0,1){10}}
10106 \put(35,0){\line(-1,0){30}}
10107 \put(-10,-30){\circle{10}}
10108 \put(-5,-30){\line(1,0){10}}
10109 \put(0,-35){\line(0,1){30}}
10110 \end{picture}%
10111 \else%
10112 \begin{picture}(0,0)
10113 \unitlength\p@\thinline
10114 \put(30,0){\circle{10}}
10115 \put(30,-5){\line(0,1){10}}
10116 \put(35,0){\line(-1,0){30}}
10117 \put(0,-30){\circle{10}}
10118 \put(-5,-30){\line(1,0){10}}
10119 \put(0,-35){\line(0,1){30}}
10120 \end{picture}%
10121 \fi%
10122 }
10123 \@ifpackagewith{crop}{cam}{%
10124 \CROP@except{cam}%
10125 }{}

```

74 File cutwin-xetex-bidi.def

```

10126 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10127 \renewcommand*\c@twcompctr}[2]{%
10128 \def\c@twfirst{1}
10129 \loop\advance\c@twinlines\m@ne
10130 \setbox\c@twslicea=\vsplit#1 to\baselineskip
10131 \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10132 \c@twprune{\c@twslicea}{\c@twlftside}%
10133 \c@twprune{\c@twsliceb}{\c@twrtside}%
10134 \ifnum\c@twfirst=\@ne
10135 \setbox#2=\vbox{\unvbox#2\hbox
10136 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10137 \else
10138 \setbox#2=\vbox{\unvbox#2\hbox
10139 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box
10140 \fi
10141 \def\c@twfirst{2}
10142 \ifnum\c@twinlines>\z@\repeat}
10143 \renewcommand*\c@twcompoddctr}[2]{%
10144 \def\c@twrounds{1}
10145 \def\c@twfirst{1}
10146 \@for\c@twlspec:=\c@twb\do{%
10147 \ifnum\c@twrounds=1

```



```

10148     \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10149     \c@twprune{\c@twslicea}{\c@twlspec}%
10150     \def\c@twrounds{2}
10151   \else
10152     \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10153     \c@twprune{\c@twsliceb}{\c@twlspec}%
10154     \ifnum\c@twfirst=1
10155       \setbox#2=\vbox{\unvbox#2\hbox
10156         to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\ifRTL\
10157       \def\c@twfirst{2}
10158     \else
10159       \setbox#2=\vbox{\unvbox#2\hbox
10160         to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\ifRTL\box\c@twslicea\el
10161     \fi
10162     \def\c@twrounds{1}
10163   \fi}}

```

75 File cuted-xetex-bidi.def

```

10164 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10165
10166 \def\RTL@outputdblcol{%
10167   \if@firstcolumn
10168     \global\@firstcolumnfalse
10169     \global\setbox\@leftcolumn\copy\@outputbox
10170     \splitmaxdepth\maxdimen
10171     \vbadness\maxdimen
10172     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10173     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10174     \toks@\expandafter{\topmark}%
10175     \xdef\@firstcoltopmark{\the\toks@}%
10176     \toks@\expandafter{\splitfirstmark}%
10177     \xdef\@firstcolfirstmark{\the\toks@}%
10178     \ifx\@firstcolfirstmark\@empty
10179       \global\let\@setmarks\relax
10180     \else
10181       \gdef\@setmarks{%
10182         \let\firstmark\@firstcolfirstmark
10183         \let\topmark\@firstcoltopmark}%
10184     \fi
10185   \else
10186     \global\@firstcolumntrue
10187     \setbox\@outputbox\vbox{%
10188       \hb@xt@\textwidth{%
10189         \hskip \columnwidth
10190         \hfil
10191         {\normalcolor\vrule \@width\columnseprule}%
10192         \hfil
10193         \hb@xt@\columnwidth{%
10194           \bidi@firstcolumn@status@write%
10195           \box\@leftcolumn \hss}%
10196         \hskip -\textwidth
10197         \hb@xt@\columnwidth{%
10198           \bidi@lastcolumn@status@write%

```



```

10199     \box\@outputbox \hss}%
10200     \hskip \columnsep
10201     \hskip \columnwidth }}%
10202 \ifvoid\hold@viper
10203 \else
10204     \setbox\@outputbox \vbox to\textheight{%
10205                                     \box\hold@viper
10206                                     \box\@outputbox
10207                                     \vss
10208                                     }%
10209 \fi
10210 \@combinedblfloats
10211 \setmarks
10212 \outputpage
10213 \begingroup
10214     \dblfloatplacement
10215     \startdblcolumn
10216     \@whiles\if@fcolmade \fi{\@outputpage
10217 \startdblcolumn}%
10218 \ifvoid\@viper
10219 \else
10220     \global\setbox\@viper\vbox{%
10221                 \vskip-\stripsep
10222                 \unvbox\@viper
10223                 }%
10224     \@viperoutput
10225 \fi
10226 \endgroup
10227 \fi}%
10228
10229 \def\LTR@outputdblcol{%
10230 \if@firstcolumn
10231     \global\@firstcolumnfalse
10232     \global\setbox\@leftcolumn\copy\@outputbox
10233     \splitmaxdepth\maxdimen
10234     \vbadness\maxdimen
10235     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10236     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10237     \toks@\expandafter{\topmark}%
10238     \xdef\@firstcoltopmark{\the\toks@}%
10239     \toks@\expandafter{\splitfirstmark}%
10240     \xdef\@firstcolfirstmark{\the\toks@}%
10241     \ifx\@firstcolfirstmark\@empty
10242         \global\let\setmarks\relax
10243     \else
10244         \gdef\setmarks{%
10245             \let\firstmark\@firstcolfirstmark
10246             \let\topmark\@firstcoltopmark}%
10247 \fi
10248 \else
10249     \global\@firstcolumntrue
10250     \setbox\@outputbox\vbox{%
10251         \hb@xt@\textwidth{%
10252             \hb@xt@\columnwidth{%

```



```

10253      \bidi@firstcolumn@status@write%
10254      \box\@leftcolumn \hss}%
10255      \hfil
10256      {\normalcolor\vrule \@width\columnseprule}%
10257      \hfil
10258      \hb@xt@\columnwidth{%
10259      \bidi@lastcolumn@status@write%
10260      \box\@outputbox \hss}}}%
10261 \ifvoid\hold@viper
10262 \else
10263   \setbox\@outputbox \vbox to\textheight{%
10264                       \box\hold@viper
10265                       \box\@outputbox
10266                       \vss
10267                       }%
10268 \fi
10269 \@combinedblfloats
10270 \setmarks
10271 \outputpage
10272 \beginngroup
10273   \@dblfloatplacement
10274   \@startdblcolumn
10275   \@whiles\if@fcolmade \fi{\@outputpage
10276   \@startdblcolumn}}%
10277   \ifvoid\@viper
10278   \else
10279     \global\setbox\@viper\vbox{%
10280         \vskip-\stripsep
10281         \unvbox\@viper
10282         }%
10283     \@viperoutput
10284   \fi
10285 \endgroup
10286 \fi}%
10287
10288 \def\@addviper{%
10289   \@insertfalse
10290   \def\var@@thecol@num{2}%
10291   \if@firstcolumn
10292     \def\var@@thecol@num{1}%
10293     \@reqcolroom=.5\@pageht
10294     \ht@viper=\@reqcolroom
10295     \advance\@reqcolroom by\ht@viper
10296     \advance\@reqcolroom by\stripsep
10297   \else
10298     \@reqcolroom=\@colht
10299     \advance\@reqcolroom by\@pageht
10300     \ht@viper.5\@reqcolroom
10301     \@reqcolroom=\ht@viper
10302     \advance\@reqcolroom by\ht@viper
10303     \advance\@reqcolroom by\stripsep
10304     \global\setbox\@holdpg\vbox{%
10305         \setbox\cuted@tempbox@a\vbox{%
10306           \aftergroup\unvbox

```




```

10307         \unvcopy\@leftcolumn
10308         \unskip\unkern\unpenalty
10309         \setbox\@tempboxa\lastbox
10310         \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
10311             %% keeps lastbox
10312             \aftergroup\@leftcolumn
10313         \else
10314             %% removes lastbox
10315             \aftergroup\cuted@@tempbox@a
10316         \fi
10317     }%
10318     \unskip\unkern\unpenalty
10319     \on@stripcols@break
10320     \the\At@ViperColsBreak
10321     \unvbox\@holdpg
10322 }%
10323 \global\At@ViperColsBreak{}%
10324 \ht@viper=.5\ht\@holdpg
10325 \ifdim\ht@viper>\@colht
10326     \ht@viper=\@colht
10327 \fi
10328 \fi
10329 %%
10330 %% calculations for breaking
10331 %%
10332 \ifvoid\hold@viper
10333     \ht@hold@viper=\z@
10334 \else
10335     \ht@hold@viper=\ht\hold@viper
10336 \fi
10337 \cuted@@tempdim@b\ht@viper
10338 \set@split@topskip@to\topskip
10339 \loop
10340     \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10341     \setbox\cuted@@varbox@a\copy\@holdpg
10342     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10343     %% set leftcolumn boxes
10344     \setbox\cuted@@tempbox@c\ vbox{\unvbox\cuted@@tempbox@a}%
10345     \setbox\cuted@@tempbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10346     \xdef\var@@leftcolumn@badness{\the\badness}%
10347     %% set rightcolumn boxes
10348     \setbox\cuted@@varbox@c\ vbox{\unvbox\cuted@@varbox@a}%
10349     \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10350     \xdef\var@@rightcolumn@badness{\the\badness}%
10351     %% analyzing split goodness
10352     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10353     \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10354     \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10355     \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10356     \cuted@@wlog@debug{CUTED [----]}%
10357     ^^JLeft: \the\ht\cuted@@tempbox@c
10358     +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10359     ^^JRight: \the\ht\cuted@@varbox@c
10360     +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness

```



```

10361      ^^JSplit: \the\cuted@@tempdim@b
10362      ^^JExtra height: \the\cuted@@tempdim@spread
10363    }%
10364    \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10365      \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10366        \cuted@@tempdim@spread=\z@
10367      \fi
10368    \fi
10369    \ifdim\cuted@@tempdim@spread<\z@
10370      \if@left@column@spread
10371        \if@right@column@shrink
10372          \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10373            \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10374          \else
10375            \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10376          \fi
10377          \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10378          \ifnum\badness<\cuted@@column@badness
10379            \cuted@@tempdim@b=\cuted@@tempdim@a
10380            \cuted@@tempdim@spread=\z@
10381          \fi
10382          \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
10383            \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10384            \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
10385          \else
10386            \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10387              \unvcopy\cuted@@tempbox@c
10388            }%
10389            \ifnum\badness<\cuted@@column@badness
10390              \@tempdimb=\ht\cuted@@varbox@c
10391              \cuted@@tempdim@spread=\z@
10392            \fi
10393            \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h
10394            \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10395              \unvcopy\cuted@@varbox@c
10396            }%
10397            \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\h
10398          \fi
10399        \else
10400          \if@right@column@shrink
10401            \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10402              \else
10403                \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10404                \cuted@@tempdim@spread=\z@
10405              \fi
10406            \fi
10407          \fi
10408        \else
10409          \ifdim\cuted@@tempdim@spread>\z@
10410            \ifdim\dimexpr\@tempdimb+\p@\relax>\@colht
10411              \cuted@@tempdim@b=\@colht
10412              \cuted@@tempdim@spread=\z@
10413            \fi
10414          \fi

```



```

10415     \fi
10416 \ifdim\cuted@@tempdim@spread<\z@
10417     \advance\cuted@@tempdim@b 1\p@
10418 \repeat
10419 \wlog{CUTED [- LAST -]%
10420     ^^JExtra skip:\the\cuted@@tempdim@spread
10421     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10422     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10423     ^^JSplit:\saved@tempdimb
10424     ^^JOutput:\the\cuted@@tempdim@b
10425     ^^JPageshrink:\the\pageshrink
10426     ^^JPagestretch:\the\pagestretch
10427     ^^J@colht:\the\@colht
10428 }%
10429 %%
10430 %% final construction of the cuted page above strip
10431 %%
10432 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10433 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10434     \cuted@@tempdim@a=\dimexpr
10435         \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10436         \relax
10437     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10438     \unvbox\cuted@@tempbox@c
10439     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10440     \else
10441         \vskip-\cuted@@tempdim@spread
10442     \fi
10443     \prevdepth\z@
10444     \hrule\@height\cuted@@page@rule width\textwidth
10445     \vskip-\cuted@@page@rule
10446     \ifdim\cuted@@tempdim@a>\z@
10447         \if@left@column@spread
10448         \else
10449             \vss
10450         \fi
10451     \else
10452         \ifdim\cuted@@tempdim@a<\z@
10453             \if@left@column@shrink
10454             \else
10455                 \vss
10456             \fi
10457         \fi
10458     \fi
10459 }%
10460 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10461     ^^JCUTED [leftcolumn badness]: \number\badness
10462 }%
10463 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10464     \cuted@@tempdim@a=\dimexpr
10465         \cuted@@tempdim@b-\ht\@holdpg
10466         \relax
10467     \unvbox\@holdpg
10468     \ifdim\cuted@@tempdim@a>\z@

```



```

10469         \if@right@column@spread
10470         \else
10471             \vss
10472         \fi
10473     \else
10474         \ifdim\cuted@@tempdim@a<\z@
10475             \if@right@column@shrink
10476             \else
10477                 \vss
10478             \fi
10479         \fi
10480     \fi
10481 }%
10482 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10483 \setbox\cuted@@tempbox@var\vbox{%
10484     \hb@xt@\textwidth{%
10485         \if@RTLmain
10486             \hskip \columnwidth
10487             \hfil
10488             {\normalcolor\vrule \@width\columnseprule}%
10489             \hfil
10490             \hb@xt@\columnwidth{%
10491                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10492                 \hss
10493             }%
10494             \hskip -\textwidth
10495             \hb@xt@\columnwidth{%
10496                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10497                 \hss
10498             }%
10499             \hskip \columnsep
10500             \hskip \columnwidth
10501         \else
10502             \hb@xt@\columnwidth{%
10503                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10504                 \hss
10505             }%
10506             \hfil
10507             {\normalcolor\vrule \@width\columnseprule}%
10508             \hfil
10509             \hb@xt@\columnwidth{%
10510                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10511                 \hss
10512             }%
10513         \fi
10514     }%
10515 }%
10516 %%
10517 %% finalize cuted page
10518 %%
10519 \ifvoid\hold@viper
10520     \global\setbox\hold@viper\vbox{%
10521         \unvbox\cuted@@tempbox@var
10522         \penalty\interlinepenalty

```



```

10523         \vskip\stripsep
10524         \the\preCutedStrip
10525         \ifnum\outputpenalty<-\@Mii
10526             \vskip -\parskip
10527         \fi
10528         \outputpenalty\z@
10529     }%
10530 \else
10531     \global\setbox\hold@viper\vbox{%
10532         \unvbox\hold@viper
10533         \cuted@@tempbox@var
10534         \penalty\interlinepenalty
10535         \vskip\stripsep
10536         \the\preCutedStrip
10537         \ifnum\outputpenalty<-\@Mii
10538             \vskip -\parskip
10539         \fi
10540         \outputpenalty\z@
10541     }%
10542 \fi
10543 \ifdim\@colht>\@reqcolroom
10544     \global\setbox\hold@viper\vbox{%
10545         \unvbox\hold@viper
10546         \box\@viper
10547         \penalty\interlinepenalty
10548         \the\postCutedStrip
10549         \vskip\stripsep
10550         \ifnum\outputpenalty<-\@Mii
10551             \vskip -\parskip
10552         \fi
10553         \outputpenalty\z@
10554     }%
10555     \@inserttrue
10556     \global\@firstcolumntrue
10557     \advance\ht@hold@viper by-\ht\hold@viper
10558     \global\advance\@colht by\ht@hold@viper
10559     \ifdim\@colht<2.5\baselineskip
10560         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10561             too tall on page \thepage (\var@@thecol@num column)}}%
10562         \@emptycol
10563         \if@firstcolumn
10564         \else
10565             \@emptycol
10566         \fi
10567         \global\@lastvipertrue
10568 \else
10569     \global\vsizel\@colht
10570     \global\@colroom\@colht
10571     \check@floats\cuted@@tempdim@a
10572     \ifdim\cuted@@tempdim@a>\z@
10573         \global\advance\@colroom by-\cuted@@tempdim@a
10574     \fi
10575     \ifdim\@colroom<\z@
10576         \global\@colroom1\p@

```



```

10577         \ifdim\cuted@@tempdim@a>\@colht
10578         \latex@warning@no@line{TOP and/or BOT FLOAT's
10579         to large on \thepage (\var@@thecol@num column)}}%
10580         \fi
10581         \@emptycol
10582         \if@firstcolumn
10583         \else
10584         \@emptycol
10585         \fi
10586         \global\@lastvipertrue
10587     \fi
10588 \fi
10589 \fi
10590 \if@insert
10591 \else
10592     \advance\ht@hold@viper by-\ht\hold@viper
10593     \global\advance\@colht by\ht@hold@viper
10594     \global\setbox\hold@viper\ vbox{%
10595         \unvbox\hold@viper
10596         \set@split@topskip@to{\z@ plus2\p@}%
10597         \vsplit\@viper to\@colht
10598         \vss
10599     }%
10600     \vbox{%
10601         \global\@firstcolumnfalse
10602         \newpage
10603     \fi
10604 }

```

76 File cvthemebidicasual.sty

```

10605 \NeedsTeXFormat{LaTeX2e}
10606 \ProvidesPackage{cvthemebidicasual}
10607 \DeclareOption{blue}{}
10608 \newif\if@colourorange\@colourorangepalse
10609 \DeclareOption{orange}{\@colourorangepalse}
10610 \newif\if@colourgreen\@colourgreenfalse
10611 \DeclareOption{green}{\@colourgreentrue}
10612 \newif\if@colourred\@colourredfalse
10613 \DeclareOption{red}{\@colourredtrue}
10614 \newif\if@colourgrey\@colourgreyfalse
10615 \DeclareOption{grey}{\@colourgreytrue}
10616 \DeclareOption*{
10617     \PackageWarning{cvthemebidicasual}{Unknown option '\CurrentOption'}}
10618 \ExecuteOptions{colour}
10619 \ProcessOptions\relax
10620 \renewcommand*{\listitemsymbol}{\textbullet}
10621 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10622 \familynamecolour{808080}
10623 \firstnamecolour{A9A9A9}
10624 \quotecolour{696969}
10625 \addresscolour{696969}
10626 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10627 \sectiontitlecolour{1E90FF}

```



```

10628 \subsectioncolour{4682B4}
10629 \definecolor{rulecolour}{gray}{0.6}
10630 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10631 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10632 \if@colourorange
10633   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10634   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10635   \sectiontitlecolour{FF8C00}
10636   \subsectioncolour{FF8C00}
10637   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10638   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10639 \if@colourgreen
10640   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10641   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10642   \sectiontitlecolour{008000}
10643   \subsectioncolour{008000}
10644   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10645   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10646 \if@coloured
10647   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10648   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10649   \sectiontitlecolour{FF0000}
10650   \subsectioncolour{FF0000}
10651   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10652   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10653 \if@colougrey
10654   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10655   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10656   \sectiontitlecolour{808080}
10657   \subsectioncolour{808080}
10658   \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10659   \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10660 \renewcommand*{\ttdefault}{pcr}
10661 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10662 \renewcommand*{\familynamefont}{\firstnamefont}
10663 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10664 \renewcommand*{\quoteont}{\large\slshape}
10665 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10666 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10667 \renewcommand*{\maketitle}{%
10668   {%
10669     \ifthenelse{\isundefined{\@photo}}{%
10670       {%
10671         {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10672         \hfill%
10673         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10674         {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10675       \ifthenelse{\isundefined{\@quote}}{%
10676         {%
10677           \centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10678         }%
10679       \newif\iffirstfooterelement\@firstfooterelementtrue
10680       \providecommand*{\footersymbol}{%
10681       \renewcommand*{\footersymbol}{%

```



```

10682 \if@firstfooterelement%
10683 \else%
10684 { ~\color{footersymbolcolor}\textbullet~~}\fi}
10685 \providecommand*\makefooter{}
10686 \renewcommand*\makefooter{%
10687 \fancypagestyle{plain}{%
10688 \fancyfoot[c]{%
10689 \parbox{0.8\textwidth}{%
10690 \centering%
10691 \addressfont\@addresscolour%
10692 \ifthenelse{isundefined{\@address}}{}{}%
10693 \addresssymbol~\@address\\%
10694 \@firstfooterelementfalse}%
10695 \ifthenelse{isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10696 \ifthenelse{isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10697 \ifthenelse{isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10698 \ifthenelse{isundefined{\@email}}{}{\footersymbol\emailsymbol~\email\@firstfooterelementfalse}%
10699 \ifthenelse{isundefined{\@extrainfo}}{}{\footersymbol\extrainfo\@firstfooterelementfalse}%
10700 }%
10701 \pagestyle{plain}}
10702 \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10703 \NeedsTeXFormat{LaTeX2e}
10704 \ProvidesPackage{cvthemebidiclassic}
10705 \DeclareOption{blue}{}
10706 \newif\if@colourorange\@colourorangefalse
10707 \DeclareOption{orange}{\@colourorangetrue}
10708 \newif\if@colourgreen\@colourgreenfalse
10709 \DeclareOption{green}{\@colourgreentrue}
10710 \newif\if@colourred\@colourredfalse
10711 \DeclareOption{red}{\@colourredtrue}
10712 \newif\if@colourgrey\@colourgreyfalse
10713 \DeclareOption{grey}{\@colourgreytrue}
10714 \DeclareOption*{
10715 \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10716 \ExecuteOptions{colour}
10717 \ProcessOptions\relax
10718 \renewcommand*\listitemsymbol{\textbullet}
10719 \firstnamecolour{}
10720 \familynamecolour{}
10721 \titlecolour{808080}
10722 \quotecolour{696969}
10723 \addresscolour{696969}
10724 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10725 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10726 \sectiontitlecolour{1E90FF}
10727 \subsectioncolour{4682B4}
10728 \if@colourorange
10729 \addresscolour{FF8C00}
10730 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10731 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10732 \sectiontitlecolour{FF8C00}

```




```

10733 \subsectioncolour{FF8C00}\fi
10734 \if@colourgreen
10735 \addresscolour{008000}
10736 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10737 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10738 \sectiontitlecolour{008000}
10739 \subsectioncolour{008000}\fi
10740 \if@colourred
10741 \addresscolour{FF0000}
10742 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10743 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10744 \sectiontitlecolour{FF0000}
10745 \subsectioncolour{FF0000}\fi
10746 \if@colourgrey
10747 \addresscolour{808080}
10748 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10749 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10750 \sectiontitlecolour{808080}
10751 \subsectioncolour{808080}\fi
10752 \renewcommand*{\ttdefault}{pcr}
10753 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10754 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10755 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10756 \renewcommand*{\familynamefont}{\firstnamefont}
10757 \renewcommand*{\quoteont}{\large\slshape}
10758 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10759 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10760 \newlength{\maketitlenamemaxwidth}
10761 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10762 \newlength{\maketitlenamefullwidth}
10763 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10764 \newlength{\maketitlenamewidth}
10765 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}
10766 \newlength{\maketitlepicturewidth}
10767 \setlength{\maketitlepicturewidth}{\@photowidth}
10768 \newlength{\maketitledetailwidth}
10769 \renewcommand*{\recomputethemelengths}{%
10770 \setlength{\maketitledetailwidth}{\textwidth}%
10771 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10772 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10773 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10774 \recomputethemelengths
10775 \newif\if@firstdetailselement\@firstdetailselementtrue
10776 \newcommand*{\maketitledetailsnewline}{
10777 \if@firstdetailselement%
10778 \@firstdetailselementfalse%
10779 \else%
10780 \[\.2em]\fi}
10781 \renewcommand*{\maketitle}{%
10782 % name and title
10783 \begin{minipage}[b]{\maketitlenamewidth}%
10784 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10785 \ifthenelse{\equal{\@title}{}}{\[\[1.25em]\titlestyle{\@title}}%
10786 \end{minipage}%

```



```

10787 % optional data
10788 \begin{minipage}[b]{\maketitledetailswidth}%
10789   \bidi@raggedleft\addressfont\@addresscolour%
10790   \ifthenelse{\isundefined{\@address}}{\}%
10791     \maketitledetailsnewline%
10792     \addresssymbol~\@address%
10793     \ifthenelse{\isundefined{\@mobile}}{\}\{\maketitledetailsnewline\mobilesymbol~\@mobile}%
10794     \ifthenelse{\isundefined{\@phone}}{\}\{\maketitledetailsnewline\phonesymbol~\@phone}%
10795     \ifthenelse{\isundefined{\@fax}}{\}\{\maketitledetailsnewline\faxsymbol~\@fax}%
10796     \ifthenelse{\isundefined{\@email}}{\}\{\maketitledetailsnewline\emailsymbol~\emailink{\@e
10797     \ifthenelse{\isundefined{\@extrainfo}}{\}\{\maketitledetailsnewline\@extrainfo}%
10798 \end{minipage}%
10799 % optional photo
10800 \ifthenelse{\isundefined{\@photo}}%
10801   {\%
10802     {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10803 % optional quote
10804 \ifthenelse{\isundefined{\@quote}}%
10805   {\%
10806   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10807 }

```

78 File dblfnote-xetex-bidi.def

```

10808 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10809 \let\autofootnoterule\relax
10810 \let\rightfootnoterule\relax
10811 \let\leftfootnoterule\relax
10812 \let\textwidthfootnoterule\relax
10813 \let\LRfootnoterule\relax
10814 \def\footnoterule{\kern-3\p@
10815   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10816 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10817 \let\@footnotetext\dfn@footnotetext}
10818 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
10819   \let\insert\dfn@gobble
10820   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10821   \def\@makefnmark{\smash{\dfn@makefnmark}}
10822   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10823   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10824   \ifdim\dfn@dima>\z@else
10825     \dfn@dima1sp\relax
10826     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10827   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10828     \ifvoid\dfn@inselse
10829       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10830     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10831   \setbox\dfn@boxa\copy\dfn@ins
10832   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10833   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10834   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10835   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10836   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10837 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext

```



```

10838 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10839 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10840     \let\insert\dfn@gobble
10841     \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10842     \def\@makefnmark{\smash{\dfn@makefnmark}}
10843     \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10844     \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10845     \ifdim\dfn@dima>z@\else
10846         \dfn@dima1sp\relax
10847         \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10848     \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10849         \ifvoid\dfn@ins\else
10850             \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10851             \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10852     \setbox\dfn@boxa\copy\dfn@ins
10853     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10854     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10855     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10856     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10857     \xdef\dfn@list{\dfn@list\@elt{number\dfn@dima}{number\@tempdima}}}}
10858 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10859 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10860 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10861     \dfn@dima\ht\footins
10862     \@tempcnta\z@ \dfn@countins
10863     \@tempdima\z@ \let\@elt\dfn@elt@getht
10864     \dfn@list\@nil
10865     \ifdim\@tempdima=\z@\else
10866         \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10867         \global\setbox\dfn@ins\box\dfn@ins
10868         \@tempswatrue
10869         \ifdfn@trysingle
10870             \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10871             \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10872             \advance\@tempdima-\skip\footins
10873             \advance\@tempdima-\ht\dfn@boxa
10874             \ifdim\@tempdima<\z@\else \@tempswafalse
10875                 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10876                     \footnoterule \unvbox\dfn@boxa}\fi\fi
10877             \if@tempswa
10878                 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10879                 \global\setbox\footins\vbox{\hbox{%
10880                     \hskip \DFNcolumnwidth
10881                     \hskip\DFNcolumnsep
10882                     \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10883                         \unvbox\dfn@boxb\vss}\hss}
10884                     \hskip -\textwidth
10885                     \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10886                         \vbox to\@tempdima{
10887                             \setbox\@tempboxa\vbox{\footnoterule}
10888                             \ifdfn@ruleboth \unvbox\@tempboxa
10889                             \else \@tempdima\ht\@tempboxa
10890                                 \advance\@tempdima\dp\@tempboxa
10891                                 \vskip\@tempdima

```



```

10892             \prevdepth\dp\@tempboxa \fi
10893             \unvbox\dfn@boxa\vss}\fi\hss}
10894             \hskip \DFNcolumnsep
10895             \hskip \DFNcolumnwidth}}\fi\fi
10896 \global\dfn@fnht\z@
10897 \ifx\dfn@list\@empty\else
10898     \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10899     \dfn@list \global\advance\dfn@fnht\dfn@dimb
10900     \let\@elt\relax
10901     \ifdim\dfn@dimb>\z@
10902         \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10903         \insert\footins{\floatingpenalty\@MM
10904             \vbox to\dfn@dimb{}}\fi
10905     \ifdim\dfn@fnht>\@tempdima
10906         \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10907         \global\dfn@fnht\@tempdima
10908         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10909         \xdef\dfn@afteroutput{\insert\footins{
10910             \floatingpenalty\@MM
10911             \vbox to\number\@tempdimb sp{}}}%
10912         \global\let\noexpand\dfn@afteroutput\relax}%
10913     \fi\fi
10914 \fi}%
10915 \let\footnoterule\relax \dfn@latex@makecol
10916 \let\footnoterule\dfn@footnoterule}
10917 \def\dfn@LTRmakecol{\ifvoid\footins\else
10918     \dfn@dima\ht\footins
10919     \@tempcnta\z@ \dfn@countins
10920     \@tempdima\z@ \let\@elt\dfn@elt@getht
10921     \dfn@list\@nil
10922     \ifdim\@tempdima=\z@\else
10923         \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10924         \global\setbox\dfn@ins\box\dfn@ins
10925         \@tempswatrue
10926         \ifdfn@trysingle
10927             \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10928             \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10929             \advance\@tempdima-\skip\footins
10930             \advance\@tempdima-\ht\dfn@boxa
10931             \ifdim\@tempdima<\z@\else \@tempswafalse
10932                 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10933                     \footnoterule \unvbox\dfn@boxa}\fi\fi
10934         \if@tempswa
10935             \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10936             \global\setbox\footins\vbox{\hbox{%
10937                 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10938                     \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10939                 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10940                     \vbox to\@tempdima{
10941                         \setbox\@tempboxa\vbox{\footnoterule}
10942                         \ifdfn@ruleboth \unvbox\@tempboxa
10943                         \else \@tempdima\ht\@tempboxa
10944                             \advance\@tempdima\dp\@tempboxa
10945                             \vskip\@tempdima

```



```

10946                                \prevdepth\dp\@tempboxa \fi
10947                                \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10948    \global\dfn@fnht\z@
10949    \ifx\dfn@list\@empty\else
10950        \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10951        \dfn@list \global\advance\dfn@fnht\dfn@dimb
10952        \let\@elt\relax
10953        \ifdim\dfn@dimb>\z@
10954            \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10955            \insert\footins{\floatingpenalty\@MM
10956                \vbox to\dfn@dimb{}}}\fi
10957        \ifdim\dfn@fnht>\@tempdima
10958            \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10959            \global\dfn@fnht\@tempdima
10960            \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10961            \xdef\dfn@afteroutput{\insert\footins{
10962                \floatingpenalty\@MM
10963                \vbox to\number\@tempdimb sp{}}}%
10964            \global\let\noexpand\dfn@afteroutput\relax}%
10965        \fi\fi
10966    \fi}%
10967    \let\footnoterule\relax \dfn@latex@makecol
10968    \let\footnoterule\dfn@footnoterule}
10969 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10970 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10971 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10972 \DFNalwaysdouble

```

79 File diagbox-xetex-bidi.def

```

10973 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10974 \bidi@patchcmd{\diagbox@double}{%
10975     \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}}
10976 }{\bidi@@diagbox@double@ii}{}}
10977 \bidi@patchcmd{\diagbox@double}{%
10978     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10979 }{\bidi@@diagbox@double@iii}{}}
10980 \newcommand*{\bidi@@diagbox@double@ii}{%
10981     \if@RTL
10982         \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10983     \else
10984         \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}}
10985     \fi
10986 }
10987 \newcommand*{\bidi@@diagbox@double@iii}{%
10988     \if@RTL
10989         \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10990     \else
10991         \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10992     \fi
10993 }
10994 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10995     \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}}
10996 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{}}

```



```

10997 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10998   \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10999 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11000 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11001   \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
11002 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11003 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
11004   \if@RTL
11005     \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}
11006   \else
11007     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11008   \fi
11009 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
11010   \if@RTL
11011     \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11012   \else
11013     \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
11014   \fi
11015 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11016 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11017   \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11018 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11019 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11020   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11021 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11022 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11023   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11024 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11025 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11026   \if@RTL
11027     \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}
11028   \else
11029     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11030   \fi
11031 }
11032 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11033   \if@RTL
11034     \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11035   \else
11036     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}
11037   \fi
11038 }
11039 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11040 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11041   \diagbox@setlinecolor
11042   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11043 }{%
11044   {\diagbox@setlinecolor
11045     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11046 }{-}{-}
11047 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11048 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11049   \diagbox@setlinecolor
11050   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%

```



```

11051 }{%
11052   {\diagbox@setlinecolor
11053     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11054 }{}{}
11055 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11056 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11057   \diagbox@setlinecolor
11058   \Line(0,\yym)(\x,0)
11059   \Line(\xm,\y)(\x,0)%
11060 }{%
11061   {\diagbox@setlinecolor
11062     \Line(0,\yym)(\x,0)
11063     \Line(\xm,\y)(\x,0)}%
11064 }{}{}
11065 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11066   \diagbox@setlinecolor
11067   \Line(0,0)(\xxm,\y)
11068   \Line(0,0)(\x,\yym)%
11069 }{%
11070   {\diagbox@setlinecolor
11071     \Line(0,0)(\xxm,\y)
11072     \Line(0,0)(\x,\yym)}%
11073 }{}{}
11074 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11075   \diagbox@setlinecolor
11076   \Line(0,\ym)(\x,\y)
11077   \Line(\xm,0)(\x,\y)%
11078 }{%
11079   {\diagbox@setlinecolor
11080     \Line(0,\ym)(\x,\y)
11081     \Line(\xm,0)(\x,\y)}%
11082 }{}{}
11083 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11084   \diagbox@setlinecolor
11085   \Line(0,\y)(\xxm,0)
11086   \Line(0,\y)(\x,\ym)%
11087 }{%
11088   {\diagbox@setlinecolor
11089     \Line(0,\y)(\xxm,0)
11090     \Line(0,\y)(\x,\ym)}%
11091 }{}{}

```

80 File draftwatermark-xetex-bidi.def

```

11092 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11093 \renewcommand\SetWatermarkText[1]{%
11094   \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

81 File eso-pic-xetex-bidi.def

```

11095 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11096 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11097   \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
11098

```



```

11099 \ESO@isMEMOIR{%
11100   \renewcommand\AtTextUpperLeft[1]{%
11101     \begingroup
11102       \ifodd\c@page
11103         \if@RTLmain
11104           \ESO@tempdima=\paperwidth
11105           \advance\ESO@tempdima-\textwidth
11106           \advance\ESO@tempdima-\spinemargin
11107         \else
11108           \ESO@tempdima=\spinemargin
11109         \fi
11110       \else
11111         \if@RTLmain
11112           \ESO@tempdima=\spinemargin
11113         \else
11114           \ESO@tempdima=\paperwidth
11115           \advance\ESO@tempdima-\textwidth
11116           \advance\ESO@tempdima-\spinemargin
11117         \fi
11118       \fi
11119       \ESO@tempdimb=-\uppermargin
11120       \AtPageUpperLeft{%
11121         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11122       }%
11123     \endgroup
11124   }
11125 }{%
11126   \renewcommand\AtTextUpperLeft[1]{%
11127     \begingroup
11128       \ESO@tempdima=1in\relax
11129       \if@twoside
11130         \ifodd\c@page
11131           \if@RTLmain
11132             \advance\ESO@tempdima\evensidemargin
11133           \else
11134             \advance\ESO@tempdima\oddsidemargin
11135           \fi
11136         \else
11137           \if@RTLmain
11138             \advance\ESO@tempdima\oddsidemargin
11139           \else
11140             \advance\ESO@tempdima\evensidemargin
11141           \fi
11142         \fi
11143       \else
11144         \advance\ESO@tempdima\oddsidemargin
11145       \fi
11146       \ESO@tempdimb=-1in\relax
11147       \advance\ESO@tempdimb-\topmargin
11148       \advance\ESO@tempdimb-\headheight
11149       \advance\ESO@tempdimb-\headsep
11150       \AtPageUpperLeft{%
11151         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11152       }%

```




```

11153 \endgroup
11154 }
11155 }

```

82 File empheq-xetex-bidi.def

```

11156 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11157 \MHInternalSyntaxOn
11158 \def\EQ_tag_plus_endmark:{%
11159 \iftagsleft@
11160 \gdef\maketag@@@##1{%
11161 \hfuzz\displaywidth
11162 \ifRTL\makebox[\widthof{##1}][r]{%
11163 \hbox to \displaywidth{\m@th\normalfont##1\hss
11164 \raisebox{-\dp\EQ_mathdisplay_box
11165 -\depthof{\EQ_outerbox:}}{
11166 {\PotEndMark{\hss}}}}
11167 \else\makebox[\widthof{##1}][l]{%
11168 \hbox to \displaywidth{\m@th\normalfont##1\hss
11169 \raisebox{-\dp\EQ_mathdisplay_box
11170 -\depthof{\EQ_outerbox:}}{
11171 {\PotEndMark{\hss}}}}\fi}%
11172 \MH_else:
11173 \gdef\maketag@@@##1{%
11174 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11175 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11176 \MH_addtolength:dn \@tempdima
11177 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11178 \setlength{\@tempdimb}
11179 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11180 +\depthof{\EQ_innerbox:}}
11181 \MH_if_dim:w \@tempdima>\@tempdimb
11182 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11183 -\@tempdima+\g_EQ_bottomrow_depth_dim}
11184 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11185 \def\EQ_next:{\raisebox{\@tempdima}}%
11186 \MH_else:
11187 \def\EQ_next:{
11188 \raisebox{-\dp\EQ_mathdisplay_box
11189 -\depthof{\EQ_outerbox:}}}%
11190 \MH_fi:\EQ_next:}}}%
11191 \MH_fi:}
11192 \def\EQ_post_process:{%
11193 \EQ_initialize:
11194 \EQ_begin_equation:
11195 \MH_if_boolean:nT {outer_mult}{
11196 \setkeys{MT_options_name:}{
11197 firstline-afterskip=Opt,
11198 lastline-preskip=Opt,
11199 multlined-width=Opt,
11200 }
11201 \ifodd \l_EQ_alignmentmode_int
11202 \setkeys{MT_options_name:}{multlined-pos=b}
11203 \MH_else:

```



```

11204     \setkeys{\MT_options_name:}{multlined-pos=t}
11205     \MH_fi:
11206     \g@addto@macro\EQ_complete_mathdisplay:{
11207         \begin{MTmultlined}\relax
11208     }
11209     \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11210     \MH_if_boolean:nT {outer_mult}{
11211         \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11212     }
11213     \EQ_end_equation:
11214     \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11215     \savecounters@
11216     \EQ_typeset_tags:
11217     \edef\l_EQ_equation_fint{\number\c@equation}
11218     \restorecounters@
11219     \Hy@linkcounter=\EQ_hyperref_link_fint
11220     \settowidth\l_EQ_totalwidth_dim{%
11221         $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11222     \MH_if_boolean:nTF {outer_mult}
11223     { \def\EQ_next:{_mult} }
11224     { \def\EQ_next:{} }
11225     \@nameuse{EQ_modify_linewidth_
11226         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11227     \EQ_typeset_display:
11228     \@nameuse{EQ_find_displaywidth_
11229         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11230     \MH_addtolength:dn
11231     \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11232     \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11233         $\EQ_left_side:
11234         \EQ_innerbox:{%
11235             \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11236             \makebox[\l_EQ_displaywidth_dim][c]
11237             {\usebox{\EQ_mathdisplay_box}}}%
11238         \MH_or:
11239             \makebox[\l_EQ_displaywidth_dim][c]
11240             {\usebox{\EQ_mathdisplay_box}}}%
11241         \MH_or:
11242             \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11243                 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11244                     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11245                         \kern-\@mathmargin
11246                         \MH_fi:
11247                         \MH_fi:
11248                         \usebox{\EQ_mathdisplay_box}}%
11249             \else\makebox[\l_EQ_displaywidth_dim][l]{%
11250                 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11251                     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11252                         \kern-\@mathmargin
11253                         \MH_fi:
11254                         \MH_fi:
11255                         \usebox{\EQ_mathdisplay_box}}\fi%
11256         \MH_or:
11257             \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%

```



```

11258      \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11259      \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11260      \kern-\@mathmargin
11261      \MH_fi:
11262      \MH_fi:
11263      \usebox{\EQ_mathdisplay_box}}
11264      \else\makebox[\l_EQ_displaywidth_dim][l]{%
11265      \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11266      \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11267      \kern-\@mathmargin
11268      \MH_fi:
11269      \MH_fi:
11270      \usebox{\EQ_mathdisplay_box}}\fi%
11271      \MH_fi:}%
11272      \EQ_right_side:$}%
11273      \begin{AmSequation*}
11274      \@nameuse{EQ_place_display_
11275      \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11276      \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11277      \MH_set_boolean_T:n {show_manual_tags}
11278      \MH_if_case:w \l_EQ_alignmentmode_int
11279      \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#1
11280      \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#2
11281      \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#3
11282      \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#4
11283      \MH_fi:
11284      \MH_fi:
11285      \end{AmSequation*}
11286      \global\c@equation=\l_EQ_equation_fint\relax
11287      }
11288      \AtBeginDocument{%
11289      \@ifpackageloaded{fancybox}{%
11290      \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11291      {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11292      \renewcommand*{shadowbox}{%
11293      \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11294      \VerbBox\EQ_shadowbox:n}
11295      {\MH_set_boolean_F:n {shadowbox_star}
11296      \VerbBox\EQ_shadowbox:n}}
11297      \def\EQ_shadowbox:n #1{%
11298      \sbox{\z@}{\fbox{#1}}%
11299      \MH_if_boolean:nTF {shadowbox_star}{
11300      \MH_setlength:dn \@tempdima{\z@}%
11301      }{
11302      \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11303      }
11304      \raisebox{\@tempdima}{%
11305      \if@RTL\makebox[\z@][r]{%
11306      \kern\shadowsize \textcolor{shadowcolor}{%
11307      \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11308      }%
11309      \else\makebox[\z@][l]{%
11310      \kern\shadowsize \textcolor{shadowcolor}{%
11311      \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%

```



```

11312      }\fi%
11313      \usebox\z@\textcolor{shadowcolor}{%
11314        \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11315    }-}%
11316  }
11317  \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

```

11318 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/08 v0.7 bidi adaptations for extarticle cla
11319 \renewcommand*\l@section[2]{%
11320   \ifnum \c@tocdepth >\z@
11321     \addpenalty\@secpenalty
11322     \addvspace{1.0em \@plus\p@}%
11323     \setlength\@tempdima{1.5em}%
11324     \begingroup
11325       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11326       \parfillskip -\@pnumwidth
11327       \leavevmode \bfseries
11328       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11329       \hskip -\if@RTL\rightskip\else\leftskip\fi
11330       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11331     \endgroup
11332   \fi}
11333 \renewcommand*\l@part[2]{%
11334   \ifnum \c@tocdepth >-2\relax
11335     \addpenalty\@secpenalty
11336     \addvspace{2.25em \@plus\p@}%
11337     \begingroup
11338       \setlength\@tempdima{3em}%
11339       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11340       \parfillskip -\@pnumwidth
11341       {\leavevmode
11342         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11343       \nobreak
11344     \endgroup
11345   \fi}
11346 \ApplyPatchIfPackageLoaded{nameref}{%
11347   \bidi@patchcmd\NR@part\raggedright{%
11348     \if@RTL\raggedleft\else\raggedright\fi
11349   }-{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}%
11350   \bidi@patchcmd\NR@spart\raggedright{%
11351     \if@RTL\raggedleft\else\raggedright\fi
11352   }-{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
11353 }-}%
11354 \bidi@patchcmd\@part\raggedright{%
11355   \if@RTL\raggedleft\else\raggedright\fi
11356 }-{\bidi@warningnoline{Oops! patching `string\@part' failed}}%
11357 \bidi@patchcmd\@spart\raggedright{%
11358   \if@RTL\raggedleft\else\raggedright\fi
11359 }-{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
11360 }
11361 \renewenvironment{thebibliography}[1]
11362   {\section*{\refname

```



```

11363      \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11364      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11365      \bidi@thebibliography@font@hook%
11366      \list{\@biblabel{\@arabic\c@enumiv}}%
11367      {\settowidth\labelwidth{\@biblabel{#1}}%
11368      \leftmargin\labelwidth
11369      \advance\leftmargin\labelsep
11370      \@openbib@code
11371      \usecounter{enumiv}%
11372      \let\p@enumiv\@empty
11373      \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11374      \sloppy\clubpenalty4000\widowpenalty4000%
11375      \sfcode`. \m
11376      {\def\@noitemerr
11377      {\@latex@warning{Empty `thebibliography' environment}}}%
11378      \endlist}
11379 \renewcommand\left@footnoterule{%
11380 \kern-3\p@
11381 \hrule\@width.4\columnwidth
11382 \kern2.6\p@}
11383 \renewcommand\right@footnoterule{%
11384 \kern-3\p@
11385 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11386 \kern2.6\p@}
11387 \if@titlepage
11388 \renewcommand\maketitle{\begin{titlepage}%
11389 \let\footnotesize\small
11390 \let\right@footnoterule\relax
11391 \let\left@footnoterule\relax
11392 \let\textwidth\footnoterule\relax
11393 \let \footnote \thanks
11394 \null\vfil
11395 \vskip 60\p@
11396 \begin{center}%
11397 {\LARGE \@title \par}%
11398 \vskip 3em%
11399 {\large
11400 \lineskip .75em%
11401 \begin{tabular}[t]{c}%
11402 \@author
11403 \end{tabular}\par}%
11404 \vskip 1.5em%
11405 {\large \@date \par}% % Set date in \large size.
11406 \end{center}\par
11407 \@thanks
11408 \vfil\null
11409 \end{titlepage}%
11410 \setcounter{footnote}{0}%
11411 \global\let\thanks\relax
11412 \global\let\maketitle\relax
11413 \global\let\@thanks\@empty
11414 \global\let\@author\@empty
11415 \global\let\@date\@empty
11416 \global\let\@title\@empty

```



```

11417 \global\let\title\relax
11418 \global\let\author\relax
11419 \global\let\date\relax
11420 \global\let\and\relax
11421 }
11422 \else
11423 \renewcommand\maketitle{\par
11424 \begin{group}
11425 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11426 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11427 \long\def\@makefntext##1{\parindent 1em\noindent
11428 \hb@xt@1.8em{%
11429 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11430 \if@twocolumn
11431 \ifnum \col@number=\@one
11432 \@maketitle
11433 \else
11434 \twocolumn[\@maketitle]%
11435 \fi
11436 \else
11437 \newpage
11438 \global\@topnum\z@ % Prevents figures from going at top of page.
11439 \@maketitle
11440 \fi
11441 \thispagestyle{plain}\@thanks
11442 \end{group}
11443 \setcounter{footnote}{0}%
11444 \global\let\thanks\relax
11445 \global\let\maketitle\relax
11446 \global\let\@maketitle\relax
11447 \global\let\@thanks\@empty
11448 \global\let\@author\@empty
11449 \global\let\@date\@empty
11450 \global\let\@title\@empty
11451 \global\let\title\relax
11452 \global\let\author\relax
11453 \global\let\date\relax
11454 \global\let\and\relax
11455 }
11456 \def\@maketitle{%
11457 \newpage
11458 \null
11459 \vskip 2em%
11460 \begin{center}%
11461 \let \footnote \thanks
11462 {\LARGE \@title \par}%
11463 \vskip 1.5em%
11464 {\large
11465 \lineskip .5em%
11466 \begin{tabular}[t]{c}%
11467 \@author
11468 \end{tabular}\par}%
11469 \vskip 1em%
11470 {\large \@date}%

```



```

11471 \end{center}%
11472 \par
11473 \vskip 1.5em}
11474 \fi
11475 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11476 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11477 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11478 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

84 File extbook-xetex-bidi.def

```

11479 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11480 \if@titlepage
11481 \renewcommand\maketitle{\begin{titlepage}%
11482 \let\footnotesize\small
11483 \let\right@footnoterule\relax
11484 \let\left@footnoterule\relax
11485 \let\textwidth\footnoterule\relax
11486 \let \footnote \thanks
11487 \let \LTRfootnote \LTRthanks
11488 \let \RTLfootnote \RTLthanks
11489 \null\vfil
11490 \vskip 60\p@
11491 \begin{center}%
11492 {\LARGE \@title \par}%
11493 \vskip 3em%
11494 {\large
11495 \lineskip .75em%
11496 \begin{tabular}[t]{c}%
11497 \@author
11498 \end{tabular}\par}%
11499 \vskip 1.5em%
11500 {\large \@date \par}% % Set date in \large size.
11501 \end{center}\par
11502 \@thanks
11503 \vfil\null
11504 \end{titlepage}%
11505 \setcounter{footnote}{0}%
11506 \global\let\thanks\relax
11507 \global\let\LTRthanks\relax
11508 \global\let\RTLthanks\relax
11509 \global\let\maketitle\relax
11510 \global\let\@thanks\@empty
11511 \global\let\@author\@empty
11512 \global\let\@date\@empty
11513 \global\let\@title\@empty
11514 \global\let\title\relax
11515 \global\let\author\relax
11516 \global\let\date\relax
11517 \global\let\and\relax
11518 }
11519 \else
11520 \renewcommand\maketitle{\par
11521 \begingroup

```



```

11522 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11523 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11524 \long\def\@makefntext##1{\parindent 1em\noindent
11525 \hb@xt@1.8em{%
11526 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11527 \if@twocolumn
11528 \ifnum \col@number=\@ne
11529 \@maketitle
11530 \else
11531 \twocolumn[\@maketitle]%
11532 \fi
11533 \else
11534 \newpage
11535 \global\@topnum\z@ % Prevents figures from going at top of page.
11536 \@maketitle
11537 \fi
11538 \thispagestyle{plain}\@thanks
11539 \endgroup
11540 \setcounter{footnote}{0}%
11541 \global\let\thanks\relax
11542 \global\let\LTRthanks\relax
11543 \global\let\RTLthanks\relax
11544 \global\let\maketitle\relax
11545 \global\let\@maketitle\relax
11546 \global\let\@thanks\@empty
11547 \global\let\@author\@empty
11548 \global\let\@date\@empty
11549 \global\let\@title\@empty
11550 \global\let\title\relax
11551 \global\let\author\relax
11552 \global\let\date\relax
11553 \global\let\and\relax
11554 }
11555 \def\@maketitle{%
11556 \newpage
11557 \null
11558 \vskip 2em%
11559 \begin{center}%
11560 \let \footnote \thanks
11561 \let \LTRfootnote \LTRthanks
11562 \let \RTLfootnote \RTLthanks
11563 {\LARGE \@title \par}%
11564 \vskip 1.5em%
11565 {\large
11566 \lineskip .5em%
11567 \begin{tabular}[t]{c}%
11568 \@author
11569 \end{tabular}\par}%
11570 \vskip 1em%
11571 {\large \@date}%
11572 \end{center}%
11573 \par
11574 \vskip 1.5em}
11575 \fi

```




```

11576 \renewcommand*\l@part[2]{%
11577   \ifnum \c@tocdepth >-2\relax
11578     \addpenalty{-\@highpenalty}%
11579     \addvspace{2.25em \@plus\p@}%
11580     \begingroup
11581       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11582       \parfillskip -\@pnumwidth
11583       {\leavevmode
11584         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11585       \nobreak
11586       \global\@nobreaktrue
11587       \everypar{\global\@nobreakfalse\everypar{}}%
11588     \endgroup
11589   \fi}
11590 \renewcommand\theequation
11591   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11592 \renewcommand \thefigure
11593   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11594 \renewcommand \thetable
11595   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11596 \renewcommand \thechapter {\@arabic\c@chapter}
11597 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11598 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11599 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
11600 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11601 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11602 \def\@makechapterhead#1{%
11603   \vspace*{50\p@}%
11604   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11605     \ifnum \c@secnumdepth >\m@ne
11606       \if@mainmatter
11607         \huge\bfseries \@chapapp\space \thechapter
11608         \par\nobreak
11609         \vskip 20\p@
11610       \fi
11611     \fi
11612     \interlinepenalty\@M
11613     \Huge \bfseries #1\par\nobreak
11614     \vskip 40\p@
11615   }}
11616
11617 \def\@makeschapterhead#1{%
11618   \vspace*{50\p@}%
11619   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11620     \normalfont
11621     \interlinepenalty\@M
11622     \Huge \bfseries #1\par\nobreak
11623     \vskip 40\p@
11624   }}
11625 \renewcommand\backmatter{%
11626   \if@openright
11627     \cleardoublepage
11628   \else
11629     \clearpage

```



```

11630 \fi
11631 \@mainmatterfalse}
11632 \renewenvironment{thebibliography}[1]
11633 {\chapter*{\bibname
11634 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11635 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
11636 \bidi@thebibliography@font@hook%
11637 \list{\@biblabel{\@arabic\c@enumiv}}%
11638 {\settowidth\labelwidth{\@biblabel{#1}}%
11639 \leftmargin\labelwidth
11640 \advance\leftmargin\labelsep
11641 \@openbib@code
11642 \usecounter{enumiv}%
11643 \let\p@enumiv\@empty
11644 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11645 \sloppy
11646 \clubpenalty4000
11647 \@clubpenalty \clubpenalty
11648 \widowpenalty4000%
11649 \sfcode`. \@m}
11650 {\def\@noitemerr
11651 {\@latex@warning{Empty `thebibliography' environment}}}%
11652 \endlist}

```

85 File extletter-xetex-bidi.def

```

11653 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11654 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11655 \thispagestyle{firstpage}%
11656 {\ifRTL\raggedright\else\raggedleft\fi\@date\par}%
11657 \else % home address
11658 \thispagestyle{empty}%
11659 {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11660 \fromaddress \*[2\parskip]%
11661 \@date \end{tabular}\par}%
11662 \fi
11663 \vspace{2\parskip}%
11664 {\ifRTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
11665 \vspace{2\parskip}%
11666 #1\par\nobreak}
11667 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11668 \stopbreaks
11669 \noindent
11670 \ifx\@empty\fromaddress\else
11671 \hspace*{\longindentation}\fi
11672 \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
11673 \ignorespaces #1\ \ [6\medskipamount]}%
11674 \ifx\@empty\fromsig
11675 \fromname
11676 \else \fromsig \fi\strut}%
11677 \par}
11678 \renewcommand\left@footnoterule{%
11679 \kern-\p@
11680 \hrule \@width .4\columnwidth

```



```

11681 \kern .6\p@}
11682 \renewcommand\right@footnoterule{%
11683 \kern-\p@
11684 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11685 \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11686 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/01/03 v2.7 bidi extra footnote feat
11687 \newdimen\bidi@columnwidth
11688 \def\bidi@floathook{%
11689 \bidi@columnwidth\columnwidth
11690 }
11691 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11692 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11693 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{%
11694 \ifHy@hyperfootnotes
11695 \let\@@H@@footnotetext\@footnotetext
11696 \let\@@HLTR@@LTRfootnotetext\@LTRfootnotetext
11697 \let\@@HRTL@@RTLfootnotetext\@RTLfootnotetext
11698 \let\@@H@@mpfootnotetext\@mpfootnotetext
11699 \let\@@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11700 \let\@@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11701 \fi
11702 }%
11703 }%
11704 }
11705 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11706 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11707 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{%
11708 \ifHy@hyperfootnotes
11709 \let\H@@footnotetext\@footnotetext
11710 \let\@footnotetext\@@H@@footnotetext
11711 \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
11712 \let\@LTRfootnotetext\@@HLTR@@LTRfootnotetext
11713 \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
11714 \let\@RTLfootnotetext\@@HRTL@@RTLfootnotetext
11715 \let\H@@mpfootnotetext\@mpfootnotetext
11716 \let\@mpfootnotetext\@@H@@mpfootnotetext
11717 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11718 \let\@mpLTRfootnotetext\@@HLTR@@mpLTRfootnotetext
11719 \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11720 \let\@mpRTLfootnotetext\@@HRTL@@mpRTLfootnotetext
11721 \fi
11722 }%
11723 }%
11724 }
11725 \let\autofootnoterule\relax
11726 \let\rightfootnoterule\relax
11727 \let\leftfootnoterule\relax
11728 \let\textwidthfootnoterule\relax
11729 \let\LRfootnoterule\relax
11730 \def\footnoterule{\kern-3\p@
11731 \hrule \@width \columnwidth \kern 2.6\p@}

```



```

11732 \newcommand{\@preamnormalfmt}{%
11733   \parindent 1em%
11734   \noindent
11735 }
11736 \newcommand{\@normalfootfmt}[1]{%
11737   \@preamnormalfmt
11738   \footfootmark
11739   \rule{z@\footnotesep\ignorespaces}{\foottextfont #1}%
11740   \@finalstrut\strutbox
11741 }
11742 \newcommand{\@normalRTLfootfmt}[1]{%
11743   \@preamnormalfmt
11744   \RTLfootfootmark
11745   \rule{z@\footnotesep\ignorespaces}{\RTLfoottextfont #1}%
11746   \@finalstrut\strutbox
11747 }
11748 \newcommand{\@normalLTRfootfmt}[1]{%
11749   \@preamnormalfmt
11750   \LTRfootfootmark
11751   \rule{z@\footnotesep\ignorespaces}{\LTRfoottextfont #1}%
11752   \@finalstrut\strutbox
11753 }
11754 \renewcommand{\@footnotetext}[1]{%
11755   \insert\footins{%
11756     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11757     \def\baselinestretch{\m@m@footnote@spacing}%
11758     \reset@font
11759     \foottextfont
11760     \@preamfntext
11761     \hsize\columnwidth
11762     \protected@edef\@currentlabel{%
11763       \csname p@footnote\endcsname\@thefnmark}%
11764     \color@begingroup
11765       \@normalfootfmt{#1}%
11766     \color@endgroup}%
11767     \m@mmf@prepare}
11768 \newcommand{\@bidi@bidiold@footnotetext}[1]{%
11769   \bidi@step@absolute@footnote@count
11770   \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11771   \insert\footins{%
11772     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11773     \def\baselinestretch{\m@m@footnote@spacing}%
11774     \reset@font
11775     \foottextfont
11776     \@preamfntext
11777     \hsize\columnwidth
11778     \protected@edef\@currentlabel{%
11779       \csname p@footnote\endcsname\@thefnmark}%
11780     \color@begingroup
11781       \@normalfootfmt{#1}%
11782     \color@endgroup}%
11783     \m@mmf@prepare
11784 }
11785 \renewcommand{\@RTLfootnotetext}[1]{%

```



```

11786 \insert\footins{%
11787 \RTLtrue%
11788 \def\baselinestretch{\m@m@footnote@spacing}%
11789 \reset@font
11790 \RTLfoottextfont
11791 \@preamfntext
11792 \hsize\columnwidth
11793 \protected@edef\@currentlabel{%
11794 \csname p@footnote\endcsname\@thefnmark}%
11795 \color@begingroup
11796 \@normalRTLfootfmt{#1}%
11797 \color@endgroup}%
11798 \m@mmf@prepare}
11799 \newcommand{\bidi@bidiold@RTLfootnotetext}[1]{%
11800 \bidi@step@absolute@footnote@count
11801 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11802 \insert\footins{%
11803 \RTLtrue%
11804 \def\baselinestretch{\m@m@footnote@spacing}%
11805 \reset@font
11806 \RTLfoottextfont
11807 \@preamfntext
11808 \hsize\columnwidth
11809 \protected@edef\@currentlabel{%
11810 \csname p@footnote\endcsname\@thefnmark}%
11811 \color@begingroup
11812 \@normalRTLfootfmt{#1}%
11813 \color@endgroup}%
11814 \m@mmf@prepare
11815 }
11816 \renewcommand{\@LTRfootnotetext}[1]{%
11817 \insert\footins{%
11818 \RTLfalse%
11819 \def\baselinestretch{\m@m@footnote@spacing}%
11820 \reset@font
11821 \LTRfoottextfont
11822 \@preamfntext
11823 \hsize\columnwidth
11824 \protected@edef\@currentlabel{%
11825 \csname p@footnote\endcsname\@thefnmark}%
11826 \color@begingroup
11827 \@normalLTRfootfmt{#1}%
11828 \color@endgroup}%
11829 \m@mmf@prepare}
11830 \renewcommand{\@mpfootnotetext}[1]{%
11831 \global\setbox\@mpfootins\vbox{%
11832 \unvbox\@mpfootins
11833 \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
11834 \def\baselinestretch{\m@m@footnote@spacing}%
11835 \reset@font%
11836 \foottextfont \hsize\columnwidth \@parboxrestore
11837 \protected@edef\@currentlabel{%
11838 \csname p@mpfootnote\endcsname\@thefnmark}%
11839 \color@begingroup

```



```

11840 \normalfootfmt{#1}%
11841 \color@endgroup}}
11842 \newcommand{\bidi@bidiold@mpfootnotetext}[1]{%
11843 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11844 \global\setbox\@mpfootins\vbox{%
11845 \unvbox\@mpfootins
11846 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11847 \def\baselinestretch{\m@m@footnote@spacing}%
11848 \reset@font%
11849 \foottextfont \hsize\columnwidth \@parboxrestore
11850 \protected@edef\@currentlabel{%
11851 \csname p@mpfootnote\endcsname\@thefnmark}%
11852 \color@begingroup
11853 \normalfootfmt{#1}%
11854 \color@endgroup}}
11855 \renewcommand{\@mpLTRfootnotetext}[1]{%
11856 \global\setbox\@mpfootins\vbox{%
11857 \unvbox\@mpfootins
11858 \@RTLfalse
11859 \def\baselinestretch{\m@m@footnote@spacing}%
11860 \reset@font%
11861 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11862 \protected@edef\@currentlabel{%
11863 \csname p@mpfootnote\endcsname\@thefnmark}%
11864 \color@begingroup
11865 \normalLTRfootfmt{#1}%
11866 \color@endgroup}}
11867 \renewcommand{\@mpRTLfootnotetext}[1]{%
11868 \global\setbox\@mpfootins\vbox{%
11869 \unvbox\@mpfootins
11870 \@RTLtrue
11871 \def\baselinestretch{\m@m@footnote@spacing}%
11872 \reset@font%
11873 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11874 \protected@edef\@currentlabel{%
11875 \csname p@mpfootnote\endcsname\@thefnmark}%
11876 \color@begingroup
11877 \normalRTLfootfmt{#1}%
11878 \color@endgroup}}
11879 \newcommand{\bidi@bidiold@mpRTLfootnotetext}[1]{%
11880 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11881 \global\setbox\@mpfootins\vbox{%
11882 \unvbox\@mpfootins
11883 \@RTLtrue
11884 \def\baselinestretch{\m@m@footnote@spacing}%
11885 \reset@font%
11886 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11887 \protected@edef\@currentlabel{%
11888 \csname p@mpfootnote\endcsname\@thefnmark}%
11889 \color@begingroup
11890 \normalRTLfootfmt{#1}%
11891 \color@endgroup}}
11892 \let\m@mold@footnotetext\@footnotetext
11893 \let\m@mold@LTRfootnotetext\@LTRfootnotetext

```



```

11894 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11895 \let\m@mold@mpfootnotetext\@mpfootnotetext
11896 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11897 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11898 \bidi@ensure@newcommand{\normalfootnotes}{%
11899   \@bidi@before@Hy@hyperfootnotes
11900   \let\@footnotetext\m@mold@footnotetext
11901   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11902   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11903   \let\@mpfootnotetext\m@mold@mpfootnotetext
11904   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11905   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11906   \@bidi@after@Hy@hyperfootnotes
11907   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11908 }
11909 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11910 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
11911   \def\m@m@singlespace{#1}%
11912   \def\m@m@footnote@spacing{#1}%
11913   \def\m@m@float@spacing{#1} %
11914 }
11915 \setSingleSpace{1}
11916 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11917 \bidi@ensure@newcommand*{\m@m@mmf@prepare}{%
11918   \kern-\multiplefootnotemarker
11919   \kern\multiplefootnotemarker\relax}
11920 \bidi@ensure@newlength{\footmarkwidth}
11921 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11922 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11923 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11924 \bidi@ensure@newcommand{\footfootmark}{%
11925   \ifdim\footmarkwidth < \z@
11926     \llap{\hb@xt@ -\footmarkwidth{%
11927       \hss\normalfont\footscript{\@thefnmark}}}%
11928     \hspace*{-\footmarkwidth}}%
11929   \else
11930     \ifdim\footmarkwidth = \z@
11931       {\normalfont\footscript{\@thefnmark}}%
11932     \else
11933       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11934     \fi
11935   \fi}
11936 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11937   \ifdim\footmarkwidth < \z@
11938     \llap{\hb@xt@ -\footmarkwidth{%
11939       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11940     \hspace*{-\footmarkwidth}}%
11941   \else
11942     \ifdim\footmarkwidth = \z@
11943       {\normalfont\LTRfootscript{\@thefnmark}}%
11944     \else
11945       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11946     \fi
11947   \fi}

```



```

11948 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11949   \ifdim\footmarkwidth < \z@
11950     \llap{\hb@xt@ -\footmarkwidth{%
11951       \hss\normalfont\RTLfootscript{\@thefnmark}}%
11952       \hspace*{-\footmarkwidth}}}%
11953   \else
11954     \ifdim\footmarkwidth = \z@
11955       {\normalfont\RTLfootscript{\@thefnmark}}%
11956     \else
11957       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11958     \fi
11959   \fi}
11960 \footmarkstyle{\textsuperscript{#1}}
11961 \LTRfootmarkstyle{\textsuperscript{#1}}
11962 \RTLfootmarkstyle{\textsuperscript{#1}}
11963 \newcommand*{\bidi@normal@footmarkwidth}{%
11964   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11965 }
11966 \newcommand*{\bidi@star@footmarkwidth}{%
11967   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11968 }
11969 \bidi@normal@footmarkwidth
11970 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11971 \bidi@ensure@newcommand*{\extrafeetins}{%
11972   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11973   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11974   \bidi@joinfootnotes\@bidi@copyins@{\unvbox\@bidi@copyins@}%
11975   \extrafeetinshook}
11976 \bidi@ensure@newcommand{\extrafeetinshook}{%
11977   \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11978   \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11979   \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11980 \bidi@ensure@newlength{\footinsdim}
11981   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11982 \bidi@ensure@newcommand{\@preamfntext}{%
11983   \interlinepenalty\interfootnotelinepenalty
11984   \floatingpenalty \@MM
11985   \splittopskip=\footnotesep
11986   \splitmaxdepth=\dp\strutbox
11987   \@parboxrestore}
11988 \def\bidi@ifmulticol#1#2{\@tempswafalse
11989   \ifnum\col@number>\@ne
11990     \ifnum\count\footins>1999 \@tempwattrue \fi
11991   \fi
11992   \if@tempswa #1\else #2\fi
11993 }
11994 \def\bidi@joinfootnotes#1#2#3{%
11995   \ifvoid#1
11996     \else
11997       \@tempskipa\skip#1%
11998       \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
11999       \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12000       \bidi@removexfootskip
12001     \ifvoid\footins

```




```

12002     \global\setbox\footins\vbox{#2#3}%
12003     \else
12004     \global\setbox\footins\vbox{%
12005         \unvbox\footins
12006         \bidi@footskip
12007         #2#3%
12008     }%
12009     \fi
12010 \fi
12011 }
12012 \def\bidi@reinsertfootnote#1#2#3{%
12013     \ifvoid#1%
12014     \else
12015         \insert\footins{#2#3}%
12016     \fi
12017 }
12018 \def\bidi@joinmpfootnotes#1#2#3{%
12019     \ifvoid#1
12020     \else
12021         \@tempskipa\skip#1%
12022         \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12023         \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12024         \bidi@removexfootskip
12025         \ifvoid\@mpfootins
12026             \global\setbox\@mpfootins\vbox{#2#3}%
12027         \else
12028             \global\setbox\@mpfootins\vbox{%
12029                 \unvbox\@mpfootins
12030                 \bidi@footskip
12031                 #2#3%
12032             }%
12033         \fi
12034     \fi
12035 }
12036 \newcount\bidi@absolutepage@count
12037 \bidi@absolutepage@count\@ne
12038 \newcount\bidi@absolutefootnote@count
12039 \bidi@AfterOutputBoxOutputPage{%
12040     \if@filesw
12041         \edef\@tempa{%
12042             \write\@auxout{%
12043                 \string\bidi@finalfootnoteperpage%
12044                 {\noexpand\number\noexpand\bidi@absolutepage@count}%
12045                 {\noexpand\number\noexpand\bidi@absolutefootnote@count}%
12046             }%
12047         }%
12048         \@tempa
12049     \fi
12050 }
12051 \bidi@AtEndOutputPage{%
12052     \global\advance\bidi@absolutepage@count\@ne
12053 }
12054 \newcommand*{\bidi@finalfootnoteperpage}[2]{%
12055     \expandafter\gdef\csname bidi@currentpagefinalfootnote@@#1\endcsname{#2}%

```



```

12056 }
12057 \newif\if@bidi@finalfootnoteperpage
12058 \newcommand{\bidi@ifafterfinalfootnoteperpage}[2]{%
12059   \if@bidi@csundef\bidi@currentpagefinalfootnote@@\number\bidi@absolute@count}{%
12060   \global\@bidi@finalfootnoteperpagetrue
12061 }{%
12062   \global\@bidi@finalfootnoteperpagefalse
12063   \ifnum\bidi@absolute@count=\bidi@csuse\bidi@currentpagefinalfootnote@@\number\bidi@absolute@count
12064     #1%
12065   \else
12066     #2%
12067   \fi
12068 }%
12069 }
12070 \newcommand{\bidi@reinsertfinalfootnoteperpage}[3]{%
12071   \bidi@ifafterfinalfootnoteperpage{%
12072     \bidi@reinsertfootnote{#1}{#2}{#3}%
12073   }{%
12074   }%
12075 }
12076 \newcommand*{\bidi@step@absolute@count}{%
12077   \global\advance\bidi@absolute@count\@ne
12078 }
12079 \bidi@AfterEndDocumentCheckLabelsRerun{%
12080   \if@bidi@finalfootnoteperpage
12081     \PackageWarningNoLine{bidi}{%
12082       The absolute final footnote is not
12083       known on every page of your
12084       document. Rerun TeX to get the
12085       absolute final footnote on every page
12086       of your document%
12087     }%
12088   \fi
12089 }
12090 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12091   \extrafeetminihook}
12092 \bidi@ensure@newcommand{\extrafeetendmini}{%
12093   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12094   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12095   \extrafeetendminihook}
12096 \bidi@ensure@newcommand{\extrafeetendminihook}{%
12097   \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12098 \def\endminipage{%
12099   \par
12100   \unskip
12101   \m@mdoextrafeetendmini
12102   \ifvoid\@mpfootins
12103     \else
12104       \vskip\skip\@mpfootins
12105       \normalcolor
12106       \footnoterule
12107       \unvbox\@mpfootins
12108   \fi
12109   \@minipagefalse

```



```

12110 \color@endgroup
12111 \egroup
12112 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12113 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12114 \@namedef{\footstart#1}{%
12115 \leftskip=\z@
12116 \rightskip=\z@
12117 \parindent=\z@
12118 }%
12119 }
12120 \newinsert\footinsv@r
12121 \skip\footinsv@r\skip\footins
12122 \count\footinsv@r=1000 % no magnification
12123 \dimen\footinsv@r=\footinsdim
12124 \m@make@footstart{v@r}
12125 \newinsert\footinsv@l
12126 \skip\footinsv@l\skip\footins
12127 \count\footinsv@l=1000 % no magnification
12128 \dimen\footinsv@l=\footinsdim
12129 \m@make@footstart{v@l}
12130 \bidi@ensure@newcommand{\@footgroupv@r}{%
12131 \newinsert\@mpfootinsv@r
12132 \skip\@mpfootinsv@r\skip\@mpfootins
12133 \newinsert\@mpfootinsv@l
12134 \skip\@mpfootinsv@l\skip\@mpfootins
12135 \bidi@ensure@newcommand{\mp@footgroupv@r}{%
12136 \newcount\m@m@k \newdimen\m@m@h
12137 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12138 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12139 \valign{##\vfill\cr\m@m@dosplits}\endR}}
12140 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12141 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12142 \valign{##\vfill\cr\m@m@dosplits}\endL}}
12143 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
12144 \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
12145 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
12146 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12147 \setbox2 \vsplit0 to \dimen0
12148 \unvbox2 }
12149 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12150 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
12151 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
12152 \@bidi@before@Hy@hyperfootnotes
12153 \let\@footnotetext\@twocolfootnotetext
12154 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12155 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12156 \dimen\footinsv@r=2\footinsdim
12157 \count\footinsv@r=500\relax
12158 \m@make@twocol@footgroup{v@r}%
12159 \let\@footgroupv@r\@twocol@footgroupv@r
12160 \dimen\footinsv@l=2\footinsdim
12161 \count\footinsv@l=500\relax
12162 \bidi@make@twocol@LTRfootgroup{v@l}%
12163 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l

```



```

12164 \let\@mpfootnotetext\@mptwocolfootnotetext
12165 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12166 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12167 \@bidi@after@Hy@hyperfootnotes
12168 \m@make@mptwocol@footgroup{v@r}%
12169 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12170 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12171 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12172 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12173 }
12174 \newcommand{\TwoColumnFootnotes}{%
12175 \@namedef{foottextfontv@r}{\foottextfont}%
12176 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12177 \@bidi@before@Hy@hyperfootnotes
12178 \let\@footnotetext\@TwoColfootnotetext
12179 \let\@LTRfootnotetext\@TwoColLTRfootnotetext
12180 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12181 \dimen\footinsv@r=2\footinsdim
12182 \count\footinsv@r=500\relax
12183 \m@make@twocol@footgroup{v@r}%
12184 \let\@footgroupv@r\@twocol@footgroupv@r
12185 \dimen\footinsv@l=2\footinsdim
12186 \count\footinsv@l=500\relax
12187 \bidi@make@twocol@LTRfootgroup{v@l}%
12188 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12189 \let\@mpfootnotetext\@mpTwoColfootnotetext
12190 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12191 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12192 \@bidi@after@Hy@hyperfootnotes
12193 \m@make@mptwocol@footgroup{v@r}%
12194 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12195 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12196 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12197 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12198 }
12199 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12200 \if@RTL@footnote
12201 \footinsv@r
12202 \else
12203 \footinsv@l
12204 \fi
12205 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12206 \def\baselinestretch{\m@mm@footnote@spacing}%
12207 \reset@font\foottextfont
12208 \@preamfntext
12209 \protected@edef\@currentlabel{%
12210 \csname p@footnote\endcsname\@thefnmark}%
12211 \color@begingroup
12212 \@twocolfootfmt{#1}%
12213 \color@endgroup}%
12214 \m@mmf@prepare}
12215 \newcommand{\@TwoColfootnotetext}[1]{%
12216 \bidi@step@absolutefootnote@count
12217 \if@RTL@footnote

```



```

12218 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12219 \else
12220 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12221 \fi
12222 \global\setbox
12223 \if@RTL@footnote
12224 \footinsv@r
12225 \else
12226 \footinsv@l
12227 \fi
12228 \vbox{%
12229 \unvbox
12230 \if@RTL@footnote
12231 \footinsv@r
12232 \else
12233 \footinsv@l
12234 \fi
12235 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12236 \def\baselinestretch{\m@m@footnote@spacing}%
12237 \reset@font\foottextfont
12238 \@preamfntext
12239 \protected@edef\@currentlabel{%
12240 \csname p@footnote\endcsname\@thefnmark}%
12241 \color@begingroup
12242 \@twocolfootfmt{#1}%
12243 \color@endgroup}%
12244 \m@mmf@prepare
12245 \if@RTL@footnote
12246 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12247 \else
12248 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12249 \fi
12250 }
12251 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12252 \def\baselinestretch{\m@m@footnote@spacing}%
12253 \reset@font\LTRfoottextfont
12254 \@preamfntext
12255 \protected@edef\@currentlabel{%
12256 \csname p@footnote\endcsname\@thefnmark}%
12257 \color@begingroup
12258 \@twocolLTRfootfmt{#1}%
12259 \color@endgroup}%
12260 \m@mmf@prepare}
12261 \newcommand{\@TwoColLTRfootnotetext}[1]{%
12262 \bidi@step@absolute@footnote@count
12263 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12264 \global\setbox\footinsv@l\vbox{%
12265 \unvbox\footinsv@l
12266 \@RTLfalse
12267 \def\baselinestretch{\m@m@footnote@spacing}%
12268 \reset@font\LTRfoottextfont
12269 \@preamfntext
12270 \protected@edef\@currentlabel{%
12271 \csname p@footnote\endcsname\@thefnmark}%

```



```

12272 \color@begingroup
12273 \@twocolLTRfootfmt{#1}%
12274 \color@endgroup}%
12275 \m@mmf@prepare
12276 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12277 }
12278 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12279 \def\baselinestretch{\m@mm@footnote@spacing}%
12280 \reset@font\RTLfoottextfont
12281 \@preamftext
12282 \protected@edef\@currentlabel{%
12283 \csname p@footnote\endcsname\@thefnmark}%
12284 \color@begingroup
12285 \@twocolRTLfootfmt{#1}%
12286 \color@endgroup}%
12287 \m@mmf@prepare}
12288 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12289 \bidi@step@absolutefootnote@count
12290 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12291 \global\setbox\footinsv@r\vbox{%
12292 \unvbox\footinsv@r
12293 \@RTLtrue
12294 \def\baselinestretch{\m@mm@footnote@spacing}%
12295 \reset@font\RTLfoottextfont
12296 \@preamftext
12297 \protected@edef\@currentlabel{%
12298 \csname p@footnote\endcsname\@thefnmark}%
12299 \color@begingroup
12300 \@twocolRTLfootfmt{#1}%
12301 \color@endgroup}%
12302 \m@mmf@prepare
12303 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12304 }
12305 \bidi@ensure@newcommand{\@preamtwofmt}{%
12306 \hspace{.45\hsize}
12307 \parindent=\z@
12308 \tolerance=5000\relax
12309 \leavevmode}
12310 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12311 \@preamtwofmt
12312 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12313 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12314 \@preamtwofmt
12315 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12316 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12317 \@preamtwofmt
12318 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12319 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12320 \global\setbox
12321 \if@RTL@footnote
12322 \@mpfootinsv@r
12323 \else
12324 \@mpfootinsv@l
12325 \fi

```



```

12326 \vbox{%
12327   \unvbox
12328   \if@RTL@footnote
12329     \@mpfootinsv@r
12330 \else
12331   \@mpfootinsv@l
12332 \fi
12333   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12334   \def\baselinestretch{\m@m@footnote@spacing}%
12335   \reset@font\foottextfont
12336   \hsize\columnwidth \@parboxrestore
12337   \protected@edef\@currentlabel{%
12338     \csname p@mpfootnote\endcsname\@thefnmark}%
12339   \color@begingroup
12340     \@twocolfootfmt{#1}%
12341   \color@endgroup}%
12342   \m@m@mmf@prepare}
12343 \newcommand{\@mpTwoColfootnotetext}[1]{%
12344   \if@RTL@footnote
12345     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12346   \else
12347     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12348   \fi
12349   \global\setbox
12350     \if@RTL@footnote
12351       \@mpfootinsv@r
12352   \else
12353     \@mpfootinsv@l
12354   \fi
12355   \vbox{%
12356     \unvbox
12357     \if@RTL@footnote
12358       \@mpfootinsv@r
12359   \else
12360     \@mpfootinsv@l
12361   \fi
12362   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12363   \def\baselinestretch{\m@m@footnote@spacing}%
12364   \reset@font\foottextfont
12365   \hsize\columnwidth \@parboxrestore
12366   \protected@edef\@currentlabel{%
12367     \csname p@mpfootnote\endcsname\@thefnmark}%
12368   \color@begingroup
12369     \@twocolfootfmt{#1}%
12370   \color@endgroup}%
12371   \m@m@mmf@prepare}
12372 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12373   \global\setbox\@mpfootinsv@l\vbox{%
12374     \unvbox\@mpfootinsv@l
12375     \@RTLfalse
12376     \def\baselinestretch{\m@m@footnote@spacing}%
12377     \reset@font\LTRfoottextfont
12378     \hsize\columnwidth \@parboxrestore
12379     \protected@edef\@currentlabel{%

```



```

12380      \csname p@mpfootnote\endcsname\@thefnmark}%
12381 \color@begingroup
12382   \@twocolLTRfootfmt{#1}%
12383 \color@endgroup}%
12384 \m@mmf@prepare}
12385 \newcommand{\@mpTwoCollTRfootnotetext}[1]{%
12386 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12387 \global\setbox\@mpfootinsv@l\vbox{%
12388   \unvbox\@mpfootinsv@l
12389   \@RTLfalse
12390   \def\baselinestretch{\m@m@footnote@spacing}%
12391   \reset@font\LTRfoottextfont
12392   \hsize\columnwidth \@parboxrestore
12393   \protected@edef\@currentlabel{%
12394     \csname p@mpfootnote\endcsname\@thefnmark}%
12395   \color@begingroup
12396     \@twocolLTRfootfmt{#1}%
12397   \color@endgroup}%
12398   \m@mmf@prepare}
12399 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12400 \global\setbox\@mpfootinsv@r\vbox{%
12401   \unvbox\@mpfootinsv@r
12402   \@RTLtrue
12403   \def\baselinestretch{\m@m@footnote@spacing}%
12404   \reset@font\RTLfoottextfont
12405   \hsize\columnwidth \@parboxrestore
12406   \protected@edef\@currentlabel{%
12407     \csname p@mpfootnote\endcsname\@thefnmark}%
12408   \color@begingroup
12409     \@twocolRTLfootfmt{#1}%
12410   \color@endgroup}%
12411   \m@mmf@prepare}
12412 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12413 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12414 \global\setbox\@mpfootinsv@r\vbox{%
12415   \unvbox\@mpfootinsv@r
12416   \@RTLtrue
12417   \def\baselinestretch{\m@m@footnote@spacing}%
12418   \reset@font\RTLfoottextfont
12419   \hsize\columnwidth \@parboxrestore
12420   \protected@edef\@currentlabel{%
12421     \csname p@mpfootnote\endcsname\@thefnmark}%
12422   \color@begingroup
12423     \@twocolRTLfootfmt{#1}%
12424   \color@endgroup}%
12425   \m@mmf@prepare}
12426 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12427   \@namedef{@twocol@footgroup#1}{%
12428     \def\baselinestretch{\m@m@footnote@spacing}%
12429     \hsize\bidi@columnwidth
12430     \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12431     \m@rigrigidbodybalance{\nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12432 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12433   \@namedef{@twocol@LTRfootgroup#1}{%

```




```

12434 \def\baselinestretch{\m@m@footnote@spacing}%
12435 \hsize\bidicolumnwidth
12436 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12437 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12438 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12439 \@namedef{@mptwocol@footgroup#1}{%
12440 \def\baselinestretch{\m@m@footnote@spacing}%
12441 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12442 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}}
12443 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12444 \@namedef{@mptwocol@LTRfootgroup#1}{%
12445 \def\baselinestretch{\m@m@footnote@spacing}%
12446 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12447 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}}
12448 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12449 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12450 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12451 \@bidi@before@Hy@hyperfootnotes
12452 \let\@footnotetext\@threecolfootnotetext
12453 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12454 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12455 \dimen\footinsv@r=3\footinsdim
12456 \count\footinsv@r=333\relax
12457 \m@make@threecol@footgroup{v@r}%
12458 \let\@footgroupv@r\@threecol@footgroupv@r
12459 \dimen\footinsv@l=3\footinsdim
12460 \count\footinsv@l=333\relax
12461 \bidi@make@threecol@LTRfootgroup{v@l}%
12462 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12463 \let\@mpfootnotetext\@mpthreecolfootnotetext
12464 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12465 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12466 \@bidi@after@Hy@hyperfootnotes
12467 \m@make@mpthreecol@footgroup{v@r}%
12468 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12469 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12470 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12471 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12472 }
12473 \newcommand{\ThreeColumnFootnotes}{%
12474 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12475 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12476 \@bidi@before@Hy@hyperfootnotes
12477 \let\@footnotetext\@ThreeColfootnotetext
12478 \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12479 \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12480 \dimen\footinsv@r=3\footinsdim
12481 \count\footinsv@r=333\relax
12482 \m@make@threecol@footgroup{v@r}%
12483 \let\@footgroupv@r\@threecol@footgroupv@r
12484 \dimen\footinsv@l=3\footinsdim
12485 \count\footinsv@l=333\relax
12486 \bidi@make@threecol@LTRfootgroup{v@l}%
12487 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l

```



```

12488 \let\@mpfootnotetext\@mpThreeColfootnotetext
12489 \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12490 \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12491 \@bidi@after@Hy@hyperfootnotes
12492 \m@make@mpthreecol@footgroup{v@r}%
12493 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12494 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12495 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12496 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12497 }
12498 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12499 \ifRTL@footnote
12500 \footinsv@r
12501 \else
12502 \footinsv@l
12503 \fi
12504 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12505 \def\baselinestretch{\m@footnote@spacing}%
12506 \reset@font\foottextfont
12507 \@preamfntext
12508 \protected@edef\@currentlabel{%
12509 \csname p@footnote\endcsname\@thefnmark}%
12510 \color@begingroup
12511 \@threecolfootfmt{#1}%
12512 \color@endgroup}\m@mmf@prepare}
12513 \newcommand{\@ThreeColfootnotetext}[1]{%
12514 \bidi@step@absolute@footnote@count
12515 \ifRTL@footnote
12516 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12517 \else
12518 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12519 \fi
12520 \global\setbox
12521 \ifRTL@footnote
12522 \footinsv@r
12523 \else
12524 \footinsv@l
12525 \fi
12526 \vbox{%
12527 \unvbox
12528 \ifRTL@footnote
12529 \footinsv@r
12530 \else
12531 \footinsv@l
12532 \fi
12533 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12534 \def\baselinestretch{\m@footnote@spacing}%
12535 \reset@font\foottextfont
12536 \@preamfntext
12537 \protected@edef\@currentlabel{%
12538 \csname p@footnote\endcsname\@thefnmark}%
12539 \color@begingroup
12540 \@threecolfootfmt{#1}%
12541 \color@endgroup}\m@mmf@prepare

```



```

12542 \if@RTL@footnote
12543   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12544 \else
12545   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12546 \fi
12547 }
12548 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12549 \def\baselinestretch{\m@m@footnote@spacing}%
12550 \reset@font\LTRfoottextfont
12551 \@preamfntext
12552 \protected@edef\@currentlabel{%
12553   \csname p@footnote\endcsname\@thefnmark}%
12554 \color@begingroup
12555   \@threecolLTRfootfmt{#1}%
12556 \color@endgroup}\m@mmf@prepare}
12557 \newcommand{\@ThreeColLTRfootnotetext}[1]{%
12558 \bidi@step@absolutefootnote@count
12559 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12560 \global\setbox\footinsv@l\vbox{%
12561 \unvbox\footinsv@l
12562 \@RTLfalse
12563 \def\baselinestretch{\m@m@footnote@spacing}%
12564 \reset@font\LTRfoottextfont
12565 \@preamfntext
12566 \protected@edef\@currentlabel{%
12567   \csname p@footnote\endcsname\@thefnmark}%
12568 \color@begingroup
12569   \@threecolLTRfootfmt{#1}%
12570 \color@endgroup}\m@mmf@prepare
12571 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12572 }
12573 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12574 \def\baselinestretch{\m@m@footnote@spacing}%
12575 \reset@font\RTLfoottextfont
12576 \@preamfntext
12577 \protected@edef\@currentlabel{%
12578   \csname p@footnote\endcsname\@thefnmark}%
12579 \color@begingroup
12580   \@threecolRTLfootfmt{#1}%
12581 \color@endgroup}\m@mmf@prepare}
12582 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12583 \bidi@step@absolutefootnote@count
12584 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12585 \global\setbox\footinsv@r\vbox{%
12586 \unvbox\footinsv@r
12587 \@RTLtrue
12588 \def\baselinestretch{\m@m@footnote@spacing}%
12589 \reset@font\RTLfoottextfont
12590 \@preamfntext
12591 \protected@edef\@currentlabel{%
12592   \csname p@footnote\endcsname\@thefnmark}%
12593 \color@begingroup
12594   \@threecolRTLfootfmt{#1}%
12595 \color@endgroup}\m@mmf@prepare

```



```

12596 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12597 }
12598 \bidi@ensure@newcommand{\@preamthreefmt}{%
12599 \hspace .3\hspace
12600 \parindent=\z@
12601 \tolerance=5000\relax
12602 \leavevmode}
12603 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12604 \@preamthreefmt
12605 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12606 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12607 \@preamthreefmt
12608 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12609 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12610 \@preamthreefmt
12611 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12612 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12613 \global\setbox
12614 \if@RTL@footnote
12615 \@mpfootinsv@r
12616 \else
12617 \@mpfootinsv@l
12618 \fi
12619 \vbox{%
12620 \unvbox
12621 \if@RTL@footnote
12622 \@mpfootinsv@r
12623 \else
12624 \@mpfootinsv@l
12625 \fi
12626 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12627 \def\baselinestretch{\m@m@footnote@spacing}%
12628 \reset@font\foottextfont
12629 \hspace\columnwidth \@parboxrestore
12630 \protected@edef\@currentlabel{%
12631 \csname p@mpfootnote\endcsname\@thefnmark}%
12632 \color@begingroup
12633 \@threecolfootfmt{#1}%
12634 \color@endgroup}\m@m@mmf@prepare}
12635 \newcommand{\@mpThreeColfootnotetext}[1]{%
12636 \if@RTL@footnote
12637 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12638 \else
12639 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12640 \fi
12641 \global\setbox
12642 \if@RTL@footnote
12643 \@mpfootinsv@r
12644 \else
12645 \@mpfootinsv@l
12646 \fi
12647 \vbox{%
12648 \unvbox
12649 \if@RTL@footnote

```



```

12650 \mpfootinsv@r
12651 \else
12652 \mpfootinsv@l
12653 \fi
12654 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12655 \def\baselinestretch{\m@m@footnote@spacing}%
12656 \reset@font\foottextfont
12657 \hsize\columnwidth \@parboxrestore
12658 \protected@edef\@currentlabel{%
12659 \csname p@mpfootnote\endcsname\@thefnmark}%
12660 \color@begingroup
12661 \@threecolfootfmt{#1}%
12662 \color@endgroup}\m@mmf@prepare}
12663 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12664 \global\setbox\@mpfootinsv@l\vbox{%
12665 \unvbox\@mpfootinsv@l
12666 \@RTLfalse
12667 \def\baselinestretch{\m@m@footnote@spacing}%
12668 \reset@font\LTRfoottextfont
12669 \hsize\columnwidth \@parboxrestore
12670 \protected@edef\@currentlabel{%
12671 \csname p@mpfootnote\endcsname\@thefnmark}%
12672 \color@begingroup
12673 \@threecolLTRfootfmt{#1}%
12674 \color@endgroup}\m@mmf@prepare}
12675 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12676 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12677 \global\setbox\@mpfootinsv@l\vbox{%
12678 \unvbox\@mpfootinsv@l
12679 \@RTLfalse
12680 \def\baselinestretch{\m@m@footnote@spacing}%
12681 \reset@font\LTRfoottextfont
12682 \hsize\columnwidth \@parboxrestore
12683 \protected@edef\@currentlabel{%
12684 \csname p@mpfootnote\endcsname\@thefnmark}%
12685 \color@begingroup
12686 \@threecolLTRfootfmt{#1}%
12687 \color@endgroup}\m@mmf@prepare}
12688 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12689 \global\setbox\@mpfootinsv@r\vbox{%
12690 \unvbox\@mpfootinsv@r
12691 \@RTLtrue
12692 \def\baselinestretch{\m@m@footnote@spacing}%
12693 \reset@font\RTLfoottextfont
12694 \hsize\columnwidth \@parboxrestore
12695 \protected@edef\@currentlabel{%
12696 \csname p@mpfootnote\endcsname\@thefnmark}%
12697 \color@begingroup
12698 \@threecolRTLfootfmt{#1}%
12699 \color@endgroup}\m@mmf@prepare}
12700 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12701 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12702 \global\setbox\@mpfootinsv@r\vbox{%
12703 \unvbox\@mpfootinsv@r

```



```

12704 \RTLtrue
12705 \def\baselinestretch{\m@m@footnote@spacing}%
12706 \reset@font\RTLfoottextfont
12707 \hsize\columnwidth \@parboxrestore
12708 \protected@edef\@currentlabel{%
12709 \csname p@mpfootnote\endcsname\@thefnmark}%
12710 \color@begingroup
12711 \threecolRTLfootfmt{#1}%
12712 \color@endgroup}\m@mmf@prepare}
12713 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12714 \@namedef{\threecol@footgroup#1}{%
12715 \def\baselinestretch{\m@m@footnote@spacing}%
12716 \hsize\bidi@columnwidth
12717 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12718 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12719 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12720 \@namedef{\threecol@LTRfootgroup#1}{%
12721 \def\baselinestretch{\m@m@footnote@spacing}%
12722 \hsize\bidi@columnwidth
12723 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12724 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12725 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12726 \@namedef{\mpthreecol@footgroup#1}{%
12727 \def\baselinestretch{\m@m@footnote@spacing}%
12728 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12729 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12730 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12731 \@namedef{\mpthreecol@LTRfootgroup#1}{%
12732 \def\baselinestretch{\m@m@footnote@spacing}%
12733 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12734 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12735 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12736 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12737 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12738 \@bidi@before@Hy@hyperfootnotes
12739 \let\@footnotetext\@fourcolfootnotetext
12740 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12741 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12742 \dimen\footinsv@r=4\footinsdim
12743 \count\footinsv@r=250\relax
12744 \m@make@fourcol@footgroup{v@r}%
12745 \let\@footgroupv@r\@fourcol@footgroupv@r
12746 \dimen\footinsv@l=4\footinsdim
12747 \count\footinsv@l=250\relax
12748 \bidi@make@fourcol@LTRfootgroup{v@l}%
12749 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12750 \let\@mpfootnotetext\@mpfourcolfootnotetext
12751 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12752 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12753 \@bidi@after@Hy@hyperfootnotes
12754 \m@make@mpfourcol@footgroup{v@r}%
12755 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12756 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12757 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l

```



```

12758 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
12759 }
12760 \newcommand{\FourColumnFootnotes}{%
12761 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12762 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12763 \@bidi@before@Hy@hyperfootnotes
12764 \let\@footnotetext\@FourColfootnotetext
12765 \let\@LTRfootnotetext\@FourColLTRfootnotetext
12766 \let\@RTLfootnotetext\@FourColRTLfootnotetext
12767 \dimen\footinsv@r=4\footinsdim
12768 \count\footinsv@r=250\relax
12769 \m@make@fourcol@footgroup{v@r}%
12770 \let\@footgroupv@r\@fourcol@footgroupv@r
12771 \dimen\footinsv@l=4\footinsdim
12772 \count\footinsv@l=250\relax
12773 \bidi@make@fourcol@LTRfootgroup{v@l}%
12774 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12775 \let\@mpfootnotetext\@mpFourColfootnotetext
12776 \let\@mpLTRfootnotetext\@mpFourColLTRfootnotetext
12777 \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12778 \@bidi@after@Hy@hyperfootnotes
12779 \m@make@mpfourcol@footgroup{v@r}%
12780 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12781 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12782 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12783 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
12784 }
12785 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12786 \if@RTL@footnote
12787 \footinsv@r
12788 \else
12789 \footinsv@l
12790 \fi
12791 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12792 \def\baselinestretch{\m@footnote@spacing}%
12793 \reset@font\foottextfont
12794 \@preamfntext
12795 \protected@edef\@currentlabel{%
12796 \csname p@footnote\endcsname\@thefnmark}%
12797 \color@begingroup
12798 \@fourcolfootfmt{#1}%
12799 \color@endgroup}%
12800 \m@mmf@prepare}
12801 \newcommand{\@FourColfootnotetext}[1]{%
12802 \bidi@step@absolute@footnote@count
12803 \if@RTL@footnote
12804 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12805 \else
12806 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12807 \fi
12808 \global\setbox
12809 \if@RTL@footnote
12810 \footinsv@r
12811 \else

```



```

12812 \footinsv@l
12813 \fi
12814 \vbox{%
12815 \unvbox
12816 \if@RTL@footnote
12817 \footinsv@r
12818 \else
12819 \footinsv@l
12820 \fi
12821 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12822 \def\baselinestretch{\m@m@footnote@spacing}%
12823 \reset@font\foottextfont
12824 \@preamfntext
12825 \protected@edef\@currentlabel{%
12826 \csname p@footnote\endcsname\@thefnmark}%
12827 \color@begingroup
12828 \@fourcolfootfmt{#1}%
12829 \color@endgroup}%
12830 \m@m@mmf@prepare
12831 \if@RTL@footnote
12832 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12833 \else
12834 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12835 \fi
12836 }
12837 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12838 \def\baselinestretch{\m@m@footnote@spacing}%
12839 \reset@font\LTRfoottextfont
12840 \@preamfntext
12841 \protected@edef\@currentlabel{%
12842 \csname p@footnote\endcsname\@thefnmark}%
12843 \color@begingroup
12844 \@fourcolLTRfootfmt{#1}%
12845 \color@endgroup}%
12846 \m@m@mmf@prepare}
12847 \newcommand{\@FourColLTRfootnotetext}[1]{%
12848 \bidi@step@absolutefootnote@count
12849 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12850 \global\setbox\footinsv@l\vbox{%
12851 \unvbox\footinsv@l
12852 \@RTLfalse%
12853 \def\baselinestretch{\m@m@footnote@spacing}%
12854 \reset@font\LTRfoottextfont
12855 \@preamfntext
12856 \protected@edef\@currentlabel{%
12857 \csname p@footnote\endcsname\@thefnmark}%
12858 \color@begingroup
12859 \@fourcolLTRfootfmt{#1}%
12860 \color@endgroup}%
12861 \m@m@mmf@prepare
12862 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12863 }
12864 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12865 \def\baselinestretch{\m@m@footnote@spacing}%

```




```

12866 \reset@font\RTLfoottextfont
12867 \@preamfntext
12868 \protected@edef\@currentlabel{%
12869   \csname p@footnote\endcsname\@thefnmark}%
12870 \color@begingroup
12871   \@fourcolRTLfootfmt{#1}%
12872 \color@endgroup}%
12873 \m@mmf@prepare}
12874 \newcommand{\@FourColRTLfootnotetext}[1]{%
12875   \bidi@step@absolutefootnote@count
12876   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12877   \global\setbox\footinsv@r\vbox{%
12878     \unvbox\footinsv@r
12879     \@RTLtrue
12880     \def\baselinestretch{\m@m@footnote@spacing}%
12881     \reset@font\RTLfoottextfont
12882     \@preamfntext
12883     \protected@edef\@currentlabel{%
12884       \csname p@footnote\endcsname\@thefnmark}%
12885     \color@begingroup
12886       \@fourcolRTLfootfmt{#1}%
12887     \color@endgroup}%
12888     \m@mmf@prepare
12889     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12890 }
12891 \bidi@ensure@newcommand{\@preamfourfmt}{%
12892   \hspace{.25\hspace}
12893   \parindent=\z@
12894   \tolerance=5000\relax
12895   \leavevmode}
12896 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12897   \@preamfourfmt
12898   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12899 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12900   \@preamfourfmt
12901   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12902 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12903   \@preamfourfmt
12904   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12905 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12906   \global\setbox
12907     \if@RTL@footnote
12908     \@mpfootinsv@r
12909   \else
12910     \@mpfootinsv@l
12911   \fi
12912   \vbox{%
12913     \unvbox
12914     \if@RTL@footnote
12915     \@mpfootinsv@r
12916   \else
12917     \@mpfootinsv@l
12918   \fi
12919   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```



```

12920 \def\baselinestretch{\m@m@footnote@spacing}%
12921 \reset@font\foottextfont
12922 \hsize\columnwidth \@parboxrestore
12923 \protected@edef\@currentlabel{%
12924 \csname p@mpfootnote\endcsname\@thefnmark}%
12925 \color@begingroup
12926 \@fourcolfootfmt{#1}%
12927 \color@endgroup}%
12928 \m@mmf@prepare}
12929 \newcommand{\@mpFourColfootnotetext}[1]{%
12930 \if@RTL@footnote
12931 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12932 \else
12933 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12934 \fi
12935 \global\setbox
12936 \if@RTL@footnote
12937 \@mpfootinsv@r
12938 \else
12939 \@mpfootinsv@l
12940 \fi
12941 \vbox{%
12942 \unvbox
12943 \if@RTL@footnote
12944 \@mpfootinsv@r
12945 \else
12946 \@mpfootinsv@l
12947 \fi
12948 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12949 \def\baselinestretch{\m@m@footnote@spacing}%
12950 \reset@font\foottextfont
12951 \hsize\columnwidth \@parboxrestore
12952 \protected@edef\@currentlabel{%
12953 \csname p@mpfootnote\endcsname\@thefnmark}%
12954 \color@begingroup
12955 \@fourcolfootfmt{#1}%
12956 \color@endgroup}%
12957 \m@mmf@prepare}
12958 \bidi@ensure@newcommand{\@mpfourcollTRfootnotetext}[1]{%
12959 \global\setbox\@mpfootinsv@l\vbox{%
12960 \unvbox\@mpfootinsv@l
12961 \@RTLfalse
12962 \def\baselinestretch{\m@m@footnote@spacing}%
12963 \reset@font\LTRfoottextfont
12964 \hsize\columnwidth \@parboxrestore
12965 \protected@edef\@currentlabel{%
12966 \csname p@mpfootnote\endcsname\@thefnmark}%
12967 \color@begingroup
12968 \@fourcollTRfootfmt{#1}%
12969 \color@endgroup}%
12970 \m@mmf@prepare}
12971 \newcommand{\@mpFourCollTRfootnotetext}[1]{%
12972 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12973 \global\setbox\@mpfootinsv@l\vbox{%

```



```

12974 \unvbox\@mpfootinsv@l
12975 \@RTLfalse
12976 \def\baselinestretch{\m@m@footnote@spacing}%
12977 \reset@font\LTRfoottextfont
12978 \hsize\columnwidth \@parboxrestore
12979 \protected@edef\@currentlabel{%
12980 \csname p@mpfootnote\endcsname\@thefnmark}%
12981 \color@begingroup
12982 \@fourcolLTRfootfmt{#1}%
12983 \color@endgroup}%
12984 \m@mmf@prepare}
12985 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12986 \global\setbox\@mpfootinsv@r\vbox{%
12987 \unvbox\@mpfootinsv@r
12988 \@RTLtrue
12989 \def\baselinestretch{\m@m@footnote@spacing}%
12990 \reset@font\RTLfoottextfont
12991 \hsize\columnwidth \@parboxrestore
12992 \protected@edef\@currentlabel{%
12993 \csname p@mpfootnote\endcsname\@thefnmark}%
12994 \color@begingroup
12995 \@fourcolRTLfootfmt{#1}%
12996 \color@endgroup}%
12997 \m@mmf@prepare}
12998 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
12999 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13000 \global\setbox\@mpfootinsv@r\vbox{%
13001 \unvbox\@mpfootinsv@r
13002 \@RTLtrue
13003 \def\baselinestretch{\m@m@footnote@spacing}%
13004 \reset@font\RTLfoottextfont
13005 \hsize\columnwidth \@parboxrestore
13006 \protected@edef\@currentlabel{%
13007 \csname p@mpfootnote\endcsname\@thefnmark}%
13008 \color@begingroup
13009 \@fourcolRTLfootfmt{#1}%
13010 \color@endgroup}%
13011 \m@mmf@prepare}
13012 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
13013 \@namedef{\@fourcol@footgroup#1}{%
13014 \def\baselinestretch{\m@m@footnote@spacing}%
13015 \hsize\bidi@columnwidth
13016 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13017 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13018 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
13019 \@namedef{\@fourcol@LTRfootgroup#1}{%
13020 \def\baselinestretch{\m@m@footnote@spacing}%
13021 \hsize\bidi@columnwidth
13022 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13023 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13024 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13025 \@namedef{\@mpfourcol@footgroup#1}{%
13026 \def\baselinestretch{\m@m@footnote@spacing}%
13027 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

13028 \m@mrigidbalance{\@nameuse{\mpfootins#1}}{4}{\splittopskip}}
13029 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13030 \@namedef{\mpfourcol@LTRfootgroup#1}{%
13031 \def\baselinestretch{\m@mfotnote@spacing}%
13032 \@nameuse{\foottextfont#1} \splittopskip=\ht\strutbox
13033 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{4}{\splittopskip}}}
13034 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
13035 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
13036 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
13037 \@bidi@before@Hy@hyperfootnotes
13038 \let\@footnotetext\@fivecolfootnotetext
13039 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13040 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13041 \dimen\footinsv@r=5\footinsdim
13042 \count\footinsv@r=200\relax
13043 \m@make@fivecol@footgroup{v@r}%
13044 \let\@footgroupv@r\@fivecol@footgroupv@r
13045 \dimen\footinsv@l=5\footinsdim
13046 \count\footinsv@l=200\relax
13047 \bidi@make@fivecol@LTRfootgroup{v@l}%
13048 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13049 \let\@mpfootnotetext\@mpfivecolfootnotetext
13050 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13051 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13052 \@bidi@after@Hy@hyperfootnotes
13053 \m@make@mpfivecol@footgroup{v@r}%
13054 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13055 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13056 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13057 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13058 }
13059 \newcommand{\FiveColumnFootnotes}{%
13060 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
13061 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
13062 \@bidi@before@Hy@hyperfootnotes
13063 \let\@footnotetext\@FiveColfootnotetext
13064 \let\@LTRfootnotetext\@FiveColLTRfootnotetext
13065 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13066 \dimen\footinsv@r=5\footinsdim
13067 \count\footinsv@r=200\relax
13068 \m@make@fivecol@footgroup{v@r}%
13069 \let\@footgroupv@r\@fivecol@footgroupv@r
13070 \dimen\footinsv@l=5\footinsdim
13071 \count\footinsv@l=200\relax
13072 \bidi@make@fivecol@LTRfootgroup{v@l}%
13073 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13074 \let\@mpfootnotetext\@mpFiveColfootnotetext
13075 \let\@mpLTRfootnotetext\@mpFiveColLTRfootnotetext
13076 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13077 \@bidi@after@Hy@hyperfootnotes
13078 \m@make@mpfivecol@footgroup{v@r}%
13079 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13080 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13081 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l

```



```

13082 \@ifstar\bidistar@footmarkwidth\bidinormal@footmarkwidth
13083 }
13084 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13085 \if@RTL@footnote
13086 \footinsv@r
13087 \else
13088 \footinsv@l
13089 \fi
13090 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13091 \def\baselinestretch{\m@m@footnote@spacing}%
13092 \reset@font\foottextfont
13093 \@preamfntext
13094 \protected@edef\@currentlabel{%
13095 \csname p@footnote\endcsname\@thefnmark}%
13096 \color@begingroup
13097 \@fivecolfootfmt{#1}%
13098 \color@endgroup}%
13099 \m@mmf@prepare}
13100 \newcommand{\@FiveColfootnotetext}[1]{%
13101 \bidi@step@absolute@footnote@count
13102 \if@RTL@footnote
13103 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13104 \else
13105 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13106 \fi
13107 \global\setbox
13108 \if@RTL@footnote
13109 \footinsv@r
13110 \else
13111 \footinsv@l
13112 \fi
13113 \vbox{%
13114 \unvbox
13115 \if@RTL@footnote
13116 \footinsv@r
13117 \else
13118 \footinsv@l
13119 \fi
13120 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13121 \def\baselinestretch{\m@m@footnote@spacing}%
13122 \reset@font\foottextfont
13123 \@preamfntext
13124 \protected@edef\@currentlabel{%
13125 \csname p@footnote\endcsname\@thefnmark}%
13126 \color@begingroup
13127 \@fivecolfootfmt{#1}%
13128 \color@endgroup}%
13129 \m@mmf@prepare
13130 \if@RTL@footnote
13131 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13132 \else
13133 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13134 \fi
13135 }

```



```

13136 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13137 \def\baselinestretch{\m@m@footnote@spacing}%
13138 \reset@font\LTRfoottextfont
13139 \@preamfntext
13140 \protected@edef\@currentlabel{%
13141 \csname p@footnote\endcsname\@thefnmark}%
13142 \color@begingroup
13143 \@fivecolLTRfootfmt{#1}%
13144 \color@endgroup}%
13145 \m@m@mmf@prepare}
13146 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13147 \bidi@step@absolutefootnote@count
13148 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13149 \global\setbox\footinsv@l\vbox{%
13150 \unvbox\footinsv@l
13151 \@RTLfalse
13152 \def\baselinestretch{\m@m@footnote@spacing}%
13153 \reset@font\LTRfoottextfont
13154 \@preamfntext
13155 \protected@edef\@currentlabel{%
13156 \csname p@footnote\endcsname\@thefnmark}%
13157 \color@begingroup
13158 \@fivecolLTRfootfmt{#1}%
13159 \color@endgroup}%
13160 \m@m@mmf@prepare
13161 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13162 }
13163 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13164 \def\baselinestretch{\m@m@footnote@spacing}%
13165 \reset@font\RTLfoottextfont
13166 \@preamfntext
13167 \protected@edef\@currentlabel{%
13168 \csname p@footnote\endcsname\@thefnmark}%
13169 \color@begingroup
13170 \@fivecolRTLfootfmt{#1}%
13171 \color@endgroup}%
13172 \m@m@mmf@prepare}
13173 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13174 \bidi@step@absolutefootnote@count
13175 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13176 \global\setbox\footinsv@r\vbox{%
13177 \unvbox\footinsv@r
13178 \@RTLtrue
13179 \def\baselinestretch{\m@m@footnote@spacing}%
13180 \reset@font\RTLfoottextfont
13181 \@preamfntext
13182 \protected@edef\@currentlabel{%
13183 \csname p@footnote\endcsname\@thefnmark}%
13184 \color@begingroup
13185 \@fivecolRTLfootfmt{#1}%
13186 \color@endgroup}%
13187 \m@m@mmf@prepare
13188 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13189 }

```



```

13190 \bidi@ensure@newcommand{\@preamfivefmt}{%
13191   \hsize .2\hsize
13192   \parindent=\z@
13193   \tolerance=5000\relax
13194   \leavevmode}
13195 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13196   \@preamfivefmt
13197   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13198 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13199   \@preamfivefmt
13200   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13201 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13202   \@preamfivefmt
13203   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13204 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
13205   \global\setbox
13206     \if@RTL@footnote
13207     \@mpfootinsv@r
13208   \else
13209     \@mpfootinsv@l
13210   \fi
13211   \vbox{%
13212     \unvbox
13213     \if@RTL@footnote
13214     \@mpfootinsv@r
13215   \else
13216     \@mpfootinsv@l
13217   \fi
13218   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13219   \def\baselinestretch{\m@m@footnote@spacing}%
13220   \reset@font\foottextfont
13221   \hsize\columnwidth \@parboxrestore
13222   \protected@edef\@currentlabel{%
13223     \csname p@mpfootnote\endcsname\@thefnmark}%
13224   \color@begingroup
13225     \@fivecolfootfmt{#1}%
13226   \color@endgroup}%
13227   \m@m@footnote@prepare}
13228 \newcommand{\@mpFiveColfootnotetext}[1]{%
13229   \if@RTL@footnote
13230     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13231   \else
13232     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13233   \fi
13234   \global\setbox
13235     \if@RTL@footnote
13236     \@mpfootinsv@r
13237   \else
13238     \@mpfootinsv@l
13239   \fi
13240   \vbox{%
13241     \unvbox
13242     \if@RTL@footnote
13243     \@mpfootinsv@r

```



```

13244 \else
13245 \mpfootinsv@l
13246 \fi
13247 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13248 \def\baselinestretch{\m@m@footnote@spacing}%
13249 \reset@font\foottextfont
13250 \hsize\columnwidth \@parboxrestore
13251 \protected@edef\@currentlabel{%
13252 \csname p@mpfootnote\endcsname\@thefnmark}%
13253 \color@begingroup
13254 \@fivecolfootfmt{#1}%
13255 \color@endgroup}%
13256 \m@m@mmf@prepare}
13257 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
13258 \global\setbox\@mpfootinsv@l\vbox{%
13259 \unvbox\@mpfootinsv@l
13260 \@RTLfalse
13261 \def\baselinestretch{\m@m@footnote@spacing}%
13262 \reset@font\LTRfoottextfont
13263 \hsize\columnwidth \@parboxrestore
13264 \protected@edef\@currentlabel{%
13265 \csname p@mpfootnote\endcsname\@thefnmark}%
13266 \color@begingroup
13267 \@fivecolLTRfootfmt{#1}%
13268 \color@endgroup}%
13269 \m@m@mmf@prepare}
13270 \newcommand{\@mpFiveColLTRfootnotetext}[1]{%
13271 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13272 \global\setbox\@mpfootinsv@l\vbox{%
13273 \unvbox\@mpfootinsv@l
13274 \@RTLfalse
13275 \def\baselinestretch{\m@m@footnote@spacing}%
13276 \reset@font\LTRfoottextfont
13277 \hsize\columnwidth \@parboxrestore
13278 \protected@edef\@currentlabel{%
13279 \csname p@mpfootnote\endcsname\@thefnmark}%
13280 \color@begingroup
13281 \@fivecolLTRfootfmt{#1}%
13282 \color@endgroup}%
13283 \m@m@mmf@prepare}
13284 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13285 \global\setbox\@mpfootinsv@r\vbox{%
13286 \unvbox\@mpfootinsv@r
13287 \@RTLtrue
13288 \def\baselinestretch{\m@m@footnote@spacing}%
13289 \reset@font\RTLfoottextfont
13290 \hsize\columnwidth \@parboxrestore
13291 \protected@edef\@currentlabel{%
13292 \csname p@mpfootnote\endcsname\@thefnmark}%
13293 \color@begingroup
13294 \@fivecolRTLfootfmt{#1}%
13295 \color@endgroup}%
13296 \m@m@mmf@prepare}
13297 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%

```




```

13298 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13299 \global\setbox\@mpfootinsv@r\vbox{%
13300   \unvbox\@mpfootinsv@r
13301   \@RTLtrue
13302   \def\baselinestretch{\m@m@footnote@spacing}%
13303   \reset@font\RTLfoottextfont
13304   \hsize\columnwidth \@parboxrestore
13305   \protected@edef\@currentlabel{%
13306     \csname p@mpfootnote\endcsname\@thefnmark}%
13307   \color@begingroup
13308     \@fivecolRTLfootfmt{#1}%
13309   \color@endgroup}%
13310   \m@m@prepare}
13311 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
13312   \@namedef{\@fivecol@footgroup#1}{%
13313     \def\baselinestretch{\m@m@footnote@spacing}%
13314     \hsize\bidi@columnwidth
13315     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13316     \m@r@rigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
13317 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
13318   \@namedef{\@fivecol@LTRfootgroup#1}{%
13319     \def\baselinestretch{\m@m@footnote@spacing}%
13320     \hsize\bidi@columnwidth
13321     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13322     \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
13323 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13324   \@namedef{\@mpfivecol@footgroup#1}{%
13325     \def\baselinestretch{\m@m@footnote@spacing}%
13326     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13327     \m@r@rigidbalance{\@nameuse{\@mpfootins#1}}{5}{\splittopskip}}}%
13328 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
13329   \@namedef{\@mpfivecol@LTRfootgroup#1}{%
13330     \def\baselinestretch{\m@m@footnote@spacing}%
13331     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13332     \bidi@LTR@rigidbalance{\@nameuse{\@mpfootins#1}}{5}{\splittopskip}}}%
13333 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
13334   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13335   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13336   \@bidi@before@Hy@hyperfootnotes
13337   \let\@footnotetext\@sixcolfootnotetext
13338   \let\@LTRfootnotetext\@sixcolLTRfootnotetext
13339   \let\@RTLfootnotetext\@sixcolRTLfootnotetext
13340   \dimen\footinsv@r=6\footinsdim
13341   \count\footinsv@r=166\relax
13342   \m@make@sixcol@footgroup{v@r}%
13343   \let\@footgroupv@r\@sixcol@footgroupv@r
13344   \dimen\footinsv@l=6\footinsdim
13345   \count\footinsv@l=166\relax
13346   \bidi@make@sixcol@LTRfootgroup{v@l}%
13347   \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13348   \let\@mpfootnotetext\@mps@sixcolfootnotetext
13349   \let\@mpLTRfootnotetext\@mps@sixcolLTRfootnotetext
13350   \let\@mpRTLfootnotetext\@mps@sixcolRTLfootnotetext
13351   \@bidi@after@Hy@hyperfootnotes

```



```

13352 \m@make@mpsixcol@footgroup{v@r}%
13353 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13354 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13355 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13356 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13357 }
13358 \newcommand{\SixColumnFootnotes}{%
13359 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13360 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13361 \@bidi@before@Hy@hyperfootnotes
13362 \let\@footnotetext\@SixColfootnotetext
13363 \let\@LTRfootnotetext\@SixColLTRfootnotetext
13364 \let\@RTLfootnotetext\@SixColRTLfootnotetext
13365 \dimen\footinsv@r=6\footinsdim
13366 \count\footinsv@r=166\relax
13367 \m@make@sixcol@footgroup{v@r}%
13368 \let\@footgroupv@r\@sixcol@footgroupv@r
13369 \dimen\footinsv@l=6\footinsdim
13370 \count\footinsv@l=166\relax
13371 \bidi@make@sixcol@LTRfootgroup{v@l}%
13372 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13373 \let\@mpfootnotetext\@mpSixColfootnotetext
13374 \let\@mpLTRfootnotetext\@mpSixColLTRfootnotetext
13375 \let\@mpRTLfootnotetext\@mpSixColRTLfootnotetext
13376 \@bidi@after@Hy@hyperfootnotes
13377 \m@make@mpsixcol@footgroup{v@r}%
13378 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13379 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13380 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13381 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13382 }
13383 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
13384 \if@RTL@footnote
13385 \footinsv@r
13386 \else
13387 \footinsv@l
13388 \fi
13389 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13390 \def\baselinestretch{\m@m@footnote@spacing}%
13391 \reset@font\foottextfont
13392 \@preamfntext
13393 \protected@edef\@currentlabel{%
13394 \csname p@footnote\endcsname\@thefnmark}%
13395 \color@begingroup
13396 \@sixcolfootfmt{#1}%
13397 \color@endgroup}%
13398 \m@m@mmf@prepare}
13399 \newcommand{\@SixColfootnotetext}[1]{%
13400 \bidi@step@absolute@footnote@count
13401 \if@RTL@footnote
13402 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13403 \else
13404 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13405 \fi

```



```

13406 \global\setbox
13407 \if@RTL@footnote
13408   \footinsv@r
13409 \else
13410   \footinsv@l
13411 \fi
13412 \vbox{%
13413   \unvbox
13414   \if@RTL@footnote
13415     \footinsv@r
13416   \else
13417     \footinsv@l
13418   \fi
13419   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13420   \def\baselinestretch{\m@m@footnote@spacing}%
13421   \reset@font\foottextfont
13422   \@preamfntext
13423   \protected@edef\@currentlabel{%
13424     \csname p@footnote\endcsname\@thefnmark}%
13425   \color@begingroup
13426     \@sixcolfootfmt{#1}%
13427   \color@endgroup}%
13428   \m@mmf@prepare
13429   \if@RTL@footnote
13430     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13431   \else
13432     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13433   \fi
13434 }
13435 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13436   \def\baselinestretch{\m@m@footnote@spacing}%
13437   \reset@font\LTRfoottextfont
13438   \@preamfntext
13439   \protected@edef\@currentlabel{%
13440     \csname p@footnote\endcsname\@thefnmark}%
13441   \color@begingroup
13442     \@sixcolLTRfootfmt{#1}%
13443   \color@endgroup}%
13444   \m@mmf@prepare}
13445 \newcommand{\@SixColLTRfootnotetext}[1]{%
13446   \bidi@step@absolutefootnote@count
13447   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13448   \global\setbox\footinsv@l\vbox{%
13449     \unvbox\footinsv@l
13450     \@RTLfalse
13451     \def\baselinestretch{\m@m@footnote@spacing}%
13452     \reset@font\LTRfoottextfont
13453     \@preamfntext
13454     \protected@edef\@currentlabel{%
13455       \csname p@footnote\endcsname\@thefnmark}%
13456     \color@begingroup
13457       \@sixcolLTRfootfmt{#1}%
13458     \color@endgroup}%
13459     \m@mmf@prepare

```



```

13460 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13461 }
13462 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13463 \def\baselinestretch{\m@m@footnote@spacing}%
13464 \reset@font\RTLfoottextfont
13465 \@preamfntext
13466 \protected@edef\@currentlabel{%
13467 \csname p@footnote\endcsname\@thefnmark}%
13468 \color@begingroup
13469 \@sixcolRTLfootfmt{#1}%
13470 \color@endgroup}%
13471 \m@mmf@prepare}
13472 \newcommand{\@SixColRTLfootnotetext}[1]{%
13473 \bidi@step@absolutefootnote@count
13474 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13475 \global\setbox\footinsv@r\vbox{%
13476 \unvbox\footinsv@r
13477 \@RTLtrue
13478 \def\baselinestretch{\m@m@footnote@spacing}%
13479 \reset@font\RTLfoottextfont
13480 \@preamfntext
13481 \protected@edef\@currentlabel{%
13482 \csname p@footnote\endcsname\@thefnmark}%
13483 \color@begingroup
13484 \@sixcolRTLfootfmt{#1}%
13485 \color@endgroup}%
13486 \m@mmf@prepare
13487 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13488 }
13489 \bidi@ensure@newcommand{\@preamsixfmt}{%
13490 \hspace{.16\hsize}
13491 \parindent=\z@
13492 \tolerance=5000\relax
13493 \leavevmode}
13494 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13495 \@preamsixfmt
13496 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13497 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
13498 \@preamsixfmt
13499 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13500 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13501 \@preamsixfmt
13502 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13503 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13504 \global\setbox
13505 \if@RTL@footnote
13506 \@mpfootinsv@r
13507 \else
13508 \@mpfootinsv@l
13509 \fi
13510 \vbox{%
13511 \unvbox
13512 \if@RTL@footnote
13513 \@mpfootinsv@r

```



```

13514 \else
13515 \mpfootinsv@l
13516 \fi
13517 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13518 \def\baselinestretch{\m@m@footnote@spacing}%
13519 \reset@font\foottextfont
13520 \hsize\columnwidth \@parboxrestore
13521 \protected@edef\@currentlabel{%
13522 \csname p@mpfootnote\endcsname\@thefnmark}%
13523 \color@begingroup
13524 \@sixcolfootfmt{#1}%
13525 \color@endgroup}%
13526 \m@m@mmf@prepare}
13527 \newcommand{\@mpSixColfootnotetext}[1]{%
13528 \if@RTL@footnote
13529 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13530 \else
13531 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13532 \fi
13533 \global\setbox
13534 \if@RTL@footnote
13535 \mpfootinsv@r
13536 \else
13537 \mpfootinsv@l
13538 \fi
13539 \vbox{%
13540 \unvbox
13541 \if@RTL@footnote
13542 \mpfootinsv@r
13543 \else
13544 \mpfootinsv@l
13545 \fi
13546 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13547 \def\baselinestretch{\m@m@footnote@spacing}%
13548 \reset@font\foottextfont
13549 \hsize\columnwidth \@parboxrestore
13550 \protected@edef\@currentlabel{%
13551 \csname p@mpfootnote\endcsname\@thefnmark}%
13552 \color@begingroup
13553 \@sixcolfootfmt{#1}%
13554 \color@endgroup}%
13555 \m@m@mmf@prepare}
13556 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
13557 \global\setbox\@mpfootinsv@l\vbox{%
13558 \unvbox\@mpfootinsv@l
13559 \@RTLfalse
13560 \def\baselinestretch{\m@m@footnote@spacing}%
13561 \reset@font\LTRfoottextfont
13562 \hsize\columnwidth \@parboxrestore
13563 \protected@edef\@currentlabel{%
13564 \csname p@mpfootnote\endcsname\@thefnmark}%
13565 \color@begingroup
13566 \@sixcolLTRfootfmt{#1}%
13567 \color@endgroup}%

```



```

13568 \m@mmf@prepare}
13569 \newcommand{\@mpSixCollTRfootnotetext}[1]{%
13570 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13571 \global\setbox\@mpfootinsv@l\vbox{%
13572 \unvbox\@mpfootinsv@l
13573 \RTLfalse
13574 \def\baselinestretch{\m@m@footnote@spacing}%
13575 \reset@font\LTRfoottextfont
13576 \hsize\columnwidth \@parboxrestore
13577 \protected@edef\@currentlabel{%
13578 \csname p@mpfootnote\endcsname\@thefnmark}%
13579 \color@begingroup
13580 \@sixcollTRfootfmt{#1}%
13581 \color@endgroup}%
13582 \m@mmf@prepare}
13583 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
13584 \global\setbox\@mpfootinsv@r\vbox{%
13585 \unvbox\@mpfootinsv@r
13586 \RTLtrue
13587 \def\baselinestretch{\m@m@footnote@spacing}%
13588 \reset@font\RTLfoottextfont
13589 \hsize\columnwidth \@parboxrestore
13590 \protected@edef\@currentlabel{%
13591 \csname p@mpfootnote\endcsname\@thefnmark}%
13592 \color@begingroup
13593 \@sixcolRTLfootfmt{#1}%
13594 \color@endgroup}%
13595 \m@mmf@prepare}
13596 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13597 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13598 \global\setbox\@mpfootinsv@r\vbox{%
13599 \unvbox\@mpfootinsv@r
13600 \RTLtrue
13601 \def\baselinestretch{\m@m@footnote@spacing}%
13602 \reset@font\RTLfoottextfont
13603 \hsize\columnwidth \@parboxrestore
13604 \protected@edef\@currentlabel{%
13605 \csname p@mpfootnote\endcsname\@thefnmark}%
13606 \color@begingroup
13607 \@sixcolRTLfootfmt{#1}%
13608 \color@endgroup}%
13609 \m@mmf@prepare}
13610 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13611 \@namedef{\@sixcol@footgroup#1}{%
13612 \def\baselinestretch{\m@m@footnote@spacing}%
13613 \hsize\bidi@columnwidth
13614 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13615 \m@r rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
13616 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13617 \@namedef{\@sixcol@LTRfootgroup#1}{%
13618 \def\baselinestretch{\m@m@footnote@spacing}%
13619 \hsize\bidi@columnwidth
13620 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13621 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%

```



```

13622 \bidi@ensure@newcommand{\m@make@mpsixel@footgroup}[1]{%
13623 \@namedef{\mpsixel@footgroup#1}{%
13624 \def\baselinestretch{\m@footnote@spacing}%
13625 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13626 \m@rigidbalance{\@nameuse{\mpfootins#1}}{6}{\splittopskip}}}%
13627 \newcommand{\bidi@make@mpsixel@LTRfootgroup}[1]{%
13628 \@namedef{\mpsixel@LTRfootgroup#1}{%
13629 \def\baselinestretch{\m@footnote@spacing}%
13630 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13631 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{6}{\splittopskip}}}%
13632 \bidi@ensure@newcommand{\sevencolumnfootnotes}{%
13633 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13634 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13635 \@bidi@before@Hy@hyperfootnotes
13636 \let\@footnotetext\@sevencolfootnotetext
13637 \let\@LTRfootnotetext\@sevencolLTRfootnotetext
13638 \let\@RTLfootnotetext\@sevencolRTLfootnotetext
13639 \dimen\footinsv@r=7\footinsdim
13640 \count\footinsv@r=142\relax
13641 \m@make@sevencol@footgroup{v@r}%
13642 \let\@footgroupv@r\@sevencol@footgroupv@r
13643 \dimen\footinsv@l=7\footinsdim
13644 \count\footinsv@l=142\relax
13645 \bidi@make@sevencol@LTRfootgroup{v@l}%
13646 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13647 \let\@mpfootnotetext\@mpsevencolfootnotetext
13648 \let\@mpLTRfootnotetext\@mpsevencolLTRfootnotetext
13649 \let\@mpRTLfootnotetext\@mpsevencolRTLfootnotetext
13650 \@bidi@after@Hy@hyperfootnotes
13651 \m@make@mpsevencol@footgroup{v@r}%
13652 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r
13653 \bidi@make@mpsevencol@LTRfootgroup{v@l}%
13654 \let\mp@LTRfootgroupv@l\@mpsevencol@LTRfootgroupv@l
13655 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13656 }
13657 \newcommand{\SevenColumnFootnotes}{%
13658 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13659 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13660 \@bidi@before@Hy@hyperfootnotes
13661 \let\@footnotetext\@SevenColfootnotetext
13662 \let\@LTRfootnotetext\@SevenColLTRfootnotetext
13663 \let\@RTLfootnotetext\@SevenColRTLfootnotetext
13664 \dimen\footinsv@r=7\footinsdim
13665 \count\footinsv@r=142\relax
13666 \m@make@sevencol@footgroup{v@r}%
13667 \let\@footgroupv@r\@sevencol@footgroupv@r
13668 \dimen\footinsv@l=7\footinsdim
13669 \count\footinsv@l=142\relax
13670 \bidi@make@sevencol@LTRfootgroup{v@l}%
13671 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13672 \let\@mpfootnotetext\@mpSevenColfootnotetext
13673 \let\@mpLTRfootnotetext\@mpSevenColLTRfootnotetext
13674 \let\@mpRTLfootnotetext\@mpSevenColRTLfootnotetext
13675 \@bidi@after@Hy@hyperfootnotes

```



```

13676 \m@make@mpsevenscol@footgroup{v@r}%
13677 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
13678 \bidi@make@mpsevenscol@LTRfootgroup{v@l}%
13679 \let\mp@LTRfootgroupv@l\@mpsevenscol@LTRfootgroupv@l
13680 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13681 }
13682 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
13683 \if@RTL@footnote
13684 \footinsv@r
13685 \else
13686 \footinsv@l
13687 \fi
13688 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13689 \def\baselinestretch{\m@mm@footnote@spacing}%
13690 \reset@font\foottextfont
13691 \@preamfntext
13692 \protected@edef\@currentlabel{%
13693 \csname p@footnote\endcsname\@thefnmark}%
13694 \color@begingroup
13695 \@sevenscolfootfmt{#1}%
13696 \color@endgroup}%
13697 \m@mmf@prepare}
13698 \newcommand{\@SevenColfootnotetext}[1]{%
13699 \bidi@step@absolute@footnote@count
13700 \if@RTL@footnote
13701 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13702 \else
13703 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13704 \fi
13705 \global\setbox
13706 \if@RTL@footnote
13707 \footinsv@r
13708 \else
13709 \footinsv@l
13710 \fi
13711 \vbox{%
13712 \unvbox
13713 \if@RTL@footnote
13714 \footinsv@r
13715 \else
13716 \footinsv@l
13717 \fi
13718 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13719 \def\baselinestretch{\m@mm@footnote@spacing}%
13720 \reset@font\foottextfont
13721 \@preamfntext
13722 \protected@edef\@currentlabel{%
13723 \csname p@footnote\endcsname\@thefnmark}%
13724 \color@begingroup
13725 \@sevenscolfootfmt{#1}%
13726 \color@endgroup}%
13727 \m@mmf@prepare
13728 \if@RTL@footnote
13729 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r

```




```

13730 \else
13731 \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13732 \fi
13733 }
13734 \bidi@ensure@newcommand{\@sevencolLTRfootnotetext}[1]{\insert\footinsv@1{\@RTLfalse%
13735 \def\baselinestretch{\m@m@footnote@spacing}%
13736 \reset@font\LTRfoottextfont
13737 \@preamfntext
13738 \protected@edef\@currentlabel{%
13739 \csname p@footnote\endcsname\@thefnmark}%
13740 \color@begingroup
13741 \@sevencolLTRfootfmt{#1}%
13742 \color@endgroup}%
13743 \m@mmf@prepare}
13744 \newcommand{\@SevenColLTRfootnotetext}[1]{%
13745 \bidi@step@absolute@footnote@count
13746 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13747 \global\setbox\footinsv@1\vbox{%
13748 \unvbox\footinsv@1
13749 \@RTLfalse
13750 \def\baselinestretch{\m@m@footnote@spacing}%
13751 \reset@font\LTRfoottextfont
13752 \@preamfntext
13753 \protected@edef\@currentlabel{%
13754 \csname p@footnote\endcsname\@thefnmark}%
13755 \color@begingroup
13756 \@sevencolLTRfootfmt{#1}%
13757 \color@endgroup}%
13758 \m@mmf@prepare
13759 \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13760 }
13761 \bidi@ensure@newcommand{\@sevencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13762 \def\baselinestretch{\m@m@footnote@spacing}%
13763 \reset@font\RTLfoottextfont
13764 \@preamfntext
13765 \protected@edef\@currentlabel{%
13766 \csname p@footnote\endcsname\@thefnmark}%
13767 \color@begingroup
13768 \@sevencolRTLfootfmt{#1}%
13769 \color@endgroup}%
13770 \m@mmf@prepare}
13771 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13772 \bidi@step@absolute@footnote@count
13773 \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13774 \global\setbox\footinsv@r\vbox{%
13775 \unvbox\footinsv@r
13776 \@RTLtrue
13777 \def\baselinestretch{\m@m@footnote@spacing}%
13778 \reset@font\RTLfoottextfont
13779 \@preamfntext
13780 \protected@edef\@currentlabel{%
13781 \csname p@footnote\endcsname\@thefnmark}%
13782 \color@begingroup
13783 \@sevencolRTLfootfmt{#1}%

```



```

13784 \color@endgroup}%
13785 \m@mmf@prepare
13786 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13787 }
13788 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13789 \hspace{.142\hspace}
13790 \parindent=\z@
13791 \tolerance=5000\relax
13792 \leavevmode}
13793 \bidi@ensure@newcommand{\@sevencolfootfmt}[1]{%
13794 \@preamsevenfmt
13795 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13796 \bidi@ensure@newcommand{\@sevencolLTRfootfmt}[1]{%
13797 \@preamsevenfmt
13798 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13799 \bidi@ensure@newcommand{\@sevencolRTLfootfmt}[1]{%
13800 \@preamsevenfmt
13801 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13802 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
13803 \global\setbox
13804 \if@RTL@footnote
13805 \@mpfootinsv@r
13806 \else
13807 \@mpfootinsv@l
13808 \fi
13809 \vbox{%
13810 \unvbox
13811 \if@RTL@footnote
13812 \@mpfootinsv@r
13813 \else
13814 \@mpfootinsv@l
13815 \fi
13816 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13817 \def\baselinestretch{\m@mm@footnote@spacing}%
13818 \reset@font\foottextfont
13819 \hspace\columnwidth \@parboxrestore
13820 \protected@edef\@currentlabel{%
13821 \csname p@mpfootnote\endcsname\@thefnmark}%
13822 \color@begingroup
13823 \@sevencolfootfmt{#1}%
13824 \color@endgroup}%
13825 \m@mmf@prepare}
13826 \newcommand{\@mpSevenColfootnotetext}[1]{%
13827 \if@RTL@footnote
13828 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13829 \else
13830 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13831 \fi
13832 \global\setbox
13833 \if@RTL@footnote
13834 \@mpfootinsv@r
13835 \else
13836 \@mpfootinsv@l
13837 \fi

```



```

13838 \vbox{%
13839   \unvbox
13840   \if@RTL@footnote
13841   \@mpfootinsv@r
13842 \else
13843   \@mpfootinsv@l
13844 \fi
13845   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13846   \def\baselinestretch{\m@m@footnote@spacing}%
13847   \reset@font\foottextfont
13848   \hsize\columnwidth \@parboxrestore
13849   \protected@edef\@currentlabel{%
13850     \csname p@mpfootnote\endcsname\@thefnmark}%
13851   \color@begingroup
13852     \@sevenscolfootfmt{#1}%
13853   \color@endgroup}%
13854   \m@m@mmf@prepare}
13855 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{%
13856   \global\setbox\@mpfootinsv@l\vbox{%
13857     \unvbox\@mpfootinsv@l
13858     \@RTLfalse
13859     \def\baselinestretch{\m@m@footnote@spacing}%
13860     \reset@font\LTRfoottextfont
13861     \hsize\columnwidth \@parboxrestore
13862     \protected@edef\@currentlabel{%
13863       \csname p@mpfootnote\endcsname\@thefnmark}%
13864     \color@begingroup
13865       \@sevenscolLTRfootfmt{#1}%
13866     \color@endgroup}%
13867     \m@m@mmf@prepare}
13868 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13869   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13870   \global\setbox\@mpfootinsv@l\vbox{%
13871     \unvbox\@mpfootinsv@l
13872     \@RTLfalse
13873     \def\baselinestretch{\m@m@footnote@spacing}%
13874     \reset@font\LTRfoottextfont
13875     \hsize\columnwidth \@parboxrestore
13876     \protected@edef\@currentlabel{%
13877       \csname p@mpfootnote\endcsname\@thefnmark}%
13878     \color@begingroup
13879       \@sevenscolLTRfootfmt{#1}%
13880     \color@endgroup}%
13881     \m@m@mmf@prepare}
13882 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{%
13883   \global\setbox\@mpfootinsv@r\vbox{%
13884     \unvbox\@mpfootinsv@r
13885     \@RTLtrue
13886     \def\baselinestretch{\m@m@footnote@spacing}%
13887     \reset@font\RTLfoottextfont
13888     \hsize\columnwidth \@parboxrestore
13889     \protected@edef\@currentlabel{%
13890       \csname p@mpfootnote\endcsname\@thefnmark}%
13891     \color@begingroup

```



```

13892 \sevenscolRTLfootfmt{#1}%
13893 \color@endgroup}%
13894 \m@mmf@prepare}
13895 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13896 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13897 \global\setbox\@mpfootinsv@r\vbox{%
13898 \unvbox\@mpfootinsv@r
13899 \RTLtrue
13900 \def\baselinestretch{\m@m@footnote@spacing}%
13901 \reset@font\RTLfoottextfont
13902 \hsize\columnwidth \@parboxrestore
13903 \protected@edef\@currentlabel{%
13904 \csname p@mpfootnote\endcsname\@thefnmark}%
13905 \color@begingroup
13906 \sevenscolRTLfootfmt{#1}%
13907 \color@endgroup}%
13908 \m@mmf@prepare}
13909 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
13910 \@namedef{\sevenscol@footgroup#1}{%
13911 \def\baselinestretch{\m@m@footnote@spacing}%
13912 \hsize\bidi@columnwidth
13913 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13914 \m@r@rigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
13915 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
13916 \@namedef{\sevenscol@LTRfootgroup#1}{%
13917 \def\baselinestretch{\m@m@footnote@spacing}%
13918 \hsize\bidi@columnwidth
13919 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13920 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
13921 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
13922 \@namedef{\mpsevenscol@footgroup#1}{%
13923 \def\baselinestretch{\m@m@footnote@spacing}%
13924 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13925 \m@r@rigidbalance{\@nameuse{\mpfootins#1}}{7}{\splittopskip}}}%
13926 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
13927 \@namedef{\mpsevenscol@LTRfootgroup#1}{%
13928 \def\baselinestretch{\m@m@footnote@spacing}%
13929 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13930 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{7}{\splittopskip}}}%
13931 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13932 \@namedef{foottextfontv@r}{\foottextfont}% \ % [RS]
13933 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13934 \@bidi@before@Hy@hyperfootnotes
13935 \let\@footnotetext\@eightcolfootnotetext
13936 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13937 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13938 \dimen\footinsv@r=8\footinsdim
13939 \count\footinsv@r=125\relax
13940 \m@make@eightcol@footgroup{v@r}%
13941 \let\@footgroupv@r\@eightcol@footgroupv@r
13942 \dimen\footinsv@l=8\footinsdim
13943 \count\footinsv@l=125\relax
13944 \bidi@make@eightcol@LTRfootgroup{v@l}%
13945 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l

```



```

13946 \let\@mpfootnotetext\@mpeightcolfootnotetext
13947 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13948 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13949 \@bidi@after@Hy@hyperfootnotes
13950 \m@make@mpeightcol@footgroup{v@r}%
13951 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13952 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13953 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13954 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13955 }
13956 \newcommand{\EightColumnFootnotes}{%
13957 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13958 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13959 \@bidi@before@Hy@hyperfootnotes
13960 \let\@footnotetext\@EightColfootnotetext
13961 \let\@LTRfootnotetext\@EightColLTRfootnotetext
13962 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13963 \dimen\footinsv@r=8\footinsdim
13964 \count\footinsv@r=125\relax
13965 \m@make@eightcol@footgroup{v@r}%
13966 \let\@footgroupv@r\@eightcol@footgroupv@r
13967 \dimen\footinsv@l=8\footinsdim
13968 \count\footinsv@l=125\relax
13969 \bidi@make@eightcol@LTRfootgroup{v@l}%
13970 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13971 \let\@mpfootnotetext\@mpEightColfootnotetext
13972 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13973 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13974 \@bidi@after@Hy@hyperfootnotes
13975 \m@make@mpeightcol@footgroup{v@r}%
13976 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13977 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13978 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13979 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13980 }
13981 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
13982 \if@RTL@footnote
13983 \footinsv@r
13984 \else
13985 \footinsv@l
13986 \fi
13987 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13988 \def\baselinestretch{\m@mm@footnote@spacing}%
13989 \reset@font\foottextfont
13990 \@preamfntext
13991 \protected@edef\@currentlabel{%
13992 \csname p@footnote\endcsname\@thefnmark}%
13993 \color@begingroup
13994 \@eightcolfootfmt{#1}%
13995 \color@endgroup}%
13996 \m@mmf@prepare}
13997 \newcommand{\@EightColfootnotetext}[1]{%
13998 \bidi@step@absolutefootnote@count
13999 \if@RTL@footnote

```



```

14000 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14001 \else
14002 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14003 \fi
14004 \global\setbox
14005 \if@RTL@footnote
14006 \footinsv@r
14007 \else
14008 \footinsv@l
14009 \fi
14010 \vbox{%
14011 \unvbox
14012 \if@RTL@footnote
14013 \footinsv@r
14014 \else
14015 \footinsv@l
14016 \fi
14017 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14018 \def\baselinestretch{\m@m@footnote@spacing}%
14019 \reset@font\foottextfont
14020 \@preamfntext
14021 \protected@edef\@currentlabel{%
14022 \csname p@footnote\endcsname\@thefnmark}%
14023 \color@begingroup
14024 \@eightcolfootfmt{#1}%
14025 \color@endgroup}%
14026 \m@mmf@prepare
14027 \if@RTL@footnote
14028 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14029 \else
14030 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14031 \fi
14032 }
14033 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14034 \def\baselinestretch{\m@m@footnote@spacing}%
14035 \reset@font\LTRfoottextfont
14036 \@preamfntext
14037 \protected@edef\@currentlabel{%
14038 \csname p@footnote\endcsname\@thefnmark}%
14039 \color@begingroup
14040 \@eightcolLTRfootfmt{#1}%
14041 \color@endgroup}%
14042 \m@mmf@prepare}
14043 \newcommand{\@EightColLTRfootnotetext}[1]{%
14044 \bidi@step@absolute@footnote@count
14045 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14046 \global\setbox\footinsv@l\vbox{%
14047 \unvbox\footinsv@l
14048 \@RTLfalse
14049 \def\baselinestretch{\m@m@footnote@spacing}%
14050 \reset@font\LTRfoottextfont
14051 \@preamfntext
14052 \protected@edef\@currentlabel{%
14053 \csname p@footnote\endcsname\@thefnmark}%

```



```

14054 \color@begingroup
14055 \@eightcolLTRfootfmt{#1}%
14056 \color@endgroup}%
14057 \m@mmf@prepare
14058 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14059 }
14060 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14061 \def\baselinestretch{\m@mm@footnote@spacing}%
14062 \reset@font\RTLfoottextfont
14063 \@preamfntext
14064 \protected@edef\@currentlabel{%
14065 \csname p@footnote\endcsname\@thefnmark}%
14066 \color@begingroup
14067 \@eightcolRTLfootfmt{#1}%
14068 \color@endgroup}%
14069 \m@mmf@prepare}
14070 \newcommand{\@EightColRTLfootnotetext}[1]{%
14071 \bidi@step@absolutefootnote@count
14072 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14073 \global\setbox\footinsv@r\vbox{%
14074 \unvbox\footinsv@r
14075 \@RTLtrue%
14076 \def\baselinestretch{\m@mm@footnote@spacing}%
14077 \reset@font\RTLfoottextfont
14078 \@preamfntext
14079 \protected@edef\@currentlabel{%
14080 \csname p@footnote\endcsname\@thefnmark}%
14081 \color@begingroup
14082 \@eightcolRTLfootfmt{#1}%
14083 \color@endgroup}%
14084 \m@mmf@prepare
14085 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14086 }
14087 \bidi@ensure@newcommand{\@preameightfmt}{%
14088 \hspace{.125\hspace}
14089 \parindent=\z@
14090 \tolerance=5000\relax
14091 \leavevmode}
14092 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14093 \@preameightfmt
14094 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14095 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14096 \@preameightfmt
14097 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14098 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14099 \@preameightfmt
14100 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14101 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14102 \global\setbox
14103 \if@RTL@footnote
14104 \@mpfootinsv@r
14105 \else
14106 \@mpfootinsv@l
14107 \fi

```



```

14108 \vbox{%
14109   \unvbox
14110   \if@RTL@footnote
14111   \@mpfootinsv@r
14112 \else
14113   \@mpfootinsv@l
14114 \fi
14115   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14116   \def\baselinestretch{\m@m@footnote@spacing}%
14117   \reset@font\foottextfont
14118   \hsize\columnwidth \@parboxrestore
14119   \protected@edef\@currentlabel{%
14120     \csname p@mpfootnote\endcsname\@thefnmark}%
14121   \color@begingroup
14122     \@eightcolfootfmt{#1}%
14123   \color@endgroup}%
14124   \m@m@mmf@prepare}
14125 \newcommand{\@mpEightColfootnotetext}[1]{%
14126   \if@RTL@footnote
14127     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14128   \else
14129     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14130   \fi
14131   \global\setbox
14132     \if@RTL@footnote
14133     \@mpfootinsv@r
14134   \else
14135     \@mpfootinsv@l
14136   \fi
14137   \vbox{%
14138     \unvbox
14139     \if@RTL@footnote
14140     \@mpfootinsv@r
14141   \else
14142     \@mpfootinsv@l
14143   \fi
14144     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14145     \def\baselinestretch{\m@m@footnote@spacing}%
14146     \reset@font\foottextfont
14147     \hsize\columnwidth \@parboxrestore
14148     \protected@edef\@currentlabel{%
14149       \csname p@mpfootnote\endcsname\@thefnmark}%
14150     \color@begingroup
14151       \@eightcolfootfmt{#1}%
14152     \color@endgroup}%
14153     \m@m@mmf@prepare}
14154 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
14155   \global\setbox\@mpfootinsv@l\vbox{%
14156     \unvbox\@mpfootinsv@l
14157     \@RTLfalse
14158     \def\baselinestretch{\m@m@footnote@spacing}%
14159     \reset@font\LTRfoottextfont
14160     \hsize\columnwidth \@parboxrestore
14161     \protected@edef\@currentlabel{%

```




```

14162 \csname p@mpfootnote\endcsname\@thefnmark}%
14163 \color@begingroup
14164 \@eightcolLTRfootfmt{#1}%
14165 \color@endgroup}%
14166 \m@mmf@prepare}
14167 \newcommand{\@mpEightColLTRfootnotetext}[1]{%
14168 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14169 \global\setbox\@mpfootinsv@l\vbox{%
14170 \unvbox\@mpfootinsv@l
14171 \@RTLfalse
14172 \def\baselinestretch{\m@m@footnote@spacing}%
14173 \reset@font\LTRfoottextfont
14174 \hsize\columnwidth \@parboxrestore
14175 \protected@edef\@currentlabel{%
14176 \csname p@mpfootnote\endcsname\@thefnmark}%
14177 \color@begingroup
14178 \@eightcolLTRfootfmt{#1}%
14179 \color@endgroup}%
14180 \m@mmf@prepare}
14181 \bidi@ensure@newcommand{\@mpEightColRTLfootnotetext}[1]{%
14182 \global\setbox\@mpfootinsv@r\vbox{%
14183 \unvbox\@mpfootinsv@r
14184 \@RTLtrue
14185 \def\baselinestretch{\m@m@footnote@spacing}%
14186 \reset@font\RTLfoottextfont
14187 \hsize\columnwidth \@parboxrestore
14188 \protected@edef\@currentlabel{%
14189 \csname p@mpfootnote\endcsname\@thefnmark}%
14190 \color@begingroup
14191 \@eightcolRTLfootfmt{#1}%
14192 \color@endgroup}%
14193 \m@mmf@prepare}
14194 \newcommand{\@mpEightColRTLfootnotetext}[1]{%
14195 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14196 \global\setbox\@mpfootinsv@r\vbox{%
14197 \unvbox\@mpfootinsv@r
14198 \@RTLtrue
14199 \def\baselinestretch{\m@m@footnote@spacing}%
14200 \reset@font\RTLfoottextfont
14201 \hsize\columnwidth \@parboxrestore
14202 \protected@edef\@currentlabel{%
14203 \csname p@mpfootnote\endcsname\@thefnmark}%
14204 \color@begingroup
14205 \@eightcolRTLfootfmt{#1}%
14206 \color@endgroup}%
14207 \m@mmf@prepare}
14208 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
14209 \@namedef{@eightcol@footgroup#1}{%
14210 \def\baselinestretch{\m@m@footnote@spacing}%
14211 \hsize\bidi@columnwidth
14212 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14213 \m@rigrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}
14214 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14215 \@namedef{@eightcol@LTRfootgroup#1}{%

```



```

14216 \def\baselinestretch{\m@m@footnote@spacing}%
14217 \hsize\bidicolumnwidth
14218 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14219 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14220 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
14221 \@namedef{@mpeightcol@footgroup#1}{%
14222 \def\baselinestretch{\m@m@footnote@spacing}%
14223 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14224 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}}
14225 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
14226 \@namedef{@mpeightcol@LTRfootgroup#1}{%
14227 \def\baselinestretch{\m@m@footnote@spacing}%
14228 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14229 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}}
14230 \bidi@ensure@newcommand{\necolumnfootnotes}{%
14231 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14232 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14233 \@bidi@before@Hy@hyperfootnotes
14234 \let\@footnotetext\@necolfootnotetext
14235 \let\@LTRfootnotetext\@necolLTRfootnotetext
14236 \let\@RTLfootnotetext\@necolRTLfootnotetext
14237 \dimen\footinsv@r=9\footinsdim
14238 \count\footinsv@r=111\relax
14239 \m@make@necol@footgroup{v@r}%
14240 \let\@footgroupv@r\@necol@footgroupv@r
14241 \dimen\footinsv@l=9\footinsdim
14242 \count\footinsv@l=111\relax
14243 \bidi@make@necol@LTRfootgroup{v@l}%
14244 \let\@LTRfootgroupv@l\@necol@LTRfootgroupv@l
14245 \let\@mpfootnotetext\@mpnecolfootnotetext
14246 \let\@mpLTRfootnotetext\@mpnecolLTRfootnotetext
14247 \let\@mpRTLfootnotetext\@mpnecolRTLfootnotetext
14248 \@bidi@after@Hy@hyperfootnotes
14249 \m@make@mpnecol@footgroup{v@r}%
14250 \let\mp@footgroupv@r\@mpnecol@footgroupv@r
14251 \bidi@make@mpnecol@LTRfootgroup{v@l}%
14252 \let\mp@LTRfootgroupv@l\@mpnecol@LTRfootgroupv@l
14253 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14254 }
14255 \newcommand{\NineColumnFootnotes}{%
14256 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14257 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14258 \@bidi@before@Hy@hyperfootnotes
14259 \let\@footnotetext\@NineColfootnotetext
14260 \let\@LTRfootnotetext\@NineColLTRfootnotetext
14261 \let\@RTLfootnotetext\@NineColRTLfootnotetext
14262 \dimen\footinsv@r=9\footinsdim
14263 \count\footinsv@r=111\relax
14264 \m@make@necol@footgroup{v@r}%
14265 \let\@footgroupv@r\@necol@footgroupv@r
14266 \dimen\footinsv@l=9\footinsdim
14267 \count\footinsv@l=111\relax
14268 \bidi@make@necol@LTRfootgroup{v@l}%
14269 \let\@LTRfootgroupv@l\@necol@LTRfootgroupv@l

```



```

14270 \let\@mpfootnotetext\@mpNineColfootnotetext
14271 \let\@mpLTRfootnotetext\@mpNineColLTRfootnotetext
14272 \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14273 \@bidi@after@Hy@hyperfootnotes
14274 \m@make@mpninelcol@footgroup{v@r}%
14275 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
14276 \bidi@make@mpninelcol@LTRfootgroup{v@l}%
14277 \let\mp@LTRfootgroupv@l\@mpninelcol@LTRfootgroupv@l
14278 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14279 }
14280 \bidi@ensure@newcommand{\@ninelcolfootnotetext}[1]{\insert
14281 \ifRTL@footnote
14282 \footinsv@r
14283 \else
14284 \footinsv@l
14285 \fi
14286 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14287 \def\baselinestretch{\m@mp@footnote@spacing}%
14288 \reset@font\foottextfont
14289 \@preamfntext
14290 \protected@edef\@currentlabel{%
14291 \csname p@footnote\endcsname\@thefnmark}%
14292 \color@begingroup
14293 \@ninelcolfootfmt{#1}%
14294 \color@endgroup}%
14295 \m@mmf@prepare}
14296 \newcommand{\@NineColfootnotetext}[1]{%
14297 \bidi@step@absolute@footnote@count
14298 \ifRTL@footnote
14299 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14300 \else
14301 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14302 \fi
14303 \global\setbox
14304 \ifRTL@footnote
14305 \footinsv@r
14306 \else
14307 \footinsv@l
14308 \fi
14309 \vbox{%
14310 \unvbox
14311 \ifRTL@footnote
14312 \footinsv@r
14313 \else
14314 \footinsv@l
14315 \fi
14316 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
14317 \def\baselinestretch{\m@mp@footnote@spacing}%
14318 \reset@font\foottextfont
14319 \@preamfntext
14320 \protected@edef\@currentlabel{%
14321 \csname p@footnote\endcsname\@thefnmark}%
14322 \color@begingroup
14323 \@ninelcolfootfmt{#1}%

```



```

14324 \color@endgroup}%
14325 \m@mmf@prepare
14326 \if@RTL@footnote
14327 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14328 \else
14329 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14330 \fi
14331 }
14332 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14333 \def\baselinestretch{\m@m@footnote@spacing}%
14334 \reset@font\LTRfoottextfont
14335 \@preamfntext
14336 \protected@edef\@currentlabel{%
14337 \csname p@footnote\endcsname\@thefnmark}%
14338 \color@begingroup
14339 \@ninecolLTRfootfmt{#1}%
14340 \color@endgroup}%
14341 \m@mmf@prepare}
14342 \newcommand{\@NineColLTRfootnotetext}[1]{%
14343 \bidi@step@absolute@footnote@count
14344 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14345 \global\setbox\footinsv@l\vbox{%
14346 \unvbox\footinsv@l
14347 \@RTLfalse
14348 \def\baselinestretch{\m@m@footnote@spacing}%
14349 \reset@font\LTRfoottextfont
14350 \@preamfntext
14351 \protected@edef\@currentlabel{%
14352 \csname p@footnote\endcsname\@thefnmark}%
14353 \color@begingroup
14354 \@ninecolLTRfootfmt{#1}%
14355 \color@endgroup}%
14356 \m@mmf@prepare
14357 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14358 }
14359 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14360 \def\baselinestretch{\m@m@footnote@spacing}%
14361 \reset@font\RTLfoottextfont
14362 \@preamfntext
14363 \protected@edef\@currentlabel{%
14364 \csname p@footnote\endcsname\@thefnmark}%
14365 \color@begingroup
14366 \@ninecolRTLfootfmt{#1}%
14367 \color@endgroup}%
14368 \m@mmf@prepare}
14369 \newcommand{\@NineColRTLfootnotetext}[1]{%
14370 \bidi@step@absolute@footnote@count
14371 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14372 \global\setbox\footinsv@r\vbox{%
14373 \unvbox\footinsv@r
14374 \@RTLtrue
14375 \def\baselinestretch{\m@m@footnote@spacing}%
14376 \reset@font\RTLfoottextfont
14377 \@preamfntext

```



```

14378 \protected@edef\@currentlabel{%
14379 \csname p@footnote\endcsname\@thefnmark}%
14380 \color@begingroup
14381 \@ninecolRTLfootfmt{#1}%
14382 \color@endgroup}%
14383 \m@mmf@prepare
14384 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14385 }
14386 \bidi@ensure@newcommand{\@preamninefmt}{%
14387 \hspace{.1\hspace}
14388 \parindent=\z@
14389 \tolerance=5000\relax
14390 \leavevmode}
14391 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
14392 \@preamninefmt
14393 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14394 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14395 \@preamninefmt
14396 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14397 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14398 \@preamninefmt
14399 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14400 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14401 \global\setbox
14402 \if@RTL@footnote
14403 \@mpfootinsv@r
14404 \else
14405 \@mpfootinsv@l
14406 \fi
14407 \vbox{%
14408 \unvbox
14409 \if@RTL@footnote
14410 \@mpfootinsv@r
14411 \else
14412 \@mpfootinsv@l
14413 \fi
14414 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14415 \def\baselinestretch{\m@mm@footnote@spacing}%
14416 \reset@font\foottextfont
14417 \hspace\columnwidth \@parboxrestore
14418 \protected@edef\@currentlabel{%
14419 \csname p@mpfootnote\endcsname\@thefnmark}%
14420 \color@begingroup
14421 \@ninecolfootfmt{#1}%
14422 \color@endgroup}%
14423 \m@mmf@prepare}
14424 \newcommand{\@mpNineColfootnotetext}[1]{%
14425 \if@RTL@footnote
14426 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14427 \else
14428 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14429 \fi
14430 \global\setbox
14431 \if@RTL@footnote

```



```

14432 \mpfootinsv@r
14433 \else
14434 \mpfootinsv@l
14435 \fi
14436 \vbox{%
14437 \unvbox
14438 \if@RTL@footnote
14439 \mpfootinsv@r
14440 \else
14441 \mpfootinsv@l
14442 \fi
14443 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14444 \def\baselinestretch{\m@m@footnote@spacing}%
14445 \reset@font\foottextfont
14446 \hsize\columnwidth \@parboxrestore
14447 \protected@edef\@currentlabel{%
14448 \csname p@mpfootnote\endcsname\@thefnmark}%
14449 \color@begingroup
14450 \@ninecolfootfmt{#1}%
14451 \color@endgroup}%
14452 \m@mmf@prepare}
14453 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
14454 \global\setbox\@mpfootinsv@l\vbox{%
14455 \unvbox\@mpfootinsv@l
14456 \@RTLfalse
14457 \def\baselinestretch{\m@m@footnote@spacing}%
14458 \reset@font\LTRfoottextfont
14459 \hsize\columnwidth \@parboxrestore
14460 \protected@edef\@currentlabel{%
14461 \csname p@mpfootnote\endcsname\@thefnmark}%
14462 \color@begingroup
14463 \@ninecolLTRfootfmt{#1}%
14464 \color@endgroup}%
14465 \m@mmf@prepare}
14466 \newcommand{\@mpNineColLTRfootnotetext}[1]{%
14467 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14468 \global\setbox\@mpfootinsv@l\vbox{%
14469 \unvbox\@mpfootinsv@l
14470 \@RTLfalse
14471 \def\baselinestretch{\m@m@footnote@spacing}%
14472 \reset@font\LTRfoottextfont
14473 \hsize\columnwidth \@parboxrestore
14474 \protected@edef\@currentlabel{%
14475 \csname p@mpfootnote\endcsname\@thefnmark}%
14476 \color@begingroup
14477 \@ninecolLTRfootfmt{#1}%
14478 \color@endgroup}%
14479 \m@mmf@prepare}
14480 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14481 \global\setbox\@mpfootinsv@r\vbox{%
14482 \unvbox\@mpfootinsv@r
14483 \@RTLtrue
14484 \def\baselinestretch{\m@m@footnote@spacing}%
14485 \reset@font\RTLfoottextfont

```



```

14486 \hsize\columnwidth \@parboxrestore
14487 \protected@edef\@currentlabel{%
14488 \csname p@mpfootnote\endcsname\@thefnmark}%
14489 \color@begingroup
14490 \@ninecolRTLfootfmt{#1}%
14491 \color@endgroup}%
14492 \m@mmf@prepare}
14493 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14494 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14495 \global\setbox\@mpfootinsv@r\vbox{%
14496 \unvbox\@mpfootinsv@r
14497 \@RTLtrue
14498 \def\baselinestretch{\m@m@footnote@spacing}%
14499 \reset@font\RTLfoottextfont
14500 \hsize\columnwidth \@parboxrestore
14501 \protected@edef\@currentlabel{%
14502 \csname p@mpfootnote\endcsname\@thefnmark}%
14503 \color@begingroup
14504 \@ninecolRTLfootfmt{#1}%
14505 \color@endgroup}%
14506 \m@mmf@prepare}
14507 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
14508 \@namedef{@ninecol@footgroup#1}{%
14509 \def\baselinestretch{\m@m@footnote@spacing}%
14510 \hsize\bidi@columnwidth
14511 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14512 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14513 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14514 \@namedef{@ninecol@LTRfootgroup#1}{%
14515 \def\baselinestretch{\m@m@footnote@spacing}%
14516 \hsize\bidi@columnwidth
14517 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14518 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14519 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
14520 \@namedef{@mpninecol@footgroup#1}{%
14521 \def\baselinestretch{\m@m@footnote@spacing}%
14522 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14523 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
14524 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
14525 \@namedef{@mpninecol@LTRfootgroup#1}{%
14526 \def\baselinestretch{\m@m@footnote@spacing}%
14527 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14528 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
14529 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14530 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14531 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14532 \@bidi@before@Hy@hyperfootnotes
14533 \let\@footnotetext\@tencolfootnotetext
14534 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14535 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14536 \dimen\footinsv@r=10\footinsdim
14537 \count\footinsv@r=100\relax
14538 \m@make@tencol@footgroup{v@r}%
14539 \let\@footgroupv@r\@tencol@footgroupv@r

```



```

14540 \dimen\footinsv@l=10\footinsdim
14541 \count\footinsv@l=100\relax
14542 \bidi@make@tencol@LTRfootgroup{v@l}%
14543 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14544 \let\@mpfootnotetext\@mptencolfootnotetext
14545 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14546 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14547 \@bidi@after@Hy@hyperfootnotes
14548 \m@make@mptencol@footgroup{v@r}%
14549 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14550 \bidi@make@mptencol@LTRfootgroup{v@l}%
14551 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14552 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14553 }
14554 \newcommand{\TenColumnFootnotes}{%
14555 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14556 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14557 \@bidi@before@Hy@hyperfootnotes
14558 \let\@footnotetext\@TenColfootnotetext
14559 \let\@LTRfootnotetext\@TenColLTRfootnotetext
14560 \let\@RTLfootnotetext\@TenColRTLfootnotetext
14561 \dimen\footinsv@r=10\footinsdim
14562 \count\footinsv@r=100\relax
14563 \m@make@tencol@footgroup{v@r}%
14564 \let\@footgroupv@r\@tencol@footgroupv@r
14565 \dimen\footinsv@l=10\footinsdim
14566 \count\footinsv@l=100\relax
14567 \bidi@make@tencol@LTRfootgroup{v@l}%
14568 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14569 \let\@mpfootnotetext\@mpTenColfootnotetext
14570 \let\@mpLTRfootnotetext\@mpTenColLTRfootnotetext
14571 \let\@mpRTLfootnotetext\@mpTenColRTLfootnotetext
14572 \@bidi@after@Hy@hyperfootnotes
14573 \m@make@mptencol@footgroup{v@r}%
14574 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14575 \bidi@make@mptencol@LTRfootgroup{v@l}%
14576 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14577 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14578 }
14579 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14580 \if@RTL@footnote
14581 \footinsv@r
14582 \else
14583 \footinsv@l
14584 \fi
14585 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14586 \def\baselinestretch{\m@footnote@spacing}%
14587 \reset@font\foottextfont
14588 \@preamfntext
14589 \protected@edef\@currentlabel{%
14590 \csname p@footnote\endcsname\@thefnmark}%
14591 \color@begingroup
14592 \@tencolfootfmt{#1}%
14593 \color@endgroup}%

```




```

14594 \m@mmf@prepare}
14595 \newcommand{\@TenColfootnotetext}[1]{%
14596 \bidi@step@absolutefootnote@count
14597 \if@RTL@footnote
14598 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14599 \else
14600 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14601 \fi
14602 \global\setbox
14603 \if@RTL@footnote
14604 \footinsv@r
14605 \else
14606 \footinsv@l
14607 \fi
14608 \vbox{%
14609 \unvbox
14610 \if@RTL@footnote
14611 \footinsv@r
14612 \else
14613 \footinsv@l
14614 \fi
14615 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14616 \def\baselinestretch{\m@m@footnote@spacing}%
14617 \reset@font\foottextfont
14618 \@preamfntext
14619 \protected@edef\@currentlabel{%
14620 \csname p@footnote\endcsname\@thefnmark}%
14621 \color@begingroup
14622 \@tencolfootfmt{#1}%
14623 \color@endgroup}%
14624 \m@mmf@prepare
14625 \if@RTL@footnote
14626 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14627 \else
14628 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14629 \fi
14630 }
14631 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14632 \def\baselinestretch{\m@m@footnote@spacing}%
14633 \reset@font\LTRfoottextfont
14634 \@preamfntext
14635 \protected@edef\@currentlabel{%
14636 \csname p@footnote\endcsname\@thefnmark}%
14637 \color@begingroup
14638 \@tencolLTRfootfmt{#1}%
14639 \color@endgroup}%
14640 \m@mmf@prepare}
14641 \newcommand{\@TenColLTRfootnotetext}[1]{%
14642 \bidi@step@absolutefootnote@count
14643 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14644 \global\setbox\footinsv@l\vbox{%
14645 \unvbox\footinsv@l
14646 \@RTLfalse%
14647 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

14648 \reset@font\LTRfoottextfont
14649 \@preamfntext
14650 \protected@edef\@currentlabel{%
14651   \csname p@footnote\endcsname\@thefnmark}%
14652 \color@begingroup
14653   \@tencolLTRfootfmt{#1}%
14654 \color@endgroup}%
14655 \m@mmf@prepare
14656 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14657 }
14658 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14659   \def\baselinestretch{\m@m@footnote@spacing}%
14660   \reset@font\RTLfoottextfont
14661   \@preamfntext
14662   \protected@edef\@currentlabel{%
14663     \csname p@footnote\endcsname\@thefnmark}%
14664   \color@begingroup
14665     \@tencolRTLfootfmt{#1}%
14666   \color@endgroup}%
14667   \m@mmf@prepare}
14668 \newcommand{\@TenColRTLfootnotetext}[1]{%
14669   \bidi@step@absolutefootnote@count
14670   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14671   \global\setbox\footinsv@r\vbox{%
14672     \unvbox\footinsv@r
14673     \@RTLtrue
14674     \def\baselinestretch{\m@m@footnote@spacing}%
14675     \reset@font\RTLfoottextfont
14676     \@preamfntext
14677     \protected@edef\@currentlabel{%
14678       \csname p@footnote\endcsname\@thefnmark}%
14679     \color@begingroup
14680       \@tencolRTLfootfmt{#1}%
14681     \color@endgroup}%
14682     \m@mmf@prepare
14683   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14684 }
14685 \bidi@ensure@newcommand{\@preamtenfmt}{%
14686   \hsize .1\hsize
14687   \parindent=\z@
14688   \tolerance=5000\relax
14689   \leavevmode}
14690 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14691   \@preamtenfmt
14692   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14693 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
14694   \@preamtenfmt
14695   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14696 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14697   \@preamtenfmt
14698   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14699 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
14700   \global\setbox
14701     \if@RTL@footnote

```



```

14702 \mpfootinsv@r
14703 \else
14704 \mpfootinsv@l
14705 \fi
14706 \vbox{%
14707 \unvbox
14708 \if@RTL@footnote
14709 \mpfootinsv@r
14710 \else
14711 \mpfootinsv@l
14712 \fi
14713 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14714 \def\baselinestretch{\m@{footnote@spacing}}%
14715 \reset@font\foottextfont
14716 \hsize\columnwidth \@parboxrestore
14717 \protected@edef\@currentlabel{%
14718 \csname p@mpfootnote\endcsname\@thefnmark}%
14719 \color@begingroup
14720 \@tencolfootfmt{#1}%
14721 \color@endgroup}%
14722 \m@mmf@prepare}
14723 \newcommand{\@mpTenColfootnotetext}[1]{%
14724 \if@RTL@footnote
14725 \bidi@joinmpfootnotes\mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14726 \else
14727 \bidi@joinmpfootnotes\mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14728 \fi
14729 \global\setbox
14730 \if@RTL@footnote
14731 \mpfootinsv@r
14732 \else
14733 \mpfootinsv@l
14734 \fi
14735 \vbox{%
14736 \unvbox
14737 \if@RTL@footnote
14738 \mpfootinsv@r
14739 \else
14740 \mpfootinsv@l
14741 \fi
14742 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14743 \def\baselinestretch{\m@{footnote@spacing}}%
14744 \reset@font\foottextfont
14745 \hsize\columnwidth \@parboxrestore
14746 \protected@edef\@currentlabel{%
14747 \csname p@mpfootnote\endcsname\@thefnmark}%
14748 \color@begingroup
14749 \@tencolfootfmt{#1}%
14750 \color@endgroup}%
14751 \m@mmf@prepare}
14752 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
14753 \global\setbox\mpfootinsv@l\vbox{%
14754 \unvbox\mpfootinsv@l
14755 \@RTLfalse

```



```

14756 \def\baselinestretch{\m@m@footnote@spacing}%
14757 \reset@font\LTRfoottextfont
14758 \hsize\columnwidth \@parboxrestore
14759 \protected@edef\@currentlabel{%
14760 \csname p@mpfootnote\endcsname\@thefnmark}%
14761 \color@begingroup
14762 \tencolLTRfootfmt{#1}%
14763 \color@endgroup}%
14764 \m@m@mmf@prepare}
14765 \newcommand{\@mpTenColLTRfootnotetext}[1]{%
14766 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14767 \global\setbox\@mpfootinsv@l\vbox{%
14768 \unvbox\@mpfootinsv@l
14769 \@RTLfalse
14770 \def\baselinestretch{\m@m@footnote@spacing}%
14771 \reset@font\LTRfoottextfont
14772 \hsize\columnwidth \@parboxrestore
14773 \protected@edef\@currentlabel{%
14774 \csname p@mpfootnote\endcsname\@thefnmark}%
14775 \color@begingroup
14776 \tencolLTRfootfmt{#1}%
14777 \color@endgroup}%
14778 \m@m@mmf@prepare}
14779 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14780 \global\setbox\@mpfootinsv@r\vbox{%
14781 \unvbox\@mpfootinsv@r
14782 \@RTLtrue
14783 \def\baselinestretch{\m@m@footnote@spacing}%
14784 \reset@font\RTLfoottextfont
14785 \hsize\columnwidth \@parboxrestore
14786 \protected@edef\@currentlabel{%
14787 \csname p@mpfootnote\endcsname\@thefnmark}%
14788 \color@begingroup
14789 \tencolRTLfootfmt{#1}%
14790 \color@endgroup}%
14791 \m@m@mmf@prepare}
14792 \newcommand{\@mpTenColRTLfootnotetext}[1]{%
14793 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14794 \global\setbox\@mpfootinsv@r\vbox{%
14795 \unvbox\@mpfootinsv@r
14796 \@RTLtrue
14797 \def\baselinestretch{\m@m@footnote@spacing}%
14798 \reset@font\RTLfoottextfont
14799 \hsize\columnwidth \@parboxrestore
14800 \protected@edef\@currentlabel{%
14801 \csname p@mpfootnote\endcsname\@thefnmark}%
14802 \color@begingroup
14803 \tencolRTLfootfmt{#1}%
14804 \color@endgroup}%
14805 \m@m@mmf@prepare}
14806 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14807 \@namedef{\tencol@footgroup#1}{%
14808 \def\baselinestretch{\m@m@footnote@spacing}%
14809 \hsize\bidi@columnwidth

```



```

14810 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14811 \m@rigrigidbodybalance{\nameuse{footins#1}}{10}{\splittopskip}}
14812 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
14813 \namedef{@tencol@LTRfootgroup#1}{%
14814 \def\baselinestretch{\m@m@footnote@spacing}%
14815 \hsize\bidi@columnwidth
14816 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14817 \bidi@LTRigidbodybalance{\nameuse{footins#1}}{10}{\splittopskip}}}
14818 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
14819 \namedef{@mptencol@footgroup#1}{%
14820 \def\baselinestretch{\m@m@footnote@spacing}%
14821 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14822 \m@rigrigidbodybalance{\nameuse{mpfootins#1}}{10}{\splittopskip}}}
14823 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
14824 \namedef{@mptencol@LTRfootgroup#1}{%
14825 \def\baselinestretch{\m@m@footnote@spacing}%
14826 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14827 \bidi@LTRigidbodybalance{\nameuse{mpfootins#1}}{10}{\splittopskip}}}
14828 \bidi@ensure@newcommand{\m@munvxh}[1]{%
14829 \setbox0=\vbox{\unvbox#1%
14830 \global\setbox1=\lastbox}%
14831 \unhbox1
14832 \unskip
14833 \unskip
14834 \unpenalty
14835 \hskip\m@mipn@skip}
14836 \bidi@ensure@newcommand{\m@mungebox}{%
14837 \setbox0=\hbox{\m@munvxh0}%
14838 \dp0=\z@
14839 \ht0=\footfudgefactor\wd0
14840 \box0
14841 \penalty0}
14842 \newskip\m@mipn@skip
14843 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
14844 {\foottextfont\global\m@mipn@skip=#1\relax}}
14845 \m@minterparanoteglue{1em plus.3em minus.3em}
14846 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
14847 \setbox0=\hbox{}%
14848 \loop
14849 \unpenalty
14850 \setbox2=\lastbox
14851 \ifhbox2
14852 \setbox0=\hbox{\box2\unhbox0}
14853 \repeat}
14854 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14855 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14856 \newcommand*{\AddExtraParaSkip}[1]{%
14857 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
14858 }
14859 \let\bidi@xparaskip\relax
14860 \@onlypreamble\AddExtraParaSkip
14861 \@onlypreamble\bidi@xparaskip
14862 \def\bidi@startparafootskip#1{%
14863 \global\advance\skip#1\bidi@paraskip

```



```

14864 }
14865 \onlypreamble\bidistartparafootskip
14866 \bidiensurenewcommand{\paragraphfootnotes}{%
14867   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14868   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14869   \@bidi@before@Hy@hyperfootnotes
14870   \let\@footnotetext\@parafootnotetext
14871   \let\@LTRfootnotetext\@paraLTRfootnotetext
14872   \let\@RTLfootnotetext\@paraRTLfootnotetext
14873   \dimen\footinsv@r=\footinsdim
14874   \count\footinsv@r=1000\relax
14875   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14876   \m@make@para@footgroup{v@r}%
14877   \m@make@para@footstart{v@r}%
14878   \let\@footgroupv@r\@para@footgroupv@r
14879   \let\@footstartv@r\@para@footstartv@r
14880   \dimen\footinsv@l=\footinsdim
14881   \count\footinsv@l=1000\relax
14882   \bidi@make@para@LTRfootgroup{v@l}%
14883   \m@make@para@footstart{v@l}%
14884   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14885   \let\@footstartv@l\@para@footstartv@l
14886   \let\@mpfootnotetext\@mpparafootnotetext
14887   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14888   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14889   \@bidi@after@Hy@hyperfootnotes
14890   \m@make@mppara@footgroup{v@r}%
14891   \bidi@make@mppara@LTRfootgroup{v@l}%
14892   \let\mp@footgroupv@r\@mppara@footgroupv@r
14893   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14894   \g@addto@macro\bidifloathook{%
14895     \begingroup
14896       \foottextfont \@tempdima\normalbaselineskip
14897       \multiply \@tempdima \@cclvi
14898       \@tempdimb \columnwidth
14899       \divide \@tempdimb \@cclvi
14900       \divide \@tempdima \@tempdimb
14901       \xdef\footfudgefactor{\strip@pt\@tempdima}%
14902     \endgroup
14903   }
14904 \AtBeginDocument{%
14905   \begingroup
14906     \foottextfont
14907     \@tempdima\footnotesep
14908     \advance\@tempdima -\ht\strutbox
14909     \ifdim\@tempdima<z@ \@tempdima z@ \fi
14910     \advance\@tempdima.5\normalbaselineskip
14911     \bidi@xparaskip
14912     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
14913   \endgroup
14914   \bidi@startparafootskip\footinsv@r
14915   \bidi@startparafootskip\footinsv@l
14916 }
14917 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

14918 }
14919 \newcommand{\ParagraphFootnotes}{%
14920   \@namedef{foottextfontv@r}{\foottextfont}%
14921   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14922   \@bidi@before@Hy@hyperfootnotes
14923   \let\@footnotetext\@Parafootnotetext
14924   \let\@LTRfootnotetext\@ParaLTRfootnotetext
14925   \let\@RTLfootnotetext\@ParaRTLfootnotetext
14926   \dimen\footinsv@r=\footinsdim
14927   \count\footinsv@r=1000\relax
14928   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14929   \m@make@para@footgroup{v@r}%
14930   \m@make@para@footstart{v@r}%
14931   \let\@footgroupv@r\@para@footgroupv@r
14932   \let\@footstartv@r\@para@footstartv@r
14933   \dimen\footinsv@l=\footinsdim
14934   \count\footinsv@l=1000\relax
14935   \bidi@make@para@LTRfootgroup{v@l}%
14936   \m@make@para@footstart{v@l}%
14937   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14938   \let\@footstartv@l\@para@footstartv@l
14939   \let\@mpfootnotetext\@mpParafootnotetext
14940   \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14941   \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14942   \@bidi@after@Hy@hyperfootnotes
14943   \m@make@mppara@footgroup{v@r}%
14944   \bidi@make@mppara@LTRfootgroup{v@l}%
14945   \let\mp@footgroupv@r\@mppara@footgroupv@r
14946   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14947   \g@addto@macro\@bidi@floathook{%
14948     \begingroup
14949       \foottextfont \@tempdima\normalbaselineskip
14950       \multiply \@tempdima \@cclvi
14951       \@tempdimb \columnwidth
14952       \divide \@tempdimb \@cclvi
14953       \divide \@tempdima \@tempdimb
14954       \xdef\footfudgefactor{\strip@pt\@tempdima}%
14955     \endgroup
14956   }
14957   \AtBeginDocument{%
14958     \begingroup
14959       \foottextfont
14960       \@tempdima\footnotesep
14961       \advance\@tempdima -\ht\strutbox
14962       \ifdim\@tempdima<z@ \@tempdima\z@ \fi
14963       \advance\@tempdima.5\normalbaselineskip
14964       \bidi@xparaskip
14965       \xdef\@bidi@paraskip{\the\@tempdima\relax}%
14966     \endgroup
14967     \bidi@startparafootskip\footinsv@r
14968     \bidi@startparafootskip\footinsv@l
14969   }
14970   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14971 }

```



```

14972 \newcommand{\normalRTLparaLTRfootnotes}{%
14973   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
14974   \@bidi@before@Hy@hyperfootnotes
14975   \if@RTL@footnote
14976     \let\@footnotetext\m@mold@footnotetext
14977   \else
14978     \let\@footnotetext\@parafootnotetext
14979   \fi
14980   \let\@LTRfootnotetext\@paraLTRfootnotetext
14981   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
14982   \dimen\footinsv@1=\footinsdim
14983   \count\footinsv@1=1000\relax
14984   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14985   \bidi@make@para@LTRfootgroup{v@1}%
14986   \m@make@para@footstart{v@1}%
14987   \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
14988   \let\@footstartv@1\@para@footstartv@1
14989   \if@RTL@footnote
14990     \let\@mpfootnotetext\m@mold@mpfootnotetext
14991   \else
14992     \let\@mpfootnotetext\@mpparafootnotetext
14993   \fi
14994   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14995   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
14996   \@bidi@after@Hy@hyperfootnotes
14997   \bidi@make@mppara@LTRfootgroup{v@1}%
14998   \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
14999   \g@addto@macro\@bidi@floathook{%
15000     \begingroup
15001       \LTRfoottextfont \@tempdima\normalbaselineskip
15002       \multiply \@tempdima \@ccclvi
15003       \@tempdimb \columnwidth
15004       \divide \@tempdimb \@ccclvi
15005       \divide \@tempdima \@tempdimb
15006       \xdef\footfudgefactor{\strip@pt\@tempdima}%
15007     \endgroup
15008   }
15009   \AtBeginDocument{%
15010     \begingroup
15011       \LTRfoottextfont
15012       \@tempdima\footnotesep
15013       \advance\@tempdima -\ht\strutbox
15014       \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15015       \advance\@tempdima.5\normalbaselineskip
15016       \bidi@xparaskip
15017       \xdef\@bidi@paraskip{\the\@tempdima\relax}%
15018     \endgroup
15019     \bidi@startparafootskip\footinsv@1
15020   }
15021   \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
15022 }
15023 \newcommand{\NormalRTLParaLTRFootnotes}{%
15024   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
15025   \@bidi@before@Hy@hyperfootnotes

```




```

15026 \if@RTL@footnote
15027   \let\@footnotetext\@bidi@bidiold@footnotetext
15028 \else
15029   \let\@footnotetext\@Parafootnotetext
15030 \fi
15031 \let\@LTRfootnotetext\@ParaLTRfootnotetext
15032 \let\@RTLfootnotetext\@bidi@bidiold@RTLfootnotetext
15033 \dimen\footinsv@l=\footinsdim
15034 \count\footinsv@l=1000\relax
15035 \let\@bidi@removexfootskip\@bidi@removexparafootskip
15036 \@bidi@make@para@LTRfootgroup{v@l}%
15037 \m@make@para@footstart{v@l}%
15038 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
15039 \let\@footstartv@l\@para@footstartv@l
15040 \if@RTL@footnote
15041   \let\@mpfootnotetext\@bidi@bidiold@mpfootnotetext
15042 \else
15043   \let\@mpfootnotetext\@mpParafootnotetext
15044 \fi
15045 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15046 \let\@mpRTLfootnotetext\@bidi@bidiold@mpRTLfootnotetext
15047 \@bidi@after@Hy@hyperfootnotes
15048 \@bidi@make@mppara@LTRfootgroup{v@l}%
15049 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
15050 \g@addto@macro\@bidi@floathook{%
15051   \begingroup
15052     \LTRfoottextfont \@tempdima\normalbaselineskip
15053     \multiply \@tempdima \@cclvi
15054     \@tempdimb \columnwidth
15055     \divide \@tempdimb \@cclvi
15056     \divide \@tempdima \@tempdimb
15057     \xdef\footfudgefactor{\strip@pt\@tempdima}%
15058   \endgroup
15059 }
15060 \AtBeginDocument{%
15061   \begingroup
15062     \LTRfoottextfont
15063     \@tempdima\footnotesep
15064     \advance\@tempdima -\ht\strutbox
15065     \ifdim\@tempdima<z@ \@tempdima z@ \fi
15066     \advance\@tempdima.5\normalbaselineskip
15067     \bidi@xparaskip
15068     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
15069   \endgroup
15070   \bidi@startparafootskip\footinsv@l
15071 }
15072 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
15073 }
15074 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15075   \if@RTL@footnote
15076     \footinsv@r
15077   \else
15078     \footinsv@l
15079   \fi

```



```

15080 {%
15081 \let\bid@RTL@everypar\@empty%
15082 \def\baselinestretch{\m@m@footnote@spacing}%
15083 \reset@font\foottextfont
15084 \@preamfntext
15085 \protected@edef\@currentlabel{%
15086 \csname p@footnote\endcsname\@thefnmark}%
15087 \setbox0=\vbox{\hsize=\maxdimen
15088 \color@begingroup
15089 \noindent \@parafootfmt{#1}%
15090 \color@endgroup}%
15091 \m@mungebox}\m@mmf@prepare}
15092 \newcommand{\@Parafootnotetext}[1]{%
15093 \bid@step@absolute@footnote@count
15094 \if@RTL@footnote
15095 \bid@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15096 \else
15097 \bid@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15098 \fi
15099 \global\setbox
15100 \if@RTL@footnote
15101 \footinsv@r
15102 \else
15103 \footinsv@l
15104 \fi
15105 \vbox{%
15106 \unvbox
15107 \if@RTL@footnote
15108 \footinsv@r
15109 \else
15110 \footinsv@l
15111 \fi
15112 \let\bid@RTL@everypar\@empty%
15113 \def\baselinestretch{\m@m@footnote@spacing}%
15114 \reset@font\foottextfont
15115 \@preamfntext
15116 \protected@edef\@currentlabel{%
15117 \csname p@footnote\endcsname\@thefnmark}%
15118 \setbox0=\vbox{\hsize=\maxdimen
15119 \color@begingroup
15120 \noindent \@parafootfmt{#1}%
15121 \color@endgroup}%
15122 \m@mungebox}\m@mmf@prepare
15123 \if@RTL@footnote
15124 \bid@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15125 \else
15126 \bid@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15127 \fi
15128 }
15129 \bid@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15130 \let\bid@RTL@everypar\@empty%
15131 \def\baselinestretch{\m@m@footnote@spacing}%
15132 \reset@font\LTRfoottextfont
15133 \@preamfntext

```



```

15134 \protected@edef\@currentlabel{%
15135   \csname p@footnote\endcsname\@thefnmark}%
15136 \setbox0=\vbox{\hsize=\maxdimen
15137   \color@begingroup
15138   \noindent \@paraLTRfootfmt{#1}%
15139   \color@endgroup}%
15140 \m@mungebox}\m@mmf@prepare}
15141 \newcommand{\@ParaLTRfootnotetext}[1]{%
15142   \bidi@step@absolutefootnote@count
15143   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15144   \global\setbox\footinsv@l\vbox{%
15145     \unvbox\footinsv@l
15146     \let\bidi@RTL@everypar\@empty%
15147     \def\baselinestretch{\m@m@footnote@spacing}%
15148     \reset@font\LTRfoottextfont
15149     \@preamfntext
15150     \protected@edef\@currentlabel{%
15151       \csname p@footnote\endcsname\@thefnmark}%
15152     \setbox0=\vbox{\hsize=\maxdimen
15153       \color@begingroup
15154       \noindent \@paraLTRfootfmt{#1}%
15155       \color@endgroup}%
15156     \m@mungebox}\m@mmf@prepare
15157     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15158 }
15159 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15160   \let\bidi@RTL@everypar\@empty%
15161   \def\baselinestretch{\m@m@footnote@spacing}%
15162   \reset@font\RTLfoottextfont
15163   \@preamfntext
15164   \protected@edef\@currentlabel{%
15165     \csname p@footnote\endcsname\@thefnmark}%
15166   \setbox0=\vbox{\hsize=\maxdimen
15167     \color@begingroup
15168     \noindent \@paraRTLfootfmt{#1}%
15169     \color@endgroup}%
15170   \m@mungebox}\m@mmf@prepare}
15171 \newcommand{\@ParaRTLfootnotetext}[1]{%
15172   \bidi@step@absolutefootnote@count
15173   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15174   \global\setbox\footinsv@r\vbox{%
15175     \unvbox\footinsv@r
15176     \let\bidi@RTL@everypar\@empty%
15177     \def\baselinestretch{\m@m@footnote@spacing}%
15178     \reset@font\RTLfoottextfont
15179     \@preamfntext
15180     \protected@edef\@currentlabel{%
15181       \csname p@footnote\endcsname\@thefnmark}%
15182     \setbox0=\vbox{\hsize=\maxdimen
15183       \color@begingroup
15184       \noindent \@paraRTLfootfmt{#1}%
15185       \color@endgroup}%
15186     \m@mungebox}\m@mmf@prepare
15187     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r

```



```

15188 }
15189 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15190   \parindent=\z@
15191   \parfillskip=0pt \@plus 1fil
15192   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15193 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15194   \parindent=\z@
15195   \parfillskip=0pt \@plus 1fil
15196   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15197 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15198   \parindent=\z@
15199   \parfillskip=0pt \@plus 1fil
15200   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15201 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
15202   \global\setbox
15203   \if@RTL@footnote
15204     \@mpfootinsv@r
15205   \else
15206     \@mpfootinsv@l
15207   \fi
15208   \vbox{%
15209     \unvbox
15210     \if@RTL@footnote
15211       \@mpfootinsv@r
15212     \else
15213       \@mpfootinsv@l
15214     \fi
15215     \let\bidi@RTL@everypar\@empty
15216     \def\baselinestretch{\m@m@footnote@spacing}%
15217     \reset@font\foottextfont
15218     \hsize\columnwidth \@parboxrestore
15219     \protected@edef\@currentlabel{%
15220       \csname p@mpfootnote\endcsname\@thefnmark}%
15221     \setbox0=\vbox{\hsize=\maxdimen
15222       \color@begingroup
15223       \noindent \@parafootfmt{#1}%
15224       \color@endgroup}%
15225     \m@mungebox}\m@m@mf@prepare}
15226 \newcommand{\@mpParafootnotetext}[1]{%
15227   \if@RTL@footnote
15228     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15229   \else
15230     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15231   \fi
15232   \global\setbox
15233   \if@RTL@footnote
15234     \@mpfootinsv@r
15235   \else
15236     \@mpfootinsv@l
15237   \fi
15238   \vbox{%
15239     \unvbox
15240     \if@RTL@footnote
15241       \@mpfootinsv@r

```



```

15242 \else
15243 \mpfootinsv@l
15244 \fi
15245 \let\bidirTL@everypar\@empty
15246 \def\baselinestretch{\m@m@footnote@spacing}%
15247 \reset@font\foottextfont
15248 \hsize\columnwidth \@parboxrestore
15249 \protected@edef\@currentlabel{%
15250 \csname p@mpfootnote\endcsname\@thefnmark}%
15251 \setbox0=\vbox{\hsize=\maxdimen
15252 \color@begingroup
15253 \noindent \@parafootfmt{#1}%
15254 \color@endgroup}%
15255 \m@ungebox}\m@m@mmf@prepare}
15256 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
15257 \global\setbox\@mpfootinsv@l\vbox{%
15258 \unvbox\@mpfootinsv@l
15259 \let\bidirTL@everypar\@empty
15260 \def\baselinestretch{\m@m@footnote@spacing}%
15261 \reset@font\LTRfoottextfont
15262 \hsize\columnwidth \@parboxrestore
15263 \protected@edef\@currentlabel{%
15264 \csname p@mpfootnote\endcsname\@thefnmark}%
15265 \setbox0=\vbox{\hsize=\maxdimen
15266 \color@begingroup
15267 \noindent \@paraLTRfootfmt{#1}%
15268 \color@endgroup}%
15269 \m@ungebox}\m@m@mmf@prepare}
15270 \newcommand{\@mpParaLTRfootnotetext}[1]{%
15271 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15272 \global\setbox\@mpfootinsv@l\vbox{%
15273 \unvbox\@mpfootinsv@l
15274 \let\bidirTL@everypar\@empty
15275 \def\baselinestretch{\m@m@footnote@spacing}%
15276 \reset@font\LTRfoottextfont
15277 \hsize\columnwidth \@parboxrestore
15278 \protected@edef\@currentlabel{%
15279 \csname p@mpfootnote\endcsname\@thefnmark}%
15280 \setbox0=\vbox{\hsize=\maxdimen
15281 \color@begingroup
15282 \noindent \@paraLTRfootfmt{#1}%
15283 \color@endgroup}%
15284 \m@ungebox}\m@m@mmf@prepare}
15285 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
15286 \global\setbox\@mpfootinsv@r\vbox{%
15287 \unvbox\@mpfootinsv@r
15288 \let\bidirTL@everypar\@empty
15289 \def\baselinestretch{\m@m@footnote@spacing}%
15290 \reset@font\RTLfoottextfont
15291 \hsize\columnwidth \@parboxrestore
15292 \protected@edef\@currentlabel{%
15293 \csname p@mpfootnote\endcsname\@thefnmark}%
15294 \setbox0=\vbox{\hsize=\maxdimen
15295 \color@begingroup

```



```

15296      \noindent \@paraRTLfootfmt{#1}%
15297      \color@endgroup}%
15298      \m@ungebox}\m@mmf@prepare}
15299 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15300   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15301   \global\setbox\@mpfootinsv@r\vbox{%
15302     \unvbox\@mpfootinsv@r
15303     \let\bidi@RTL@everypar\@empty
15304     \def\baselinestretch{\m@m@footnote@spacing}%
15305     \reset@font\RTLfoottextfont
15306     \hsize\columnwidth \@parboxrestore
15307     \protected@edef\@currentlabel{%
15308       \csname p@mpfootnote@endcsname\@thefnmark}%
15309     \setbox0=\vbox{\hsize=\maxdimen
15310       \color@begingroup
15311       \noindent \@paraRTLfootfmt{#1}%
15312       \color@endgroup}%
15313     \m@ungebox}\m@mmf@prepare}
15314 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15315   \@namedef{@para@footgroup#1}{%
15316     \unvbox\@nameuse{footins#1}
15317     \@RTLtrue
15318     \m@mmakehboxofhboxes
15319     \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15320     \hsize\bidi@columnwidth
15321     \@parboxrestore
15322     \def\baselinestretch{\m@m@footnote@spacing}%
15323     \@nameuse{foottextfont#1}%
15324     \noindent\unhbox0\par}}
15325 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15326   \@namedef{@para@LTRfootgroup#1}{%
15327     \unvbox\@nameuse{footins#1}
15328     \@RTLfalse
15329     \m@mmakehboxofhboxes
15330     \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15331     \hsize\bidi@columnwidth
15332     \@parboxrestore
15333     \def\baselinestretch{\m@m@footnote@spacing}%
15334     \@nameuse{foottextfont#1}%
15335     \noindent\unhbox0\par}}
15336 \newcommand{\bidi@removexparafootskip}{%
15337   \advance\@tempskipa -\bidi@paraskip
15338   \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15339 }
15340 \let\bidi@removexfootskip\relax
15341 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15342   \@namedef{@mppara@footgroup#1}{%
15343     \unvbox\@nameuse{@mpfootins#1}
15344     \@RTLtrue
15345     \m@mmakehboxofhboxes
15346     \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15347     \def\baselinestretch{\m@m@footnote@spacing}%
15348     \@nameuse{foottextfont#1}%
15349     \noindent\unhbox0\par}}

```



```

15350 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
15351 \@namedef{\mppara@LTRfootgroup#1}{%
15352   \unvbox\@nameuse{\mpfootins#1}
15353   \@RTLfalse
15354   \m@mmakehboxofhboxes
15355   \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15356   \def\baselinestretch{\m@m@footnote@spacing}%
15357   \@nameuse{\foottextfont#1}%
15358   \noindent\unhbox0\par}}
15359 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15360 \@namedef{\@para@footstart#1}{%
15361   \leftskip=\z@
15362   \rightskip=\z@
15363   \parindent=\z@
15364   }%
15365 }
15366 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15367   \xdef\@freelist{\@freelist\@midlist}%
15368   \global\let\@midlist\@empty
15369   \@combinefloats}
15370 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15371   \ifvbox\@kludgeins
15372     \@makespecialcolbox
15373   \else
15374     \setbox\@outputbox \vbox to\@colht{%
15375       \@texttop
15376       \dimen@ \dp\@outputbox
15377       \unvbox \@outputbox
15378       \vskip -\dimen@
15379       \@textbottom}%
15380   \fi}
15381 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
15382 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15383   \boxmaxdepth\@maxdepth
15384   \@tempdima\dp\@cclv
15385   \unvbox\@cclv
15386   \vskip-\@tempdima
15387   \bidi@mopfn@bottom
15388   \vskip \skip\footins
15389   \color@begingroup
15390     \normalcolor
15391     \footnoterule
15392     \unvbox \footins
15393   \color@endgroup
15394   }%
15395 }
15396 \newcommand*{\bidi@mopfootnotebf}{%
15397   \setbox\@outputbox \vbox{%
15398     \boxmaxdepth\@maxdepth
15399     \unvbox\@outputbox
15400     \bidi@mopfn@bottom
15401     \vskip\skip\footins
15402     \color@begingroup
15403     \normalcolor

```



```

15404 \footnoterule
15405 \unvbox \footins
15406 \color@endgroup
15407 }%
15408 }
15409 \gdef\mem@makecol{%
15410 \m@m@makecolintro
15411 \m@mndoextrafeet
15412 \ifvoid\footins
15413 \setbox\@outputbox \box\@cclv
15414 \else
15415 \m@mopfootnote
15416 \fi
15417 \m@m@makecolfloats
15418 \m@m@makecoltext
15419 \global \maxdepth \@maxdepth}
15420 \gdef\bidi@makecolbf{%
15421 \m@m@makecolintro
15422 \m@mndoextrafeet
15423 \setbox\@outputbox \box\@cclv
15424 \m@m@makecolfloats
15425 \ifvoid\footins
15426 \else
15427 \bidi@mopfootnotebf
15428 \fi
15429 \m@m@makecoltext
15430 \global \maxdepth \@maxdepth}
15431 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15432 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15433 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
15434 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
15435 \FeetAboveFloat
15436 \FeetBelowRagged
15437 \def\bidi@reinserts#1{\ifvoid#1\else
15438 \ifnum\count\@currbox>\z@
15439 \advance\@pageht \ht#1%
15440 \advance\@pageht \skip#1%
15441 \advance\@pageht \dp#1%
15442 \fi
15443 \insert#1{\unvbox#1}%
15444 \fi
15445 }
15446 \def\bidi@init@multi@footins#1{%
15447 \multiply\count#1\col@number
15448 \multiply\skip#1\col@number
15449 }
15450 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
15451 \insert#1{}\fi}
15452 \AtBeginDocument{%
15453 \bidi@preto\@doclearpage\m@mndoextrafeet
15454 \g@addto@macro\@reinserts{%
15455 \bidi@reinserts\footinsv@r
15456 \bidi@reinserts\footinsv@l
15457 }

```




```

15458 \bidi@floathook
15459 \g@addto@macro\@floatplacement{%
15460   \bidi@ifmulticol{}\bidi@floathook}%
15461 }%
15462 \if@bidi@csundef{multi@column@out}{%
15463   \@onlypreamble\bidi@init@multi@footins
15464   \let\bidi@ifmulticol\@secondoftwo
15465 }{%
15466   \bidi@preto\multi@column@out\m@mdoextrafeet
15467   \g@addto@macro\init@mult@footins{%
15468     \bidi@init@multi@footins\footinsv@r
15469     \bidi@init@multi@footins\footinsv@l
15470   }%
15471   \g@addto@macro\reinsert@footnotes{%
15472     \bidi@reinsert@footnotes\footinsv@r
15473     \bidi@reinsert@footnotes\footinsv@l
15474   }%
15475 }%
15476 }

```

87 File extreport-xetex-bidi.def

```

15477 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
15478 \renewcommand*\l@part[2]{%
15479   \ifnum \c@tocdepth >-2\relax
15480     \addpenalty{-\@highpenalty}%
15481     \addvspace{2.25em \@plus\p@}%
15482     \begingroup
15483       \setlength\@tempdima{3em}%
15484       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15485       \parfillskip -\@pnumwidth
15486       {\leavevmode
15487         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15488       \nobreak
15489       \global\@nobreaktrue
15490       \everypar{\global\@nobreakfalse\everypar{}}%
15491     \endgroup
15492   \fi}
15493 \renewcommand*\l@chapter[2]{%
15494   \ifnum \c@tocdepth >\m@ne
15495     \addpenalty{-\@highpenalty}%
15496     \vskip 1.0em \@plus\p@
15497     \setlength\@tempdima{1.5em}%
15498     \begingroup
15499       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15500       \parfillskip -\@pnumwidth
15501       \leavevmode \bfseries
15502       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15503       \hskip -\if@RTL\rightskip\else\leftskip\fi
15504       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15505       \penalty\@highpenalty
15506     \endgroup
15507   \fi}
15508 \def\@makechapterhead#1{%

```



```

15509 \vspace*{50\p@}%
15510 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15511 \ifnum \c@secnumdepth >\m@ne
15512 \huge\bfseries \@chapapp\space \thechapter
15513 \par\nobreak
15514 \vskip 20\p@
15515 \fi
15516 \interlinepenalty\@M
15517 \Huge \bfseries #1\par\nobreak
15518 \vskip 40\p@
15519 }}
15520 \def\@makeschapterhead#1{%
15521 \vspace*{50\p@}%
15522 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15523 \normalfont
15524 \interlinepenalty\@M
15525 \Huge \bfseries #1\par\nobreak
15526 \vskip 40\p@
15527 }}
15528 \renewcommand\left@footnoterule{%
15529 \kern-3\p@
15530 \hrule\@width.4\columnwidth
15531 \kern2.6\p@}
15532 \renewcommand\right@footnoterule{%
15533 \kern-3\p@
15534 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15535 \kern2.6\p@}
15536 \renewenvironment{thebibliography}[1]
15537 {\chapter*{\bibname
15538 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15539 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15540 \bidi@thebibliography@font@hook%
15541 \list{\@biblabel{\@arabic\c@enumiv}}%
15542 {\settowidth\labelwidth{\@biblabel{#1}}%
15543 \leftmargin\labelwidth
15544 \advance\leftmargin\labelsep
15545 \@openbib@code
15546 \usecounter{enumiv}%
15547 \let\p@enumiv\@empty
15548 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15549 \sloppy\clubpenalty4000\widowpenalty4000%
15550 \sfcode\.\@m}
15551 {\def\@noitemerr
15552 {\@latex@warning{Empty `thebibliography' environment}}%
15553 \endlist}
15554 \if@titlepage
15555 \renewcommand\maketitle{\begin{titlepage}%
15556 \let\footnotesize\small
15557 \let\right@footnoterule\relax
15558 \let\left@footnoterule\relax
15559 \let\textwidth\footnoterule\relax
15560 \let\footnote\thanks
15561 \null\vfil
15562 \vskip 60\p@

```



```

15563 \begin{center}%
15564   {\LARGE \@title \par}%
15565   \vskip 3em%
15566   {\large
15567     \lineskip .75em%
15568     \begin{tabular}[t]{c}%
15569       \@author
15570     \end{tabular}\par}%
15571   \vskip 1.5em%
15572   {\large \@date \par}%           % Set date in \large size.
15573 \end{center}\par
15574 \@thanks
15575 \vfil\null
15576 \end{titlepage}%
15577 \setcounter{footnote}{0}%
15578 \global\let\thanks\relax
15579 \global\let\maketitle\relax
15580 \global\let\@thanks\@empty
15581 \global\let\@author\@empty
15582 \global\let\@date\@empty
15583 \global\let\@title\@empty
15584 \global\let\title\relax
15585 \global\let\author\relax
15586 \global\let\date\relax
15587 \global\let\and\relax
15588 }
15589 \else
15590 \renewcommand\maketitle{\par
15591   \begingroup
15592     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15593     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15594     \long\def\@makefntext##1{\parindent 1em\noindent
15595       \hb@xt@1.8em{%
15596         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15597     \if@twocolumn
15598       \ifnum \col@number=\@ne
15599         \@maketitle
15600       \else
15601         \twocolumn[\@maketitle]%
15602       \fi
15603     \else
15604       \newpage
15605       \global\@topnum\z@   % Prevents figures from going at top of page.
15606       \@maketitle
15607     \fi
15608     \thispagestyle{plain}\@thanks
15609   \endgroup
15610   \setcounter{footnote}{0}%
15611   \global\let\thanks\relax
15612   \global\let\maketitle\relax
15613   \global\let\@maketitle\relax
15614   \global\let\@thanks\@empty
15615   \global\let\@author\@empty
15616   \global\let\@date\@empty

```



```

15617 \global\let\@title\@empty
15618 \global\let\title\relax
15619 \global\let\author\relax
15620 \global\let\date\relax
15621 \global\let\and\relax
15622 }
15623 \def\@maketitle{%
15624 \newpage
15625 \null
15626 \vskip 2em%
15627 \begin{center}%
15628 \let \footnote \thanks
15629 {\LARGE \@title \par}%
15630 \vskip 1.5em%
15631 {\large
15632 \lineskip .5em%
15633 \begin{tabular}[t]{c}%
15634 \@author
15635 \end{tabular}\par}%
15636 \vskip 1em%
15637 {\large \@date}%
15638 \end{center}%
15639 \par
15640 \vskip 1.5em}
15641 \fi
15642 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
15643 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15644 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15645 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15646 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15647 \renewcommand\theequation{%
15648 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15649 \renewcommand\thefigure{%
15650 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
15651 \renewcommand\thetable{%
15652 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

88 File fancybox-xetex-bidi.def

```

15653 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
15654 \def\fancy@oval#1#2#3{%
15655 \boxmaxdepth \maxdimen
15656 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
15657 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15658 \@ovxx#1\relax
15659 \advance\@ovxx-\@wholewidth
15660 \@ovyy#2\relax
15661 \advance\@ovyy-\@wholewidth
15662 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
15663 \advance\@tempdimb-2\p@
15664 \ifdim\@tempdimb>\the@cornersize\relax
15665 \@tempdimb=\the@cornersize
15666 \fi
15667 \@getcirc\@tempdimb

```



```

15668 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
15669 \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15670 \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15671 \@circlefnt
15672 \setbox\@tempboxa\hbox{\beginL%
15673   \if@ovr \@ovvert32\kern -\@tempdima \fi
15674   \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15675   \if@ovt \@ovhorz \kern -\@ovxx \fi
15676   \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
15677 \advance\@ovdx\@ovro
15678 \advance\@ovdy\@ovro
15679 \advance\@ovxx\@wholewidth
15680 \wd\@tempboxa=\@ovxx
15681 \dp\@tempboxa=\z@}

```

89 File fancyhdr-xetex-bidi.def

```

15682 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
15683
15684 \let\f@nch@everypar\everypar
15685
15686 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
15687 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
15688

```

90 File fix2col-xetex-bidi.def

```

15689 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15690 \def\RTL@outputdblcol{%
15691   \if@firstcolumn
15692     \global\@firstcolumnfalse
15693     \global\setbox\@leftcolumn\copy\@outputbox
15694     \splitmaxdepth\maxdimen
15695     \vbadness\maxdimen
15696     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15697     \toks@{\expandafter{\topmark}}%
15698     \xdef\@firstcoltopmark{\the\toks@}%
15699     \toks@{\expandafter{\splitfirstmark}}%
15700     \xdef\@firstcolfirstmark{\the\toks@}%
15701     \ifx\@firstcolfirstmark\@empty
15702       \global\let\@setmarks\relax
15703     \else
15704       \gdef\@setmarks{%
15705         \let\firstmark\@firstcolfirstmark
15706         \let\topmark\@firstcoltopmark}%
15707     \fi
15708   \else \global\@firstcolumntrue
15709   \setbox\@outputbox \vbox {\hbox to\textwidth {%
15710     \hskip \columnwidth
15711     \hfil \vrule width\columnseprule \hfil
15712     \hbox to\columnwidth {%
15713       \bidi@firstcolumn@status@write%
15714       \box\@leftcolumn \hss}%
15715     \hskip -\textwidth

```



```

15716 \hbox to\columnwidth{%
15717 \bidi@lastcolumn@status@write%
15718 \box\@outputbox \hss}%
15719 \hskip \columnsep
15720 \hskip \columnwidth }}%
15721 \@combinedblfloats \@setmarks \@outputpage
15722 \begingroup \@dblfloatplacement \@startdblcolumn
15723 \@whiles\if@fcolmade \fi
15724 {\@outputpage \@startdblcolumn }\endgroup
15725 \fi}
15726 \def\LTR@outputdblcol{%
15727 \if@firstcolumn
15728 \global\@firstcolumnfalse
15729 \global\setbox\@leftcolumn\copy\@outputbox
15730 \splitmaxdepth\maxdimen
15731 \vbadness\maxdimen
15732 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15733 \toks@\expandafter{\topmark}%
15734 \xdef\@firstcoltopmark{\the\toks@}%
15735 \toks@\expandafter{\splitfirstmark}%
15736 \xdef\@firstcolfirstmark{\the\toks@}%
15737 \ifx\@firstcolfirstmark\@empty
15738 \global\let\@setmarks\relax
15739 \else
15740 \gdef\@setmarks{%
15741 \let\firstmark\@firstcolfirstmark
15742 \let\topmark\@firstcoltopmark}%
15743 \fi
15744 \else
15745 \global\@firstcolumntrue
15746 \setbox\@outputbox\vbox{%
15747 \hb@xt@\textwidth{%
15748 \hb@xt@\columnwidth{%
15749 \bidi@firstcolumn@status@write%
15750 \box\@leftcolumn \hss}%
15751 \hfil
15752 \vrule \@width\columnseprule
15753 \hfil
15754 \hb@xt@\columnwidth{%
15755 \bidi@lastcolumn@status@write%
15756 \box\@outputbox \hss}}}%
15757 \@combinedblfloats
15758 \@setmarks
15759 \@outputpage
15760 \begingroup
15761 \@dblfloatplacement
15762 \@startdblcolumn
15763 \@whiles\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
15764 \endgroup
15765 \fi}

```

91 File fleqn-xetex-bidi.def

```

15766 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX

```



```

15767 \DeclareRobustCommand\{\relax
15768         \ifmmode\@badmath
15769         \else
15770             \begin{trivlist}%
15771                 \@beginparpenalty\predisplaypenalty
15772                 \@endparpenalty\postdisplaypenalty
15773                 \item[]\leavevmode
15774                 \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
15775                 \hskip\mathindent\bgroup
15776             \fi}
15777 \DeclareRobustCommand\}\relax
15778         \ifmmode
15779             \egroup $\hfil% $
15780             \endL\egroup
15781             \end{trivlist}%
15782         \else \@badmath
15783         \fi}
15784 \renewenvironment{equation}%
15785     {\@beginparpenalty\predisplaypenalty
15786     \@endparpenalty\postdisplaypenalty
15787     \refstepcounter{equation}%
15788     \trivlist \item[]\leavevmode
15789     \hb@xt@\linewidth\bgroup\beginL $\m@th% $
15790     \displaystyle
15791     \hskip\mathindent}%
15792     {$\hfil % $
15793     \displaywidth\linewidth\hbox{\@eqnnum}%
15794     \endL\egroup
15795     \endtrivlist}

```

92 File float-xetex-bidi.def

```

15796 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
15797 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
15798 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15799 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
15800 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
15801     \expandafter\edef\csname the#1\endcsname{%
15802         \expandafter\noexpand\csname
15803             the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15804     {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

93 File floatrow-xetex-bidi.def

```

15805 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package
15806 \RequirePackage{color}
15807 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
15808     \expandafter\edef\csname theFB@captype\endcsname{%
15809         \expandafter\noexpand\csname
15810             the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}%

```

94 File flowfram-xetex-bidi.def

```

15811 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package

```



```

15812 \def\@outputdblcol{%
15813 \@nxtcol=\c@thisframe
15814 \c@curpg=\c@page
15815 \@g@tnextcol{\@nxtcol}%
15816 \if@ff@nwpg % next flow frame starts on new page
15817 \global\@firstcolumntrue
15818 \setcolbox\c@thisframe
15819 \if@specialpage
15820 \global\@specialpagefalse
15821 \nameuse{ps@\@specialstyle}\relax
15822 \fi
15823 \if@twoside
15824 \ifodd\count\z@
15825 \let\@thehead\@oddhead
15826 \let\@thefoot\@oddfoot
15827 \else
15828 \let\@thehead\@evenhead
15829 \let\@thefoot\@evenfoot
15830 \fi
15831 \else
15832 \let\@thehead\@oddhead
15833 \let\@thefoot\@oddfoot
15834 \fi
15835 \@begindvi
15836 \@dynamicthehead\@dynamicthefoot
15837 \vbadness=\@M
15838 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15839 \@combinedblfloats
15840 \@outputpage
15841 \advance\c@curpg by -\c@page\relax
15842 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15843 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
15844 \@outputpage}
15845 \begingroup
15846 \dblfloatplacement
15847 \startdblcolumn
15848 \@whilesw \if@fcolmade \fi
15849 {\@outputpage \@startdblcolumn }\endgroup
15850 \resetst@tics
15851 \resetdyn@mics
15852 \else % still on same page, save contents of box255
15853 \global\@firstcolumnfalse
15854 \setcolbox\c@thisframe
15855 \fi
15856 \global\c@thisframe=\@nxtcol
15857 \setcol{\c@thisframe}\relax
15858 \global\@colht\vsiz
15859 }
15860 \def\@outputpage{%
15861 \begingroup
15862 \let\protect\noexpand
15863 \resetactivechars
15864 \global\let\@if@newlist@if@newlist
15865 \global\@newlistfalse\@parboxrestore

```




```

15866 \global\let\bidibeforeoutputpageshipout\@firstofone
15867 \bidibeforeoutputpageshipouthook
15868 \shipout\vbox{\set@typeset@protect
15869 \aftergroup
15870 \endgroup
15871 \aftergroup
15872 \set@typeset@protect
15873 \reset@font\normalsize
15874 \bidifont@@outputpage
15875 \normalsfcodes
15876 \let\label\@gobble
15877 \let\index\@gobble
15878 \let\glossary\@gobble
15879 \baselineskip\z@skip
15880 \lineskip\z@skip
15881 \lineskiplimit\z@
15882 \vskip\topmargin\moveright\@themargin
15883 \vbox{%
15884 \global\let\bidibeforeheader\@firstofone
15885 \bidibeforeheaderhook
15886 \vskip\headheight
15887 \vskip\headsep
15888 \global\let\bidibeforeoutputboxoutputpage\@firstofone
15889 \bidibeforeoutputboxoutputpagehook
15890 \box\@outputbox
15891 \global\let\bidiafteroutputboxoutputpage\@firstofone
15892 \bidiafteroutputboxoutputpagehook
15893 }%
15894 \global\let\bidiafteroutputpageshipout\@firstofone
15895 \bidiafteroutputpageshipouthook
15896 \global\let\if@newlist\@if@newlist
15897 \stepcounter{page}%
15898 \setcounter{displayedframe}{0}%
15899 \let\firstmark\botmark
15900 \global\let\bidiatendoutputpage\@firstofone
15901 \bidiatendoutputpagehook
15902 }
15903
15904
15905 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
15906 \expandafter\bidicolor\ff@txtcol}}
15907
15908 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
15909 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
15910
15911
15912 \renewcommand*\@docolbox}[1]{%
15913 \edef\ff@frametype{%
15914 \csname @ff@frametype@\romannumeral#1\endcsname}%
15915 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
15916 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
15917 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
15918 \@ff@setoffset{#1}%
15919 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%

```



```

15920 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
15921 \@@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15922 {\csname colheight\romannumeral#1\endcsname}{%
15923 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15924 \csname\ff@frametype\endcsname}%
15925 }{%
15926 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
15927 {\csname colheight\romannumeral#1\endcsname}{%
15928 \expandafter\box\csname column\romannumeral#1\endcsname}%
15929 }}}
15930 \IfClassLoadedT{book}{%
15931 \renewcommand\theequation
15932 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15933 \renewcommand \thefigure
15934 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15935 \renewcommand \thetable
15936 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15937 \renewcommand \thechapter {\@arabic\c@chapter}
15938 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15939 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15940 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
15941 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15942 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
15943 \IfClassLoadedT{report}{%
15944 \renewcommand\theequation
15945 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15946 \renewcommand \thefigure
15947 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15948 \renewcommand \thetable
15949 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15950 \renewcommand \thechapter {\@arabic\c@chapter}
15951 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15952 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15953 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
15954 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15955 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
15956 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
15957 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
15958 \else
15959 #2\relax
15960 \fi}

```

95 File fnpct-xetex-bidi.def

```

15961 \ProvidesFile{fnpct-xetex-bidi.def}[2025/09/12 v0.2 bidi adaptations for fnpct package for X
15962 \ExplSyntaxOn
15963 \ifclassloaded{beamer}
15964 {
15965 \AdaptNote \footnote{d<+m} [\beamer@mpfn]
15966 {
15967 \IfNoValueTF{#1}
15968 {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE{#2}{#3}}}
15969 {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>{#2}{#3}}}
15970 }

```



```

15971 \AdaptNote \RTLfootnote{d<>o+m} [\beamer@mpfn]
15972 {
15973     \IfNoValueTF{#1}
15974     {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
15975     {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
15976 }
15977 \AdaptNote \LTRfootnote{d<>o+m} [\beamer@mpfn]
15978 {
15979     \IfNoValueTF{#1}
15980     {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
15981     {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
15982 }
15983 }
15984 {
15985     \AdaptNote \RTLfootnote {o+m} [\@mpfn]
15986     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
15987     \AdaptNote \LTRfootnote {o+m} [\@mpfn]
15988     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
15989 }
15990 \ExplSyntaxOff

```

96 File footnote-xetex-bidi.def

```

15991 \ProvidesFile{footnote-xetex-bidi.def}[2024/12/14 v1.3 bidi footnote macros for XeTeX engine]
15992 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15993 \newif\ifbidi@autofootnoterule
15994 \def\bidi@mpfootnoterule{\footnoterule}
15995 \newcounter{footdir@label}
15996 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
15997 \newcommand*{\footdir@write}{%
15998   \stepcounter{footdir@label}%
15999   \zref@labelbyprops{\thefootdir@label}{abspage}%
16000 }
16001 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
16002 \newtoks\footdir@toks
16003 \newcommand*{\footdir@debug}[1]{%
16004   \iffootdir@debug
16005     \typeout{[footdir] #1}%
16006   \fi
16007 }
16008 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
16009 %  \newcommand*{\footdir@LeftRightElse}{%
16010 %    \ltx@ifundefined{footdir@the\value{zabspage}}{%
16011 %      \footdir@debug{abspage \the\value{zabspage}: else}%
16012 %      \ltx@thirdofthree
16013 %    }{%
16014 %      \ifcsname footdir@the\value{zabspage}\endcsname L%
16015 %        \footdir@debug{abspage \the\value{zabspage}: left}%
16016 %        \expandafter\ltx@firstofthree
16017 %      \else
16018 %        \footdir@debug{abspage \the\value{zabspage}: right}%
16019 %        \expandafter\ltx@secondofthree
16020 %      \fi
16021 %    }%

```



```

16022 % }%
16023 %}{%
16024 \providecommand*{\c@zabspage}{\c@abspage}%
16025 \newcommand*{\footdir@LeftRightElse}{%
16026   \footdir@write
16027   \zifrefundefined{\thefootdir@label}{%
16028     \footdir@debug{abspage ??: else}%
16029     \ltx@thirdofthree
16030   }{%
16031     \edef\footdir@abspage{%
16032       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
16033     }%
16034     \ltx@ifundefined{footdir@\footdir@abspage}{%
16035       \footdir@debug{\footdir@abspage: else}%
16036       \ltx@thirdofthree
16037     }{%
16038       \if\csname footdir@\footdir@abspage\endcsname L%
16039         \footdir@debug{\footdir@abspage: left}%
16040         \expandafter\ltx@firstofthree
16041       \else
16042         \footdir@debug{\footdir@abspage: right}%
16043         \expandafter\ltx@secondofthree
16044       \fi
16045     }%
16046   }%
16047 }%
16048 %}
16049 \newcommand*{\footdir@fntext}[1]{%
16050   \zifrefundefined{\thefootdir@label}{%
16051     }{%
16052       \edef\footdir@name{%
16053         footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16054       }%
16055       \@ifundefined{\footdir@name}{%
16056         \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16057       }{%
16058       }%
16059 }
16060
16061 \newcommand*{\footdir@temp}[3]{%
16062   \@ifdefinable{#1}{%
16063     \let#1#2%
16064     \renewcommand{#2}[1]{%
16065       \footdir@write
16066       \footdir@fntext{#3}%
16067       \stepcounter{footdir@label}%
16068       \footdir@fntext{#3}%
16069       \footdir@toks{##1}%
16070       \footdir@toks\expandafter{%
16071         \the\expandafter\footdir@toks
16072         \expandafter
16073         \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
16074       }%
16075       \expandafter#1\expandafter{\the\footdir@toks}%

```



```

16076    }%
16077  }%
16078 }
16079
16080 \def\right@footnoterule{%
16081   \kern-3\p@
16082   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16083   \kern2.6\p@}
16084 \def\left@footnoterule{\kern-3\p@
16085   \hrule \@width .4\columnwidth \kern 2.6\p@}
16086 \def\textwidth@footnoterule{\kern-3\p@
16087   \hrule \@width \columnwidth \kern 2.6\p@}
16088 \def\leftfootnoterule{%
16089   \bidi@autofootnoterulefalse%
16090   \def\footnoterule{\left@footnoterule}}
16091 \let\LRfootnoterule=\leftfootnoterule
16092 \def\rightfootnoterule{%
16093   \bidi@autofootnoterulefalse%
16094   \def\footnoterule{\right@footnoterule}}
16095 \def\textwidthfootnoterule{%
16096   \bidi@autofootnoterulefalse%
16097   \def\footnoterule{\textwidth@footnoterule}}
16098
16099
16100
16101 \def\auto@footnoterule{%
16102   \footdir@LeftRightElse%
16103   \left@footnoterule%
16104   \right@footnoterule%
16105   \left@footnoterule%
16106 }
16107
16108
16109
16110 \def\autofootnoterule{%
16111   \bidi@autofootnoteruletrue%
16112   \def\footnoterule{\auto@footnoterule}%
16113 }
16114
16115 \newcommand*{\SplitFootnoteRule}{%
16116   \gdef\split@prev{0}
16117   \let\pagefootnoterule\footnoterule
16118   \let\mpfootnoterule\footnoterule
16119   \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
16120   \def\footnoterule{\relax
16121     \ifx \@listdepth\@mplistdepth
16122       \mpfootnoterule
16123     \else
16124       \ifnum\split@prev=\z@
16125         \pagefootnoterule
16126       \else
16127         \splitfootnoterule
16128       \fi
16129       \xdef\split@prev{\the\insertpenalties}%

```



```

16130     \fi
16131   }%
16132 }
16133
16134
16135
16136
16137 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
16138     \protected@xdef\@thefnmark{\thempfn}%
16139     \@footnotemark\@RTLfootnotetext}}
16140 \def\@xRTLfootnote[#1]{%
16141     \begingroup
16142     \csname c@\@mpfn\endcsname #1\relax
16143     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16144     \endgroup
16145     \@footnotemark\@RTLfootnotetext}
16146 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
16147     \protected@xdef\@thefnmark{\thempfn}%
16148     \@footnotemark\@LTRfootnotetext}}
16149 \def\@xLTRfootnote[#1]{%
16150     \begingroup
16151     \csname c@\@mpfn\endcsname #1\relax
16152     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16153     \endgroup
16154     \@footnotemark\@LTRfootnotetext}
16155
16156
16157 \def\setfootnoteRL{\@RTL@footnotetrue}
16158 \def\unsetfootnoteRL{\@RTL@footnotefalse}
16159 \def\setfootnoteLR{\unsetfootnoteRL}
16160
16161 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16162 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
16163 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16164
16165 \long\def\@footnotetext#1{\insert\footins{%
16166     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
16167     \reset@font%
16168     \bidi@footnotetext@font% \reset@font\footnotesize
16169     \interlinepenalty\interfootnotelinepenalty
16170     \splittopskip\footnotesep
16171     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16172     \hsize\columnwidth \@parboxrestore
16173     \protected@edef\@currentlabel{%
16174         \csname p@footnote\endcsname\@thefnmark
16175     }%
16176     \color@begingroup
16177         \@makefntext{%
16178             \rule{z@footnotesep}{\ignorespaces#1\@finalstrut\strutbox}%
16179         \color@endgroup}}}%
16180
16181
16182 \long\def\@RTLfootnotetext#1{\insert\footins{%
16183     \@RTLtrue%

```



```

16184 \reset@font%
16185 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16186 \interlinepenalty\interfootnotelinepenalty
16187 \splittopskip\footnotesep
16188 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
16189 \hsize\columnwidth \@parboxrestore
16190 \protected@edef\@currentlabel{%
16191 \csname p@footnote\endcsname\@thefnmark
16192 }%
16193 \color@begingroup
16194 \makefnmark%
16195 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16196 \color@endgroup}}%
16197
16198 \long\def\@LTRfootnotetext#1{\insert\footins{%
16199 \RTLfalse%
16200 \reset@font%
16201 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16202 \interlinepenalty\interfootnotelinepenalty
16203 \splittopskip\footnotesep
16204 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
16205 \hsize\columnwidth \@parboxrestore
16206 \protected@edef\@currentlabel{%
16207 \csname p@footnote\endcsname\@thefnmark
16208 }%
16209 \color@begingroup
16210 \makefnmark%
16211 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16212 \color@endgroup}}%
16213
16214 \AtBeginDocument{%
16215 \ifRTL@footnote
16216 \newcommand*{\bidi@footdir@footnote}{R}
16217 \else
16218 \newcommand*{\bidi@footdir@footnote}{L}
16219 \fi%
16220 }
16221
16222 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
16223 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16224 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%
16225
16226 \long\def\@mpRTLfootnotetext#1{%
16227 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@foot
16228 \global\setbox\@mpfootins\vbox{%
16229 \unvbox\@mpfootins
16230 \RTLtrue
16231 \reset@font%
16232 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16233 \hsize\columnwidth
16234 \@parboxrestore
16235 \protected@edef\@currentlabel
16236 {\csname p@mpfootnote\endcsname\@thefnmark}%
16237 \color@begingroup

```



```

16238     \@makefntext{%
16239         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16240         \color@endgroup}}
16241 \long\def\@mpLTRfootnotetext#1{%
16242 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnote
16243 \global\setbox\@mpfootins\vbox{%
16244     \unvbox\@mpfootins
16245     \@RTLfalse
16246     \reset@font%
16247     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16248     \hsize\columnwidth
16249     \@parboxrestore
16250     \protected@edef\@currentlabel
16251         {\csname p@mpfootnote\endcsname\@thefnmark}%
16252     \color@begingroup
16253     \@makefntext{%
16254         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16255         \color@endgroup}}
16256 \long\def\@mpfootnotetext#1{%
16257 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnote
16258 \global\setbox\@mpfootins\vbox{%
16259     \unvbox\@mpfootins
16260     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
16261     \reset@font%
16262     \bidi@footnotetext@font% \reset@font\footnotesize
16263     \hsize\columnwidth
16264     \@parboxrestore
16265     \protected@edef\@currentlabel
16266         {\csname p@mpfootnote\endcsname\@thefnmark}%
16267     \color@begingroup
16268     \@makefntext{%
16269         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16270     \color@endgroup}}
16271 \def\@iiiminipage#1#2[#3]#4{%
16272     \leavevmode
16273     \@pboxswfalse
16274     \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16275     \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16276     \setlength\@tempdima{#4}%
16277     \def\@mpargs{{#1}{#2}[#3]{#4}}%
16278     \setbox\@tempboxa\vbox\bgroup
16279         \color@begingroup
16280         \hsize\@tempdima
16281         \textwidth\hsize \columnwidth\hsize
16282         \@parboxrestore
16283         \def\@mpfn{\mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16284         \let\@footnotetext\@mpfootnotetext
16285         \let\@LTRfootnotetext\@mpLTRfootnotetext
16286         \let\@RTLfootnotetext\@mpRTLfootnotetext
16287         \let\@listdepth\@mplistdepth \@mplistdepth\z@
16288         \@minipagerestore
16289         \setminipage}
16290 \def\endminipage{%
16291     \par

```




```

16292 \unskip
16293 \ifvoid\@mpfootins\else
16294 \vskip\skip\@mpfootins
16295 \normalcolor
16296 \bidi\@mpfootnoterule
16297 \unvbox\@mpfootins
16298 \fi
16299 \@minipagefalse %% added 24 May 89
16300 \color@endgroup
16301 \egroup
16302 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
16303 \def\LTRthanks#1{\footnotemark
16304 \protected@xdef\@thanks{\@thanks
16305 \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16306 }
16307 \def\LTRfootnotetext{%
16308 \@ifnextchar [\@xLTRfootnotenext
16309 {\protected@xdef\@thefnmark{\thempfn}%
16310 \@LTRfootnotetext}}
16311 \def\@xLTRfootnotenext[#1]{%
16312 \begingroup
16313 \csname c@\@mpfn\endcsname #1\relax
16314 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16315 \endgroup
16316 \@LTRfootnotetext}
16317 \def\RTLthanks#1{\footnotemark
16318 \protected@xdef\@thanks{\@thanks
16319 \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16320 }
16321 \let\@thanks\@empty
16322 \def\RTLfootnotetext{%
16323 \@ifnextchar [\@xRTLfootnotenext
16324 {\protected@xdef\@thefnmark{\thempfn}%
16325 \@RTLfootnotetext}}
16326 \def\@xRTLfootnotenext[#1]{%
16327 \begingroup
16328 \csname c@\@mpfn\endcsname #1\relax
16329 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16330 \endgroup
16331 \@RTLfootnotetext}
16332 \leftfootnoterule

```

97 File footnotebackref-xetex-bidi.def

```

16333 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
16334 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16335 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16336
16337 \renewcommand*\LTRfootnote{%
16338 \refstepcounter{BackrefHyperFootnoteCounter}%
16339 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16340 \label{\BackrefFootnoteTag}%
16341 \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
16342

```



```

16343 \renewcommand*\RTLfootnote{%
16344     \refstepcounter{BackrefHyperFootnoteCounter}%
16345     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16346     \label{\BackrefFootnoteTag}%
16347     \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}%
16348 \newcommand\Backref@HyperLTRFootnote[1]{%
16349     \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16350
16351 \newcommand\Backref@HyperRTLFootnote[1]{%
16352     \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16353
16354 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
16355     \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
16356
16357 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16358     \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
16359
16360 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16361 \ifFootnoteBackref@numberlinked
16362 \renewcommand{\footfootmark}{%
16363     \ifdim\footmarkwidth < \z@
16364         \llap{\hb@xt@ -\footmarkwidth{%
16365             \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16366             \hspace*{-\footmarkwidth}}}%
16367     \else
16368         \ifdim\footmarkwidth = \z@
16369             {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16370         \else
16371             \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
16372         \fi
16373     \fi}
16374 \renewcommand{\LTRfootfootmark}{%
16375     \ifdim\footmarkwidth < \z@
16376         \llap{\hb@xt@ -\footmarkwidth{%
16377             \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16378             \hspace*{-\footmarkwidth}}}%
16379     \else
16380         \ifdim\footmarkwidth = \z@
16381             {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16382         \else
16383             \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
16384         \fi
16385     \fi}
16386 \renewcommand{\RTLfootfootmark}{%
16387     \ifdim\footmarkwidth < \z@
16388         \llap{\hb@xt@ -\footmarkwidth{%
16389             \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16390             \hspace*{-\footmarkwidth}}}%
16391     \else
16392         \ifdim\footmarkwidth = \z@
16393             {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16394         \else
16395             \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
16396         \fi

```



```

16397 \fi}
16398 \fi
16399 }

```

98 File framed-xetex-bidi.def

```

16400 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
16401 \renewcommand\TitleBarFrame[3] [] {\begingroup
16402 \ifx\delimiter#1\delimiter
16403 \let\TF@conlab\@empty
16404 \else
16405 \def\TF@conlab{% continuation label
16406 \nointerlineskip
16407 \smash{\rlap{\kern\wd\@tempboxa\kern\fb@rule\kern\fb@sep #1}}}%
16408 \fi
16409 %\let\TF@savecolor\current@color
16410 \textcolor{TF@FrameColor}{%
16411 \CustomFBox
16412 {\TF@Title{#2}}{\TF@conlab}}%
16413 \fb@rule\fb@rule\fb@rule\fb@rule
16414 %{\let\current@color\TF@savecolor\set@color #3}%
16415 {\normalcolor #3}%
16416 }\endgroup
16417 }
16418 \renewenvironment{titled-frame}[1]{%
16419 \def\FrameCommand{\fb@sep8pt\fb@rule2pt
16420 \TitleBarFrame{\textbf{#1}}}%
16421 \def\FirstFrameCommand{\fb@sep8pt\fb@rule2pt
16422 \TitleBarFrame[{$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$}]{\textbf{#1}}}%
16423 \def\MidFrameCommand{\fb@sep8pt\fb@rule2pt
16424 \TitleBarFrame[{$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$}]{\textbf{#1\ (con
16425 \def\LastFrameCommand{\fb@sep8pt\fb@rule2pt
16426 \TitleBarFrame{\textbf{#1\ (cont)}}}%
16427 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16428 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16429 % could interfere with the width measurement.
16430 {\endMakeFramed}
16431 \chardef\FrameRestore=\catcode`\| % for debug
16432 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
16433 \def\fb@put@frame#1#2{\relax
16434 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
16435 | \message{===== Entering putframe =====^^J
16436 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
16437 \ifinner
16438 \fb@putboxa#1%
16439 \fb@afterframe
16440 \else
16441 \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
16442 \ifdim\dimen@<2\baselineskip % Too little room on page
16443 | \message{Page has only \the\dimen@\space room left; eject.}%
16444 \eject \fb@adjheight \fb@put@frame#1#2%
16445 \else % there's appreciable room left on the page
16446 \fb@sizeofframe#1%
16447 | \message{\string\pagetotal=\the\pagetotal,

```



```

16448 | \string\pagegoal=\the\pagegoal,
16449 | \string\pagestretch=\the\pagestretch,
16450 | \string\pageshrink=\the\pageshrink,
16451 | \string\fb@frh=\the\fb@frh. \space}
16452 | \message{^^JBox of size \the\ht\@tempboxa\space}%
16453 | \begingroup % temporarily set \dimen@ to be...
16454 | \advance\dimen@.8\pageshrink % maximum space available on page
16455 | \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16456 |%%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
16457 | \expandafter\endgroup
16458 | % expand \ifdim, then restore \dimen@ to real room left on page
16459 | \ifdim\dimen@>\ht\@tempboxa % whole box does fit
16460 | \message{fits in \the\dimen@. }%
16461 | % ToDo: Change this to use vsplit anyway to capture the marks
16462 | % MERGE THIS WITH THE else CLAUSE!!!
16463 | \fb@putboxa#1%
16464 | \fb@afterframe
16465 | \else % box must be split
16466 | \message{must be split to fit in \the\dimen@. }%
16467 | % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16468 | \fb@sizeofframe#2%
16469 | \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16470 | \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16471 | \kern137sp\kern-137sp\penalty-30
16472 | \unvbox\@tempboxa}%
16473 | \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16474 | \splittopskip\the\splittopskip}%
16475 | \boxmaxdepth\z@ \splittopskip\z@
16476 | \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
16477 | % Split box here
16478 | \setbox\tw@\vsplit\@tempboxa to\dimen@
16479 | \toks99\expandafter{\splitfirstmark}%
16480 | \toks98\expandafter{\splitbotmark}%
16481 | \message{Marks are: \the\toks99, \the\toks98. }%
16482 | \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
16483 | \message{Natural height of split box is \the\ht\tw@, leaving
16484 | \the\ht\@tempboxa\space remainder. }%
16485 | % If the split-to size > (\vsize-\topskip), then set box to full size.
16486 | \begingroup
16487 | \advance\dimen@\topskip
16488 | \expandafter\endgroup
16489 | \ifdim\dimen@>\pagegoal
16490 | \message{Frame is big -- Use up the full column. }%
16491 | \dimen@ii\pagegoal
16492 | \advance\dimen@ii -\topskip
16493 | \advance\dimen@ii \FrameHeightAdjust\relax
16494 | \else % suspect this is implemented incorrectly:
16495 | % If the split-to size > feasible room_on_page, rebox it smaller.
16496 | \advance\dimen@.8\pageshrink
16497 | \ifdim\ht\tw@>\dimen@
16498 | \message{Box too tall; rebox it to \the\dimen@. }%
16499 | \dimen@ii\dimen@
16500 | \else % use natural size
16501 | \dimen@ii\ht\tw@

```



```

16502         \fi
16503     \fi
16504     % Re-box contents to desired size \dimen@ii
16505     \advance\dimen@ii -\fb@frh
16506     \setbox\tw@\vbox to\dimen@ii \bgroup
16507     % remove simulated frame and page flexibility:
16508     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16509     \unvbox\tw@ \unpenalty\unpenalty
16510     \ifdim\lastkern=-137sp % whole box went to next page
16511 |         \message{box split at beginning! }%
16512         % need work here???
16513         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16514         \fb@adjheight
16515         \fb@put@frame#1#2% INSERTED ???
16516     \else % Got material split off at the head
16517         \egroup \fb@resto@set
16518         \ifvoid\@tempboxa % it all fit after all
16519 |             \message{box split at end! }%
16520             \setbox\@tempboxa\box\tw@
16521             \fb@putboxa#1%
16522             \fb@afterframe
16523         \else % it really did split
16524 |             \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16525             \ifdim\wd\tw@>\z@
16526                 \wd\tw@\wd\@tempboxa
16527                 \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16528             \else
16529 |             \message{Zero width means likely blank. Don't frame it (guess)}%
16530                 \box\tw@
16531             \fi
16532             \hrule \@height\z@ \@width\hsize
16533             \eject
16534             \fb@adjheight
16535             \fb@put@frame\LastFrameCommand\MidFrameCommand
16536     \fi\fi\fi\fi\fi
16537 }
16538 \def\fb@putboxa#1{%
16539     \ifvoid\@tempboxa
16540         \PackageWarning{framed}{Boxa is void -- discard it. }%
16541     \else
16542 |         \message{Frame and place boxa. }%
16543 |         %{\showoutput\showbox\@tempboxa}%
16544         \centerline{#1{\hboxL{\box\@tempboxa}}}%
16545     \fi
16546 }
16547 \catcode`\|=\FrameRestore
16548 \def\FrameRestore{%
16549     \let\if@nobreak\iffalse
16550     \let\if@noskipsec\iffalse
16551     \let\-\@dischph
16552     \let\'\@acci\let\` \@accii\let\=\@acciii
16553     % \message{FrameRestore:
16554     %     \@totalleftmargin=\the \@totalleftmargin,
16555     %     \rightmargin=\the\rightmargin,

```



```

16556 % \listdepth=\the\listdepth. }%
16557 % Test if we are in a list (or list-like paragraph)
16558 \ifnum \ifdim\totalleftmargin>\z@ 1\fi
16559 \ifdim\rightmargin>\z@ 1\fi
16560 \ifnum\listdepth>\z@ 1\fi 0>\z@
16561 % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
16562 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
16563 % \labelwidth=\the\labelwidth. }%
16564 \@setminipage % snug fit around the item
16565 % Now try to propagate changes of width from \hsize to list parameters.
16566 % This is deficient, but a more advanced way to indicate modification to text
16567 % dimensions is not (yet) provided; in particular, no separate left/right
16568 % adjustment.
16569 \advance\linewidth-\columnwidth \advance\linewidth\hsize
16570 \parshape\one \totalleftmargin \linewidth
16571 \else % Not in list
16572 \linewidth=\hsize
16573 %\message{No list, set \string\linewidth=\the\hsize. }%
16574 \fi
16575 \sloppy
16576 }

```

99 File ftnright-xetex-bidi.def

```

16577 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16578
16579 \def\prepare@bidi@copyins{%
16580 \global\bidircol@copyinsskip\skip\@bidi@copyins@
16581 \global\skip\@bidi@copyins@\z@
16582 \global\count\@bidi@copyins@\z@
16583 \global\dimen\@bidi@copyins@\textheight}
16584
16585 \newskip\bidircol@copyinsskip
16586
16587 \def\LTR@outputdblcol{%
16588 \if@firstcolumn
16589 \global\@firstcolumnfalse
16590 \global\setbox\@leftcolumn\copy\@outputbox
16591 \global\count\footins\@m
16592 \global\skip\footins\rcol@footinsskip
16593 \global\count\@bidi@copyins@\@m
16594 \global\skip\@bidi@copyins@\bidircol@copyinsskip
16595 \splitmaxdepth\maxdimen
16596 \vbadness\maxdimen
16597 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16598 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16599 \toks@{\expandafter{\topmark}}%
16600 \xdef\@firstcoltopmark{\the\toks@}%
16601 \toks@\expandafter{\splitfirstmark}%
16602 \xdef\@firstcolfirstmark{\the\toks@}%
16603 \ifx\@firstcolfirstmark\empty
16604 \global\let\@setmarks\relax
16605 \else
16606 \gdef\@setmarks{%

```



```

16607         \let\firstmark\@firstcolfirstmark
16608         \let\topmark\@firstcoltopmark}%
16609     \fi
16610 \else
16611     \preparefootins
16612     \prepare@bidi@copyins
16613     \global\@firstcolumntrue
16614     \setbox\@outputbox\vbox{%
16615         \hb@xt@\textwidth{%
16616             \hb@xt@\columnwidth{%
16617                 \bidi@firstcolumn@status@write%
16618                 \box\@leftcolumn \hss}%
16619             \hfil
16620             {normalcolor\vrule \@width\columnseprule}%
16621             \hfil
16622             \hb@xt@\columnwidth{%
16623                 \bidi@lastcolumn@status@write%
16624                 \box\@outputbox \hss}}}%
16625 \@combinedblfloats
16626     \setmarks
16627     \@outputpage
16628     \begingroup
16629         \@dblfloatplacement
16630         \@startdblcolumn
16631         \@whiles\if@fcolmade \fi{\@outputpage
16632             \@startdblcolumn}%
16633     \endgroup
16634 \fi}%
16635
16636 \def\RTL@outputdblcol{%
16637     \if@firstcolumn
16638         \global\@firstcolumnfalse
16639         \global\setbox\@leftcolumn\copy\@outputbox
16640         \global\count\footins\@m
16641         \global\skip\footins\rcol@footinsskip
16642         \global\count\@bidi@copyins\@m
16643         \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
16644         \splitmaxdepth\maxdimen
16645         \vbadness\maxdimen
16646         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16647         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16648         \toks@\expandafter{\topmark}%
16649         \xdef\@firstcoltopmark{\the\toks@}%
16650         \toks@\expandafter{\splitfirstmark}%
16651         \xdef\@firstcolfirstmark{\the\toks@}%
16652         \ifx\@firstcolfirstmark\@empty
16653             \global\let\@setmarks\relax
16654         \else
16655             \gdef\@setmarks{%
16656                 \let\firstmark\@firstcolfirstmark
16657                 \let\topmark\@firstcoltopmark}%
16658     \fi
16659 \else
16660     \preparefootins

```



```

16661 \prepare@bidi@copyins
16662 \global\@firstcolumntrue
16663 \setbox\@outputbox\vbox{%
16664   \hb@xt@\textwidth{%
16665     \hskip \columnwidth
16666     \hfil
16667     {\normalcolor\vrule \@width\columnseprule}%
16668     \hfil
16669     \hb@xt@\columnwidth{%
16670       \bidi@firstcolumn@status@write%
16671       \box\@leftcolumn \hss}%
16672     \hskip -\textwidth
16673     \hb@xt@\columnwidth{%
16674       \bidi@lastcolumn@status@write%
16675       \box\@outputbox \hss}%
16676     \hskip \columnsep
16677     \hskip \columnwidth }}%
16678 \@combinedblfloats
16679 \setmarks
16680 \outputpage
16681 \begingroup
16682   \@dblfloatplacement
16683   \@startdblcolumn
16684   \@whiles\if@fcolmade \fi{\@outputpage
16685     \@startdblcolumn}%
16686   \endgroup
16687 \fi}%
16688
16689 \def\@startcolumn{%
16690   \ifx\@deferlist\@empty
16691     \global\@fcolmadefalse
16692     \global\@colroom\@colht
16693   \else
16694     \ifvoid\footins\else
16695       \ftn@amount\ht\footins
16696       \advance\ftn@amount\dp\footins
16697       \advance\ftn@amount\skip\footins
16698     \fi
16699     \ifvoid\@bidi@copyins\else
16700       \bidi@copyins@amount\ht\@bidi@copyins@
16701       \advance\bidi@copyins@amount\dp\@bidi@copyins@
16702       \advance\bidi@copyins@amount\skip\@bidi@copyins@
16703     \fi
16704     \global\advance\@colht-\ftn@amount
16705     \global\advance\@colht-\bidi@copyins@amount
16706     \global\@colroom\@colht
16707     \xstartcol
16708     \global\advance\@colht\ftn@amount
16709     \global\advance\@colroom\ftn@amount
16710     \global\advance\@colht\bidi@copyins@amount
16711     \global\advance\@colroom\bidi@copyins@amount
16712   \fi
16713   \if@fcolmade
16714     \setbox\@cclv\box\@outputbox

```




```

16715 \@makecol
16716 \else
16717   \ifvoid\footins\else
16718     \insert\footins{\unvbox\footins}\fi
16719   \ifvoid\@bidi@copyins\else
16720     \insert\@bidi@copyins{\unvbox\@bidi@copyins}\fi
16721 \fi}
16722
16723 \newdimen\@bidi@copyins@amount
16724
16725 \def\@makecol{\if@firstcolumn
16726   \setbox\@outputbox\box\@cclv
16727   \if@twocolumn \else
16728     \ifvoid\footins \else
16729       \@latexerr{ftnright package
16730         used in one-column mode}%
16731     {The ftnright package was designed to
16732       work with LaTeX's standard^^Jtwocolumn
16733       option. It does *not* work with the
16734       multicol package.^^JSo please specify
16735       `twocolumn' in the
16736       \noexpand\documentclass command.}%
16737     \shipout\box\footins \fi
16738     \ifvoid\@bidi@copyins\else
16739       \@latexerr{ftnright package
16740         used in one-column mode}%
16741     {The ftnright package was designed to
16742       work with LaTeX's standard^^Jtwocolumn
16743       option. It does *not* work with the
16744       multicol package.^^JSo please specify
16745       `twocolumn' in the
16746       \noexpand\documentclass command.}%
16747     \shipout\box\@bidi@copyins\fi\fi
16748   \ifnum\insertpenalties>\z@
16749     \@latexerr{ftnright package
16750       scrambled footnotes}%
16751   {There is too much footnote material in
16752     the first column and ftnright^^Jis
16753     unable to cope with this.^^JYou need
16754     to reduce the amount to get a properly
16755     formatted page.}%
16756 \fi
16757 \else
16758   \ifvoid\footins
16759     \ifvoid\@bidi@copyins\
16760       \setbox\@outputbox\box\@cclv
16761     \else
16762       \setbox\@outputbox\vbox
16763         {\ifvoid\@cclv \else
16764           \unvbox\@cclv
16765           \vskip \skip\@bidi@copyins\
16766         \fi
16767         \color@begingroup
16768         \normalcolor

```



```

16769 \unvbox \@bidi@copyins@
16770 \color@endgroup}%
16771 \fi
16772 \else
16773 \setbox\@outputbox\vbox
16774 {\ifvoid\@cclv \else
16775 \unvbox\@cclv
16776 \vskip\skip\footins\fi
16777 \color@begingroup
16778 \normalcolor
16779 \footnoterule\unvbox\footins
16780 \color@endgroup
16781 \ifvoid\@bidi@copyins@
16782 \else
16783 \vskip \skip\@bidi@copyins@
16784 \color@begingroup
16785 \normalcolor
16786 \unvbox \@bidi@copyins@
16787 \color@endgroup
16788 \fi
16789 }%
16790 \fi
16791 \fi
16792 \xdef\@freelist{\@freelist\@midlist}%
16793 \global \let \@midlist \@empty
16794 \@combinefloats
16795 \ifvbox\@kludgeins
16796 \@makespecialcolbox
16797 \else
16798 \setbox\@outputbox\vbox to\@colht
16799 {\boxmaxdepth\maxdepth
16800 \@texttop
16801 \@tempdima\dp\@outputbox
16802 \unvbox\@outputbox
16803 \vskip-\@tempdima
16804 \@textbottom}%
16805 \fi
16806 \global\maxdepth\@maxdepth}
16807
16808 \let\leftfootnoterule\@empty
16809 \let\rightfootnoterule\@empty
16810 \let\textwidthfootnoterule\@empty
16811 \let\autofootnoterule\@empty
16812 \let\footnoterule\@empty
16813 \long\def\@makefnmark#1{\parindent 1em
16814 \noindent\hbox to 2em{}}%
16815 \llap{\@thefnmark\hbox{.}\,\,\,}\,#1}
16816
16817 \setlength{\skip\@bidi@copyins@}
16818 {10pt plus 5pt minus 3pt}
16819 \AtBeginDocument{\prepare@bidi@copyins}

```

100 File graphicx-xetex-bidi.def



```

16820 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
16821 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
16822   \Grot@setangle{#1}%
16823   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL
16824   \Grot@x\z@
16825   \Grot@y\z@
16826   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
16827 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16828   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16829   \Grot@x\width \divide\Grot@x\tw@
16830   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16831   \setkeys{Grot}{#1}%
16832   \setbox\z@\box\@tempboxa
16833   \Grot@setangle{#2}%
16834   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
16835   \@end@tempboxa}
16836 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16837   \leavevmode
16838   \def\Gscale@x{#1}\def\Gscale@y{#2}%
16839   \setbox\z@\hbox{#3}%
16840   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16841   \ifdim#2\p@<\z@
16842     \ht\tw@-#2\dp\z@
16843     \dp\tw@-#2\ht\z@
16844   \else
16845     \ht\tw@#2\ht\z@
16846     \dp\tw@#2\dp\z@
16847   \fi
16848   \ifdim#1\p@<\z@
16849     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16850   \else
16851     \wd\tw@#1\wd\z@
16852     \box\tw@
16853   \fi\ifmmode\else\if@RTL\endL\fi\fi}
16854 \def\Gin@iii[#1,#2][#3,#4]#5{%
16855   \begingroup
16856   \ifmmode\else\if@RTL\beginL\fi\fi
16857   \Gin@bbboxtrue
16858   \Gin@defaultbp\Gin@llx{#1}%
16859   \Gin@defaultbp\Gin@lly{#2}%
16860   \Gin@defaultbp\Gin@urx{#3}%
16861   \Gin@defaultbp\Gin@ury{#4}%
16862   \Gin@include@graphics{#5}%
16863   \ifmmode\else\if@RTL\endL\fi\fi
16864   \endgroup}
16865 \def\Gin@ii[#1]#2{%
16866   \def\@tempa{[]}\def\@tempb{#2}%
16867   \ifx\@tempa\@tempb
16868     \def\@tempa{\Gin@iii[#1] []}%
16869     \expandafter\@tempa
16870   \else
16871     \begingroup
16872     \ifmmode\else\if@RTL\beginL\fi\fi
16873     \@tempswafalse

```



```

16874      \toks@{\Ginclude@graphics{#2}}%
16875      \setkeys{Gin}{#1}%
16876      \Gin@esetsize
16877      \the\toks@
16878      \ifmmode\else\if@RTL\endL\fi\fi
16879      \endgroup
16880      \fi}
16881 \def\reflectbox{\bidiGscale@box-1[1]}
16882 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16883   \leavevmode
16884   \def\Gscale@x{#1}\def\Gscale@y{#2}%
16885   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16886   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16887   \ifdim#2\p@<\z@
16888     \ht\tw@-#2\dp\z@
16889     \dp\tw@-#2\ht\z@
16890   \else
16891     \ht\tw@#2\ht\z@
16892     \dp\tw@#2\dp\z@
16893   \fi
16894   \ifdim#1\p@<\z@
16895     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16896   \else
16897     \wd\tw@#1\wd\z@
16898     \box\tw@
16899   \fi\ifmmode\else\if@RTL\endL\fi\fi}
16900 \def\scalebox#1{%
16901   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
16902 \def\resizebox{%
16903   \leavevmode
16904   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
16905 \def\bidiGscale@@box#1#2#3{%
16906   \let\@tempa\Gin@exclamation
16907   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16908   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16909   \ifx\@tempb\@tempa
16910     \ifx\@tempc\@tempa
16911       \toks@{\mbox}%
16912     \else
16913       \toks@{\bidiGscale@box@dd{#3}#1}%
16914     \fi
16915   \else
16916     \ifx\@tempc\@tempa
16917       \toks@{\bidiGscale@box@dd{#2}\width}%
16918     \else
16919       \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
16920     \fi
16921   \fi
16922   \the\toks@}
16923 \long\def\bidiGscale@box@dd#1#2#3{%
16924   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\fi
16925   \setlength\@tempdima{#1}%
16926   \setlength\@tempdimb{#2}%
16927   \Gscale@div\@tempa\@tempdima\@tempdimb

```



```

16928 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16929 \@end@tempboxa}
16930 \long\def\bidigscale@box@dddd#1#2#3#4#5{%
16931 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\fi}
16932 \setlength\@tempdima{#1}%
16933 \setlength\@tempdimb{#2}%
16934 \Gscale@div\@tempa\@tempdima\@tempdimb
16935 \setlength\@tempdima{#3}%
16936 \setlength\@tempdimb{#4}%
16937 \Gscale@div\@tempb\@tempdima\@tempdimb
16938 \ifGin@iso
16939 \ifdim\@tempa\p>\@tempb\p@
16940 \let\@tempa\@tempb
16941 \else
16942 \let\@tempb\@tempa
16943 \fi
16944 \fi
16945 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16946 \@end@tempboxa}

```

101 File geometry-xetex-bidi.def

```

16947 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16948 \renewcommand*{\Gm@vrules@mpi}{%
16949 \if@RTLmain%
16950 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16951 \llap{\Gm@vrule}\ignorespaces
16952 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16953 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16954 \else%
16955 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16956 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16957 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
16958 \renewcommand*{\Gm@vrules@mpii}{%
16959 \if@RTLmain%
16960 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16961 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16962 \llap{\Gm@vrule}\hfil\Gm@vrule}%
16963 \else%
16964 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16965 \llap{\Gm@vrule}\ignorespaces
16966 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16967 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16968 \bidi@patchcmd{\Gm@pageframes}{%
16969 \ifodd\count\z@
16970 \let\@themargin\oddsidemargin
16971 \else
16972 \let\@themargin\evensidemargin
16973 \fi
16974 }{%
16975 \ifodd\count\z@
16976 \if@RTLmain
16977 \let\@themargin\evensidemargin
16978 \else

```



```

16979         \let\@themargin\oddsidemargin
16980     \fi
16981 \else
16982     \if@RTLmain
16983         \let\@themargin\oddsidemargin
16984     \else
16985         \let\@themargin\evensidemargin
16986     \fi
16987 \fi
16988 }{}{}

```

102 File hvfloat-xetex-bidi.def

```

16989 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
16990 \def\do@hvFloat[#1]#2#3{%
16991 \def\hv@shortCap{#1}
16992 \def\hv@longCap{#2}
16993 \def\hv@label{#3}
16994 %\newcommand*{\hvFloat}[5][]{%
16995 % #1: keyvalues
16996 % #2: type figure | table | ...
16997 % #3: float contents
16998 % #4: short caption
16999 % #5: caption
17000 % #6: label
17001 % \setDefault%
17002 % \def\@tempa{#1}%
17003 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
17004 \def\@tempa{90}%
17005 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
17006 \else \setlength{\hvMaxCapWidth}{\linewidth}
17007 \fi
17008 %
17009 % First we save the object in \hvObjectBox
17010 %
17011 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
17012 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
17013 \else
17014 \savebox{\hvObjectBox}{%
17015 \rotatebox{\hvSet@objectAngle}{%
17016 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
17017 \fi
17018 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
17019 %
17020 % Now we save the caption with its defined \hvCapWidth
17021 %
17022 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
17023 \else
17024 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
17025 \else
17026 \setlength{\hvCapWidth}{\hvObjectWidth}
17027 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17028 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17029 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth

```



```

17030 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
17031 \else
17032 \setlength{\hvCapWidth}{\hvMaxCapWidth}
17033 \fi
17034 \fi
17035 \fi
17036 %
17037 % now we have the object and the caption with the right
17038 % rotated angles saved in boxes
17039 %
17040 \def\fps@figure{\hvSet@floatPos}
17041 \ifhv@nonFloat\begin{group}% Start the nonfloat part
17042 \else \begin{\hv@floatType}% Start the floating environment
17043 \fi%
17044 \saveCaptionSkip% we put this space ourselves
17045 \ifx\hvSet@capAngle\hv@Width % need rotation?
17046 \sbox{\hvCaptionBox}{%
17047 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17048 \ifhv@nonFloat%
17049 \ifhv@onlyText#2%
17050 \else%
17051 \ifx\hv@floatType\hv@figure
17052 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17053 \else
17054 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17055 \fi
17056 \fi
17057 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17058 \fi%
17059 \label{#3}%
17060 \end{minipage}%
17061 }%
17062 \else%
17063 \sbox{\hvCaptionBox}{%
17064 \rotatebox{\hvSet@capAngle}{%
17065 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17066 \ifhv@nonFloat%
17067 \ifhv@onlyText#2%
17068 \else%
17069 \ifx\hv@floatType\hv@figure
17070 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17071 \else
17072 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17073 \fi
17074 \fi
17075 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17076 \fi%
17077 \label{#3}%
17078 \end{minipage}%
17079 }%
17080 }%
17081 \fi%
17082 %%
17083 \restoreCaptionSkip% save old values

```



```

17084 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
17085 \else%
17086 \ifx\hvSet@objectPos\hv@Center
17087 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17088 \fi%
17089 \fi%
17090 %
17091 % to rotate object and caption together, we save all in another box
17092 % the caption comes first, if its on the left or the top
17093 %
17094 \savebox{\@tempboxa}{%
17095 \ifx\hvSet@capPos\hv@Left % caption on left side
17096 \if@RTL%
17097 \ifx\hvSet@capVPos\hv@Center%
17098 \ifhv@fbox
17099 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17100 \else
17101 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
17102 \fi%
17103 \hspace{\hvSet@floatCapSep pt}%
17104 \ifhv@fbox
17105 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17106 \else
17107 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17108 \fi%
17109 \else%
17110 \ifx\hvSet@capVPos\hv@Top
17111 \ifhv@fbox
17112 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17113 \else
17114 \raisebox{-\height}{\usebox{\hvObjectBox}}%
17115 \fi%
17116 \hspace{\hvSet@floatCapSep pt}%
17117 \ifhv@fbox
17118 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17119 \else
17120 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17121 \fi
17122 \else
17123 \ifhv@fbox
17124 \fbox{\usebox{\hvObjectBox}}%
17125 \else
17126 \usebox{\hvObjectBox}%
17127 \fi
17128 \hspace{\hvSet@floatCapSep pt}%
17129 \ifhv@fbox
17130 \fbox{\usebox{\hvCaptionBox}}%
17131 \else
17132 \usebox{\hvCaptionBox}%
17133 \fi%
17134 \fi%
17135 \fi%
17136 \else% not RTL
17137 \ifx\hvSet@capVPos\hv@Center%

```




```

17138     \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17139     \else       \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17140     \fi%
17141     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17142     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17143     \else       \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17144     \fi%
17145 \else%
17146     \ifx\hvSet@capVPos\hv@Top % caption at top
17147     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17148     \else       \raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17149     \fi
17150     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17151     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17152     \else       \raisebox{-\height}{\usebox{\hvObjectBox}}}%
17153     \fi%
17154 \else% caption on bottom
17155     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
17156     \else\usebox{\hvCaptionBox}
17157     \fi%
17158     \hspace{\hvSet@floatCapSep pt}%
17159     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17160     \else       \usebox{\hvObjectBox}
17161     \fi%
17162 \fi%
17163 \fi% end of RTL
17164 \fi%
17165 \else
17166     \ifx\hvSet@capPos\hv@Top
17167     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17168     \begin{minipage}{\wd\hvCaptionBox}
17169     \else
17170     \begin{minipage}{\wd\hvObjectBox}
17171     \fi
17172     \centering
17173     \ifhv@fbox
17174     \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17175     \fbbox{\usebox{\hvObjectBox}}
17176     \else
17177     \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17178     \usebox{\hvObjectBox}
17179     \fi%
17180     \end{minipage}
17181 \else
17182     \ifx\hvSet@capPos\hv@Bottom
17183     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17184     \begin{minipage}{\wd\hvCaptionBox}
17185     \else
17186     \begin{minipage}{\wd\hvObjectBox}
17187     \fi
17188     \centering
17189     \ifhv@fbox
17190     \fbbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17191     \fbbox{\usebox{\hvCaptionBox}}

```



```

17192     \else
17193     \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
17194     \usebox{\hvCaptionBox}
17195     \fi%
17196     \end{minipage}
17197     \else% the last option: put the caption on the right
17198 \if@RTL%
17199     \ifx\hvSet@capVPos\hv@Center%
17200     \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17201     \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17202     \fi%
17203     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17204     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17205     \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17206     \fi%
17207 \else%
17208     \ifx\hvSet@capVPos\hv@Top % caption at top
17209     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17210     \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17211     \fi
17212     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17213     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}
17214     \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
17215     \fi%
17216     \else% caption on bottom
17217     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
17218     \else\usebox{\hvCaptionBox}
17219     \fi%
17220     \hspace{\hvSet@floatCapSep pt}%
17221     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17222     \else \usebox{\hvObjectBox}
17223     \fi%
17224     \fi%
17225 \fi%
17226 \else% not RTL
17227     \ifx\hvSet@capVPos\hv@Center%
17228     \ifhv@fbox
17229     \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17230     \else
17231     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17232     \fi%
17233     \hspace{\hvSet@floatCapSep pt}%
17234     \ifhv@fbox
17235     \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17236     \else
17237     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17238     \fi%
17239     \else%
17240     \ifx\hvSet@capVPos\hv@Top
17241     \ifhv@fbox
17242     \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17243     \else
17244     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17245     \fi%

```



```

17246      \hspace{\hvSet@floatCapSep pt}%
17247      \ifhv@fbox
17248      \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17249      \else
17250      \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17251      \fi
17252    \else
17253      \ifhv@fbox
17254      \fbox{\usebox{\hvObjectBox}}%
17255      \else
17256      \usebox{\hvObjectBox}%
17257      \fi
17258      \hspace{\hvSet@floatCapSep pt}%
17259      \ifhv@fbox
17260      \fbox{\usebox{\hvCaptionBox}}%
17261      \else
17262      \usebox{\hvCaptionBox}%
17263      \fi%
17264    \fi%
17265  \fi
17266 \fi% end of RTL
17267   \fi
17268   \fi
17269   \fi
17270 }% End savebox Object and caption
17271 %
17272 % now we rotate the object and caption, if needed
17273 %
17274 \ifx\hvSet@rotAngle\hv@Zero
17275   \usebox{@tempboxa}
17276 \else
17277   \rotatebox{\hvSet@rotAngle}{\usebox{@tempboxa}}
17278 \fi
17279 \ifhv@nonFloat
17280   \ifx\hvSet@objectPos\hv@Center
17281     \ifhv@nonFloat
17282       \hspace{\filll}
17283     \fi
17284   \fi
17285   \endgroup% End the nonfloat part
17286 \else
17287   \end{\hv@floatType}% End the floating environment
17288 \fi
17289 }

```

103 File hyperref-xetex-bidi.def

```

17290 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
17291 \AtBeginDocument{%
17292   \def\contentsline#1#2#3#4{%
17293     \ifx\#4\%
17294       \csname l@#1\endcsname{#2}{#3}%
17295     \else
17296       \ifcase\Hy@linktoc % none

```



```

17297     \csname l@#1\endcsname{#2}{#3}%
17298 \or % section
17299     \csname l@#1\endcsname{%
17300     \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17301     }{#3}%
17302 \or % page
17303     \csname l@#1\endcsname{#2}{#3}%
17304     \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17305     }%
17306 \else % all
17307     \csname l@#1\endcsname{%
17308     \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17309     }{#3}%
17310     \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17311     }%
17312 \fi
17313 \fi
17314 }
17315 \ifHy@hyperfootnotes
17316 \let\H@@footnotetext\@footnotetext
17317 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
17318 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
17319 \def\xfootnotenext[#1]{%
17320 \begingroup
17321 \csname c@\mpfn\endcsname #1\relax
17322 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17323 \endgroup
17324 \ifx\@footnotetext\@mpfootnotetext
17325 \expandafter\H@@mpfootnotetext
17326 \else
17327 \expandafter\H@@footnotetext
17328 \fi
17329 }%
17330 \def\xRTLfootnotenext[#1]{%
17331 \begingroup
17332 \csname c@\mpfn\endcsname #1\relax
17333 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17334 \endgroup
17335 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
17336 \expandafter\HRTL@mpRTLfootnotetext
17337 \else
17338 \expandafter\HRTL@RTLfootnotetext
17339 \fi
17340 }%
17341 \def\xLTRfootnotenext[#1]{%
17342 \begingroup
17343 \csname c@\mpfn\endcsname #1\relax
17344 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17345 \endgroup
17346 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
17347 \expandafter\HLTR@mpLTRfootnotetext
17348 \else
17349 \expandafter\HLTR@LTRfootnotetext
17350 \fi

```



```

17351 }%
17352 \def\xfootnotemark[#1]{%
17353 \begingroup
17354 \c@footnote #1\relax
17355 \unrestored@protected\xdef\thefnmark{\thefootnote}%
17356 \endgroup
17357 \H@@footnotemark
17358 }%
17359 \let\H@@mpfootnotetext\mpfootnotetext
17360 \let\HRTL@@mpRTLfootnotetext\mpRTLfootnotetext
17361 \let\HLTR@@mpLTRfootnotetext\mpLTRfootnotetext
17362 \long\def\@mpfootnotetext#1{%
17363 \H@@mpfootnotetext{%
17364 \ifHy@nesting
17365 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17366 \else
17367 \Hy@raisedlink{%
17368 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17369 }#1%
17370 \fi
17371 }%
17372 }%
17373 \long\def\@mpRTLfootnotetext#1{%
17374 \HRTL@@mpRTLfootnotetext{%
17375 \ifHy@nesting
17376 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17377 \else
17378 \Hy@raisedlink{%
17379 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17380 }#1%
17381 \fi
17382 }%
17383 }%
17384 \long\def\@mpLTRfootnotetext#1{%
17385 \HLTR@@mpLTRfootnotetext{%
17386 \ifHy@nesting
17387 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17388 \else
17389 \Hy@raisedlink{%
17390 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17391 }#1%
17392 \fi
17393 }%
17394 }%
17395 \long\def\@footnotetext#1{%
17396 \H@@footnotetext{%
17397 \ifHy@nesting
17398 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17399 \else
17400 \Hy@raisedlink{%
17401 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17402 }%
17403 \let\@currentHlabel\Hy@footnote@currentHlabel
17404 \let\@currentHref\Hy@footnote@currentHref

```



```

17405         \let\@currentlabelname\@empty
17406         #1%
17407     \fi
17408 }%
17409 }%
17410 \long\def\@RTLfootnotetext#1{%
17411 \HRTL@%RTLfootnotetext{%
17412     \ifHy@nesting
17413         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17414     \else
17415         \Hy@raisedlink{%
17416             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17417         }%
17418         \let\@currentHlabel\Hy@footnote@currentHlabel
17419         \let\@currentHref\Hy@footnote@currentHref
17420         \let\@currentlabelname\@empty
17421         #1%
17422     \fi
17423 }%
17424 }%
17425 \long\def\@LTRfootnotetext#1{%
17426 \HLTR@%LTRfootnotetext{%
17427     \ifHy@nesting
17428         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17429     \else
17430         \Hy@raisedlink{%
17431             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17432         }%
17433         \let\@currentHlabel\Hy@footnote@currentHlabel
17434         \let\@currentHref\Hy@footnote@currentHref
17435         \let\@currentlabelname\@empty
17436         #1%
17437     \fi
17438 }%
17439 }%
17440 \ApplyPatchCodeToPackage{tabularx}{%
17441 \let\HyOrg@TX@endtabularx\TX@endtabularx
17442 \def\Hy@tabularx@hook{%
17443     \let\@footnotetext\H@@footnotetext
17444     \let\@LTRfootnotetext\HLTR@%LTRfootnotetext
17445     \let\@RTLfootnotetext\HRTL@%RTLfootnotetext
17446     \let\@footnotemark\H@@footnotemark
17447     \let\@mpfootnotetext\H@@mpfootnotetext
17448     \let\@mpLTRfootnotetext\HLTR@%mpLTRfootnotetext
17449     \let\@mpRTLfootnotetext\HRTL@%mpRTLfootnotetext
17450 }%
17451 \begingroup
17452 \toks@%expandafter{\TX@endtabularx}%
17453 \xdef\Hy@gtemp{%
17454     \noexpand\Hy@tabularx@hook
17455     \the\toks@
17456 }%
17457 \endgroup
17458 \let\TX@endtabularx\Hy@gtemp

```



```

17459 }%
17460 \ApplyPatchCodeToPackage{longtable}{%
17461 \CheckCommand{\LT@p@LTRftntext}[1]{%
17462 \edef\@tempa{%
17463 \the\LT@p@ftn
17464 \noexpand\LTRfootnotetext[\the\c@footnote]%
17465 }%
17466 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17467 }%
17468 \long\def\LT@p@LTRftntext#1{%
17469 \edef\@tempa{%
17470 \the\LT@p@ftn
17471 \begingroup
17472 \noexpand\c@footnote=\the\c@footnote\relax
17473 \noexpand\protected@xdef\noexpand\@thefnmark{%
17474 \noexpand\thempfn
17475 }%
17476 \noexpand\Hy@LT@LTRfootnotetext{%
17477 \Hy@footnote@currentHref
17478 }%
17479 }%
17480 \global\LT@p@ftn\expandafter{%
17481 \@tempa{#1}%
17482 \endgroup
17483 }%
17484 }%
17485 \long\def\Hy@LT@LTRfootnotetext#1#2{%
17486 \HLTR@@LTRfootnotetext{%
17487 \ifHy@nesting
17488 \hyper@@anchor{#1}{#2}%
17489 \else
17490 \Hy@raisedlink{%
17491 \hyper@@anchor{#1}{\relax}%
17492 }%
17493 \def\@currentHref{#1}%
17494 \let\@currentlabelname\@empty
17495 #2%
17496 \fi
17497 }%
17498 }%
17499 \CheckCommand{\LT@p@RTLftntext}[1]{%
17500 \edef\@tempa{%
17501 \the\LT@p@ftn
17502 \noexpand\RTLfootnotetext[\the\c@footnote]%
17503 }%
17504 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17505 }%
17506 \long\def\LT@p@RTLftntext#1{%
17507 \edef\@tempa{%
17508 \the\LT@p@ftn
17509 \begingroup
17510 \noexpand\c@footnote=\the\c@footnote\relax
17511 \noexpand\protected@xdef\noexpand\@thefnmark{%
17512 \noexpand\thempfn

```



```

17513         }%
17514         \noexpand\Hy@LT@RTLfootnotetext{%
17515             \Hy@footnote@currentHref
17516         }%
17517     }%
17518     \global\LT@p@ftn\expandafter{%
17519         \@tempa{#1}%
17520     \endgroup
17521 }%
17522 }%
17523 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17524     \HRTL@RTLfootnotetext{%
17525         \ifHy@nesting
17526             \hyper@@anchor{#1}{#2}%
17527         \else
17528             \Hy@raisedlink{%
17529                 \hyper@@anchor{#1}{\relax}%
17530             }%
17531             \def\@currentHref{#1}%
17532             \let\@currentlabelname\@empty
17533             #2%
17534         \fi
17535     }%
17536 }%
17537 }%
17538 \ApplyPatchCodeToPackage{bidipoem}{%
17539 \long\def\bidipoem@p@ftntext#1{%
17540     \edef\@tempx{%
17541         \the\bidipoem@p@ftn
17542     \begingroup
17543         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17544         \noexpand\protected@xdef\noexpand\@thefnmark{%
17545             \noexpand\thempfn
17546         }%
17547         \noexpand\Hy@bidipoem@footnotetext{%
17548             \Hy@footnote@currentHref
17549         }%
17550     }%
17551     \global\bidipoem@p@ftn\expandafter{%
17552         \@tempx{#1}%
17553     \endgroup
17554 }%
17555 }%
17556 \long\def\Hy@bidipoem@footnotetext#1#2{%
17557     \H@@footnotetext{%
17558         \ifHy@nesting
17559             \hyper@@anchor{#1}{#2}%
17560         \else
17561             \Hy@raisedlink{%
17562                 \hyper@@anchor{#1}{\relax}%
17563             }%
17564             \def\@currentHref{#1}%
17565             \let\@currentlabelname\@empty
17566             #2%

```




```

17567     \fi
17568   }%
17569 }%
17570   \long\def\bidipoem@p@LTRftntext#1{%
17571 \edef\@tempxi{%
17572   \the\bidipoem@p@ftn
17573   \begingroup
17574     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17575     \noexpand\protected@xdef\noexpand\@thefnmark{%
17576       \noexpand\thempfn
17577     }%
17578     \noexpand\Hy@bidipoem@LTRfootnotetext{%
17579       \Hy@footnote@currentHref
17580     }%
17581   }%
17582   \global\bidipoem@p@ftn\expandafter{%
17583     \@tempxi{#1}%
17584   \endgroup
17585   }%
17586 }%
17587 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17588   \HLTR@@LTRfootnotetext{%
17589     \ifHy@nesting
17590       \hyper@@anchor{#1}{#2}%
17591     \else
17592       \Hy@raisedlink{%
17593         \hyper@@anchor{#1}{\relax}%
17594       }%
17595       \def\@currentHref{#1}%
17596       \let\@currentlabelname\@empty
17597       #2%
17598     \fi
17599   }%
17600 }%
17601   \long\def\bidipoem@p@RTLftntext#1{%
17602 \edef\@tempxii{%
17603   \the\bidipoem@p@ftn
17604   \begingroup
17605     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17606     \noexpand\protected@xdef\noexpand\@thefnmark{%
17607       \noexpand\thempfn
17608     }%
17609     \noexpand\Hy@bidipoem@RTLfootnotetext{%
17610       \Hy@footnote@currentHref
17611     }%
17612   }%
17613   \global\bidipoem@p@ftn\expandafter{%
17614     \@tempxii{#1}%
17615   \endgroup
17616   }%
17617 }%
17618 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17619   \HRTL@@RTLfootnotetext{%
17620     \ifHy@nesting

```



```

17621         \hyper@@anchor{#1}{#2}%
17622     \else
17623         \Hy@raisedlink{%
17624             \hyper@@anchor{#1}{\relax}%
17625         }%
17626         \def\@currentHref{#1}%
17627         \let\@currentlabelname\@empty
17628         #2%
17629     \fi
17630 }%
17631 }%
17632 }%
17633 \let\HyOrg@maketitle\maketitle
17634 \def\maketitle{%
17635     \let\Hy@saved@footnotemark\@footnotemark
17636     \let\Hy@saved@footnotetext\@footnotetext
17637     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17638     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17639     \let\@footnotemark\H@@footnotemark
17640     \let\@footnotetext\H@@footnotetext
17641     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17642     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17643     \@ifnextchar[\Hy@maketitle@optarg{% ]
17644         \HyOrg@maketitle
17645         \Hy@maketitle@end
17646     }%
17647 }%
17648 \def\Hy@maketitle@optarg[#1]{%
17649     \HyOrg@maketitle[#{#1}]%
17650     \Hy@maketitle@end
17651 }%
17652 \def\Hy@maketitle@end{%
17653     \ifx\@footnotemark\H@@footnotemark
17654         \let\@footnotemark\Hy@saved@footnotemark
17655     \fi
17656     \ifx\@footnotetext\H@@footnotetext
17657         \let\@footnotetext\Hy@saved@footnotetext
17658     \fi
17659     \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
17660         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17661     \fi
17662     \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
17663         \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17664     \fi
17665 }%
17666 \def\realfootnote{%
17667     \@ifnextchar[\@xfootnote{%
17668         \stepcounter{\@mpfn}%
17669         \protected@xdef\@thefnmark{\thempfn}%
17670         \H@@@footnotemark\H@@footnotetext
17671     }%
17672 }%
17673 \fi
17674 \def\Hy@BeginAnnot#1{%

```



```

17675 \ifmmode\else\beginL\fi%
17676 \global\advance\c@Hy@AnnotLevel\@ne
17677 \ifnum\c@Hy@AnnotLevel=\@ne
17678   #1%
17679 \fi
17680 }
17681 \def\Hy@endAnnot{%
17682   \ifnum\c@Hy@AnnotLevel=\@ne
17683     \Hy@endcolorlink
17684     \@pdfm@mark{eann}%
17685   \fi
17686   \global\advance\c@Hy@AnnotLevel\m@ne
17687   \ifmmode\else\endL\fi%
17688 }
17689 \def\hyper@link#1#2#3{%
17690   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
17691 }
17692 \def\hyper@linkfile#1#2#3{%
17693   \leavevmode
17694   \Hy@BeginAnnot{%
17695     \def\Hy@pstringF{#2}%
17696     \Hy@CleanupFile\Hy@pstringF
17697     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17698     \Hy@pstringdef\Hy@pstringD{#3}%
17699     \Hy@MakeRemoteAction
17700     \@pdfm@mark{%
17701       bann<<%
17702       /Type/Annot%
17703       /Subtype/Link%
17704       \ifHy@pdfa /F 4\fi
17705       \Hy@setpdfborder
17706       \ifx\@filebordercolor\relax
17707       \else
17708         /C[\@filebordercolor]%
17709       \fi
17710       /A<<%
17711       /S/GoToR%
17712       /F(\Hy@pstringF)%
17713       /D%
17714       \ifx\@#3\%
17715         [\Hy@href@page\@pdfremotestartview]%
17716       \else
17717         (\Hy@pstringD)%
17718       \fi
17719       \Hy@SetNewWindow
17720       \Hy@href@nextactionraw
17721       >>%
17722     >>%
17723   }%
17724   \Hy@colorlink\@filecolor
17725 }%
17726 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17727 \Hy@endAnnot
17728 }

```



```

17729 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
17730   \leavevmode
17731   \Hy@BeginAnnot{%
17732     \Hy@pstringdef\Hy@pstringF{#1}%
17733     \Hy@pstringdef\Hy@pstringP{#3}%
17734     \@pdfm@mark{%
17735       bann<<%
17736         /Type/Annot%
17737         /Subtype/Link%
17738         \ifHy@pdfa /F 4\fi
17739         \Hy@setpdfborder
17740         \ifx\@runbordercolor\relax
17741           \else
17742             /C[\@runbordercolor]%
17743           \fi
17744         /A<<%
17745         /F(\Hy@pstringF)%
17746         /S/Launch%
17747         \Hy@SetNewWindow
17748         \ifx\#3\%
17749           \else
17750             /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17751           \fi
17752         \Hy@href@nextactionraw
17753       >>%
17754     >>%
17755   }%
17756   \Hy@colorlink\@runcolor
17757 }%
17758 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17759 \Hy@EndAnnot
17760 }
17761 \def\hyper@linkurl#1#2{%
17762   \leavevmode
17763   \Hy@BeginAnnot{%
17764     \Hy@pstringdef\Hy@pstringURI{#2}%
17765     \@pdfm@mark{%
17766       bann<<%
17767         /Type/Annot%
17768         /Subtype/Link%
17769         \ifHy@pdfa /F 4\fi
17770         \Hy@setpdfborder
17771         \ifx\@urlbordercolor\relax
17772           \else
17773             /C[\@urlbordercolor]%
17774           \fi
17775         /A<<%
17776         /S/URI%
17777         /URI(\Hy@pstringURI)%
17778         \ifHy@href@ismap
17779           /IsMap true%
17780         \fi
17781         \Hy@href@nextactionraw
17782       >>%

```



```

17783     >>%
17784   }%
17785   \Hy@colorlink\@urlcolor
17786 }%
17787 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17788 \Hy@EndAnnot
17789 }
17790 \def\Acrobatmenu#1#2{%
17791   \Hy@Acrobatmenu{#1}{#2}{%
17792     \Hy@BeginAnnot{%
17793       \EdefEscapeName\Hy@temp@menu{#1}%
17794       \@pdfm@mark{%
17795         bann<<%
17796           /Type/Annot%
17797           /Subtype/Link%
17798           \ifHy@pdfa /F 4\fi
17799           \Hy@setpdfborder
17800           \ifx\@menubordercolor\relax
17801             \else
17802               /C[\@menubordercolor]%
17803             \fi
17804           /A<<%
17805           /S/Named%
17806           /N/\Hy@temp@menu
17807           \Hy@href@nextactionraw
17808         >>%
17809       >>%
17810     }%
17811     \Hy@colorlink\@menucolor
17812   }%
17813   \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17814   \Hy@EndAnnot
17815 }%
17816 }
17817 \def\hyper@natlinkstart#1{%
17818   \Hy@backout{#1}%
17819   \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17820   \def\hyper@nat@current{#1}%
17821 }
17822 \def\hyper@natlinkend{%
17823   \if@RTL\endR\fi\hyper@linkend
17824 }
17825 \def\hyper@natlinkbreak#1#2{%
17826   \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17827 }%
17828 }
17829 \pdfstringdefDisableCommands{%
17830 \let\RE\@firstofone
17831 \let\LR\@firstofone
17832 \let\RLE\@firstofone
17833 \let\RL\@firstofone
17834 \def\XeTeX{XeTeX}%
17835 \def\XeLaTeX{XeLaTeX}%
17836 }

```



```

17837 \bidi@patchcmd\@TextField{%
17838 \@pdfm@mark
17839 }{%
17840 \if@RTL
17841 \hskip\Fld@width
17842 \fi
17843 \@pdfm@mark
17844 }{}{}
17845 \bidi@patchcmd\@TextField{%
17846 \unhbox
17847 }{%
17848 \if@RTL
17849 \hskip-\Fld@width
17850 \fi
17851 \unhbox
17852 }{}{}
17853 \bidi@patchcmd\@@Radio{%
17854 \@pdfm@mark
17855 }{%
17856 \if@RTL
17857 \hskip\Fld@width
17858 \fi
17859 \@pdfm@mark
17860 }{}{}
17861 \bidi@patchcmd\@@Radio{%
17862 \unhcopy
17863 }{%
17864 \if@RTL
17865 \hskip-\Fld@width
17866 \fi
17867 \unhcopy
17868 }{}{}
17869 \bidi@patchcmd\@Submit{%
17870 \@pdfm@mark
17871 }{%
17872 \if@RTL
17873 \null
17874 \hskip\wd\pdfm@box
17875 \fi
17876 \@pdfm@mark
17877 }{}{}
17878 \bidi@patchcmd\@Submit{%
17879 \unhbox
17880 }{%
17881 \if@RTL
17882 \hskip-\wd\pdfm@box
17883 \fi
17884 \unhbox
17885 }{}{}
17886 \bidi@patchcmd\@Reset{%
17887 \@pdfm@mark
17888 }{%
17889 \if@RTL
17890 \null

```



```

17891 \hskip\wd\pdfm@box
17892 \fi
17893 \@pdfm@mark
17894 }{}{}
17895 \bidi@patchcmd\@Reset{%
17896 \unhbox
17897 }{%
17898 \if@RTL
17899 \hskip-\wd\pdfm@box
17900 \fi
17901 \unhbox
17902 }{}{}

```

104 File imspdoc-xetex-bidi.def

```

17903 \ProvidesFile{imspdoc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspdoc class for
17904 \newenvironment{thebibliography}[1]{%
17905 \@bibtitlestyle
17906 \normalfont\bibliofont\labelsep .5em\relax
17907 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\empty
17908 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17909 \bidi@@thebibliography@font@hook
17910 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
17911 \leftmargin\labelwidth \advance\leftmargin\labelsep
17912 \usecounter{enumiv}}%
17913 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17914 \sfcode`\.=\@m
17915 }{%
17916 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17917 \endlist
17918 }
17919
17920 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
17921 \columnseprule\z@ \columnsep 35\p@
17922 \@indextitlestyle
17923 \thispagestyle{plain}%
17924 \let\item\@idxitem
17925 \parindent\z@ \parskip\z@\@plus.3\p@\relax
17926 \if@RTL\raggedleft\else\raggedright\fi
17927 \hyphenpenalty\@M
17928 \footnotesize}
17929 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
17930 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
17931 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
17932
17933 \def\right@footnoterule{%
17934 \kern-.4\p@
17935 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17936 \kern11\p@\kern-\footnotesep}
17937 \def\left@footnoterule{\kern-.4\p@
17938 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17939 \def\@makefnmark{%
17940 \leavevmode
17941 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%

```



```

17942 }
17943
17944 \def\part{\@startsection{part}{0}%
17945   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
17946   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
17947 \def\@tocline#1#2#3#4#5#6#7{\relax
17948   \ifnum #1>\c@tocdepth % then omit
17949   \else
17950     \par \addpenalty\@secpenalty\addvspace{#2}%
17951     \begingroup \hyphenpenalty\@M
17952     \@ifempty{#4}{%
17953       \@tempdima\c@tocindent\number#1\endcsname\relax
17954     }{%
17955       \@tempdima#4\relax
17956     }%
17957     \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi#4\relax
17958     \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
17959     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17960     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17961     \nobreak
17962   \endgroup
17963   \fi}
17964 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
17965 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17966 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
17967 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17968 \def\maketitle{\par
17969   \@topnum\z@ % this prevents figures from falling at the top of page 1
17970   \@setcopyright
17971   \thispagestyle{firstpage}% this sets first page specifications
17972   \uppercase\nonmath\shorttitle
17973   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17974   \else \andify\shortauthors
17975   \fi
17976   \@maketitle@hook
17977   \begingroup
17978   \@maketitle
17979   \toks@{\exp\shortauthors}\@temptokena{\exp\shorttitle}%
17980   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
17981   \edef\@tempa{%
17982     \nx\markboth{\the\toks4
17983       \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
17984   \@tempa
17985   \endgroup
17986   \c@footnote\z@
17987   \cleartopmattertags
17988 }

```

105 File leqno-xetex-bidi.def

```

17989 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
17990 \renewcommand\@eqnnum{\hbxt@.01\p@{}}%
17991   \rlap{\hskip -\displaywidth
17992     {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}

```



106 File letter-xetex-bidi.def

```
17993 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter cl
17994 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
17995   \thispagestyle{firstpage}%
17996   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
17997 \else % home address
17998   \thispagestyle{empty}%
17999   {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
18000     \fromaddress \*[2\parskip]%
18001     \@date \end{tabular}\par}%
18002 \fi
18003 \vspace{2\parskip}%
18004 {\if@RTL\raggedleft\else\raggedright\fi \toname \\\ toaddress \par}%
18005 \vspace{2\parskip}%
18006 #1\par\nobreak}
18007 \renewcommand\left@footnoterule{%
18008   \kern-\p@
18009   \hrule \@width .4\columnwidth
18010   \kern .6\p@}
18011 \renewcommand\right@footnoterule{%
18012   \kern-\p@
18013   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18014   \kern .6\p@}
```

107 File lettrine-xetex-bidi.def

```
18015 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package
18016 \RemoveFromHook{begindocument}[lettrine]
18017 \AtBeginDocument[lettrine]{%
18018   \if\DefaultOptionsFile\relax
18019   \else
18020     \InputIfFileExists{\DefaultOptionsFile}%
18021     {}%
18022     {\PackageWarning{lettrine.sty}%
18023       {File \DefaultOptionsFile\space not found}%
18024     }%
18025   \fi
18026   \let\ifL@RTL\if@RTL
18027 }
```

108 File lineno-xetex-bidi.def

```
18028 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for
18029 \bidi@patchcmd{\MakeLineNo}{%
18030   \hb@xt@\z@{\makeLineNumber}%
18031 }{%
18032   \hboxL to \z@{\makeLineNumber}%
18033 }{}{}
18034
18035 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
18036   \if@RTL
18037     \hb@xt@\linenumberwidth{\LineNumber\hss}%
18038   \else
```



```

18039     \LineNumber
18040     \fi
18041 }{}{}
18042
18043 \bidi@patchcmd{\makeLineNumberRight}{%
18044     \hb@xt@\linenumberwidth{\hss\LineNumber}%
18045 }{%
18046     \if@RTL
18047         \LineNumber
18048     \else
18049         \hb@xt@\linenumberwidth{\hss\LineNumber}%
18050     \fi
18051 }{}{}
18052
18053 \bidi@AfterPreamble{%
18054     \if@RTLmain
18055         \rightlinenumbers*
18056     \else
18057         \leftlinenumbers*
18058     \fi
18059     \@ifpackagewith{lineno}{left}{%
18060         \leftlinenumbers*
18061     }{}
18062     \@ifpackagewith{lineno}{right}{%
18063         \rightlinenumbers*
18064     }{}
18065     \@ifpackagewith{lineno}{switch}{%
18066         \if@RTLmain
18067             \switchlinenumbers*%
18068         \else
18069             \switchlinenumbers
18070         \fi
18071     }{}
18072     \@ifpackagewith{lineno}{switch*}{%
18073         \if@RTLmain
18074             \switchlinenumbers
18075         \else
18076             \switchlinenumbers*%
18077         \fi
18078     }{}
18079 }
18080

```

109 File listings-xetex-bidi.def

```

18081 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
18082 \lst@Key{captiondirection}{textdirection}{%
18083     \lstKV@SwitchCases{#1}%
18084     {textdirection:\\%
18085         RTL:\chardef\bidi@lst@caption@direction\@ne\\%
18086         LTR:\chardef\bidi@lst@caption@direction\z}%
18087     }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18088
18089 \lst@Key{captionscript}{textscript}{%

```



```

18090 \lstKV@SwitchCases{#1}%
18091 {textscript:\\%
18092 latin:\chardef\bidi@lst@caption@script\@ne\\%
18093 nonlatin:\chardef\bidi@lst@caption@script\z@%
18094 }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18095
18096 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
18097 \@ifundefined{bidi@lst@caption@direction}{}{%
18098 \ifnum\bidi@lst@caption@direction=\z@%
18099 #1%
18100 \else%
18101 \ifnum\bidi@lst@caption@direction=\@ne%
18102 #2%
18103 \fi%
18104 \fi%
18105 }}
18106
18107 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
18108 \@ifundefined{bidi@lst@caption@script}{}{%
18109 \ifnum\bidi@lst@caption@script=\z@%
18110 #1%
18111 \else%
18112 \ifnum\bidi@lst@caption@script=\@ne%
18113 #2%
18114 \fi%
18115 \fi%
18116 }}
18117
18118 \long\def\@bidi@lst@makecaption#1#2{%
18119 \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18120 \vskip\abovcaptionskip
18121 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18122 \sbox\@tempboxa{%
18123 \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
18124 #1: #2%
18125 \bidi@lst@ensure@caption@direction{\endL}{\endR}%
18126 }%
18127 \ifdim \wd\@tempboxa >\hsize
18128 #1: #2\par
18129 \else
18130 \global \@minipagefalse
18131 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18132 \fi
18133 \vskip\belowcaptionskip}%
18134 \def\lst@makecaption{\@bidi@lst@makecaption}
18135 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
18136 \bidi@AtEndPreamble{%
18137 \bidi@patchcmd{\lst@MakeCaption}{%
18138 \ifx #1t%
18139 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18140 \expandafter\refstepcounter
18141 \fi \lstlisting}%
18142 }{%
18143 \ifx #1t%

```



```

18144      \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18145      \ifx\lst@caption\empty\expandafter\lst@HRefStepCounter \else
18146      \expandafter\refstepcounter
18147      \fi {lstlisting}%
18148      \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18149    }{}{}%
18150    \bidi@patchcmd{\lst@MakeCaption}{%
18151      \addcontentsline{lol}{lstlisting}%
18152      {\protect\numberline{\thelstlisting}\lst@caption}%
18153    }{}%
18154    \begingroup%
18155      \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18156      \addcontentsline{lol}{lstlisting}%
18157      {\protect\numberline{\thelstlisting}\lst@caption}%
18158    \endgroup%
18159  }{}{}%
18160 }
18161 \ApplyPatchIfPackageLoaded{caption}{%
18162   \AtBeginCaption{%
18163     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18164     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18165   }
18166   \let\@bidi@lst@makecaption\caption@makecaption%
18167   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
18168   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\empty}%
18169 }{}%
18170 \AtBeginDocument{%
18171   \@ifundefined{captionlabelfalse}{}{}%
18172   \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\empty}}%
18173   \@ifundefined{caption@startrue}{}{}%
18174   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\empty}}%
18175 }{}%
18176 }
18177 \AtBeginDocument{
18178   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
18179   \lst@ifnumberbychapter
18180     \gdef\thelstlisting%
18181     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18182   \else
18183     \gdef\thelstlisting{\@arabic\c@lstlisting}
18184   \fi}

```

110 File longtable-xetex-bidi.def

```

18185 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
18186 \ExplSyntaxOn
18187 \def\LT@array[#1]#2{%
18188   \UseTaggingSocket{tbl/init}
18189   \tl_if_empty:eTF { \LTcaptive }
18190   {
18191     \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
18192   }
18193   {
18194     \@kernel@refstepcounter{\LTcaptive}\stepcounter{LT@tables}

```



```

18195     \tl_gset:Ne \@currentHref {\LTcapytype.\cs_if_exist_use:c {theH\LTcapytype}}
18196   }
18197   \tbl_gzero_row_count:
18198   \UseTaggingSocket{tbl/longtable/init}
18199   \if l#1%
18200     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
18201   \else\if r#1%
18202     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
18203   \else\if c#1%
18204     \LTleft\fill \LTright\fill
18205   \fi\fi\fi
18206   \let\LT@mcot\multicolumn
18207   \let\LT@@tabarray\@tabarray
18208   \let\LT@@hl\hline
18209   \def\@tabarray{%
18210     \let\hline\LT@@hl
18211     \LT@@tabarray}%
18212   \let\\LT@tabularcr
18213   \let\tabularnewline\\
18214   \def\newpage{\noalign{\break}}%
18215   \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18216   \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
18217   \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
18218   \@tempdima\ht\strutbox
18219   \let\@endpbox\LT@endpbox
18220   \ifx\extrarowheight\@undefined
18221     \let\@acol\@tabacol
18222     \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18223     \def\@startpbox{\vtop\LT@startpbox}%
18224     \let\@@startpbox\@startpbox
18225     \let\@@endpbox\@endpbox
18226     \let\LT@LL@FM@cr\@tabularcr
18227   \else
18228     \advance\@tempdima\extrarowheight
18229     \col@sep\tabcolsep
18230     \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18231   \fi
18232   \setbox\@arstrutbox\hbox{\vrule
18233     \@height \arraystretch \@tempdima
18234     \@depth \arraystretch \dp \strutbox
18235     \@width \z@}%
18236   \let\@sharp##\let\protect\relax
18237   \begingroup
18238   \@mkpream{#2}%
18239   \tbl_count_table_cols:
18240   \xdef\LT@bchunk{%
18241     \tbl_inbetween_rows:
18242     \global\advance\c@LT@chunks\@ne
18243     \global\LT@rows\z@\setbox\z@\vbox\bgroup
18244     \LT@setprevdepth
18245     \tabskip\LTleft \noexpand\halign to\hsize\bgroup
18246     \tabskip\z@ \@arstrut
18247     \UseTaggingSocket{tbl/row/begin}%
18248     \tbl_init_cell_data_for_row:

```



```

18249      \@preamble \tabskip\LTright \cr}%
18250 \endgroup
18251 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18252 \LT@make@row
18253 \m@th\let\par\@empty
18254 \everycr{%
18255   \noalign{%
18256     \tbl_trace:n {--longtable-->~chunk~row:~ \the\LT@rows \space
18257               row:~ \the\g__tbl_row_int \space
18258               column:~ \the\g__tbl_col_int
18259   }
18260   \tbl_if_row_was_started:T
18261   {
18262     \UseTaggingSocket{tbl/row/end}
18263     \tbl_inbetween_rows:
18264   }
18265   \int_compare:nNt \LT@rows < \LTchunksize
18266   { \tbl_gincr_row_count: } % next is row about to start
18267 }%
18268 }%
18269 \lineskip\z@\baselineskip\z@
18270 \LT@bchunk}
18271 \ExplSyntaxOff
18272 \def\LT@makecaption#1#2#3{%
18273   \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
18274     \reset@font
18275     \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
18276     \ifdim\wd\@tempboxa>\hsize
18277       #1{#2: }#3%
18278     \else
18279       \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18280     \fi
18281     \endgraf\vskip\baselineskip}%
18282   \hss}}}%
18283 \ApplyPatchCodeToPackage{caption}{%
18284   \renewcommand\LT@makecaption[3]{%
18285     \caption@LT@make{%
18286       \caption@LT@settype\LTcaptype
18287       \caption@LT@setup
18288       \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18289       \caption@startrue#1\caption@starfalse
18290       \caption@prepare@stepcounter\LTcaptype
18291       \caption@begin\LTcaptype
18292       \caption@normalsize
18293       \vskip-\ht\strutbox
18294       \caption@ifdefined\FBifcapttop{%
18295         \let\caption@belowskip\@empty}{}%
18296       \caption@make@above
18297       \caption@@make{#2}{#3}\endgraf
18298       \caption@make@below
18299       \caption@end}}}%
18300 }
18301 \def\LT@startpbox#1{%
18302   \bgroup

```



```

18303 \color@begingroup
18304 \let\@footnotetext\LT@p@ftntext
18305 \let\@LTRfootnotetext\LT@p@LTRftntext
18306 \let\@RTLfootnotetext\LT@p@RTLftntext
18307 \setlength\hsize{#1}%
18308 \@arrayparboxrestore
18309 \everypar{%
18310 \vrule \@height \ht\@arstrutbox \@width \z@
18311 \everypar{}}%
18312 }
18313 \long\def\LT@p@LTRftntext#1{%
18314 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
18315 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18316 \long\def\LT@p@RTLftntext#1{%
18317 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
18318 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18319 \def\LT@output{%
18320 \ifnum\outputpenalty <-\@Mi
18321 \ifnum\outputpenalty > -\LT@end@pen
18322 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18323 \else
18324 \setbox\z@\vbox{\unvbox\@cclv}%
18325 \ifdim \ht\LT@lastfoot>\ht\LT@foot
18326 \dimen@ \pagegoal
18327 \advance\dimen@\ht\LT@foot
18328 \advance\dimen@-\ht\LT@lastfoot
18329 \ifdim\dimen@<\ht\z@
18330 \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
18331 \@makecol
18332 \@outputpage
18333 \global\vsizel\@colroom
18334 \setbox\z@\vbox{\box\LT@head}%
18335 \fi
18336 \fi
18337 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18338 \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
18339 \UseTaggingSocket{tbl/longtable/foot}
18340 \if@RTLtab\egroup\endR\egroup\fi
18341 \fi
18342 \else
18343 \setbox\@cclv\vbox{%
18344 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18345 \unvbox\@cclv\copy\LT@foot\vss
18346 \if@RTLtab\egroup\endR\egroup\fi
18347 }%
18348 \UseTaggingSocket{tbl/longtable/foot}
18349 \@makecol
18350 \@outputpage
18351 \global\vsizel\@colroom
18352 \copy\LT@head\nobreak
18353 \fi}

```

111 File lscape-xetex-bidi.def



```

18354 \ProvidesFile{lscape-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscape package for
18355 \RequirePackage{graphicx}
18356 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
18357   \if@RTL
18358     \rotatebox[origin=br]{-90}{\box\@outputbox}%
18359   \else
18360     \rotatebox{90}{\box\@outputbox}%
18361   \fi
18362 }{}{}
18363
18364 \g@addto@macro{\landscape}{%
18365   \if@bidi@csdef{bidi@columnwidth}{%
18366     \bidi@columnwidth\columnwidth
18367   }{}%
18368   \let\bidi@left@footnoterule\left@footnoterule
18369   \let\bidi@right@footnoterule\right@footnoterule
18370   \def\left@footnoterule{%
18371     \if@RTL
18372       \bidi@right@footnoterule
18373     \else
18374       \bidi@left@footnoterule
18375     \fi
18376   }%
18377   \def\right@footnoterule{%
18378     \if@RTL
18379       \bidi@left@footnoterule
18380     \else
18381       \bidi@right@footnoterule
18382     \fi
18383   }%
18384 }

```

112 File mathtools-xetex-bidi.def

```

18385 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
18386 \RequirePackage{graphicx}
18387 \MHInternalSyntaxOn
18388 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18389   \@namedef{MT_tagform_#1:n}##1
18390   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern#4\ignorespaces#2{##1}\unskip\@italiccorr#4}
18391 }
18392 \renewtagform{default}{({})}
18393 \MHInternalSyntaxOff

```

113 File mdframed-xetex-bidi.def

```

18394 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
18395 \newif\if@bidi@mdf@RTL
18396 \def\mdf@lrbox#1{%
18397   \mdf@patchamsthm%patch amsthm
18398   \if@RTL\@bidi@mdf@RTLtrue\fi%
18399   \@RTLfalse%
18400   \setbox#1\ vbox\bgroup%
18401   \color@begingroup%

```




```

18402 \if@bidi@mdf@RTL\@RTLtrue\fi%
18403 \mdf@horizontalmargin@equation%
18404 \columnwidth=\hsize%
18405 \textwidth=\hsize%
18406 \let\if@nobreak\iffalse%
18407 \let\if@noskipsec\iffalse%
18408 \let\par\@par%
18409 \let\-\@dischyph%
18410 \let'\@acci\let'\@accii\let\=\@acciii%
18411 \parindent\z@ \parskip\z@skip%
18412 \linewidth\hsize%
18413 \@totalleftmargin\z@%
18414 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18415 \parfillskip\@flushglue \lineskip\normallineskip%
18416 \baselineskip\normalbaselineskip%
18417 %% \sloppy%
18418 \let\\\@normalcr%
18419 \mdf@par@local%New feature to restore parskip/parindent local in save box
18420 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18421 \@afterindentfalse%
18422 %\@afterheading%
18423 }
18424 \renewrobustcmd\mdfframedtitleenv[1]{%
18425 \mdf@lrbox{\mdf@frametitlebox}%
18426 \mdf@frametitlealignment%
18427 \leavevmode{\color{\mdf@frametitlefontcolor}%
18428 \normalfont\mdf@frametitlefont{#1}
18429 \ifbool{mdf@ignorelastdescenders}%
18430 {%
18431 \par\strut\par
18432 \unskip\unskip\setbox0=\lastbox
18433 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
18434 }{}}%
18435 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
18436 \endmdf@lrbox\relax%
18437 \mdf@ignorevbadness%
18438 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18439 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18440 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18441 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18442 \mdfframetitleboxtotalheight=\dimexpr
18443 \ht\mdf@frametitlebox
18444 +\dp\mdf@frametitlebox%
18445 +\mdf@frametitleaboveskip@length
18446 +\mdf@frametitlebelowskip@length
18447 \relax%
18448 }
18449
18450 \renewrobustcmd*\mdf@footnoteoutput{%
18451 \ifvoid\@mpfootins\else%
18452 \nobreak%
18453 \vskip\mdf@footnotedistance@length%
18454 \normalcolor%
18455 \bidi@mpfootnoterule%

```



```

18456         \unvbox\@mpfootins%
18457     \fi%
18458 }
18459
18460
18461 \renewrobustcmd*\mdf@footnoteinput{%
18462     \def\@mpfn{mpfootnote}%
18463     \def\thempfn{\thempfootnote}%
18464     \c@mpfootnote\z@%
18465     \let\@footnotetext\@mpfootnotetext%
18466     \let\@LTRfootnotetext\@mpLTRfootnotetext%
18467     \let\@RTLfootnotetext\@mpRTLfootnotetext%
18468 }

```

114 File media9-xetex-bidi.def

```

18469 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
18470 \RequirePackage{bidi-media9}

```

115 File bidi-media9.sty

```

18471 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
18472 {bidi fixes for media9 package for the XeTeX engine}
18473
18474 \keys_define:nn{media9/mbtn}{
18475     draft .code:n = {},
18476     final .code:n = {},
18477
18478     tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
18479     tooltip .value_required:n = {true},
18480
18481     overface .code:n = {
18482         \sbox\l_mix_poster_box{
18483             \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18484             \mix_pdfxform:n{\l_mix_poster_box}
18485             \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
18486         },
18487         overface .value_required:n = {true},
18488
18489     downface .code:n = {
18490         \sbox\l_mix_poster_box{
18491             \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18492             \mix_pdfxform:n{\l_mix_poster_box}
18493             \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
18494         },
18495         downface .value_required:n = {true},
18496
18497     3Dgotoview .code:n = {
18498         \tl_set:Nx\l_tmpa_tl{#1} %extract ref
18499         \regex_replace_once:nnN{([~:])+}??.*}{\1}\l_tmpa_tl
18500         \tl_trim_spaces:N\l_tmpa_tl
18501         \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18502             \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18503                 \tl_set:Nx\l_tmpb_tl{#1} %extract idx

```



```

18504 \regex_replace_once:nnN{[^\:]+\:}{\l_tmpb_tl
18505 \tl_trim_spaces:N\l_tmpb_tl
18506 \tl_if_blank:VF\l_tmpb_tl{
18507 \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
18508 \tl_set:Nx\l_mix_vidx_tl{/ \l_tmpb_tl}
18509 }{
18510 \regex_match:nVTF{^\d+$}\l_tmpb_tl{
18511 \tl_set:Nx\l_mix_vidx_tl{~ \l_tmpb_tl}
18512 }{
18513 \regex_replace_once:nnN{^\(s*\)}\l_tmpb_tl
18514 \regex_replace_once:nnN{(s*)$}\l_tmpb_tl
18515 \tl_set:Nx\l_mix_vidx_tl{~ (\l_tmpb_tl)}
18516 }
18517 }
18518 }
18519 \mix_pdfobj:nnn{}{dict}{
18520 /S/JavaScript/JS~(
18521 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18522 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18523 annotRM['\l_tmpa_tl']=
18524 this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18525 }
18526 annotRM['\l_tmpa_tl'].activated=true;
18527 )
18528 \tl_if_blank:VF\l_tmpb_tl{
18529 /Next~<<
18530 /S/GoTo3DView
18531 /TA~\tl_use:c{ann@\l_tmpa_tl}
18532 /V\l_mix_vidx_tl
18533 >>
18534 }
18535 }
18536 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18537 }
18538 }{
18539 \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18540 \cs_if_exist:NF\g_mix_refundefwarned_tl{
18541 \tl_new:N\g_mix_refundefwarned_tl
18542 \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18543 }
18544 }
18545 },
18546 3Dgotoview .value_required:n = {true},
18547
18548 mediacommand .code:n = {
18549 \tl_set:Nx\l_tmpa_tl{#1}
18550 \regex_replace_once:nnN{([^\:]+\:)?\:}{\1}\l_tmpa_tl %extract ref
18551 \tl_trim_spaces:N\l_tmpa_tl
18552 \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18553 \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18554 \tl_set:Nx\l_tmpb_tl{#1}
18555 \regex_replace_once:nnN{[^\:]+\:}{\l_tmpb_tl}
18556 \tl_trim_spaces:N\l_tmpb_tl
18557 \regex_replace_all:nnN{^\(|\|}$}{\l_tmpb_tl}

```



```

18558 \tl_set:Nx\l_mix_cmd_tl{
18559   \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18560 \tl_trim_spaces:N\l_mix_cmd_tl
18561 \tl_set:Nx\l_mix_arg_tl{
18562   \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18563 \tl_trim_spaces:N\l_mix_arg_tl
18564 \mix_pdfobj:nnn{}{dict}{
18565   /S/JavaScript/JS~(
18566     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18567     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18568       annotRM['\l_tmpa_tl']=
18569         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18570     }
18571     annotRM['\l_tmpa_tl'].activated=true;
18572   )
18573 \tl_if_blank:VF\l_mix_cmd_tl{
18574   /Next~<<
18575   /S/RichMediaExecute
18576   /TA~\tl_use:c{ann@\l_tmpa_tl}
18577   /TI~\tl_use:c{main@\l_tmpa_tl}
18578   /CMD~<<
18579   /C~(\l_mix_cmd_tl)
18580   \tl_if_blank:VF\l_mix_arg_tl{
18581     /A~[\l_mix_arg_tl]
18582   }
18583   >>
18584   >>
18585 }
18586 }
18587 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18588 }
18589 }{
18590   \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18591   \cs_if_exist:NF\g_mix_refundefwarned_tl{
18592     \tl_new:N\g_mix_refundefwarned_tl
18593     \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18594   }
18595 }
18596 },
18597 mediacommand .value_required:n = {true},
18598
18599 jsaction .code:n = {
18600   \tl_set:Nx\l_tmpa_tl{#1}
18601   \regex_match:nVTF{^[^{}:]+:.*$}\l_tmpa_tl{
18602     \regex_replace_once:nnN{([^\:]+):??.*}{\1}\l_tmpa_tl %extract ref
18603   }{\tl_clear:N\l_tmpa_tl}
18604   \tl_set:Nx\l_tmpb_tl{#1}
18605   \tl_if_blank:VF\l_tmpa_tl{
18606     \tl_if_exist:cF{ann@\l_tmpa_tl}{
18607       \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18608       \cs_if_exist:NF\g_mix_refundefwarned_tl{
18609         \tl_new:N\g_mix_refundefwarned_tl
18610         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}

```



```

18612     }
18613   }
18614   \regex_replace_once:nnN{[^\:]+\:}{\l_tmpb_tl
18615 }
18616 \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18617 \tl_trim_spaces:N\l_tmpb_tl
18618 \tl_if_blank:VF\l_tmpb_tl{
18619 \mix_pdfobj:nnn{}{dict}}{
18620 /S/JavaScript/JS~(
18621   try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
18622 \bool_lazy_and:nnT{
18623   \tl_if_exist_p:c{ann@\l_tmpa_tl}
18624 }{
18625   !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18626 }{
18627   \mix_pdfobj:nnn{}{dict}{
18628     /S/JavaScript/JS~(
18629       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18630       if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18631         annotRM['\l_tmpa_tl']=
18632         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18633       }
18634       annotRM['\l_tmpa_tl'].activated=true;
18635     )
18636     \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
18637   }
18638 }
18639 \bool_if:nT{
18640   \bool_lazy_and_p:nn{
18641     \tl_if_exist_p:c{ann@\l_tmpa_tl}
18642   }{
18643     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18644   }
18645   || !\tl_if_blank_p:V\l_tmpb_tl
18646 }{
18647   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18648 }
18649 },
18650 jsaction .value_required:n = {true},
18651
18652 unknown .code:n = {
18653   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
18654 }
18655 }
18656
18657 \RenewDocumentCommand\includemedia{0{}mm}{%#1 options, #2 text/image #3 media file
18658 \mix_uriend:
18659 \group_begin:
18660 \mix_beginLTR:
18661 \mode_leave_vertical:
18662 %empty stream as appearance dummy
18663 \cs_if_exist:NF\g_mix_appearance_tl{
18664   \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}}
18665   \mix_pdfxform:n{\l_mix_poster_box}

```



```

18666 \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18667 }
18668 \mix_reset:
18669 \mix_uribegin: %treat URI characters correctly
18670 \keys_set:nn{media9/user}{#1}
18671 \mix_uriend:
18672 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
18673 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
18674 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
18675 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
18676 \tl_gtrim_spaces:N\g_mix_flashvars_tl
18677
18678 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18679
18680 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18681 %\hbox_set:Nn\l_mix_poster_box{#2}
18682 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18683 \mix_scale:n{\l_mix_poster_box}
18684 \bool_if:nTF{
18685   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18686   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18687 }{
18688   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18689 }
18690 \bool_if:NTF\g_mix_usrdraft_bool{
18691   \tl_if_empty:NF\g_mix_usrlabel_tl{
18692     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18693   }
18694   \tl_if_blank:oTF{#2}{
18695     \mix_uribegin: %treat URI characters correctly
18696     \mix_draftbox:n{\tl_to_str:n{#3}}
18697     \mix_uriend:
18698   }{
18699     \hbox_to_wd:nn{\g_mix_wd_tl}{
18700       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
18701       \box_use:N\l_mix_poster_box\hss
18702     }
18703   }
18704 }{
18705   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18706     %attach script that switches off play button overlay upon activation
18707     \mix_pdfobj:nnn{}{stream}{
18708       {}{
18709         var~ocgs=host.getOCGs(host.pageNum);
18710         for(var~i=0;i<ocgs.length;i++){
18711           if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
18712             ocgs[i].state=false;
18713           }
18714         }
18715       }
18716     }
18717     \mix_pdfobj:nnn{}{dict}{
18718       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18719     }

```



```

18720 \tl_gset:Nx\g_mix_assets_tl{(btnoff)-\mix_pdflastobj:}
18721 \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18722 %enforce plain playbutton overlay for XeTeX
18723 \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18724 }
18725 %embed main asset
18726 \mix_uribegin:
18727 \mix_embedasset:n{#3}
18728 \bool_if:nTF{
18729 \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18730 }{
18731 \bool_gset_true:N\g_mix_iiid_bool
18732 \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
18733 }{
18734 \str_case_e:nnF{\l_mix_base_tl}{
18735 {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18736 {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18737 {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18738 {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18739 {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18740 }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
18741 }
18742 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18743 \mix_uriend:
18744 %secondary assets (added by addresource)
18745 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18746 \seq_map_inline:Nn\g_mix_script_seq{
18747 \mix_embedasset:n{##1}
18748 \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
18749 }
18750 %attach 3D calculation script
18751 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
18752 \mix_embedasset:n{3Dmenu.js}
18753 \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18754 }
18755 %create 3D views from file (option 3Dviews)
18756 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18757 \tl_set:Nn\l_mix_level_tl{-1}
18758 \int_zero:N\l_mix_viewcnt_int
18759 \int_zero:N\l_mix_lineno_int
18760
18761 \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
18762 \ior_map_inline:Nn\l_mix_vfile_stream{
18763 \int_incr:N\l_mix_lineno_int
18764 \keys_set:nn{media9/views}{##1} %process input line
18765 }
18766 \ior_close:N\l_mix_vfile_stream
18767 }
18768 \bool_if:nT{ %create default 3D view if required
18769 \g_mix_iiid_bool &&
18770 (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
18771 }{
18772 \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
18773 \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl

```



```

18774 \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
18775 \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
18776 \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
18777 \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
18778 \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
18779
18780 \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
18781 \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
18782 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
18783 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
18784
18785 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
18786 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
18787 \tl_clear:N\l_mix_naarray_tl
18788
18789 \bool_if:NF\l_mix_ciiw_bool{
18790   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
18791   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
18792 }
18793
18794 \tl_clear:N\l_mix_naarray_tl
18795 \tl_clear:N\l_mix_saarray_tl
18796 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
18797
18798 \mix_view:n{Default}
18799 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
18800
18801 }
18802 \mix_pdfobj:nnn{}{dict}{
18803   /Type/RichMediaInstance
18804   /Subtype/\g_mix_mainassetsub_tl
18805   /Asset~\g_mix_mainasset_tl
18806   \bool_if:NF\g_mix_iiid_bool{
18807     /Params~<<
18808     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
18809       /Foreground
18810     }{
18811       /Background
18812     }
18813     \tl_if_blank:VF\g_mix_flashvars_tl{
18814       /FlashVars~(\g_mix_flashvars_tl)
18815     }
18816     >>
18817   }
18818 }
18819 \tl_if_empty:NF\g_mix_usrlabel_tl{
18820   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
18821 }
18822 \mix_pdfobj:nnn{}{dict}{
18823   /Type/RichMediaConfiguration
18824   /Subtype/\g_mix_mainassetsub_tl
18825   /Instances~[\mix_pdflastobj:]
18826 }
18827 \mix_pdfobj:nnn{}{dict}{

```




```

18828 /Type/RichMediaContent
18829 /Assets~<</Names~[\g_mix_assets_tl]>>
18830 /Configurations~[\mix_pdflastobj:]
18831 \bool_if:nT{
18832   \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
18833 }{
18834   /Views~[\l_mix_iiidviewarray_tl]
18835 }
18836 }
18837 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
18838 \bool_if:nT{
18839   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
18840 }{
18841   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
18842 }
18843 %determine floating window size
18844 \bool_if:NT\g_mix_opt_windowed_bool{
18845   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
18846 }
18847 \mix_pdfobj:nnn{}{dict}{
18848   /Activation~<<
18849   /Condition\g_mix_act_tl
18850   \bool_if:nT{
18851     \g_mix_iiid_bool &&
18852     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
18853   }{%seems to work only with 3D content
18854     /Animation~<<
18855     /Subtype/\g_mix_playtpe_tl
18856     /PlayCount~\g_mix_playcnt_tl
18857     /Speed~\g_mix_playspd_tl
18858     >>
18859   }
18860   \bool_if:nT{
18861     \g_mix_iiid_bool && (
18862       \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
18863     )
18864   }{/View~\l_mix_dfltview_tl}
18865   /Presentation~<<
18866   /Transparent~\g_mix_transp_tl
18867   \bool_if:NTF\g_mix_opt_windowed_bool{
18868     /Style/Windowed
18869     /Window~<<
18870     /Width~<</Default~\tl_mix_fltd>>
18871     /Height~<</Default~\tl_mix_fltht>>
18872     /Position~<<
18873     /HOffset~0/VOffset~0
18874     \str_case_e:nnF{\g_mix_winpos_tl}{
18875       {tl}{/VAlign/Near/HAlign/Near}
18876       {cl}{/VAlign/Center/HAlign/Near}
18877       {bl}{/VAlign/Far/HAlign/Near}
18878       {bc}{/VAlign/Far/HAlign/Center}
18879       {br}{/VAlign/Far/HAlign/Far}
18880       {cr}{/VAlign/Center/HAlign/Far}
18881       {tr}{/VAlign/Near/HAlign/Far}

```



```

18882         {tc}{/VAlign/Near/HAlign/Center}
18883     }{/HAlign/Center/VAlign/Center}
18884     >>
18885     >>
18886     }{
18887         /Style/Embedded
18888     }
18889     \bool_if:NTF\g_mix_iiid_bool{
18890         /Toolbar~\g_mix_tools_tl
18891         /NavigationPane~\g_mix_nav_tl
18892     }{
18893         /PassContextClick~\g_mix_contextclick_tl
18894     }
18895     >>
18896     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
18897     >>
18898     /Deactivation~<</Condition\g_mix_deact_tl>>
18899 }
18900 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
18901 \tl_if_empty:NF\g_mix_usrlabel_tl{
18902     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
18903 }
18904 % #1:width, #2:height, #3:depth, #4:content (key-value)
18905 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
18906     /Subtype/RichMedia
18907     /F~4
18908     /BS~<</W~0/S/S>>
18909     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
18910     /NM~(\g_mix_label_tl)
18911     /AP~<</N~\g_mix_appearance_tl>>
18912     /RichMediaSettings~\l_mix_settings_tl
18913     /RichMediaContent~\l_mix_content_tl
18914 }
18915 \tl_if_empty:NF\g_mix_usrlabel_tl{
18916     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
18917     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
18918         \noexpand\the\g@mix@page@int}
18919 }
18920 \mix_pdfobj:nnn{}{dict}{
18921     /S/JavaScript/JS~(
18922     try{
18923         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18924         if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
18925             annotRM['\g_mix_label_tl']=
18926                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
18927         }
18928         \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
18929             if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
18930                 var~ocgs=this.getOCGs(this.pageNum);
18931                 for(var~i=0;i<ocgs.length;i++){
18932                     if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18933                         var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
18934                     }
18935                 }

```



```

18936         }
18937         if(
18938             !annotRM['\g_mix_label_tl'].activated&&(
18939                 app.viewerType=='Reader' ||
18940                 app.viewerType=='Exchange' ||
18941                 app.viewerType=='Exchange-Pro'
18942             )&&app.viewerVersion>=9
18943         ){
18944             ocbBtn\int_use:N\g_mix_rmcnt_int.state=true;
18945         }
18946     }
18947 }catch(e){}
18948 this.dirty=false;
18949 )
18950 }
18951 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
18952     /Subtype/Widget
18953     /FT/Btn/Ff~65537/F~2
18954     /BS~<</W~0>>
18955     /T~(fd@ \g_mix_label_tl)
18956     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
18957 }
18958 \mix_appendtofields:n{\mix_pdflastann:}
18959 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
18960 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
18961     \hbox_to_wd:nn{\g_mix_wd_tl}{
18962         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
18963     }
18964 }{%insert play button overlay
18965     \mix_insert_btnocg: %create OCG
18966     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
18967     \group_begin:
18968     \cs_if_exist:NT\textdir{\textdir TLT}
18969     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
18970     \box_move_down:nn{\g_mix_dp_tl}{
18971         \hbox_to_wd:nn{\g_mix_wd_tl}{
18972             \vbox_to_ht:nn{\g_mix_tt_tl}{
18973                 \vss
18974                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
18975                 \box_use:N\l_mix_pbtn_box
18976                 \ocgbase_oc_emc:
18977             }
18978         }
18979     }
18980     \group_end:
18981 }
18982 \int_gincr:N\g_mix_rmcnt_int
18983 }
18984 \mix_endLTR:
18985 \group_end:
18986 }
18987 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
18988 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
18989

```



```

18990 \RenewDocumentCommand\mediabutton{0{m}}{%#1 options, #2 normal button text
18991   \mix_urriend:
18992   \group_begin:
18993   \mix_beginLTR:
18994   \mode_leave_vertical:
18995   %reset various variables
18996   \tl_gclear:N\g_mix_overbtn_tl
18997   \tl_gclear:N\g_mix_downbtn_tl
18998   \tl_gclear:N\g_mix_btnactions_tl
18999   \tl_gclear:N\g_mix_tooltip_tl
19000   %process options
19001   \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
19002   \mix_uribegin: %treat URI characters correctly
19003   \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
19004   \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
19005   \mix_urriend:
19006   %normal button appearance
19007   %\hbox_set:Nn\l_mix_poster_box{#2}
19008   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
19009   \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
19010   \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
19011   \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
19012   \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
19013     \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
19014       \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
19015     \mix_pdfxform:n{\l_mix_poster_box}
19016     \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
19017     %insert widget annotation
19018     \mix_pdfannot:nnnn{\width}{\height}{\depth}{
19019       /Subtype/Widget
19020       /T~(mbtn@int_use:N\g_mix_mbtncnt_int)
19021       \tl_if_empty:NF\g_mix_tooltip_tl{TU~(\g_mix_tooltip_tl)}
19022       /FT/Btn/Ff~65536
19023       \tl_if_empty:NTF\g_mix_downbtn_tl{H/I}{H/P}
19024       /AP~<<
19025       /N~\g_mix_normalbtn_tl
19026       \tl_if_empty:NF\g_mix_overbtn_tl{R~\g_mix_overbtn_tl}
19027       \tl_if_empty:NF\g_mix_downbtn_tl{D~\g_mix_downbtn_tl}
19028     >>
19029     /MK~<<
19030     /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
19031     /I~\g_mix_normalbtn_tl
19032     \tl_if_empty:NF\g_mix_overbtn_tl{RI~\g_mix_overbtn_tl}
19033     \tl_if_empty:NF\g_mix_downbtn_tl{IX~\g_mix_downbtn_tl}
19034     >>
19035     /A~<<
19036     /S/JavaScript/JS~(app.focusRect=false;)
19037     %sequence of actions to perform
19038     \tl_if_empty:NF\g_mix_btnactions_tl{Next~[\g_mix_btnactions_tl]}
19039     >>
19040   }
19041   \mix_appendtofields:n{\mix_pdflastann:}
19042   \hbox_to_wd:nn{\width}{
19043     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss

```



```

19044     }
19045     \int_gincr:N\g_mix_mbtncnt_int
19046   }
19047   \mix_endLTR:
19048   \group_end:
19049 }
19050 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
19051 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
19052

```

116 File memoir-xetex-bidi.def

```

19053 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for Xe
19054 \renewcommand{\keepthetitle}{%
19055   \@bsmttitleempty
19056   \global\let\thanks\relax
19057   \global\let\LTRthanks\relax
19058   \global\let\RTLthanks\relax
19059   \global\let\and\relax
19060   \global\let\andnext\relax
19061   \global\let\@thanks\@empty
19062   \global\let\@title\@empty
19063   \global\let\@author\@empty
19064   \global\let\@date\@empty}
19065 \renewcommand{\maketitle}{\par
19066   \begingroup
19067     \@bsmarkseries
19068     \def\@makefnmark{\@textsuperscript{%
19069       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
19070     \long\def\@makefntext##1{\makethanksmark ##1}
19071     \if@twocolumn
19072       \ifnum \col@number=\@one
19073         \@maketitle
19074       \else
19075         \twocolumn[\@maketitle]%
19076       \fi
19077     \else
19078       \ifdim\pagetotal>\z@
19079         \newpage
19080       \fi
19081       \global\@topnum\z@
19082       \@maketitle
19083     \fi
19084     \thispagestyle{title}\@thanks
19085   \endgroup
19086   \@bscontmark % \setcounter{footnote}{0}%
19087 }
19088 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
19089 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
19090 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
19091 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
19092 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19093 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19094 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}

```



```

19095 \renewcommand*{\thesubsection}{%
19096         \thesection\@SepMark\@arabic\c@subsection}
19097 \renewcommand*{\thesubsubsection}{%
19098         \thesubsection\@SepMark\@arabic\c@subsubsection}
19099 \renewcommand*{\theparagraph}{%
19100         \thesubsubsection\@SepMark\@arabic\c@paragraph}
19101 \renewcommand*{\thesubparagraph}{%
19102         \theparagraph\@SepMark\@arabic\c@subparagraph}
19103 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19104 \renewcommand{\theequation}{%
19105     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19106 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
19107 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19108 \ifartopt
19109     \chapterstyle{article}
19110     \counterwithout{figure}{chapter}
19111     \counterwithout{table}{chapter}
19112     \counterwithout{footnote}{chapter}
19113     \counterwithout{equation}{chapter}
19114     \renewcommand{\chaptername}{}
19115     \renewcommand{\maketitlehookb}{%
19116         \vskip -1.5\topsep\vskip -1.5\partopsep}
19117     \renewcommand{\maketitlehookc}{%
19118         \vskip -1.5\topsep\vskip -1.5\partopsep}
19119 \fi
19120 \long\def\@makecaption#1#2{\let\@memtempa\relax
19121     \ifdim\prevdepth>-99\p@ \vskip\abovcaptionskip
19122     \else \def\@memtempa{\vbox to\topskip{}}\fi
19123     \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
19124     \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
19125     \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
19126     \let\footnote\@contfnote
19127     \let\footnotemark\@contfmark
19128     \ifdim\wd\@tempboxa<\linewidth \centering \fi
19129     \if@contcw
19130         \centering
19131         \parbox{\@contcwidth}{%
19132             \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19133         \fi
19134     \ifdim\wd\@tempboxa<\linewidth
19135         \@contpre
19136         {\@contnfont #1\@contdelim}\@memtempa
19137         {\@contcshortstyle \@conttfont #2\@contfinal\par}
19138     \else
19139         \if@conthang
19140             \sbox\@tempboxa{\@contnfont #1\@contdelim}
19141             \@contpre%
19142             {\@contcstyle\hangindent=\wd\@tempboxa
19143                 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19144         \else
19145             \if@contindent
19146                 \@contpre%
19147                 {\@contnfont #1\@contdelim}\@memtempa
19148                 {\@contcstyle\hangindent=\@contindw

```



```

19149             \hangafter=\@ne\@conttfont #2\@contfinal\par}% <- v1.4
19150         \else
19151             \@contpre%
19152             {\@contnfont #1\@contdelim}\@memtempa
19153             {\@contcstyle \@conttfont #2\@contfinal\par}
19154         \fi
19155     \fi
19156 \fi
19157 \@contpost
19158 \if@contcw
19159     \par
19160 } % end of the \parbox
19161 \fi
19162 \vskip\belowcaptionskip}
19163 \ApplyPatchCodeToPackage{caption}{%
19164 \AtBeginPackage{caption}{
19165 \ClassWarningNoLine{memoir}{%
19166 You are using the caption package with the memoir \MessageBreak
19167 class. This may cause unexpected or inconsistent \MessageBreak
19168 results if you use any of memoir's captioning facilities}
19169
19170 \long\def\@makecaption##1##2{%
19171 \vskip\abovecaptionskip
19172 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19173 \ifdim \wd\@tempboxa >\hsize
19174 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
19175 \else
19176 \global \@minipagefalse
19177 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19178 \fi
19179 \vskip\belowcaptionskip}
19180
19181 \def\caption{%
19182 \ifx\@captive\@undefined
19183 \latexerror{noexpand\caption outside float}\@ehd
19184 \expandafter\@gobble
19185 \else
19186 \refstepcounter\@captive
19187 \expandafter\@firstofone
19188 \fi
19189 {\@dblarg{\@caption\@captive}}%
19190 }
19191
19192 \long\def\@caption##1[##2]##3{%
19193 \par
19194 \addcontentsline{\csname ext@##1\endcsname}{##1}%
19195 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19196 \begingroup
19197 \@parboxrestore
19198 \if@minipage
19199 \setminipage
19200 \fi
19201 \normalsize
19202 \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par

```



```

19203 \endgroup}
19204 }}
19205 \renewenvironment{thebibliography}[1]{%
19206 \bibsection
19207 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19208 \bidi@thebibliography@font@hook%
19209 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

117 File midfloat-xetex-bidi.def

```

19210 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19211 \def\RTL@outputdblcol{%
19212 \if@firstcolumn
19213 \global \@firstcolumnfalse
19214 \global\setbox\@leftcolumn\copy\@outputbox
19215 \splitmaxdepth\maxdimen
19216 \vbadness\maxdimen
19217 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19218 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19219 \toks@\expandafter{\topmark}%
19220 \xdef\@firstcoltopmark{\the\toks@}%
19221 \toks@\expandafter{\splitfirstmark}%
19222 \xdef\@firstcolfirstmark{\the\toks@}%
19223 \ifx\@firstcolfirstmark\@empty
19224 \global\let\@setmarks\relax
19225 \else
19226 \gdef\@setmarks{%
19227 \let\firstmark\@firstcolfirstmark
19228 \let\topmark\@firstcoltopmark}%
19229 \fi
19230 \global\c@colht\@colht\global\c@advvipersep\z@
19231 \ifnum\jua@sk>0
19232 \remove@strip\jua@sar
19233 \global\@colht\the\jua@pr
19234 \ifdim\right@cor>\z@
19235 \global\advance\@colht by\right@cor
19236 \fi
19237 \global\advance\@colht by\cor@height
19238 \global\cor@height=0pt
19239 \fi
19240 \global\setbox\@rightcolumn\vbox{}%
19241 \else
19242 \ifdim\c@colht>\@colht
19243 \@tempdima\@colht
19244 \ifdim\@colht>\z@
19245 \global\setbox\@rightcolumn\vbox{%
19246 \unvbox\@rightcolumn
19247 \vbox to\@tempdima{%
19248 \vskip\c@advvipersep\unvbox\@outputbox}%
19249 \vskip\stripsep
19250 \vrule height\the\jua@ht width 0pt depth 0pt
19251 \vskip\stripsep
19252 }%
19253 \global\c@advvipersep\m@advvipersep

```




```

19254         \else
19255         \global\setbox\@rightcolumn \vbox{%
19256             \unvbox\@rightcolumn
19257             \vrule height\the\jua@ht width Opt depth Opt
19258             \vskip\stripsep
19259         }%
19260     \fi
19261     \ifnum\jua@sk>0
19262         \remove@strip\jua@sar
19263         \global\@colht\the\jua@pr
19264         \global\advance\@colht by -\ht\@rightcolumn
19265         \global\advance\@colht by\cor@height
19266         \global\cor@height=0pt
19267     \else
19268         \global\advance\c@colht by-\ht\@rightcolumn
19269         \global\@colht\c@colht
19270     \fi
19271 \else
19272 \global\@firstcolumntrue
19273 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19274     \unvbox\@rightcolumn
19275     \vskip\c@addvipersep
19276     \unvbox\@outputbox
19277 }%
19278 \setbox\@outputbox \vbox {%
19279     \hb@xt@\textwidth {%
19280         \hskip \columnwidth
19281         \hfil
19282         \vrule \@width\columnseprule
19283         \hfil
19284         \hb@xt@\columnwidth {%
19285             \bidi@firstcolumn@status@write%
19286             \box\@leftcolumn \hss}%
19287         \hskip-\textwidth
19288         \hb@xt@\columnwidth {%
19289             \bidi@lastcolumn@status@write%
19290             \box\@outputbox \hss}%
19291         \hskip\columnwidth
19292         \hskip\columnsep}%
19293     }%
19294 \@combinedblfloats
19295 \@setmarks
19296 \@outputpage
19297 \begingroup
19298     \@dblfloatplacement
19299     \@startdblcolumn
19300     \@whiles\if@fcolmade \fi
19301     {\@outputpage
19302     \@startdblcolumn}%
19303 \endgroup
19304 \global\jua@sk=0\global\jua@sar={}%
19305 \global\cor@height\z@\global\c@addvipersep\z@
19306 \fi
19307 \fi

```



```

19308 }
19309
19310
19311 \def\LTR@outputdblcol{%
19312   \if@firstcolumn
19313     \global \@firstcolumnfalse
19314     \global\setbox\@leftcolumn\copy\@outputbox
19315     \splitmaxdepth\maxdimen
19316     \vbadness\maxdimen
19317     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19318     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19319     \toks@{\expandafter{\topmark}}%
19320     \xdef\@firstcoltopmark{\the\toks@}%
19321     \toks@{\expandafter{\splitfirstmark}}%
19322     \xdef\@firstcolfirstmark{\the\toks@}%
19323     \ifx\@firstcolfirstmark\@empty
19324       \global\let\@setmarks\relax
19325     \else
19326       \gdef\@setmarks{%
19327         \let\firstmark\@firstcolfirstmark
19328         \let\topmark\@firstcoltopmark}%
19329     \fi
19330     \global\c@colht\@colht\global\c@advvipersep\z@
19331     \ifnum\jua@sk>0
19332       \remove@strip\jua@sar
19333       \global\@colht\the\jua@pr
19334       \ifdim\right@cor>\z@
19335         \global\advance\@colht by\right@cor
19336       \fi
19337       \global\advance\@colht by\cor@height
19338       \global\cor@height=0pt
19339     \fi
19340     \global\setbox\@rightcolumn\vbox{%
19341   \else
19342     \ifdim\c@colht>\@colht
19343       \@tempdima\@colht
19344       \ifdim\@colht>\z@
19345         \global\setbox\@rightcolumn\vbox{%
19346           \unvbox\@rightcolumn
19347           \vbox to\@tempdima{%
19348             \vskip\c@advvipersep\unvbox\@outputbox}%
19349           \vskip\stripsep
19350           \vrule height\the\jua@ht width 0pt depth 0pt
19351           \vskip\stripsep
19352         }%
19353         \global\c@advvipersep\m@advvipersep
19354       \else
19355         \global\setbox\@rightcolumn\vbox{%
19356           \unvbox\@rightcolumn
19357           \vrule height\the\jua@ht width 0pt depth 0pt
19358           \vskip\stripsep
19359         }%
19360     \fi
19361     \ifnum\jua@sk>0

```



```

19362         \remove@strip\jua@sar
19363         \global\@colht\the\jua@pr
19364         \global\advance\@colht by -\ht\@rightcolumn
19365         \global\advance\@colht by\cor@height
19366         \global\cor@height=0pt
19367     \else
19368         \global\advance\c@colht by-\ht\@rightcolumn
19369         \global\@colht\c@colht
19370     \fi
19371 \else
19372     \global\@firstcolumntrue
19373     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19374         \unvbox\@rightcolumn
19375         \vskip\c@addvipersep
19376         \unvbox\@outputbox
19377     }%
19378     \setbox\@outputbox \vbox {%
19379         \hb@xt@\textwidth {%
19380             \hb@xt@\columnwidth {%
19381                 \bidi@firstcolumn@status@write%
19382                 \box\@leftcolumn \hss}%
19383             \hfil
19384             \vrule \@width\columnseprule
19385             \hfil
19386             \hb@xt@\columnwidth {%
19387                 \bidi@lastcolumn@status@write%
19388                 \box\@outputbox \hss}%
19389             }%
19390         }%
19391     \@combinedblfloats
19392     \@setmarks
19393     \@outputpage
19394     \begingroup
19395         \@dblfloatplacement
19396         \@startdblcolumn
19397         \@whilesw\if@fcolmade \fi
19398             {\@outputpage
19399              \@startdblcolumn}%
19400     \endgroup
19401     \global\jua@sk=0\global\jua@sar={}%
19402     \global\cor@height\z@\global\c@addvipersep\z@
19403     \fi
19404 \fi
19405 }
19406
19407
19408 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19409     \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
19410         \hsize\textwidth
19411         \@parboxrestore
19412         \col@number \@ne
19413         \vrule height\topskip width0pt depth0pt
19414 }
19415

```



```

19416 \def\endstrip{%
19417     \egroup\egroup
19418     \if@firstcolumn
19419         \ifdim\pagetotal>\z@
19420             \vskip\stripsep
19421             \global\ht@strip\pagegoal
19422             \global\advance\ht@strip by-\pagetotal
19423             \global\advance\ht@strip by-\stripsep
19424             \global\advance\ht@strip by-\ht@viper
19425             \global\advance\ht@strip by-\stripsep
19426             \global\jua@ht=\ht@viper
19427         \else
19428             \global\ht@strip\z@
19429         \fi
19430     \ifdim\ht@strip>\z@
19431         \unvbox\@viper
19432         \vskip\stripsep
19433         \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
19434         \global\advance\jua@sk by1
19435     \else
19436         \@latex@error{Strip needs more place!}\@ehc
19437         \if@vihproof
19438             \framebox[\columnwidth]{??? Strip ???}%
19439         \fi
19440     \fi
19441 \else
19442     \@latex@error{Strip is used only on left column!}\@ehc
19443     \if@vihproof
19444         \framebox[\columnwidth]{??? Strip ???}%
19445     \fi
19446 \fi
19447 }

```

118 File minitoc-xetex-bidi.def

```

19448 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
19449 \def\@undottedtocline#1#2#3#4#5{%
19450     \ifnum #1>\c@tocdepth\relax \else
19451         \vskip \z@ plus.2\p@
19452         {\ifRTL\rightskip\else\leftskip\fi #2\relax \ifRTL\leftskip\else\rightskip\fi \@tocrmarg
19453         \parindent #2\relax\@afterindenttrue
19454         \interlinepenalty\@M
19455         \leavevmode
19456         \@tempdima #3\relax \advance\ifRTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
19457         \hskip -\ifRTL\rightskip\else\leftskip\fi
19458         #4\nobreak\hfill\nobreak
19459         \null\par}%
19460     \fi}
19461 \def\@Undottedtocline#1#2#3#4#5{%
19462     \ifnum #1>\c@tocdepth\relax \else
19463         \vskip \z@ \@plus.2\p@
19464         {\ifRTL\rightskip\else\leftskip\fi #2\relax \ifRTL\leftskip\else\rightskip\fi \@tocma
19465         \parindent #2\relax\@afterindenttrue
19466         \interlinepenalty\@M

```



```

19467 \leavevmode
19468 \@tempdima #3\relax
19469 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19470 {\coffefont #4}\nobreak \nobreak\null
19471 \par}%
19472 \fi}
19473 \def\@Undottedtoclinep#1#2#3#4#5{%
19474 \ifnum #1>\c@tocdepth\relax \else
19475 \vskip \z@ \@plus.2\p@
19476 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
19477 \parindent #2\relax\@afterindenttrue
19478 \interlinepenalty\@M
19479 \leavevmode
19480 \@tempdima #3\relax
19481 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19482 {#4}\nobreak \hfill \nobreak\null
19483 \hb@xt@\@pnumwidth{\{\hfil\normalfont \normalcolor #5}\}%
19484 \par}%
19485 \fi}

```

119 File multicol-xetex-bidi.def

```

19486 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
19487 \def\page@sofar{%
19488 \process@cols\mult@rightbox
19489 {\ifvoid\count@
19490 \setbox\count@\hbox to\hsize{%
19491 \else
19492 \wd\count@\hsize
19493 \fi}%
19494 \count@\col@number \advance\count@\m@ne
19495 \mult@info\z@
19496 {Column spec: \the\full@width\space = indent
19497 + columns + sep =\MessageBreak
19498 \the\multicol@leftmargin\space
19499 + \the\col@number\space
19500 x \the\hsize\space
19501 + \the\count@\space
19502 x \the\columnsep
19503 }%
19504 \ifvmode\else\errmessage{Multicol Error}\fi
19505 \nointerlineskip
19506 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
19507 \moveright\multicol@leftmargin
19508 \hbox to\full@width{%
19509 \bidi@multicol@align@columns
19510 \rlap{\phantom p}%
19511 }%
19512 \prevdepth\z@
19513 \kern-\dimen\tw@
19514 \ifdim\dimen\tw@ > \mc@gridwarn
19515 \PackageWarning{multicol}%
19516 {Very deep columns!\MessageBreak
19517 Grid alignment might be broken}%

```



```

19518 \fi
19519 }
19520 \def\LTR@column@boxes{%
19521     \process@cols\mult@firstbox{%
19522         \ifdim\dp\count@>\dimen\tw@
19523             \global\dimen\tw@\dp\count@ \fi
19524         \mc@col@status@write
19525         \box\count@
19526         \hss{\columnseprulecolor\vrule
19527             \@width\columnseprule}\hss}%
19528     \ifdim\dp\mult@rightbox>\dimen\tw@
19529         \global\dimen\tw@\dp\mult@rightbox \fi
19530     \mc@lastcol@status@write
19531     \box\mult@rightbox
19532 }
19533
19534 \def\RTL@column@boxes{%
19535     \process@cols\mult@firstbox{%
19536         \hskip\hsize
19537         \hss{\columnseprulecolor\vrule
19538             \@width\columnseprule}\hss
19539     }%
19540     \hskip\hsize
19541     \process@cols\mult@firstbox{%
19542         \ifdim\dp\count@>\dimen\tw@
19543             \global\dimen\tw@\dp\count@ \fi
19544         \hskip-\hsize
19545         \mc@col@status@write
19546         \box\count@
19547         \hskip-\hsize
19548         \hskip-\columnsep
19549     }%
19550     \ifdim\dp\mult@rightbox>\dimen\tw@
19551         \global\dimen\tw@\dp\mult@rightbox \fi
19552     \hskip-\hsize
19553     \mc@lastcol@status@write
19554     \box\mult@rightbox
19555     \hskip-\hsize
19556     \hskip\full@width
19557 }
19558
19559 \newcommand\RTLmulticolcolumns
19560     {\let\bidimulticol@align@columns
19561         \RTL@column@boxes}
19562 \newcommand\LTRmulticolcolumns
19563     {\let\bidimulticol@align@columns
19564         \LTR@column@boxes}
19565 \newcommand\bidimulticol@align@columns
19566     {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19567 \bidimulticol@AtEndPreamble{%
19568     \if@bidi@csdef{footinsv[1]}{%
19569         \def\footnoterule{\kern-3\p@
19570             \hrule \@width \textwidth \kern 2.6\p@}%
19571     }{}}

```



```

19572 }
19573 \def\multicols#1{\col@number#1\relax
19574   \ifnum\col@number<\tw@
19575     \PackageWarning{multicol}%
19576       {Using `\'number\'col@number'
19577         columns doesn't seem a good idea.^~J
19578         I therefore use two columns instead}%
19579     \col@number\tw@ \fi
19580   \ifnum\col@number>20
19581     \PackageError{multicol}%
19582       {Too many columns}%
19583     {Current implementation doesn't
19584       support more than 20 columns.%
19585       \MessageBreak
19586       I therefore use 20 columns instead}%
19587     \col@number20 \fi
19588   \ifx\@footnotetext\mult@footnotetext
19589   \else
19590     \let\orig@footnotetext\@footnotetext
19591     \let\@footnotetext\mult@footnotetext
19592   \fi
19593   \ifx\@LTRfootnotetext\mult@LTRfootnotetext
19594   \else
19595     \let\orig@LTRfootnotetext\@LTRfootnotetext
19596     \let\@LTRfootnotetext\mult@LTRfootnotetext
19597   \fi
19598   \ifx\@RTLfootnotetext\mult@RTLfootnotetext
19599   \else
19600     \let\orig@RTLfootnotetext\@RTLfootnotetext
19601     \let\@RTLfootnotetext\mult@RTLfootnotetext
19602   \fi
19603   \@ifnextchar[\mult@cols{\mult@cols[]}]
19604 \long\def\mult@footnotetext#1{\begingroup
19605   \hsize\textwidth
19606   \columnwidth\textwidth
19607   \orig@footnotetext{#1}\endgroup}
19608 \long\def\mult@LTRfootnotetext#1{\begingroup
19609   \hsize\textwidth
19610   \columnwidth\textwidth
19611   \orig@LTRfootnotetext{#1}\endgroup}
19612 \long\def\mult@RTLfootnotetext#1{\begingroup
19613   \hsize\textwidth
19614   \columnwidth\textwidth
19615   \orig@RTLfootnotetext{#1}\endgroup}
19616 \def\right@footnoterule{%
19617   \kern-3\p@
19618   \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
19619   \kern2.6\p@}
19620 \def\textwidth@footnoterule{\kern-3\p@
19621   \hrule \@width \textwidth \kern 2.6\p@}
19622 \def\bidileave@mult@copyins{%
19623   \advance\dimen@-\skip\@bidi@copyins@
19624   \advance\dimen@-\ht\@bidi@copyins@
19625 }

```



```

19626
19627 \bidi@AtEndPreamble{%
19628   \if@bidi@csundef{footinsv@1}{%
19629     \bidi@patchcmd{\multi@column@out}{%
19630       \ifvbox \@kludgeins
19631     }{%
19632       \ifvoid\@bidi@copyins@ \else
19633         \bidi@leave@mult@copyins
19634       \fi
19635       \ifvbox \@kludgeins
19636     }{}{}%
19637   }{}%
19638 }
19639
19640

```

120 File multienum-xetex-bidi.def

```

19641 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
19642 \renewcommand{\itemx}[1]{\parbox[t]%
19643 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19644 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
19645 \renewcommand{\itemxx}[2]{\parbox[t]%
19646 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19647 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19648 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19649 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19650 \renewcommand{\itemxxx}[3]{\parbox[t]%
19651 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19652 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19653 {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
19654 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
19655 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19656 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
19657 \renewcommand{\itemxxxx}[4]{\parbox[t]%
19658 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19659 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19660 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19661 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19662 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19663 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19664 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19665 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19666 \renewcommand{\itemxxxxx}[5]{\parbox[t]%
19667 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19668 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
19669 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19670 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
19671 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19672 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
19673 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19674 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
19675 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19676 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}

```




```

19677 \renewcommand{\itemxox}[2]{\parbox[t]{%
19678 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19679 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19680 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19681 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
19682 \renewcommand{\itemxxo}[2]{\parbox[t]{%
19683 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19684 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
19685 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19686 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19687 \renewcommand{\itemxox}[3]{\parbox[t]{%
19688 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19689 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19690 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19691 \parbox[t]{0.25\remainxxx}{\bidi@raggedright #2}\hfill%
19692 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19693 \parbox[t]{0.25\remainxxx}{\bidi@raggedright #3}\smallskip}
19694 \renewcommand{\itemxxox}[3]{\parbox[t]{%
19695 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19696 \parbox[t]{.25\remainxxx}{\bidi@raggedright #1}\hfill%
19697 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19698 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
19699 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19700 \parbox[t]{0.25\remainxxx}{\bidi@raggedright #3}\smallskip}
19701 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
19702 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19703 \parbox[t]{.25\remainxxx}{\bidi@raggedright #1}\hfill%
19704 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19705 \parbox[t]{.25\remainxxx}{\bidi@raggedright #2}\hfill%
19706 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19707 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

121 File natbib-xetex-bidi.def

```

19708 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
19709 \renewenvironment{thebibliography}[1]{%
19710 \bibsection
19711 \parindent\z@
19712 \bibpreamble
19713 \bibfont
19714 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19715 \bidi@@thebibliography@font@hook%
19716 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19717 \ifNAT@openbib
19718 \renewcommand\newblock{\par}%
19719 \else
19720 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19721 \fi
19722 \sloppy\clubpenalty4000\widowpenalty4000
19723 \sfcode`\.\@m
19724 \let\NAT@bibitem@first@sw\@firstoftwo
19725 \let\citeN\cite \let\shortcite\cite
19726 \let\citeasnoun\cite
19727 }{

```



```

19728 \bibitem@fin
19729 \bibpostamble
19730 \def\@noitemerr{%
19731   \PackageWarning{natbib}{Empty `thebibliography' environment}%
19732 }%
19733 \endlist
19734 \bibcleanup
19735 }%

```

122 File newfloat-xetex-bidi.def

```

19736 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
19737 \renewcommand*\newfloat@setwithin[2]{%
19738   \ifcsname c@chapter\endcsname
19739     \@removefromreset{#1}{chapter}%
19740   \fi
19741   \@removefromreset{#1}{section}%
19742   \edef\@tempa{#2}%
19743   \ifx\@tempa\@empty
19744     \def\@tempa{none}%
19745   \fi
19746   \def\@tempb{none}%
19747   \ifx\@tempa\@tempb
19748     \ifcsname c@chapter\endcsname
19749       \@chapterlistsgap@off{#1}%
19750     \fi
19751     \newfloat@@setwithin{#1}{\}{\}%
19752   \else
19753     \def\@tempb{chapter}%
19754     \ifx\@tempa\@tempb
19755       \@addtoreset{#1}{chapter}%
19756       \@chapterlistsgap@on{#1}%
19757       \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
19758     \else
19759       \def\@tempb{section}%
19760       \ifx\@tempa\@tempb
19761         \@addtoreset{#1}{section}%
19762         \ifcsname c@chapter\endcsname
19763           \@addtoreset{#1}{chapter}%
19764           \@chapterlistsgap@on{#1}%
19765           \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
19766         \else
19767           \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
19768         \fi
19769       \else
19770         \newfloat@Error{Invalid value `#2' for option `within'}%
19771       \fi
19772     \fi
19773   \fi}

```

123 File nicematrix-xetex-bidi.def

```

19774 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix package]
19775 \ExplSyntaxOn

```



```

19776 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
19777 \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
19778 \@tabarray
19779 }{}{}
19780 \ExplSyntaxOff
19781

```

124 File ntheorem-xetex-bidi.def

```

19782 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
19783 \gdef\@thm#1#2#3{%
19784 \if@thmmarks
19785 \stepcounter{end\InTheoType ctr}%
19786 \fi
19787 \renewcommand{\InTheoType}{#1}%
19788 \if@thmmarks
19789 \stepcounter{curr#1ctr}%
19790 \setcounter{end#1ctr}{0}%
19791 \fi
19792 \refstepcounter{#2}%
19793 \theorem@prework
19794 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19795 \ifvmode \advance\thm@topsepadd\partopsep\fi
19796 \trivlist
19797 \@topsep \theorempreskipamount
19798 \@topsepadd \thm@topsepadd % used by \@endparenv
19799 \advance\linewidth -\theorem@indent
19800 \advance\@totalleftmargin \theorem@indent
19801 \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19802 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

125 File ntheorem-hyper-xetex-bidi.def

```

19803 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-hyper]
19804 \gdef\@thm#1#2#3{%
19805 \if@thmmarks
19806 \stepcounter{end\InTheoType ctr}%
19807 \fi
19808 \renewcommand{\InTheoType}{#1}%
19809 \if@thmmarks
19810 \stepcounter{curr#1ctr}%
19811 \setcounter{end#1ctr}{0}%
19812 \fi
19813 \refstepcounter{#2}%
19814 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19815 \ifvmode \advance\thm@topsepadd\partopsep\fi
19816 \trivlist
19817 \@topsep \theorempreskipamount
19818 \@topsepadd \thm@topsepadd % used by \@endparenv
19819 \advance\linewidth -\theorem@indent
19820 \advance\@totalleftmargin \theorem@indent
19821 \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19822 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```



126 File overpic-xetex-bidi.def

```

19823 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
19824 \renewenvironment{overpic}[2][\%
19825   \sbox{\z@}{\includegraphics[#1]{#2}}%
19826   \settodepth{\@tempcnta}{\usebox{\z@}}%
19827   \settoheight{\@tempcntb}{\usebox{\z@}}%
19828   \advance\@tempcntb\@tempcnta%
19829   \settowidth{\@tempcnta}{\usebox{\z@}}%
19830   \setlength{\@tempdima}{\unitlength}%
19831   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
19832 %
19833   \OVP@calc%
19834 %
19835   \begin{picture}(\@tempcnta,\@tempcntb)%
19836     \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
19837     \ifGin@grid%
19838       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19839         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19840     \fi\fi%
19841     % reset the graphics parameter
19842     \let\Gin@outer@scalex\relax
19843     \let\Gin@outer@scaley\relax
19844     \let\Gin@angle\relax
19845     \let\Gin@ewidth\Gin@exclamation
19846     \let\Gin@eheight\Gin@ewidth
19847     \def\Gin@scalex{1}
19848     \let\Gin@scaley\Gin@exclamation
19849   }{%
19850     \ifRTL\ifGin@grid%
19851       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19852         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19853     \fi%
19854     \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
19855   \end{picture}%
19856 }%

```

127 File pdfbase-xetex-bidi.def

```

19857 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
19858 \ExplSyntaxOn
19859 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
19860 \cs_set_nopar:Npn\@outputpage{
19861   \int_gincr:N\g_pbs_page_int
19862   \box_if_vertical:cTF{\outputbox}{
19863     \bool_set_true:N\l_pbs_is_vertical_bool
19864   }{
19865     \bool_set_false:N\l_pbs_is_vertical_bool
19866   }
19867   \hbox_set:Nn\@outputbox{
19868     %begin of page
19869     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
19870     \box_use_drop:N\@outputbox
19871     %end of page

```



```

19872 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
19873 }
19874 \bool_if:NT\l_pbs_is_vertical_bool{
19875 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
19876 }
19877 \pbs_outputpage_orig:
19878 }
19879 \ExplSyntaxOff

```

128 File pdfscape-xetex-bidi.def

```

19880 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
19881 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
19882 \if@RTL
19883 \PLS@Rotate{-90}%
19884 \else
19885 \PLS@Rotate{90}%
19886 \fi
19887 }{}{}

```

129 File pgfcorescopes.code-xetex-bidi.def

```

19888 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
19889 \def\pgfpicture{%
19890 \begingroup%
19891 \ifmmode\else\@RTLfalse\beginL\fi%
19892 \pgfpicturetrue%
19893 \global\advance\pgf@picture@serial@count by1\relax%
19894 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
19895 \let\pgf@nodecallback=\pgfutil@gobble%
19896 \pgf@picmaxx=-16000pt\relax%
19897 \pgf@picminx=16000pt\relax%
19898 \pgf@picmaxy=-16000pt\relax%
19899 \pgf@picminy=16000pt\relax%
19900 \pgf@relevantforpicturesizetrue%
19901 \pgf@resetpathsizes%
19902 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
19903 \def\endpgfpicture{%
19904 \ifpgfrememberpicturepositiononpage%
19905 \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
19906 \fi%
19907 % ok, now let's position the box
19908 \ifdim\pgf@picmaxx=-16000pt\relax%
19909 % empty picture. make size 0.
19910 \global\pgf@picmaxx=0pt\relax%
19911 \global\pgf@picminx=0pt\relax%
19912 \global\pgf@picmaxy=0pt\relax%
19913 \global\pgf@picminy=0pt\relax%
19914 \fi%
19915 % Shift baseline outside:
19916 \pgf@relevantforpicturesizefalse%
19917 \pgf@process{\pgf@baseline}%
19918 \xdef\pgf@shift@baseline{\the\pgf@y}%
19919 %

```



```

19920         \pgf@process{\pgf@trimleft}%
19921         \global\advance\pgf@x by-\pgf@picminx
19922         % prepare \hskip\pgf@trimleft@final.
19923         % note that \pgf@trimleft@final is also queried
19924         % by the pgf image externalization.
19925         \xdef\pgf@trimleft@final{-\the\pgf@x}%
19926         %
19927         \pgf@process{\pgf@trimright}%
19928         \global\advance\pgf@x by-\pgf@picmaxx
19929         % prepare \hskip\pgf@trimright@final.
19930         % note that \pgf@trimright@final is also queried
19931         % by the pgf image externalization.
19932         \xdef\pgf@trimright@final{\the\pgf@x}%
19933     %
19934     \pgf@remember@layerlist@globally
19935     \endgroup%
19936     \hss%
19937     \egroup%
19938     \pgf@restore@layerlist@from@global
19939     \pgf@insertlayers%
19940     \endgroup%
19941     \pgfsys@discardpath%
19942     \endgroup%
19943     \pgfsys@endscope%
19944     \pgfsys@endpicture%
19945     \endgroup%
19946     \hss
19947 \egroup%
19948 \pgfsys@typesetpicturebox\pgfpic%
19949 \ifmmode\else\endL\fi%
19950 \endgroup%
19951 }

```

130 File pgfsys-xetex-bidi.def

```

19952 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
19953 \def\pgfsys@shadingoutsidepgfpicture#1{%
19954     \beginL#1\endL%
19955 }
19956
19957

```

131 File picinpar-xetex-bidi.def

```

19958 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
19959 \long\def\@makewincaption#1#2{%
19960     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
19961     \ifdim\wd\@tempboxa>\picwd
19962         {\footnotesize{\bf #1:\enspace}{#2\par}}
19963     \else
19964         \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
19965     \fi}
19966 \def\endwindow{%
19967     \global\tcd=\tcdsav

```



```

19968 \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
19969 \vbadness=10000
19970 \splittopskip=0pt
19971 %
19972 % Typeset the lines above the window
19973 %
19974 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
19975 \tcn=\tcd
19976 \loop\advance\tcn -1
19977 \setbox\fslice=\vsplit\holder to\baselineskip
19978 \prune\fslice\linewidth
19979 \topheight=0pt
19980 \ifnum\dp\fslice>\dp\wstrutbox
19981 \advance\topheight-\dp\fslice
19982 \advance\topheight\dp\wstrutbox
19983 \advance\topheight\ilg\fi
19984 \hbox to\linewidth{\box\fslice}
19985 \vskip-\topheight
19986 \ifdim\ht\holder>0pt\repeat
19987 \fi
19988 %
19989 % Now we build the boxes beside the window
19990 %
19991 \global\topheight=\tcl\baselineskip
19992 \ifnum\cumpartcl>0\global\tcl=\cumtcl
19993 \global\topheight=\vpic
19994 \fi
19995 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
19996 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
19997 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
19998 \tcn=\tcl \na=0 \nb=0
19999 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
20000 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
20001 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
20002 \ifnum\na=0\ifnum\nb=0
20003 \setbox\waslice=\vbox to\vpic{\vss}
20004 \setbox\wbslice=\vbox to\vpic{\vss}
20005 \bl=1\br=1
20006 \vskip\ilg
20007 \fi\fi
20008 %
20009 % both sides
20010 %
20011 \ifnum\na>0 \ifnum\nb>0
20012 \loop\advance\nb -1
20013 \advance\na -1
20014 \if@RTL%
20015 \setbox\bslice=\vsplit\holder to\baselineskip
20016 \prune\bslice\rtside
20017 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20018 to\rtside{\box\bslice\hfil}}
20019 \setbox\aslice=\vsplit\holder to\baselineskip
20020 \prune\aslice\lftside
20021 \setbox\waslice=\vbox{\unvbox\waslice\hbox

```



```

20022 to\lftside{\box\aslice\hfil}}
20023 \else%
20024 \setbox\aslice=\vsplit\holder to\baselineskip
20025 \prune\aslice\lftside
20026 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20027 to\lftside{\box\aslice\hfil}}
20028 \setbox\bslice=\vsplit\holder to\baselineskip
20029 \prune\bslice\rtside
20030 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20031 to\rtside{\box\bslice\hfil}}
20032 \fi%
20033 \ifnum\nb>0\repeat
20034 \fi\fi
20035 %
20036 % only text on the left side
20037 %
20038 \ifnum\na>0
20039   \loop\advance\na -1
20040   \setbox\aslice=\vsplit\holder to\baselineskip
20041   \prune\aslice\lftside
20042   \setbox\waslice=\vbox{\unvbox\waslice\hbox
20043   to\lftside{\box\aslice\hfil}}
20044   \ifdim\ht\holder>0pt\repeat
20045 \fi
20046 %
20047 % only text on the right side
20048 %
20049 \ifnum\nb>0
20050   \loop\advance\nb -1
20051   \setbox\bslice=\vsplit\holder to\baselineskip
20052   \prune\bslice\rtside
20053   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20054   to\rtside{\box\bslice\hfil}}
20055   \ifdim\ht\holder>0pt\repeat
20056 \fi
20057 %
20058 % fixing the dimensions of the window part
20059 %
20060 \ifnum\bl=0\topheight=\ht\wbslice
20061 \else\ifnum\br=0\topheight=\ht\waslice
20062   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20063   \else\topheight=\ht\wbslice\fi\fi\fi
20064 %
20065 % ship out the window material to the main vertical list
20066 %
20067 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20068 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
20069 \fi\fi\fi
20070 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20071 \ifnum\bl>0\box\waslice\hfill\fi%
20072 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
20073 \vfill\unvbox\picbox%
20074 \ifnum\picwd>0\vfill\fi%
20075 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%

```




```

20076 \unvbox\windowbox%
20077 \loop
20078 \setbox\bslice=\vsplit\rawtext to\baselineskip
20079 \prune\bslice\linewidth
20080 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
20081 \unvbox\wbslice
20082 \ifdim\ht\rawtext>0pt
20083 \repeat
20084 }% FINITO

```

132 File plain-xetex-bidi.def

```

20085 \def\TeXeTOn{\TeXeTstate=1 }
20086 \def\TeXeTOff{\TeXeTstate=0 }
20087 \TeXeTOn
20088 \def\usebox#1{\leavevmode\copy #1\relax}
20089 \def\bidir@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
20090 \let\bidir@@everypar=\everypar
20091 \newtoks\bidir@n@everypar
20092 \bidir@n@everypar\expandafter{\the\bidir@@everypar}
20093 \bidir@@everypar{\bidir@RTL@everypar\the\bidir@n@everypar}
20094 \let\everypar=\bidir@n@everypar
20095 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20096 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20097 \protected\def\hboxR{\hbox\bgroup
20098 \everyhbox{%
20099 \aftergroup\egroup
20100 \everyhbox{}}%
20101 \beginR
20102 \@hboxRconstructtrue
20103 \bgroup
20104 \aftergroup\endR
20105 \aftergroup\egroup
20106 }\hbox}
20107 \protected\def\hboxL{\hbox\bgroup
20108 \everyhbox{%
20109 \aftergroup\egroup
20110 \everyhbox{}}%
20111 \beginL
20112 \@hboxRconstructfalse
20113 \bgroup
20114 \aftergroup\endL
20115 \aftergroup\egroup
20116 }\hbox}
20117 \protected\def\vboxR{\vbox\bgroup
20118 \everyvbox{%
20119 \aftergroup\egroup
20120 \everyvbox{}}%
20121 \@RTLtrue
20122 \bgroup
20123 \aftergroup\egroup
20124 }\vbox}
20125 \protected\def\vboxL{\vbox\bgroup
20126 \everyvbox{%

```



```

20127 \aftergroup\egroup
20128 \everyvbox{}%
20129 \@RTLfalse
20130 \bgroup
20131 \aftergroup\egroup
20132 }\vbox}
20133 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20134 \def\endLTR{\par}
20135 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
20136 \def\endRTL{\par}
20137 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
20138 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
20139 \let\unsetRTL=\setLTR
20140 \let\unsetLTR=\setRTL
20141 \let\LR=\LRE
20142 \let\RL=\RLE
20143 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20144 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20145 \let\@ensure@RL=\@ensure@RTL
20146 \let\@ensure@LR=\@ensure@LTR
20147 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20148 \let\@ensure@maindir=\@ensure@dir
20149 \def\@RTL{RTL}
20150 \def\@LTR{LTR}
20151 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
20152 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
20153 \let\@TeX\TeX
20154 \def\TeX{\@ensure@LTR{\@TeX}}
20155 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
20156 \dimen@=\dp\ccclv \unvbox\ccclv % open up \box255
20157 \ifvoid\footins\else % footnote info is present
20158 \vskip\skip\footins
20159 \footnoterule
20160 \unvbox\footins\fi
20161 \ifrggedbottom \kern-\dimen@ \vfil \fi
20162 \ifvoid\@bidi@copyins@
20163 \else
20164 \vskip\skip\@bidi@copyins@
20165 \unvbox\@bidi@copyins@
20166 \fi
20167 }
20168 \long\def\bidi@reflect@box#1{%
20169 \leavevmode
20170 \setbox\z@\hbox{#1}%
20171 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
20172 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
20173 }
20174 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
20175 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20176 \let\setRL=\setRTL
20177 \let\setLR=\setLTR
20178 \let\unsetRL=\setLTR
20179 \let\bidi@samed@eqno=\eqno
20180 \let\bidi@samed@leqno=\leqno

```



```

20181 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
20182 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
20183 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20184 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20185 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

133 File pstricks-xetex-bidi.def

```

20186 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
20187 \bidi@patchcmd\pspicture\beginRgroup{%
20188   \beginRgroup
20189   \ifmmode
20190     \else
20191       \@RTLfalse
20192       \beginL
20193   \fi
20194 }{}{\bidi@warningnoline{0ops! patching `string\pspicture' failed}}
20195
20196 \bidi@patchcmd\endpspicture{%
20197   \endRgroup
20198   \psset{pstricks}{shift=0}% reset value
20199 }{%
20200   \ifmmode
20201     \else
20202       \endL
20203   \fi
20204   \endRgroup
20205   \psset{pstricks}{shift=0}% reset value
20206 }{}{\bidi@warningnoline{0ops! patching `string\endpspicture' failed}}
20207
20208 \bidi@patchcmd\@@scalebox{%
20209   \special{x: bscale \pst@tempc \pst@tempd}%
20210   \hbox to \z@{\box\pst@hbox\hss}%
20211   \special{x: escale}%
20212 }{%
20213   \if@RTL
20214     \special{x: escale}%
20215   \else
20216     \special{x: bscale \pst@tempc \pst@tempd}%
20217   \fi
20218   \hbox to \z@{\box\pst@hbox\hss}%
20219   \if@RTL
20220     \special{x: bscale \pst@tempc \pst@tempd}%
20221   \else
20222     \special{x: escale}%
20223   \fi
20224 }{}{\bidi@warningnoline{0ops! patching `string\@@scalebox' failed}}
20225 \let\ps@@scalebox\@@scalebox
20226

```

134 File quotchap-xetex-bidi.def

```

20227 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20228 \renewcommand{\qauthor}[1]{%

```



```

20229 \par\smallskip
20230 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
20231 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20232 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20233 {\chapnumfont
20234 \ifnum \c@secnumdepth >\m@ne%
20235 \if@mainmatter\thechapter%
20236 \fi\fi
20237 \par\nobreak}%
20238 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
20239 \nobreak\chapterheadendvskip}}
20240 \renewcommand*{\@iprintcites}{%
20241 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
20242 \global\let\@printcites\relax}

```

135 File ragged2e-xetex-bidi.def

```

20243 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
20244 \renewcommand{\Centering}{%
20245 \ifx\\ \@raggedtwoe@savedcr
20246 \let\\ \@centercr
20247 \fi
20248 \let\@gnewline\@raggedtwoe@gnewline
20249 \if@RTL\rightright\else\leftskip\fi\CenteringLeftskip
20250 \@rightskip\CenteringRightskip
20251 \if@RTL\leftskip\else\rightright\fi\@rightskip
20252 \parfillskip\CenteringParfillskip
20253 \parindent\CenteringParindent
20254 \@raggedtwoe@spaceskiptrue
20255 \@raggedtwoe@everyselectfont
20256 }
20257 \renewcommand{\RaggedLeft}{%
20258 \ifx\\ \@raggedtwoe@savedcr
20259 \let\\ \@centercr
20260 \fi
20261 \let\@gnewline\@raggedtwoe@gnewline
20262 \if@RTL\rightright\else\leftskip\fi\RaggedLeftLeftskip
20263 \@rightskip\RaggedLeftRightskip
20264 \if@RTL\leftskip\else\rightright\fi\@rightskip
20265 \parfillskip\RaggedLeftParfillskip
20266 \parindent\RaggedLeftParindent
20267 \@raggedtwoe@spaceskiptrue
20268 \@raggedtwoe@everyselectfont
20269 }
20270 \renewcommand{\RaggedRight}{%
20271 \ifx\\ \@raggedtwoe@savedcr
20272 \let\\ \@centercr
20273 \fi
20274 \let\@gnewline\@raggedtwoe@gnewline
20275 \if@RTL\rightright\else\leftskip\fi\RaggedRightLeftskip
20276 \@rightskip\RaggedRightRightskip
20277 \if@RTL\leftskip\else\rightright\fi\@rightskip
20278 \parfillskip\RaggedRightParfillskip
20279 \parindent\RaggedRightParindent

```



```

20280 \@raggedtwo@spaceskiptrue
20281 \@raggedtwo@everyselectfont
20282 }
20283 \renewcommand{\justifying}{%
20284 \let\\\@raggedtwo@savedcr
20285 \let\@newline\@raggedtwo@saved@newline
20286 \ifRTL\righskip\else\leftskip\fi\z@
20287 \@rightskip\z@
20288 \ifRTL\leftskip\else\righskip\fi\@rightskip
20289 \parfillskip\JustifyingParfillskip
20290 \parindent\JustifyingParindent
20291 \@raggedtwo@spaceskipfalse
20292 \@raggedtwo@everyselectfont
20293 }
20294 \def\@raggedtwo@raggedrightboxes@opt{%
20295 \renewcommand{\@arrayparboxrestore}{%
20296 \let\if@nbreak\iffalse
20297 \let\if@noskipsec\iffalse
20298 \let\par\@par
20299 \let\-\@dischyph
20300 \let'\@acci\let`\@accii\let\=\@acciii
20301 \parskip\z@skip
20302 \everypar{}%
20303 \linewidth\hsize
20304 \@totalleftmargin\z@
20305 \ifRTL
20306 \RaggedLeft
20307 \else
20308 \RaggedRight
20309 \fi
20310 \lineskip\normallineskip
20311 \baselineskip\normalbaselineskip
20312 \sloppy}%
20313 \let\@raggedtwo@raggedrightboxes@opt\relax
20314 }
20315 \def\@raggedtwo@document@opt{%
20316 \AtBeginDocument{\@raggedtwo@abdhook}%
20317 \@raggedtwo@raggedrightboxes@opt
20318 \@raggedtwo@footmisctrue
20319 \let\@raggedtwo@document@opt\relax
20320 }
20321 \def\@raggedtwo@abdhook{%
20322 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20323 right to left documents and '\string\RaggedRight' for left
20324 to right documents}%
20325 \ifRTL
20326 \RaggedLeft
20327 \else
20328 \RaggedRight
20329 \fi
20330 \@ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
20331 \let\@raggedtwo@abdhook\relax
20332 }
20333 \@ifpackagewith{ragged2e}{raggedrightboxes}{%

```



```

20334 \@raggedtwoe@raggedrightboxes@opt
20335 }{}
20336 \@ifpackagewith{ragged2e}{document}{%
20337   \@raggedtwoe@document@opt
20338 }{}
20339 \let\origin@RaggedLeft=\RaggedLeft
20340 \let\origin@RaggedRight=\RaggedRight
20341 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20342 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

136 File rapport1-xetex-bidi.def

```

20343 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
20344 \renewenvironment{theindex}{%
20345   \if@twocolumn
20346     \@restonecolfalse
20347   \else
20348     \@restonecoltrue
20349   \fi
20350   \columnseprule \z@
20351   \columnsep 35\p@
20352   \twocolumn[\@makeschapterhead{\indexname}]%
20353   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20354   \thispagestyle{plain}\parindent\z@
20355   \parskip\z@ \@plus .3\p@\relax
20356   \let\item\@idxitem
20357 }{%
20358   \if@restonecol\onecolumn\else\clearpage\fi}
20359 \renewcommand*\head@style{%
20360   \interlinepenalty \@M
20361   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20362   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20363 \if@titlepage
20364   \renewenvironment{abstract}{%
20365     \titlepage
20366     \null\vfil
20367     \section*{\SectFont\abstractname}%
20368     \noindent\ignorespaces}
20369   {\par\vfil\null\endtitlepage}
20370 \else
20371   \renewenvironment{abstract}{%
20372     \if@twocolumn
20373       \section*{\abstractname}%
20374     \else
20375       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20376       \section*{\small\SectFont\abstractname}%
20377       \noindent\ignorespaces
20378     \fi}
20379   {\if@twocolumn\else\par\egroup\fi}
20380 \fi
20381 \renewcommand*\regtocline[3]{%
20382   \ifnum #1>\c@tocdepth
20383   \else
20384     \vskip\z@\@plus.2\p@

```



```

20385     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20386     \if@RTL\rightskip\else\leftskip\fi\unitindent
20387     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20388     \parfillskip\z@
20389     \@tempdima\unitindent
20390     \parindent\z@
20391     \leavevmode
20392     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
20393     \hskip 1em \nobreak{\slshape #3}\par
20394     }%
20395   \fi}
20396 \if@oldtoc
20397 \renewcommand*\l@part[2]{%
20398   \ifnum \c@tocdepth >-2\relax
20399     \addpenalty{-\@highpenalty}%
20400     \addvspace{2.25em \@plus\p@}%
20401     \begingroup
20402       \setlength\@tempdima{3em}%
20403       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20404       \parfillskip -\@pnumwidth
20405       {\leavevmode
20406         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20407         \nobreak
20408         \global\@nobreaktrue
20409         \everypar{\global\@nobreakfalse\everypar{}}%
20410       \endgroup
20411   \fi}
20412 \else
20413   \renewcommand*\l@part{%
20414     \ifnum \c@tocdepth >-2\relax
20415       \addpenalty{-\@highpenalty}%
20416       \addvspace{2.25em \@plus \p@}%
20417       \@regtocline{0}%
20418     \fi}
20419 \fi
20420 \if@oldtoc
20421 \renewcommand*\l@chapter[2]{%
20422   \addpenalty{-\@highpenalty}%
20423   \vskip 1.0em \@plus\p@
20424   \setlength\@tempdima{1.5em}%
20425   \begingroup
20426     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20427     \parfillskip -\@pnumwidth
20428     \leavevmode \bfseries
20429     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20430     \hskip -\if@RTL\rightskip\else\leftskip\fi
20431     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20432     \penalty\@highpenalty
20433   \endgroup}
20434 \else
20435   \renewcommand*\l@chapter{\@regtocline{0}}
20436 \fi
20437 \renewcommand*\left@footnoterule{%
20438   \kern-3\p@

```



```

20439 \kern.5\baselineskip
20440 \hrule\@width\unitindent
20441 \kern.4\baselineskip
20442 }
20443 \renewcommand*\right@footnoterule{%
20444 \kern-3\p@
20445 \kern.5\baselineskip
20446 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20447 \kern.4\baselineskip}
20448 \renewenvironment{thebibliography}[1]
20449 {\chapter*{\bibname}%
20450 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20451 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
20452 \bidi@thebibliography@font@hook%
20453 \list{\@biblabel{\@arabic\c@enumiv}}%
20454 {\settowidth\labelwidth{\@biblabel{#1}}%
20455 \leftmargin\labelwidth
20456 \advance\leftmargin\labelsep
20457 \@openbib@code
20458 \usecounter{enumiv}%
20459 \let\p@enumiv\@empty
20460 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20461 \sloppy\clubpenalty4000\widowpenalty4000%
20462 \sfcode\.\@m}
20463 {\def\@noitemerr
20464 {\@latex@warning{Empty `thebibliography' environment}}}%
20465 \endlist}
20466 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20467 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20468 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20469 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20470 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20471 \renewcommand*\theequation{%
20472 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20473 \renewcommand*\thefigure{%
20474 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
20475 \renewcommand*\thetable{%
20476 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
20477 \if@titlepage
20478 \renewcommand*\TitleFont{\rmfamily}
20479 \renewcommand*\maketitle{%
20480 \begin{titlepage}%
20481 \let\footnotesize\small
20482 \let\right@footnoterule\relax
20483 \let\left@footnoterule\relax
20484 \let\textwidth\footnoterule\relax
20485 \let \footnote \thanks
20486 \long\def\@makefnitem##1{\parindent\z@
20487 \def\labelitemi{\textendash}\@revlabeltrue
20488 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20489 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20490 \if@compatibility\setcounter{page}{0}\fi
20491 \null\vfil
20492 \vskip 60\p@

```




```

20493 \begin{center}%
20494 \TitleFont
20495 {\LARGE \def\\{\penalty -\@M}
20496 \if@allcaps
20497 \expandafter\uc@nothanks\@title\thanks\relax
20498 \else
20499 \@title
20500 \fi\par}%
20501 \vskip 3em%
20502 {\large
20503 \lineskip .75em \parindent\z@
20504 \begin{tabular}[t]{c}%
20505 \if@allcaps
20506 \expandafter\uc@authornothanks\@author\and\relax
20507 \else
20508 \@author
20509 \fi
20510 \end{tabular}\par}%
20511 \vskip 1.5em%
20512 {\large
20513 \if@allcaps
20514 \uppercase\expandafter{\@date}%
20515 \else
20516 \@date
20517 \fi\par}%
20518 \end{center}\par
20519 \@thanks
20520 \vfil\null
20521 \end{titlepage}%
20522 \setcounter{footnote}{0}%
20523 \global\let\thanks\relax
20524 \global\let\maketitle\relax
20525 \global\let\@thanks\@empty
20526 \global\let\@author\@empty
20527 \global\let\@title\@empty
20528 \global\let\@date\@empty
20529 \global\let\title\relax
20530 \global\let\author\relax
20531 \global\let\date\relax
20532 \global\let\and\relax
20533 }
20534 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20535 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20536 \futurelet\@tempa\uc@ax}
20537 \def\uc@ax{%
20538 \ifx\@tempa\relax
20539 \else
20540 \\\andname \\\expandafter\uc@authornothanks
20541 \fi}
20542 \def\uc@tx{\ifx\@tempa\relax
20543 \else \expandafter\uc@ty \fi}
20544 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20545 \else
20546 \renewcommand*\maketitle{\par

```



```

20547 \begin{group
20548   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20549   \def\@makefnmark{\rlap{%
20550     \@textsuperscript{\normalfont\@thefnmark}}}%
20551   \long\def\@makefntext{\@xmakefntext{%
20552     \@textsuperscript{\normalfont\@thefnmark}}}%
20553   \if@twocolumn
20554     \ifnum \col@number=\@one
20555       \maketitle
20556     \else
20557       \twocolumn[\maketitle]%
20558     \fi
20559   \else
20560     \newpage
20561     \global\@topnum\z@
20562     \maketitle
20563   \fi
20564   \thispagestyle{plain}\@thanks
20565 \end{group}
20566 \setcounter{footnote}{0}%
20567 \global\let\thanks\relax
20568 \global\let\maketitle\relax
20569 \global\let\@maketitle\relax
20570 \global\let\@thanks\@empty
20571 \global\let\@author\@empty
20572 \global\let\@title\@empty
20573 \global\let\@date\@empty
20574 \global\let\title\relax
20575 \global\let\author\relax
20576 \global\let\date\relax
20577 \global\let\and\relax
20578 }
20579 \def\@maketitle{%
20580   \newpage
20581   \null
20582   \vskip 2em%
20583   \begin{center}%
20584     \let \footnote \thanks
20585     {\LARGE \TitleFont \@title \par}%
20586     \vskip 1.5em%
20587     {\large \TitleFont
20588       \lineskip .5em%
20589       \begin{tabular}[t]{c}%
20590         \@author
20591       \end{tabular}\par}%
20592     \vskip 1em%
20593     {\large \TitleFont \@date}%
20594   \end{center}%
20595   \par
20596   \vskip 1.5em}
20597 \fi

```

137 File rapport3-xetex-bidi.def



```

20598 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
20599 \renewenvironment{theindex}{%
20600   \if@twocolumn
20601     \@restonecolfalse
20602   \else
20603     \@restonecoltrue
20604   \fi
20605   \columnseprule \z@
20606   \columnsep 35\p@
20607   \twocolumn[\@makeschapterhead{\indexname}]%
20608   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20609   \thispagestyle{plain}\parindent\z@
20610   \parskip\z@ \@plus .3\p@\relax
20611   \let\item\@idxitem
20612 }{%
20613   \if@restonecol\onecolumn\else\clearpage\fi}
20614 \if@titlepage
20615 \renewcommand*{\TitleFont{\rmfamily}
20616 \renewcommand*{\maketitle{%
20617   \begin{titlepage}%
20618     \let\footnotesize\small
20619     \let\right@footnoterule\relax
20620     \let\left@footnoterule\relax
20621     \let\textwidth@footnoterule\relax
20622     \let \footnote \thanks
20623     \let \LTRfootnote \LTRthanks
20624     \let \RTLfootnote \RTLthanks
20625     \long\def\@makefntext##1{\parindent\z@
20626       \def\labelitemi{\textendash}\@revlabeltrue
20627       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20628     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20629     \if@compatibility\setcounter{page}{0}\fi
20630     \null\vfil
20631     \vskip 60\p@
20632     \begin{center}%
20633       \TitleFont
20634       {\LARGE \def\\{\penalty -\@M}
20635         \if@allcaps
20636           \expandafter\uc@nothanks\@title\thanks\relax
20637         \else
20638           \@title
20639         \fi\par}%
20640     \vskip 3em%
20641     {\large
20642       \lineskip .75em \parindent\z@
20643       \begin{tabular}[t]{c}%
20644         \if@allcaps
20645           \expandafter\uc@authornothanks\@author\and\relax
20646         \else
20647           \@author
20648         \fi
20649       \end{tabular}\par}%
20650     \vskip 1.5em%
20651     {\large

```



```

20652         \if@allcaps
20653             \uppercase\expandafter{\@date}%
20654         \else
20655             \@date
20656         \fi\par}%
20657     \end{center}\par
20658     \@thanks
20659     \vfil\null
20660 \end{titlepage}%
20661 \setcounter{footnote}{0}%
20662 \global\let\thanks\relax
20663 \global\let\LTRthanks\relax
20664 \global\let\RTLthanks\relax
20665 \global\let\maketitle\relax
20666 \global\let\@thanks\@empty
20667 \global\let\@author\@empty
20668 \global\let\@title\@empty
20669 \global\let\@date\@empty
20670 \global\let\title\relax
20671 \global\let\author\relax
20672 \global\let\date\relax
20673 \global\let\and\relax
20674 }
20675 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20676 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20677     \futurelet\@tempa\uc@ax}
20678 \def\uc@ax{%
20679     \ifx\@tempa\relax
20680     \else
20681         \\\andname \\\expandafter\uc@authornothanks
20682     \fi}
20683 \def\uc@tx{\ifx\@tempa\relax
20684     \else \expandafter\uc@ty \fi}
20685 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20686 \else
20687 \renewcommand*\maketitle{\par
20688     \begin{group}
20689         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20690         \def\@makefnmark{\rlap{%
20691             \@textsuperscript{\normalfont\@thefnmark}}}%
20692         \long\def\@makefntext{\@xmakefntext{%
20693             \@textsuperscript{\normalfont\@thefnmark}}}%
20694         \if@twocolumn
20695             \ifnum \col@number=\@ne
20696                 \@maketitle
20697             \else
20698                 \twocolumn[\@maketitle]%
20699             \fi
20700         \else
20701             \newpage
20702             \global\@topnum\z@
20703             \@maketitle
20704         \fi
20705         \thispagestyle{plain}\@thanks

```



```

20706 \endgroup
20707 \setcounter{footnote}{0}%
20708 \global\let\thanks\relax
20709 \global\let\LTRthanks\relax
20710 \global\let\RTLthanks\relax
20711 \global\let\maketitle\relax
20712 \global\let\@maketitle\relax
20713 \global\let\@thanks\@empty
20714 \global\let\@author\@empty
20715 \global\let\@title\@empty
20716 \global\let\@date\@empty
20717 \global\let\title\relax
20718 \global\let\author\relax
20719 \global\let\date\relax
20720 \global\let\and\relax
20721 }
20722 \def\@maketitle{%
20723 \newpage
20724 \null
20725 \vskip 2em%
20726 \if@titlecentered
20727 \begin{center}%
20728 \let \footnote \thanks
20729 \let \LTRfootnote \LTRthanks
20730 \let \RTLfootnote \RTLthanks
20731 {\LARGE \TitleFont \@title \par}%
20732 \vskip 1.5em%
20733 {\large \TitleFont
20734 \lineskip .5em%
20735 \begin{tabular}[t]{c}%
20736 \@author
20737 \end{tabular}\par}%
20738 \vskip 1em%
20739 {\large \TitleFont \@date}%
20740 \end{center}%
20741 \else
20742 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
20743 {\large \TitleFont \lineskip .5em \tabcolsep\z@
20744 \def\and{%% \begin{tabular} has already started
20745 \end{tabular}\hskip 1em plus .17fil
20746 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
20747 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
20748 \vskip 1em {\large \TitleFont \@date}
20749 \fi
20750 \par
20751 \vskip 1.5em}
20752 \fi
20753 \renewcommand*\@regtocline[3]{%
20754 \ifnum #1>\c@tocdepth
20755 \else
20756 \vskip\z@\@plus.2\p@
20757 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20758 \if@RTL\righskip\else\leftskip\fi\unitindent
20759 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil

```



```

20760 \parfillskip\z@
20761 \@tempdima\unitindent
20762 \parindent\z@
20763 \leavevmode
20764 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
20765 \hskip 1em \nobreak{\slshape #3}\par
20766 }%
20767 \fi}
20768 \if@oldtoc
20769 \renewcommand*\l@part[2]{%
20770 \ifnum \c@tocdepth >-2\relax
20771 \addpenalty{-\@highpenalty}%
20772 \addvspace{2.25em \@plus\p@}%
20773 \begingroup
20774 \setlength\@tempdima{3em}%
20775 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
20776 \parfillskip -\@pnumwidth
20777 {\leavevmode
20778 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20779 \nobreak
20780 \global\@nobreaktrue
20781 \everypar{\global\@nobreakfalse\everypar{}}%
20782 \endgroup
20783 \fi}
20784 \else
20785 \renewcommand*\l@part{%
20786 \ifnum \c@tocdepth >-2\relax
20787 \addpenalty{-\@highpenalty}%
20788 \addvspace{2.25em \@plus \p@}%
20789 \@regtocline{0}%
20790 \fi}
20791 \fi
20792 \if@oldtoc
20793 \renewcommand*\l@chapter[2]{%
20794 \addpenalty{-\@highpenalty}%
20795 \vskip 1.0em \@plus\p@
20796 \setlength\@tempdima{1.5em}%
20797 \begingroup
20798 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
20799 \parfillskip -\@pnumwidth
20800 \leavevmode \bfseries
20801 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
20802 \hskip -\if@RTL\righskip\else\leftskip\fi
20803 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20804 \penalty\@highpenalty
20805 \endgroup}
20806 \else
20807 \renewcommand*\l@chapter{\@regtocline{0}}
20808 \fi
20809 \renewcommand*\head@style{%
20810 \interlinepenalty \@M
20811 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20812 \if@RTL\leftskip\else\righskip\fi=0cm plus .7\hsize\relax}
20813 \if@titlepage

```



```

20814 \renewenvironment{abstract}{%
20815     \titlepage
20816     \null\vfil
20817     \section*{\SectFont\abstractname}%
20818     \noindent\ignorespaces}
20819 {\par\vfil\null\endtitlepage}
20820 \else
20821 \renewenvironment{abstract}{%
20822     \if@twocolumn
20823     \section*{\abstractname}%
20824     \else
20825     \bgroup\ifRTL\leftskip\else\rightskip\fi=\unitindent
20826     \section*{\small\SectFont\abstractname}%
20827     \noindent\ignorespaces
20828     \fi}
20829 {\if@twocolumn\else\par\egroup\fi}
20830 \fi
20831 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20832 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20833 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20834 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20835 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20836 \renewcommand*\thefigure{%
20837     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
20838 \renewcommand*\thetable{%
20839     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20840 \renewcommand*\theequation{%
20841     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20842 \renewenvironment{thebibliography}[1]
20843 {\chapter*{\bibname}%
20844     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20845     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
20846     \bidi@thebibliography@font@hook%
20847     \list{\@biblabel{\@arabic\c@enumiv}}%
20848         {\settowidth\labelwidth{\@biblabel{#1}}%
20849         \leftmargin\labelwidth
20850         \advance\leftmargin\labelsep
20851         \@openbib@code
20852         \usecounter{enumiv}%
20853         \let\p@enumiv\@empty
20854         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20855     \sloppy\clubpenalty4000\widowpenalty4000%
20856     \sfcode`. \@m}
20857 {\def\@noitemerr
20858     {\@latex@warning{Empty `thebibliography' environment}}}%
20859     \endlist}
20860 \renewcommand*\left@footnoterule{%
20861     \kern-3\p@
20862     \kern.5\baselineskip
20863     \hrule\@width\unitindent
20864     \kern.4\baselineskip
20865 }
20866 \renewcommand*\right@footnoterule{%
20867     \kern-3\p@

```



```

20868 \kern.5\baselineskip
20869 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20870 \kern.4\baselineskip}
20871 \renewcommand*\head@style{%
20872     \interlinepenalty \@M
20873     \hyphenpenalty=\@M \exhyphenpenalty=\@M
20874     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

138 File refrep-xetex-bidi.def

```

20875 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
20876 \if@titlepage
20877 \renewcommand\maketitle{\begin{titlepage}%
20878 \let\footnotesize\small
20879 \let\right@footnoterule\relax
20880 \let\left@footnoterule\relax
20881 \let\textwidth@footnoterule\relax
20882 \let\footnote\thanks
20883 \let\LTRfootnote\LTRthanks
20884 \let\RTLfootnote\RTLthanks
20885 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20886 \def\@makefnmark%
20887     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20888 \long\def\@makefntext##1{%
20889     \setpar{\@par
20890         \@tempdima = \hsize
20891         \advance\@tempdima -1em
20892         \parshape \@ne 1em \@tempdima}%
20893     \par\parindent 1em \noindent
20894     \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20895 \null\vfil
20896 \vskip 60\p@
20897 \begin{center}%
20898     {\LARGE \@title \par}%
20899     \vskip 3em%
20900     {\large
20901         \lineskip .75em%
20902         \begin{tabular}[t]{c}%
20903             \@author
20904         \end{tabular}\par}%
20905     \vskip 1.5em%
20906     {\large \@date \par}% % Set date in \large size.
20907 \end{center}\par
20908 \@thanks
20909 \vfil\null
20910 \end{titlepage}%
20911 \setcounter{footnote}{0}%
20912 \global\let\thanks\relax
20913 \global\let\LTRthanks\relax
20914 \global\let\RTLthanks\relax
20915 \global\let\maketitle\relax
20916 \global\let\@thanks\@empty
20917 \global\let\@author\@empty
20918 \global\let\@date\@empty

```




```

20919 \global\let\@title\@empty
20920 \global\let\title\relax
20921 \global\let\author\relax
20922 \global\let\date\relax
20923 \global\let\and\relax
20924 }
20925 \else
20926 \renewcommand\maketitle{\par
20927 \beginingroup
20928 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20929 \def\@makefnmark%
20930 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20931 \long\def\@makefntext##1{%
20932 \setpar{\@par
20933 \tempdima = \hsize
20934 \advance\tempdima -1em
20935 \parshape \@ne 1em \tempdima}%
20936 \par\parindent 1em \noindent
20937 \hb@xt@{\z@\hss\@textsuperscript{\normalfont\@thefnmark}}\,##1}
20938 \if@twocolumn
20939 \ifnum \col@number=\@ne
20940 \maketitle
20941 \else
20942 \twocolumn[\maketitle]%
20943 \fi
20944 \else
20945 \newpage
20946 \global\@topnum\z@ % Prevents figures from going at top of page.
20947 \maketitle
20948 \fi
20949 \thispagestyle{empty}\@thanks
20950 \endgroup
20951 \setcounter{footnote}{0}%
20952 \global\let\thanks\relax
20953 \global\let\LTRthanks\relax
20954 \global\let\RTLthanks\relax
20955 \global\let\maketitle\relax
20956 \global\let\@maketitle\relax
20957 \global\let\@thanks\@empty
20958 \global\let\@author\@empty
20959 \global\let\@date\@empty
20960 \global\let\@title\@empty
20961 \global\let\title\relax
20962 \global\let\author\relax
20963 \global\let\date\relax
20964 \global\let\and\relax
20965 }
20966 \def\@maketitle{%
20967 \newpage
20968 \null
20969 \longthickrule\vskip1.5em%
20970 \let \footnote \thanks
20971 \let \LTRfootnote \LTRthanks
20972 \let \RTLfootnote \RTLthanks

```



```

20973     {\secshape \parskip\z@ \parindent\z@
20974     \Large\bfseries \@title \par}%
20975     \vskip1.5em\longthickrule\vskip1.5em%
20976     {\normalsize
20977     \lineskip .5em%
20978     \begin{flushright}%
20979     {\slshape\@author\par}
20980     \vskip 1em%
20981     {\@date}%
20982     \end{flushright}\par}%
20983     \vskip 1.5em}
20984 \fi
20985 \renewcommand*\l@part[2]{%
20986   \ifnum \c@tocdepth >-2\relax
20987     \addpenalty{-\@highpenalty}%
20988     \addvspace{2.25em \@plus\p}%
20989     \begingroup
20990       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20991       \parfillskip -\@pnumwidth
20992       {\leavevmode
20993       \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
20994       \nobreak
20995       \global\@nobreaktrue
20996       \everypar{\global\@nobreakfalse\everypar{}}%
20997     \endgroup
20998   \fi}
21000 \renewcommand*\l@chapter[2]{%
21001   \ifnum \c@tocdepth >\m@ne
21002     \addpenalty{-\@highpenalty}%
21003     \vskip 1.0em \@plus\p@
21004     \setlength\@tempdima{1.5em}%
21005     \begingroup
21006       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21007       \parfillskip -\@pnumwidth
21008       \leavevmode \bfseries
21009       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21010       \hskip -\if@RTL\rightskip\else\leftskip\fi
21011       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21012       \penalty\@highpenalty
21013     \endgroup
21014   \fi}
21015 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
21016   \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
21017   \hyphenpenalty=2000}
21018 \renewcommand\left@footnoterule{%
21019   \kern-3\p@
21020   \hrule\@width.4\columnwidth
21021   \kern 2.6\p@}
21022 \renewcommand\right@footnoterule{%
21023   \kern-3\p@
21024   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21025   \kern2.6\p@}
21026 \renewcommand\theequation
21027 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}

```



```

21027 \renewcommand\thefigure
21028     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21029 \renewcommand\thetable%
21030     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21031 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
21032 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21033 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
21034 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21035 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21036 \renewenvironment{thebibliography}[1]
21037     {\chapter*{\bibname
21038         \@mkboth{\bibname}{\bibname}}%
21039         \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21040         \bidi@thebibliography@font@hook%
21041         \list{\@biblabel{\@arabic\c@enumiv}}%
21042             {\settowidth\labelwidth{\@biblabel{#1}}%
21043             \leftmargin\labelwidth
21044             \advance\leftmargin\labelsep
21045             \@openbib@code
21046             \usecounter{enumiv}%
21047             \let\p@enumiv\@empty
21048             \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21049             \sloppy
21050             \clubpenalty4000
21051             \@clubpenalty \clubpenalty
21052             \widowpenalty4000%
21053             \sfcode\.\@m}
21054     {\def\@noitemerr
21055         {\@latex@warning{Empty `thebibliography' environment}}%
21056         \endlist}

```

139 File report-xetex-bidi.def

```

21057 \ProvidesFile{report-xetex-bidi.def}[2025/09/04 v1.0 bidi adaptations for standard report cl
21058 \renewenvironment{theindex}
21059     {\if@twocolumn
21060         \@restonecolfalse
21061         \else
21062             \@restonecoltrue
21063         \fi
21064         \columnseprule \z@
21065         \columnsep 35\p@
21066         \twocolumn[\@makeschapterhead{\indexname}]%
21067         \@mkboth{\MakeUppercase\indexname}%
21068             {\MakeUppercase\indexname}%
21069         \thispagestyle{plain}\parindent\z@
21070         \parskip\z@ \@plus .3\p@\relax
21071         \let\item\@idxitem}
21072     {\if@restonecol\onecolumn\else\clearpage\fi}
21073 \if@titlepage
21074 \renewcommand\maketitle{\begin{titlepage}%
21075 \let\footnotesize\small
21076 \let\right@footnoterule\relax
21077 \let\left@footnoterule\relax

```



```

21078 \let\textwidth@footnoterule\relax
21079 \let \footnote \thanks
21080 \let \LTRfootnote \LTRthanks
21081 \let \RTLfootnote \RTLthanks
21082 \null\vfil
21083 \vskip 60\p@
21084 \begin{center}%
21085   {\LARGE \@title \par}%
21086   \vskip 3em%
21087   {\large
21088     \lineskip .75em%
21089     \begin{tabular}[t]{c}%
21090       \@author
21091     \end{tabular}\par}%
21092     \vskip 1.5em%
21093     {\large \@date \par}%           % Set date in \large size.
21094 \end{center}\par
21095 \@thanks
21096 \vfil\null
21097 \end{titlepage}%
21098 \setcounter{footnote}{0}%
21099 \global\let\thanks\relax
21100 \global\let\LTRthanks\relax
21101 \global\let\RTLthanks\relax
21102 \global\let\maketitle\relax
21103 \global\let\@thanks\@empty
21104 \global\let\@author\@empty
21105 \global\let\@date\@empty
21106 \global\let\@title\@empty
21107 \global\let\title\relax
21108 \global\let\author\relax
21109 \global\let\date\relax
21110 \global\let\and\relax
21111 }
21112 \else
21113 \renewcommand\maketitle{\par
21114   \begin{group}
21115     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21116     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21117     \long\def\@makefntext#1{\parindent 1em\noindent
21118       \hb@xt@1.8em{%
21119         \hss\@textsuperscript{\normalfont\@thefnmark}}\#1}%
21120     \if@twocolumn
21121       \ifnum \col@number=\@ne
21122         \@maketitle
21123       \else
21124         \twocolumn[\@maketitle]%
21125       \fi
21126     \else
21127       \newpage
21128       \global\@topnum\z@   % Prevents figures from going at top of page.
21129       \@maketitle
21130     \fi
21131     \thispagestyle{plain}\@thanks

```



```

21132 \endgroup
21133 \setcounter{footnote}{0}%
21134 \global\let\thanks\relax
21135 \global\let\LTRthanks\relax
21136 \global\let\RTLthanks\relax
21137 \global\let\maketitle\relax
21138 \global\let\@maketitle\relax
21139 \global\let\@thanks\@empty
21140 \global\let\@author\@empty
21141 \global\let\@date\@empty
21142 \global\let\@title\@empty
21143 \global\let\title\relax
21144 \global\let\author\relax
21145 \global\let\date\relax
21146 \global\let\and\relax
21147 }
21148 \def\@maketitle{%
21149 \newpage
21150 \null
21151 \vskip 2em%
21152 \begin{center}%
21153 \let \footnote \thanks
21154 \let \LTRfootnote \LTRthanks
21155 \let \RTLfootnote \RTLthanks
21156 {\LARGE \@title \par}%
21157 \vskip 1.5em%
21158 {\large
21159 \lineskip .5em%
21160 \begin{tabular}[t]{c}%
21161 \@author
21162 \end{tabular}\par}%
21163 \vskip 1em%
21164 {\large \@date}%
21165 \end{center}%
21166 \par
21167 \vskip 1.5em}
21168 \fi
21169 \IfPackageLoadedF{tocloft}{%
21170 \renewcommand*\l@part[2]{%
21171 \ifnum \c@tocdepth >-2\relax
21172 \addpenalty{-\@highpenalty}%
21173 \addvspace{2.25em \@plus\p}%
21174 \setlength\@tempdima{3em}%
21175 \begin{group
21176 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21177 \parfillskip -\@pnumwidth
21178 {\leavevmode
21179 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21180 \nobreak
21181 \global\@nobreaktrue
21182 \everypar{\global\@nobreakfalse\everypar{}}%
21183 \end{group
21184 \fi}
21185 \renewcommand*\l@chapter[2]{%

```



```

21186 \ifnum \c@tocdepth >\m@ne
21187 \addpenalty{-\@highpenalty}%
21188 \vskip 1.0em \@plus\p@
21189 \setlength\@tempdima{1.5em}%
21190 \begingroup
21191 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21192 \parfillskip -\@pnumwidth
21193 \leavevmode \bfseries
21194 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21195 \hskip -\if@RTL\rightskip\else\leftskip\fi
21196 #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
21197 \penalty\@highpenalty
21198 \endgroup
21199 \fi}
21200 }
21201 \renewcommand\left@footnoterule{%
21202 \kern-3\p@
21203 \hrule\@width.4\columnwidth
21204 \kern2.6\p@}
21205 \renewcommand\right@footnoterule{%
21206 \kern-3\p@
21207 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21208 \kern2.6\p@}
21209 \renewcommand\theequation
21210 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21211 \renewcommand \thefigure
21212 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21213 \renewcommand \thetable
21214 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21215 \renewcommand \thechapter {\@arabic\c@chapter}
21216 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
21217 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21218 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
21219 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21220 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21221 \def\@makechapterhead#1{%
21222 \vspace*{50\p@}%
21223 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21224 \ifnum \c@secnumdepth >\m@ne
21225 \huge\bfseries \@chapapp\space \thechapter
21226 \par\nobreak
21227 \vskip 20\p@
21228 \fi
21229 \interlinepenalty\@M
21230 \Huge \bfseries #1\par\nobreak
21231 \vskip 40\p@
21232 }}
21233 \def\@makeschapterhead#1{%
21234 \vspace*{50\p@}%
21235 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21236 \normalfont
21237 \interlinepenalty\@M
21238 \Huge \bfseries #1\par\nobreak
21239 \vskip 40\p@

```



```

21240 }}
21241 \IfPackageLoadedF{natbib}{%
21242 \renewenvironment{thebibliography}[1]
21243 {\chapter*{\bibname}%
21244 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21245 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
21246 \bidi@thebibliography@font@hook%
21247 \list{\@biblabel{\@arabic\c@enumiv}}%
21248 {\settowidth\labelwidth{\@biblabel{#1}}%
21249 \leftmargin\labelwidth
21250 \advance\leftmargin\labelsep
21251 \@openbib@code
21252 \usecounter{enumiv}%
21253 \let\p@enumiv\@empty
21254 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21255 \sloppy
21256 \clubpenalty4000
21257 \@clubpenalty \clubpenalty
21258 \widowpenalty4000%
21259 \sfcode`. \@m}
21260 {\def\@noitemerr
21261 {\@latex@warning{Empty `thebibliography' environment}}}%
21262 \endlist}
21263 }

```

140 File rotating-xetex-bidi.def

```

21264 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
21265 \def\end@rotfloat{%
21266 \end{minipage}\end{lrbox}%
21267 \stepcounter{r@tfl@t}%
21268 \rot@label{RF\ther@tfl@t}%
21269 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21270 \edef\@tempa{Adding sideways \c@type\space on page \R@@page\space}
21271 \rot@mess@toks\expandafter{\@tempa}
21272 \wd\rot@float@box\z@
21273 \ht\rot@float@box\z@
21274 \dp\rot@float@box\z@
21275 \vboxL to \textheight{%
21276 \setkeys{Grot}{units=360}%
21277 \if@rot@twoside
21278 \else
21279 \let\R@@page\rot@LR
21280 \fi
21281 \ifthenelse{\isodd{\R@@page}}{%
21282 \if@rot@twoside
21283 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21284 \fi
21285 \vfill
21286 @@line{%
21287 \hskip\rotFPtop
21288 \rotatebox{90}{\box\rot@float@box}%
21289 \hskip\rotFPbot
21290 }%

```



```

21291 }{%
21292   \if@rot@twoside
21293     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}}%
21294   \fi
21295   \@@line{%
21296     \hskip\rotFPbot
21297     \rotatebox{-90}{\box\rot@float@box}%
21298     \hskip\rotFPtop
21299   }%
21300   \vfill
21301 }%
21302 \rot@message{\the\rot@mess@toks}
21303 }%
21304 \end@float
21305 }
21306 \let\endsidewaysfigure\end@rotfloat
21307 \let\endsidewaysstable\end@rotfloat
21308 \def\end@rotdblfloat{%
21309   \end{minipage}\end{lrbox}%
21310   \stepcounter{r@tfl@t}%
21311   \rot@label{RF\ther@tfl@t}%
21312   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21313   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21314   \rot@mess@toks\expandafter{\@tempa}
21315   \@tempdima\ht\rot@float@box
21316   \advance\@tempdima by \dp\rot@float@box
21317   \wd\rot@float@box\z@
21318   \ht\rot@float@box\z@
21319   \dp\rot@float@box\z@
21320   \vboxL to \textheight{%
21321     \setkeys{Grot}{units=360}%
21322     \if@rot@twoside
21323     \else
21324       \let\R@@page\rot@LR
21325     \fi
21326     \ifthenelse{\isodd{\R@@page}}{%
21327       \ifrot@messages
21328         \if@rot@twoside
21329         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}}%
21330     \fi
21331     \fi
21332     \vfill
21333     \@@line{%
21334       \hskip\rotFPtop
21335       \rotatebox{90}{\box\rot@float@box}%
21336       \hskip\rotFPbot
21337     }%
21338   }{%
21339     \ifrot@messages
21340       \if@rot@twoside
21341       \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}}%
21342   \fi
21343   \fi%
21344   \@@line{%

```




```

21345         \hskip\rotFPbot
21346         \rotatebox{-90}{\box\rot@float@box}%
21347         \hskip\rotFPtop
21348     }%
21349     \vfill
21350 }%
21351 \rot@message{\the\rot@mess@toks}%
21352 }%
21353 \end@dblfloat
21354 }
21355 \def\turn#1{%
21356     \Grot@setangle{#1}%
21357     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21358 \def\endturn{%
21359     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21360     \unskip\color@endbox
21361     \Grot@x\z@
21362     \Grot@y\z@
21363     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21364 }
21365 \def\rotate#1{%
21366     \Grot@setangle{#1}%
21367     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21368 \def\endrotate{%
21369     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21370     \unskip\color@endbox
21371     \Grot@x\z@
21372     \Grot@y\z@
21373     \wd0\z@\dp0\z@\ht0\z@
21374     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21375 }
21376 \def\turnbox#1#2{%
21377     \Grot@setangle{#1}%
21378     \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
21379     \Grot@x\z@\Grot@y\z@
21380     \wd0\z@\dp0\z@\ht0\z@
21381     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21382 }
21383 \def\sideways{%
21384     \Grot@setangle{90}%
21385     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21386 \def\endsideways{%
21387     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21388     \unskip\color@endbox
21389     \Grot@x\z@
21390     \Grot@y\z@
21391     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21392 }

```

141 File `scrartcl-xetex-bidi.def`

```

21393 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
21394 \newcommand{\scr@saved@LTRfootnotetext}{}
21395 \newcommand{\scr@saved@RTLfootnotetext}{}

```



```

21396 \let\scr@saved@footnotetext\@footnotetext
21397 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21398 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21399 \renewcommand{\@footnotetext}[1]{%
21400   \scr@saved@footnotetext{#1}%
21401   \csname FN@mfb@prepare\endcsname
21402 }
21403 \renewcommand{\@LTRfootnotetext}[1]{%
21404   \scr@saved@LTRfootnotetext{#1}%
21405   \csname FN@mfb@prepare\endcsname
21406 }
21407 \renewcommand{\@RTLfootnotetext}[1]{%
21408   \scr@saved@RTLfootnotetext{#1}%
21409   \csname FN@mfb@prepare\endcsname
21410 }
21411 \renewcommand\deffootnote[4][1]{%
21412   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21413     \long\def\@makefnmark##1{%
21414       \ExecuteDoHook{footnote/text/begin}%
21415       \raggedfootnote
21416       \if@RTL
21417         \rightskip
21418       \else
21419         \leftskip
21420       \fi
21421       #2
21422       \l@addto@macro\@trivlist{%
21423         \ifnum\@listdepth=\@ne
21424           \if@RTL
21425             \advance\rightmargin #2\relax
21426           \else
21427             \advance\leftmargin #2\relax
21428           \fi
21429         \fi
21430       }%
21431       \parindent #3\noindent
21432       \IfArgIsEmpty{#1}{-}{%
21433         \hskip \dimexpr #1-#2\relax
21434       }%
21435       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21436       \ExecuteDoHook{footnote/text/end}%
21437     }%
21438   \else
21439     \ClassInfo{\KOMAClassName}{%
21440       Using old \string\@makefnmark\space due to compatibility
21441       level\MessageBreak
21442       less than 3.22}%
21443     \long\def\@makefnmark##1{%
21444       \setlength{\@tempdimc}{#3}%
21445       \def\@tempa{#1}\ifx\@tempa\@empty
21446         \@setpar{\@@par
21447           \@tempdima = \hsize
21448           \addtolength{\@tempdima}{-#2}%
21449           \if@RTL

```



```

21450         \parshape \@ne \z@ \@tempdima
21451     \else
21452         \parshape \@ne #2 \@tempdima
21453     \fi}%
21454 \else
21455     \addtolength{\@tempdimc}{#2}%
21456     \addtolength{\@tempdimc}{-#1}%
21457     \@setpar{\@par
21458         \@tempdima = \hsize
21459         \addtolength{\@tempdima}{-#1}%
21460         \@tempdimb = \hsize
21461         \addtolength{\@tempdimb}{-#2}%
21462         \if@RTL
21463             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21464         \else
21465             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21466         \fi
21467     }%
21468 \fi
21469 \par
21470 \parindent\@tempdimc\noindent
21471 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21472 }%
21473 \fi
21474 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21475 }
21476 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21477 \renewcommand*\left@footnoterule{%
21478     \normalsize\ftn@rule@test@values
21479     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21480     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21481     {\usekomafont{footnoterule}{%
21482         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21483     \kern 2.6\p@}
21484 \renewcommand*\right@footnoterule{%
21485     \normalsize\ftn@rule@test@values
21486     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21487     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21488     {\usekomafont{footnoterule}{%
21489         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21490         \kern 2.6\p@}
21491 \renewcommand*\maketitle[1][1]{%
21492     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21493     \else
21494         \def\and{%
21495             \end{tabular}%
21496             \hskip 1em \@plus.17fil%
21497             \begin{tabular}[t]{c}%
21498         }%
21499     \fi
21500     \if@titlepage
21501         \begin{titlepage}
21502         \setcounter{page}{%
21503             #1%

```



```

21504 }%
21505 \if@titlepageiscoverpage
21506   \edef\titlepage@restore{%
21507     \noexpand\endgroup
21508     \noexpand\global\noexpand\@colht\the\@colht
21509     \noexpand\global\noexpand\@colroom\the\@colroom
21510     \noexpand\global\vsizethe\vsizethe
21511     \noexpand\global\noexpand\@titlepageiscoverpagefalse
21512     \noexpand\let\noexpand\titlepage@restore\noexpand\relax
21513   }%
21514   \beginngroup
21515   \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21516   \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21517   \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21518   \textwidth=\dimexpr
21519   \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21520   \textheight=\dimexpr
21521   \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21522   \headheight=0pt
21523   \headsep=0pt
21524   \footskip=\baselineskip
21525   \@colht=\textheight
21526   \@colroom=\textheight
21527   \vsizethe\textheight
21528   \columnwidth=\textwidth
21529   \hsizethe\columnwidth
21530   \linewidth=\hsizethe
21531 \else
21532   \let\titlepage@restore\relax
21533 \fi
21534 \let\footnotesize\small
21535 \let\right@footnoterule\relax
21536 \let\left@footnoterule\relax
21537 \let\textwidth@footnoterule\relax
21538 \let\footnote\thanks
21539 \let\LTRfootnote\LTRthanks
21540 \let\RTLfootnote\RTLthanks
21541 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21542 \let\@oldmakefnmark\@makefnmark
21543 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21544 \ifx\@extratitle\@empty
21545   \ifx\@frontispiece\@empty
21546   \else
21547     \if@twoside\mbox{}\next@tpage\fi
21548     \noindent\@frontispiece\next@tdpage
21549   \fi
21550 \else
21551   \noindent\@extratitle
21552   \ifx\@frontispiece\@empty
21553   \else
21554     \next@tpage
21555     \noindent\@frontispiece
21556   \fi
21557   \next@tdpage

```



```

21558 \fi
21559 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@update relative
21560 \ifx\@titlehead\@empty \else
21561 \begin{minipage}[t]{\textwidth}%
21562 \usekomafont{titlehead}{\@titlehead\par}%
21563 \end{minipage}\par
21564 \fi
21565 \null\vfill
21566 \begin{center}
21567 \ifx\@subject\@empty \else
21568 {\usekomafont{subject}{\@subject\par}}%
21569 \vskip 3em
21570 \fi
21571 {\usekomafont{title}{\huge \@title\par}}%
21572 \vskip 1em
21573 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21574 \vskip 2em
21575 {%
21576 \usekomafont{author}{%
21577 \lineskip 0.75em
21578 \begin{tabular}[t]{c}
21579 \@author
21580 \end{tabular}\par
21581 }%
21582 }%
21583 \vskip 1.5em
21584 {\usekomafont{date}{\@date \par}}%
21585 \vskip \z@ \@plus3fill
21586 {\usekomafont{publishers}{\@publishers \par}}%
21587 \vskip 3em
21588 \end{center}\par
21589 \@thanks\global\let\@thanks\@empty
21590 \vfill\null
21591 \if@twoside
21592 \@tempswatrue
21593 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21594 \else
21595 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21596 \@tempswafalse
21597 \fi\fi
21598 \fi
21599 \if@tempswa
21600 \next@tpage
21601 \begin{minipage}[t]{\textwidth}
21602 \@uppertitleback
21603 \end{minipage}\par
21604 \vfill
21605 \begin{minipage}[b]{\textwidth}
21606 \@lowertitleback
21607 \end{minipage}\par
21608 \@thanks\global\let\@thanks\@empty
21609 \fi
21610 \else
21611 \ifx\@uppertitleback\@empty\else

```



```

21612         \ClassWarning{\KOMAClassName}{%
21613             non empty \string\uppertitleback\space ignored
21614             by \string\maketitle\MessageBreak
21615             in `twoside=false' mode%
21616         }%
21617     \fi
21618     \ifx\@lowertitleback\@empty\else
21619         \ClassWarning{\KOMAClassName}{%
21620             non empty \string\lowertitleback\space ignored
21621             by \string\maketitle\MessageBreak
21622             in `twoside=false' mode%
21623         }%
21624     \fi
21625 \fi
21626 \ifx\@dedication\@empty
21627 \else
21628     \next@tdpage\null\vfill
21629     {\centering\usekomafont{dedication}{\@dedication \par}}%
21630     \vskip \z@ \@plus3fill
21631     \@thanks\global\let\@thanks\@empty
21632     \cleardoubleemptypage
21633 \fi
21634 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21635 \end{titlepage}
21636 \else
21637     \par
21638     \@tempcnta=%
21639     #1%
21640     \relax\ifnum\@tempcnta=1\else
21641         \ClassWarning{\KOMAClassName}{%
21642             Optional argument of \string\maketitle\space ignored\MessageBreak
21643             in `titlepage=false' mode%
21644         }%
21645     \fi
21646     \ifx\@uppertitleback\@empty\else
21647         \ClassWarning{\KOMAClassName}{%
21648             non empty \string\uppertitleback\space ignored
21649             by \string\maketitle\MessageBreak
21650             in `titlepage=false' mode%
21651         }%
21652     \fi
21653     \ifx\@lowertitleback\@empty\else
21654         \ClassWarning{\KOMAClassName}{%
21655             non empty \string\lowertitleback\space ignored
21656             by \string\maketitle\MessageBreak
21657             in `titlepage=false' mode%
21658         }%
21659     \fi
21660     \begingroup
21661         \let\titlepage@restore\relax
21662         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21663         \let\@oldmakefnmark\@makefnmark
21664         \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21665         \next@tdpage

```



```

21666 \if@twocolumn
21667 \ifnum \col@number=\@ne
21668 \ifx\@extratitle\@empty
21669 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21670 \else
21671 \@makeextratitle
21672 \fi
21673 \ifx\@frontispiece\@empty
21674 \ifx\@extratitle\@empty\else\next@tdpage\fi
21675 \else
21676 \next@tpage
21677 \@makefrontispiece
21678 \next@tdpage
21679 \fi
21680 \@maketitle
21681 \else
21682 \ifx\@extratitle\@empty
21683 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21684 \else
21685 \twocolumn[\@makeextratitle]%
21686 \fi
21687 \ifx\@frontispiece\@empty
21688 \ifx\@extratitle\@empty\else\next@tdpage\fi
21689 \else
21690 \next@tpage
21691 \twocolumn[\@makefrontispiece]%
21692 \next@tdpage
21693 \fi
21694 \twocolumn[\@maketitle]%
21695 \fi
21696 \else
21697 \ifx\@extratitle\@empty
21698 \ifx\@frontispiece\@empty\else \mbox{}\fi
21699 \else
21700 \@makeextratitle
21701 \fi
21702 \ifx\@frontispiece\@empty
21703 \ifx\@extratitle\@empty\else\next@tdpage\fi
21704 \else
21705 \next@tpage
21706 \@makefrontispiece
21707 \next@tdpage
21708 \fi
21709 \@maketitle
21710 \fi
21711 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21712 \@thanks\global\let\@thanks\@empty
21713 \endgroup
21714 \fi
21715 \setcounter{footnote}{0}%
21716 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21717 \let\thanks\relax
21718 \let\LTRthanks\relax
21719 \let\RTLthanks\relax

```



```

21720 \let\maketitle\relax
21721 \let\@maketitle\relax
21722 \global\let\@thanks\@empty
21723 \global\let\@author\@empty
21724 \global\let\@date\@empty
21725 \global\let\@title\@empty
21726 \global\let\@subtitle\@empty
21727 \global\let\@extratitle\@empty
21728 \global\let\@frontispiece\@empty
21729 \global\let\@titlehead\@empty
21730 \global\let\@subject\@empty
21731 \global\let\@publishers\@empty
21732 \global\let\@uppertitleback\@empty
21733 \global\let\@lowertitleback\@empty
21734 \global\let\@dedication\@empty
21735 \global\let\author\relax
21736 \global\let\title\relax
21737 \global\let\extratitle\relax
21738 \global\let\titlehead\relax
21739 \global\let\subject\relax
21740 \global\let\publishers\relax
21741 \global\let\uppertitleback\relax
21742 \global\let\lowertitleback\relax
21743 \global\let\dedication\relax
21744 \global\let\date\relax
21745 \fi
21746 \global\let\and\relax
21747 }%
21748 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21749 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
21750 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21751 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
21752 \renewcommand*\thesubsubsection{%%
21753 \thesubsection\@SepMark\@arabic\c@subsubsection
21754 }
21755 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21756 \renewcommand*\thesubparagraph{%%
21757 \theparagraph\@SepMark\@arabic\c@subparagraph
21758 }
21759 \renewenvironment{thebibliography}[1]{%
21760 \if@bib@break@
21761 \bib@beginhook
21762 \else
21763 \bib@heading
21764 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21765 \noindent\bibpreamble\par\nobreak
21766 \fi\fi
21767 \bib@beginhook
21768 \bib@before@hook
21769 \fi
21770 \renewcommand*\BreakBibliography}[1]{%
21771 \@bib@break
21772 \end{thebibliography}%
21773 \begingroup ##1\endgroup

```




```

21774 \begin{thebibliography}{#1}
21775 }%
21776 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21777 \bidi@thebibliography@font@hook%
21778 \list{%
21779 \@biblabel{\@arabic\c@enumiv}%
21780 }{%
21781 \settowidth\labelwidth{\@biblabel{#1}}%
21782 \leftmargin\labelwidth
21783 \advance\leftmargin\labelsep
21784 \@openbib@code
21785 \if@bib@break@
21786 \edef\@tempa{%
21787 \noexpand\usecounter{enumiv}%
21788 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21789 }\@tempa
21790 \no@bib@break
21791 \else
21792 \usecounter{enumiv}%
21793 \fi
21794 \let\p@enumiv\@empty
21795 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21796 }%
21797 \sloppy\clubpenalty4000 \widowpenalty4000
21798 \sfcode`\.=\@m
21799 }{%
21800 \if@bib@break@
21801 \def\@noitemerr{%
21802 \@latex@warning{%
21803 \string\BreakBibliography\space at begin of `thebibliography'
21804 environment\MessageBreak
21805 or following \string\BreakBibliography}%
21806 }%
21807 \else
21808 \def\@noitemerr{%
21809 \@latex@warning{%
21810 Empty `thebibliography' environment or
21811 \string\BreakBibliography\MessageBreak
21812 before end of `thebibliography' environment}%
21813 }%
21814 \fi
21815 \endlist
21816 \if@bib@break@
21817 \else
21818 \bib@after@hook
21819 \let\bib@before@hook\@empty
21820 \let\bib@after@hook\@empty
21821 \fi
21822 \bib@endhook
21823 }
21824 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21825 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21826 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21827 \renewcommand\marginline[1]{%

```



```

21828 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21829 }
21830 \renewcommand{\@@makecaption}[3]{%
21831   \cap@margin
21832   \begingroup
21833     \ifonelinecaptions
21834       \def\stepcounter##1{\advance\value{##1}\@ne}%
21835       \let\refstepcounter\stepcounter
21836       \let\label\@gobble
21837       \let\@footnotetext=\@gobble
21838       \let\@LTRfootnotetext=\@gobble
21839       \let\@RTLfootnotetext=\@gobble
21840       \let\hypertarget\@gobbletwo
21841       \edef\xnewline{%
21842         \unexpanded{\ClassInfo{\KOMAClassName}{%
21843           Workaround for not recommended usage of \string\\ or\MessageBreak
21844           \string\newline in caption text
21845         }}%
21846         \hspace*{\linewidth}\hspace{1sp}%
21847       }%
21848       \unexpanded\expandafter{\@xnewline}%
21849     }%
21850     \edef\xcentercr{%
21851       \unexpanded{\ClassInfo{\KOMAClassName}{%
21852         Workaround for not recommended usage of \string\\ or\MessageBreak
21853         \string\newline in caption text
21854       }}%
21855       \hspace*{\linewidth}\hspace{1sp}%
21856     }%
21857     \unexpanded\expandafter{\@xcentercr}%
21858   }%
21859   \settowidth{\@tempdima}{\scr@@makesinglelinecaption{#1}{#2}{#3}}%
21860   \ifdim\@tempdima>\cap@width
21861     \aftergroup\scr@makemultilinecaption
21862   \else
21863     \aftergroup\scr@makesinglelinecaption
21864   \fi
21865   \else
21866     \aftergroup\scr@makemultilinecaption
21867   \fi
21868 \endgroup
21869 {#1}{#2}{#3}%
21870 }
21871 \renewcommand{\scr@makesinglelinecaption}[3]{%
21872   {%
21873     \usefontofkomafont{caption}{%
21874       \hb@xt@{\hsize}{%
21875         \cap@left
21876         \if@RTL
21877           \beginR
21878         \fi
21879         \scr@@makesinglelinecaption{#1}{#2}{#3}%
21880         \if@RTL
21881           \endR

```



```

21882         \fi
21883         \cap@right
21884     }\par\kern\dp\strutbox%
21885     }%
21886 }\kern-\dp\strutbox
21887 }
21888 \renewcommand{\@makecaption}[2]{%
21889     \if@captionabove
21890         \vskip\belowcaptionskip
21891     \else
21892         \vskip\abovecaptionskip
21893     \fi
21894     \@makecaption\@firstofone{#1}{#2}%
21895     \if@captionabove
21896         \vskip\abovecaptionskip
21897     \else
21898         \vskip\belowcaptionskip
21899     \fi
21900 }
21901
21902 \renewcommand{\scr@makesinglelinecaption}[3]{%
21903     {\usekomafont{caption}{\strut\ignorespaces
21904         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21905     \ignorespaces #3\unskip}}%
21906 }
21907
21908 \renewcommand{\scr@makemultilinecaption}[3]{%
21909     {%
21910         \usefontofkomafont{caption}{%
21911             \hb@xt@\hsize{%
21912                 \cap@left
21913                 \vbox{\hsize\cap@width\linewidth\hsize
21914                     \scr@ifundefinedorrelax{@captype}{%
21915                         \ClassWarning{\KOMAClassName}{%
21916                             '\string\caption' outside float.\MessageBreak
21917                             Seems you are using '\string\caption' outside a
21918                             float.\MessageBreak
21919                             Maybe you are using a package that uses
21920                             '\string\@makecaption'\MessageBreak
21921                             without setting '\string\@captype' before.\MessageBreak
21922                             Because I cannot detect the caption type, I'm using\MessageBreak
21923                             the empty one.%
21924                         }%
21925                         \let\@captype\@empty
21926                     }{}%
21927                     \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
21928                         \@nameuse{ragged\@captype caption}%
21929                     }%
21930                     \ifdofullc@p
21931                         \@hangfrom{%
21932                             \strut
21933                             \scr@smashdp{%
21934                                 #1{%
21935                                     \usekomafont{caption}{%

```



```

21936         \usekomafont{captionlabel}{#2\captionformat}%
21937     }%
21938 }%
21939 }%
21940 }%
21941 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21942 \else
21943 \ifdim\cap@indent<\z@
21944 \strut
21945 #1{%
21946     {\usekomafont{caption}{%
21947         \usekomafont{captionlabel}{#2\captionformat}%
21948     }}%
21949 }\par}%
21950 \noindent{{\usekomafont{caption}{%
21951     \hspace*{-\cap@indent}#3\scr@endstrut
21952 }}\par}%
21953 \else
21954 \if@capbreak
21955 \strut
21956 #1{%
21957     {\usekomafont{caption}{%
21958         \usekomafont{captionlabel}{#2\captionformat}%
21959     }}%
21960 }\par}%
21961 \noindent\@hangfrom{\hspace*{\cap@indent}}%
21962 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21963 \else
21964 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21965 {%
21966     \hspace{-\cap@indent}%
21967     \scr@smashdp{%
21968         #1{\usekomafont{caption}{%
21969             \usekomafont{captionlabel}{#2\captionformat}%
21970         }}%
21971     }%
21972 }%
21973 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21974 }%
21975 \fi
21976 \fi
21977 \fi
21978 }%
21979 \cap@right
21980 }\par\kern\dp\strutbox
21981 }%
21982 }\kern-\dp\strutbox
21983 }
21984
21985 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21986 \if@komalongtable
21987 \renewcommand{LT@makecaption}[3]{%
21988 \noalign{%
21989 \if@captionabove

```



```

21990         \vskip\belowcaptionskip
21991     \else
21992         \vskip\abovecaptionskip
21993     \fi
21994 }%
21995 \LT@mcol\LT@cols c{%
21996     \hbox to\z@{\hss\parbox[t]{\linewidth{%
21997         \def\@capytype{table}%
21998         \@makecaption{#1}{#2}{#3}%
21999         \endgraf
22000         \if@captionabove
22001             \vskip\abovecaptionskip
22002         \else
22003             \vskip\belowcaptionskip
22004         \fi
22005     }}%
22006     \hss
22007 }%
22008 }%
22009 }%
22010 \renewcommand*{\scr@LT@array}{}%
22011 \let\scr@LT@array=\LT@array
22012 \renewcommand*{\LT@array}{%
22013     \let\scr@caption=\LT@caption
22014     \def\captionabove{\noalign{\global\@captionabovetrue}%
22015         \scr@caption}%
22016     \def\captionbelow{\noalign{\global\@captionabovetrue}%
22017         \scr@caption}%
22018     \if@tablecaptionabove
22019         \let\LT@caption=\captionabove
22020     \else
22021         \let\LT@caption=\captionbelow
22022     \fi
22023     \scr@LT@array
22024 }%
22025 \ClassInfo{\KOMAClassName}{%
22026     longtable captions redefined%
22027 }%
22028 \fi
22029 }
22030
22031 \CloneTOCEntryStyle{tocline}{part}
22032 \TOCEntryStyleStartInitCode{part}{%
22033     \expandafter\renewcommand%
22034     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22035     \expandafter\renewcommand%
22036     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22037     \expandafter\renewcommand%
22038     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22039         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22040     \expandafter\renewcommand\expandafter*%
22041     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22042 }
22043

```



```

22044 \CloneTOCEntryStyle{tocline}{section}
22045 \TOCEntryStyleStartInitCode{section}{%
22046   \expandafter\renewcommand%
22047   \csname scr@tso@#1@linefill\endcsname{%
22048     \if@sectionentrywithdots
22049       {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22050     \else
22051       \hfill
22052     \fi
22053   }%
22054   \expandafter\renewcommand%
22055   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}}%
22056   \expandafter\renewcommand%
22057   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
22058     \expandafter\renewcommand\expandafter*%
22059     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}}}%
22060 }
22061
22062 \CloneTOCEntryStyle{tocline}{subsection}
22063 \TOCEntryStyleStartInitCode{subsection}{%
22064   \expandafter\renewcommand%
22065   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22066   \expandafter\renewcommand%
22067   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22068     {\normalfont\normalcolor ##1}}}%
22069 }
22070
22071 \CloneTOCEntryStyle{subsection}{default}
22072
22073 \DeclareSectionCommand[%
22074   style=section,%
22075   level=1,%
22076   indent=\z@,%
22077   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22078   afterskip=2.3ex \@plus.2ex,%
22079   tocstyle=section,%
22080   tocindent=0pt,%
22081   tocnumwidth=1.5em%
22082 ]{section}
22083 \DeclareSectionCommand[%
22084   style=part,%
22085   level=\z@,%
22086   tocstyle=part,%
22087   toclevel=\m@ne,%
22088   tocindent=\z@,%
22089   tocnumwidth=2em%
22090 ]{part}
22091 \DeclareSectionCommand[%
22092   style=section,%
22093   level=2,%
22094   indent=\z@,%
22095   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22096   afterskip=1.5ex \@plus .2ex,%
22097   tocstyle=subsection,%

```



```

22098   tocindent=1.5em,%
22099   tocnumwidth=2.3em%
22100 ]{subsection}
22101 \DeclareSectionCommand[%
22102   style=section,%
22103   level=3,%
22104   indent=\z@,%
22105   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22106   afterskip=1.5ex \@plus .2ex,%
22107   tocstyle=subsection,%
22108   tocindent=3.8em,%
22109   tocnumwidth=3.2em%
22110 ]{subsubsection}
22111 \DeclareSectionCommand[%
22112   style=section,%
22113   level=4,%
22114   indent=\z@,%
22115   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
22116   afterskip=-1em,%
22117   tocstyle=subsection,%
22118   tocindentfollows=subsubsection,%
22119   tocindent=7.0em,%
22120   tocnumwidth=4.1em%
22121 ]{paragraph}
22122 \DeclareSectionCommand[%
22123   style=section,%
22124   level=5,%
22125   indent=\scr@parindent,%
22126   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
22127   afterskip=-1em,%
22128   tocstyle=subsection,%
22129   tocindent=10em,%
22130   tocnumwidth=5em%
22131 ]{subparagraph}

```

142 File scrbook-xetex-bidi.def

```

22132 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
22133 \newcommand{\scr@saved@LTRfootnotetext}{}
22134 \newcommand{\scr@saved@RTLfootnotetext}{}
22135 \let\scr@saved@footnotetext\@footnotetext
22136 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22137 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22138 \renewcommand{\@footnotetext}[1]{%
22139   \scr@saved@footnotetext{#1}%
22140   \csname FN@mf@prepare\endcsname
22141 }
22142 \renewcommand{\@LTRfootnotetext}[1]{%
22143   \scr@saved@LTRfootnotetext{#1}%
22144   \csname FN@mf@prepare\endcsname
22145 }
22146 \renewcommand{\@RTLfootnotetext}[1]{%
22147   \scr@saved@RTLfootnotetext{#1}%
22148   \csname FN@mf@prepare\endcsname

```



```

22149 }
22150 \renewcommand\deffootnote[4] [] {%
22151   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22152     \long\def\@makefntext##1{%
22153       \ExecuteDoHook{footnote/text/begin}%
22154       \raggedfootnote
22155       \if@RTL
22156         \rightskip
22157       \else
22158         \leftskip
22159       \fi
22160       #2
22161       \l@addto@macro\@trivlist{%
22162         \ifnum\@listdepth=\@one\advance
22163           \if@RTL
22164             \rightmargin #2\relax
22165           \else
22166             \leftmargin #2\relax
22167           \fi
22168         \fi
22169       }%
22170       \parindent #3\noindent
22171       \IfArgIsEmpty{#1}{}%
22172       \hskip \dimexpr #1-#2\relax
22173     }%
22174     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22175     \ExecuteDoHook{footnote/text/end}%
22176   }%
22177 \else
22178   \ClassInfo{\KOMAClassName}{%
22179     Using old \string\@makefntext\space due to compatibility
22180     level\MessageBreak
22181     less than 3.22}%
22182   \long\def\@makefntext##1{%
22183     \setlength{\@tempdimc}{#3}%
22184     \def\@tempa{#1}\ifx\@tempa\@empty
22185       \@setpar{\@par
22186         \@tempdima = \hspace
22187         \addtolength{\@tempdima}{-#2}%
22188         \if@RTL
22189           \parshape \@one \z@ \@tempdima
22190         \else
22191           \parshape \@one #2 \@tempdima
22192         \fi
22193       }%
22194     \else
22195       \addtolength{\@tempdimc}{#2}%
22196       \addtolength{\@tempdimc}{-#1}%
22197       \@setpar{\@par
22198         \@tempdima = \hspace
22199         \addtolength{\@tempdima}{-#1}%
22200         \@tempdimb = \hspace
22201         \addtolength{\@tempdimb}{-#2}%
22202         \if@RTL

```




```

22203         \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22204     \else
22205         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22206     \fi
22207 }%
22208 \fi
22209 \par
22210 \parindent\@tempdimc\noindent
22211 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22212 }%
22213 \fi
22214 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22215 }
22216 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22217 \renewcommand*\left@footnoterule{%
22218     \normalsize\ftn@rule@test@values
22219     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22220     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22221     {\usekomafont{footnoterule}{%
22222         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22223     \kern 2.6\p@}
22224 \renewcommand*\right@footnoterule{%
22225     \normalsize\ftn@rule@test@values
22226     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22227     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22228     {\usekomafont{footnoterule}{%
22229         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
22230     \kern 2.6\p@}
22231 \renewcommand*\maketitle[1][1]{%
22232     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22233     \else
22234         \def\and{%
22235             \end{tabular}%
22236             \hskip 1em \@plus.17fil%
22237             \begin{tabular}[t]{c}%
22238         }%
22239     \fi
22240     \if@titlepage
22241         \begin{titlepage}
22242             \setcounter{page}{%
22243                 #1%
22244             }%
22245             \if@titlepageiscoverpage
22246                 \edef\tITLEPAGE@restore{%
22247                     \noexpand\endgroup
22248                     \noexpand\global\noexpand\@colht\the\@colht
22249                     \noexpand\global\noexpand\@colroom\the\@colroom
22250                     \noexpand\global\vsizethe\vsizethe
22251                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
22252                     \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
22253                 }%
22254                 \begingroup
22255                 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22256                 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax

```



```

22257      \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22258      \textwidth=\dimexpr
22259      \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
22260      \textheight=\dimexpr
22261      \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
22262      \headheight=0pt
22263      \headsep=0pt
22264      \footskip=\baselineskip
22265      \@colht=\textheight
22266      \@colroom=\textheight
22267      \vsize=\textheight
22268      \columnwidth=\textwidth
22269      \hsize=\columnwidth
22270      \linewidth=\hsize
22271      \else
22272        \let\titlepage@restore\relax
22273      \fi
22274      \let\footnotesize\small
22275      \let\right@footnoterule\relax
22276      \let\left@footnoterule\relax
22277      \let\textwidth@footnoterule\relax
22278      \let\footnote\thanks
22279      \let\LTRfootnote\LTRthanks
22280      \let\RTLfootnote\RTLthanks
22281      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22282      \let\oldmakefnmark\makefnmark
22283      \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}%
22284      \ifx\@extratitle\@empty
22285        \ifx\@frontispiece\@empty
22286          \else
22287            \if@twoside\mbox{}\next@tpage\fi
22288            \noindent\@frontispiece\next@tdpage
22289          \fi
22290        \else
22291          \noindent\@extratitle
22292          \ifx\@frontispiece\@empty
22293            \else
22294              \next@tpage
22295              \noindent\@frontispiece
22296            \fi
22297            \next@tdpage
22298          \fi
22299      \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
22300      \ifx\@titlehead\@empty \else
22301        \begin{minipage}[t]{\textwidth}%
22302          \usekomafont{titlehead}{\@titlehead\par}%
22303        \end{minipage}\par
22304      \fi
22305      \null\vfill
22306      \begin{center}
22307        \ifx\@subject\@empty \else
22308          {\usekomafont{subject}{\@subject\par}}%
22309          \vskip 3em
22310        \fi

```



```

22311      {\usekomafont{title}{\huge \@title\par}}%
22312      \vskip 1em
22313      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22314      \vskip 2em
22315      {%
22316          \usekomafont{author}{%
22317              \lineskip 0.75em
22318              \begin{tabular}[t]{c}
22319                  \@author
22320              \end{tabular}\par
22321          }%
22322      }%
22323      \vskip 1.5em
22324      {\usekomafont{date}{\@date \par}}%
22325      \vskip \z@ \@plus3fill
22326      {\usekomafont{publishers}{\@publishers \par}}%
22327      \vskip 3em
22328      \end{center}\par
22329      \@thanks\global\let\@thanks\@empty
22330      \vfill\null
22331      \if@twoside
22332          \@tempwatrue
22333          \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
22334          \else
22335              \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22336                  \@tempwafalse
22337              \fi\fi
22338          \fi
22339          \if@tempswa
22340              \next@tpage
22341              \begin{minipage}[t]{\textwidth}
22342                  \@uppertitleback
22343              \end{minipage}\par
22344              \vfill
22345              \begin{minipage}[b]{\textwidth}
22346                  \@lowertitleback
22347              \end{minipage}\par
22348              \@thanks\global\let\@thanks\@empty
22349          \fi
22350      \else
22351          \ifx\@uppertitleback\@empty\else
22352              \ClassWarning{\KOMAClassName}{%
22353                  non empty \string\uppertitleback\space ignored
22354                  by \string\maketitle\MessageBreak
22355                  in `twoside=false' mode%
22356              }%
22357          \fi
22358          \ifx\@lowertitleback\@empty\else
22359              \ClassWarning{\KOMAClassName}{%
22360                  non empty \string\lowertitleback\space ignored
22361                  by \string\maketitle\MessageBreak
22362                  in `twoside=false' mode%
22363              }%
22364          \fi

```



```

22365 \fi
22366 \ifx\@dedication\@empty
22367 \else
22368 \next@tdpage\null\vfill
22369 {\centering\usekomafont{dedication}{\@dedication \par}}%
22370 \vskip \z@ \@plus3fill
22371 \@thanks\global\let\@thanks\@empty
22372 \cleardoubleemptypage
22373 \fi
22374 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22375 \end{titlepage}
22376 \else
22377 \par
22378 \@tempcnta=%
22379 #1%
22380 \relax\ifnum\@tempcnta=1\else
22381 \ClassWarning{\KOMAClassName}{%
22382 Optional argument of \string\maketitle\space ignored\MessageBreak
22383 in `titlepage=false' mode%
22384 }%
22385 \fi
22386 \ifx\@uppertitleback\@empty\else
22387 \ClassWarning{\KOMAClassName}{%
22388 non empty \string\uppertitleback\space ignored
22389 by \string\maketitle\MessageBreak
22390 in `titlepage=false' mode%
22391 }%
22392 \fi
22393 \ifx\@lowertitleback\@empty\else
22394 \ClassWarning{\KOMAClassName}{%
22395 non empty \string\lowertitleback\space ignored
22396 by \string\maketitle\MessageBreak
22397 in `titlepage=false' mode%
22398 }%
22399 \fi
22400 \begingroup
22401 \let\titlepage@restore\relax
22402 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22403 \let\@oldmakefnmark\@makefnmark
22404 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
22405 \next@tdpage
22406 \if@twocolumn
22407 \ifnum \col@number=\@ne
22408 \ifx\@extratitle\@empty
22409 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22410 \else
22411 \@makeextratitle
22412 \fi
22413 \ifx\@frontispiece\@empty
22414 \ifx\@extratitle\@empty\else\next@tdpage\fi
22415 \else
22416 \next@tpage
22417 \@makefrontispiece
22418 \next@tdpage

```



```

22419         \fi
22420         \@maketitle
22421     \else
22422         \ifx\@extratitle\@empty
22423             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22424         \else
22425             \twocolumn[\@makeextratitle]%
22426         \fi
22427         \ifx\@frontispiece\@empty
22428             \ifx\@extratitle\@empty\else\next@tdpage\fi
22429         \else
22430             \next@tpage
22431             \twocolumn[\@makefrontispiece]%
22432             \next@tdpage
22433         \fi
22434         \twocolumn[\@maketitle]%
22435     \fi
22436 \else
22437     \ifx\@extratitle\@empty
22438         \ifx\@frontispiece\@empty\else \mbox{}\fi
22439     \else
22440         \@makeextratitle
22441     \fi
22442     \ifx\@frontispiece\@empty
22443         \ifx\@extratitle\@empty\else\next@tdpage\fi
22444     \else
22445         \next@tpage
22446         \@makefrontispiece
22447         \next@tdpage
22448     \fi
22449     \@maketitle
22450 \fi
22451 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22452 \@thanks\global\let\@thanks\@empty
22453 \endgroup
22454 \fi
22455 \setcounter{footnote}{0}%
22456 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22457     \let\thanks\relax
22458     \let\LTRthanks\relax
22459     \let\RTLthanks\relax
22460     \let\maketitle\relax
22461     \let\@maketitle\relax
22462     \global\let\@thanks\@empty
22463     \global\let\@author\@empty
22464     \global\let\@date\@empty
22465     \global\let\@title\@empty
22466     \global\let\@subtitle\@empty
22467     \global\let\@extratitle\@empty
22468     \global\let\@frontispiece\@empty
22469     \global\let\@titlehead\@empty
22470     \global\let\@subject\@empty
22471     \global\let\@publishers\@empty
22472     \global\let\@uppertitleback\@empty

```



```

22473 \global\let\@lowertitleback\@empty
22474 \global\let\@dedication\@empty
22475 \global\let\author\relax
22476 \global\let\title\relax
22477 \global\let\extratitle\relax
22478 \global\let\titlehead\relax
22479 \global\let\subject\relax
22480 \global\let\publishers\relax
22481 \global\let\uppertitleback\relax
22482 \global\let\lowertitleback\relax
22483 \global\let\dedication\relax
22484 \global\let\date\relax
22485 \fi
22486 \global\let\and\relax
22487 }%
22488 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22489 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
22490 \renewcommand*\thesection{%
22491 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22492 \if@mainmatter\thechapter\@SepMark\fi
22493 \else
22494 \thechapter\@SepMark%
22495 \fi
22496 \@arabic\c@section
22497 }
22498 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
22499 \renewcommand*{\thesubsubsection}{%
22500 \thesubsection\@SepMark\@arabic\c@subsubsection
22501 }
22502 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22503 \renewcommand*{\thesubparagraph}{%
22504 \theparagraph\@SepMark\@arabic\c@subparagraph
22505 }
22506 \expandafter\ifnum\scr@v@is@le{2.97d}%
22507 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
22508 \fi
22509 \expandafter\ifnum\scr@v@is@le{2.97d}%
22510 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
22511 \fi
22512 \renewcommand*\theequation{%
22513 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22514 \if@mainmatter\thechapter\@SepMark\fi
22515 \else
22516 \thechapter\@SepMark%
22517 \fi
22518 \@arabic\c@equation
22519 }
22520 \renewenvironment{thebibliography}[1]{%
22521 \if@bib@break@
22522 \bib@beginhook
22523 \else
22524 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22525 \setchapterpreamble{\bibpreamble}%
22526 \fi\fi

```



```

22527 \bib@heading
22528 \bib@beginhook
22529 \bib@before@hook
22530 \fi
22531 \renewcommand{\BreakBibliography}[1]{%
22532 \@bib@break
22533 \end{thebibliography}%
22534 \begingroup ##1\endgroup
22535 \begin{thebibliography}{#1}
22536 }%
22537 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
22538 \bidi@thebibliography@font@hook%
22539 \list{%
22540 \@biblabel{\@arabic\c@enumiv}%
22541 }{%
22542 \settowidth\labelwidth{\@biblabel{#1}}%
22543 \leftmargin\labelwidth
22544 \advance\leftmargin\labelsep
22545 \@openbib@code
22546 \if@bib@break@
22547 \edef\@tempa{%
22548 \noexpand\usecounter{enumiv}%
22549 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22550 }\@tempa
22551 \no@bib@break
22552 \else
22553 \usecounter{enumiv}%
22554 \fi
22555 \let\p@enumiv\@empty
22556 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22557 }%
22558 \sloppy\clubpenalty4000 \widowpenalty4000
22559 \sfcode`\.=\@m
22560 }{%
22561 \if@bib@break@
22562 \def\@noitemerr{%
22563 \@latex@warning{%
22564 \string\BreakBibliography\space at begin of `thebibliography'
22565 environment\MessageBreak
22566 or following \string\BreakBibliography}%
22567 }%
22568 \else
22569 \def\@noitemerr{%
22570 \@latex@warning{%
22571 Empty `thebibliography' environment or
22572 \string\BreakBibliography\MessageBreak
22573 before end of `thebibliography' environment}%
22574 }%
22575 \fi
22576 \endlist
22577 \if@bib@break@
22578 \else
22579 \bib@after@hook
22580 \let\bib@before@hook\@empty

```



```

22581 \let\bib@after@hook\empty
22582 \fi
22583 \bib@endhook
22584 }
22585 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
22586 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
22587 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
22588 \renewcommand\marginline[1]{%
22589 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
22590 }
22591 \renewcommand{\@@makecaption}[3]{%
22592 \cap@margin
22593 \begingroup
22594 \ifonelinecaptions
22595 \def\stepcounter##1{\advance\value{##1}\@ne}%
22596 \let\refstepcounter\stepcounter
22597 \let\label\@gobble
22598 \let\@footnotetext=\@gobble
22599 \let\@LTRfootnotetext=\@gobble
22600 \let\@RTLfootnotetext=\@gobble
22601 \let\hypertarget\@gobbletwo
22602 \edef\@xnewline{%
22603 \unexpanded{\ClassInfo{\KOMAClassName}{%
22604 Workaround for not recommended usage of \string\\ or\MessageBreak
22605 \string\newline in caption text
22606 }%
22607 \hspace*{\linewidth}\hspace{1sp}%
22608 }%
22609 \unexpanded\expandafter{\@xnewline}%
22610 }%
22611 \edef\@xcentercr{%
22612 \unexpanded{\ClassInfo{\KOMAClassName}{%
22613 Workaround for not recommended usage of \string\\ or\MessageBreak
22614 \string\newline in caption text
22615 }%
22616 \hspace*{\linewidth}\hspace{1sp}%
22617 }%
22618 \unexpanded\expandafter{\@xcentercr}%
22619 }%
22620 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22621 \ifdim\@tempdima>\cap@width
22622 \aftergroup\scr@makemultilinecaption
22623 \else
22624 \aftergroup\scr@makesinglelinecaption
22625 \fi
22626 \else
22627 \aftergroup\scr@makemultilinecaption
22628 \fi
22629 \endgroup
22630 {#1}{#2}{#3}%
22631 }
22632 \renewcommand{\scr@makesinglelinecaption}[3]{%
22633 {%
22634 \usefontofkomafont{caption}{%

```




```

22635 \hb@xt@\hsize{%
22636 \cap@left
22637 \if@RTL
22638 \beginR
22639 \fi
22640 \scr@@makesinglelinecaption{#1}{#2}{#3}%
22641 \if@RTL
22642 \endR
22643 \fi
22644 \cap@right
22645 }\par\kern\dp\strutbox%
22646 }%
22647 }\kern-\dp\strutbox
22648 }
22649 \renewcommand{\@makecaption}[2]{%
22650 \if@captionabove
22651 \vskip\belowcaptionskip
22652 \else
22653 \vskip\abovecaptionskip
22654 \fi
22655 \@makecaption\@firstofone{#1}{#2}%
22656 \if@captionabove
22657 \vskip\abovecaptionskip
22658 \else
22659 \vskip\belowcaptionskip
22660 \fi
22661 }
22662
22663 \renewcommand{\scr@@makesinglelinecaption}[3]{%
22664 {\usekomafont{caption}{\strut\ignorespaces
22665 #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22666 \ignorespaces #3\unskip}}%
22667 }
22668
22669 \renewcommand{\scr@makemultilinecaption}[3]{%
22670 {%
22671 \usefontofkomafont{caption}{%
22672 \hb@xt@\hsize{%
22673 \cap@left
22674 \vbox{\hsize\cap@width\linewidth\hsize
22675 \scr@ifundefinedorrelax{@captype}{%
22676 \ClassWarning{\KOMAClassName}{%
22677 \string\caption' outside float.\MessageBreak
22678 Seems you are using \string\caption' outside a
22679 float.\MessageBreak
22680 Maybe you are using a package that uses
22681 \string\makecaption'\MessageBreak
22682 without setting \string\captype' before.\MessageBreak
22683 Because I cannot detect the caption type, I'm using\MessageBreak
22684 the empty one.%
22685 }%
22686 \let\captype\@empty
22687 }{}%
22688 \scr@ifundefinedorrelax{ragged\captype}{\raggedcaption}{%

```



```

22689         \@nameuse{ragged\@captype caption}%
22690     }%
22691     \ifdofullc@p
22692         \@hangfrom{%
22693             \strut
22694             \scr@smashdp{%
22695                 #1{%
22696                     \usekomafont{caption}{%
22697                         \usekomafont{captionlabel}{#2\captionformat}%
22698                     }%
22699                 }%
22700             }%
22701         }%
22702         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22703     \else
22704         \ifdim\cap@indent<\z@
22705             \strut
22706             #1{%
22707                 {\usekomafont{caption}{%
22708                     \usekomafont{captionlabel}{#2\captionformat}%
22709                 }%
22710             }\par}%
22711             \noindent{{\usekomafont{caption}{%
22712                 \hspace*{-\cap@indent}#3\scr@endstrut
22713             }}\par}%
22714         \else
22715             \if@capbreak
22716                 \strut
22717                 #1{%
22718                     {\usekomafont{caption}{%
22719                         \usekomafont{captionlabel}{#2\captionformat}%
22720                     }
22721                 }\par}%
22722                 \noindent\@hangfrom{\hspace*{\cap@indent}}%
22723                 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22724             \else
22725                 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22726                 {%
22727                     \hspace*{-\cap@indent}%
22728                     \scr@smashdp{%
22729                         #1{\usekomafont{caption}{%
22730                             \usekomafont{captionlabel}{#2\captionformat}%
22731                         }%
22732                     }%
22733                 }%
22734                 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22735             }%
22736         \fi
22737     \fi
22738 \fi
22739 }%
22740 \cap@right
22741 }\par\kern\dp\strutbox
22742 }%

```



```

22743 } \kern-\dp\strutbox
22744 }
22745
22746
22747 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22748   \if@komalongtable
22749     \renewcommand{\LT@makecaption}[3]{%
22750       \noalign{%
22751         \if@captionabove
22752           \vskip\belowcaptionskip
22753         \else
22754           \vskip\abovecaptionskip
22755         \fi
22756       }%
22757       \LT@mcol\LT@cols c{%
22758         \hbox to\z@{\hss\parbox[t]{\linewidth{%
22759           \def\@capytype{table}%
22760           \@makecaption{#1}{#2}{#3}%
22761           \endgraf
22762           \if@captionabove
22763             \vskip\abovecaptionskip
22764           \else
22765             \vskip\belowcaptionskip
22766           \fi
22767         }%
22768         \hss
22769       }%
22770     }%
22771   }%
22772   \renewcommand*{\scr@LT@array}{}%
22773   \let\scr@LT@array=\LT@array
22774   \renewcommand*{\LT@array}{%
22775     \let\scr@caption=\LT@caption
22776     \def\captionabove{\noalign{\global\@captionabovetrue}%
22777       \scr@caption}%
22778     \def\captionbelow{\noalign{\global\@captionabovefalse}%
22779       \scr@caption}%
22780     \if@tablecaptionabove
22781       \let\LT@caption=\captionabove
22782     \else
22783       \let\LT@caption=\captionbelow
22784     \fi
22785     \scr@LT@array
22786   }%
22787   \ClassInfo{\KOMAClassName}{%
22788     longtable captions redefined%
22789   }%
22790 \fi
22791 }
22792
22793 \CloneTOCEntryStyle{tocline}{part}
22794 \TOCEntryStyleStartInitCode{part}{%
22795   \expandafter\renewcommand%
22796   \csname scr@tso@#1@linefill\endcsname{\hfill}%

```



```

22797 \expandafter\renewcommand%
22798 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22799 \expandafter\renewcommand%
22800 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22801   {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22802 \expandafter\renewcommand\expandafter*%
22803 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22804 }
22805
22806 \CloneTOCEntryStyle{tocline}{chapter}
22807 \TOCEntryStyleStartInitCode{chapter}{%
22808   \expandafter\renewcommand%
22809   \csname scr@tso@#1@linefill\endcsname{%
22810     \if@chapterentrywithdots
22811       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22812     \else
22813       \hfill
22814     \fi
22815   }%
22816   \expandafter\renewcommand%
22817   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22818   \expandafter\renewcommand%
22819   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22820     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22821   \expandafter\renewcommand\expandafter*%
22822   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22823 }
22824
22825 \CloneTOCEntryStyle{tocline}{section}
22826 \TOCEntryStyleStartInitCode{section}{%
22827   \expandafter\renewcommand%
22828   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22829   \expandafter\renewcommand%
22830   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22831     {\normalfont\normalcolor ##1}}%
22832 }
22833
22834 \CloneTOCEntryStyle{section}{default}
22835
22836 \DeclareSectionCommand[%
22837   style=chapter,%
22838   level=\z@,%
22839   pagestyle=plain,%
22840   tocstyle=chapter,%
22841   tocindent=\z@,%
22842   tocnumwidth=1.5em%
22843 ]{chapter}
22844 \DeclareSectionCommand[%
22845   style=section,%
22846   level=1,%
22847   indent=\z@,%
22848   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22849   afterskip=2.3ex \@plus.2ex,%
22850   tocstyle=section,%

```



```

22851 tocindentfollows=chapter,%
22852 tocindent=1.5em,%
22853 tocnumwidth=2.3em%
22854 ]{section}
22855 \DeclareSectionCommand[%
22856 style=part,%
22857 level=\m@ne,%
22858 pagestyle=plain,%
22859 tocstyle=part,%
22860 toplevel=\m@ne,%
22861 tocindent=\z@,%
22862 tocnumwidth=2em%
22863 ]{part}
22864 \DeclareSectionCommand[%
22865 style=section,%
22866 level=2,%
22867 indent=\z@,%
22868 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22869 afterskip=1.5ex \@plus .2ex,%
22870 tocstyle=section,%
22871 tocindent=3.8em,%
22872 tocnumwidth=3.2em%
22873 ]{subsection}
22874 \DeclareSectionCommand[%
22875 style=section,%
22876 level=3,%
22877 indent=\z@,%
22878 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22879 afterskip=1.5ex \@plus .2ex,%
22880 tocstyle=section,%
22881 tocindent=7.0em,%
22882 tocnumwidth=4.1em%
22883 ]{subsubsection}
22884 \DeclareSectionCommand[%
22885 style=section,%
22886 level=4,%
22887 indent=\z@,%
22888 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22889 afterskip=-1em,%
22890 tocindentfollows=subsubsection,%
22891 tocstyle=section,%
22892 tocindent=10em,%
22893 tocnumwidth=5em%
22894 ]{paragraph}
22895 \DeclareSectionCommand[%
22896 style=section,%
22897 level=5,%
22898 indent=\scr@parindent,%
22899 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22900 afterskip=-1em,%
22901 tocstyle=section,%
22902 tocindent=12em,%
22903 tocnumwidth=6em%
22904 ]{subparagraph}

```



143 File `scrreprt-xetex-bidi.def`

```

22905 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
22906 \newcommand{\scr@saved@LTRfootnotetext}{}
22907 \newcommand{\scr@saved@RTLfootnotetext}{}
22908 \let\scr@saved@footnotetext\@footnotetext
22909 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22910 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22911 \renewcommand{\@footnotetext}[1]{%
22912   \scr@saved@footnotetext{#1}%
22913   \csname FN@mfb@prepare\endcsname
22914 }
22915 \renewcommand{\@LTRfootnotetext}[1]{%
22916   \scr@saved@LTRfootnotetext{#1}%
22917   \csname FN@mfb@prepare\endcsname
22918 }
22919 \renewcommand{\@RTLfootnotetext}[1]{%
22920   \scr@saved@RTLfootnotetext{#1}%
22921   \csname FN@mfb@prepare\endcsname
22922 }
22923 \renewcommand\deffootnote[4][]{%
22924   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22925     \long\def\@makefnmark##1{%
22926       \ExecuteDoHook{footnote/text/begin}%
22927       \raggedfootnote
22928       \if@RTL
22929         \rightskip
22930       \else
22931         \leftskip
22932       \fi
22933       #2
22934       \l@addto@macro\@trivlist{%
22935         \ifnum\@listdepth=\@ne
22936           \if@RTL
22937             \advance\rightmargin #2\relax
22938           \else
22939             \advance\leftmargin #2\relax
22940           \fi
22941         \fi
22942       }%
22943       \parindent #3\noindent
22944       \IfArgIsEmpty{#1}{-}{%
22945         \hskip \dimexpr #1-#2\relax
22946       }%
22947       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22948       \ExecuteDoHook{footnote/text/end}%
22949     }%
22950   \else
22951     \ClassInfo{\KOMAClassName}{%
22952       Using old \string\@makefnmark\space due to compatibility
22953       level\MessageBreak
22954       less than 3.22}%
22955     \long\def\@makefnmark##1{%
22956       \setlength{\@tempdimc}{#3}%

```



```

22957 \def\@tempa{#1}\ifx\@tempa\@empty
22958 \setpar{\@par
22959 \@tempdima = \hsize
22960 \addtolength{\@tempdima}{-#2}%
22961 \if@RTL
22962 \parshape \@ne \z@ \@tempdima
22963 \else
22964 \parshape \@ne #2 \@tempdima
22965 \fi
22966 }%
22967 \else
22968 \addtolength{\@tempdimc}{#2}%
22969 \addtolength{\@tempdimc}{-#1}%
22970 \setpar{\@par
22971 \@tempdima = \hsize
22972 \addtolength{\@tempdima}{-#1}%
22973 \@tempdimb = \hsize
22974 \addtolength{\@tempdimb}{-#2}%
22975 \if@RTL
22976 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22977 \else
22978 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22979 \fi
22980 }%
22981 \fi
22982 \par
22983 \parindent\@tempdimc\noindent
22984 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22985 }%
22986 \fi
22987 \def\@makefnmark{\hbox{\ftnm@font{#4}}}%
22988 }
22989 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22990 \renewcommand*\left@footnoterule{%
22991 \normalsize\ftn@rule@test@values
22992 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22993 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22994 {\usekomafont{footnoterule}{%
22995 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22996 \kern 2.6\p@}
22997 \renewcommand*\right@footnoterule{%
22998 \normalsize\ftn@rule@test@values
22999 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23000 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23001 {\usekomafont{footnoterule}{%
23002 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
23003 \kern 2.6\p@}
23004 \renewcommand*\maketitle[1][1]{%
23005 \expandafter\ifnum \cscname scr@v@3.12\endcsname>\scr@compatibility\relax
23006 \else
23007 \def\and{%
23008 \end{tabular}%
23009 \hspace 1em \@plus.17fil%
23010 \begin{tabular}[t]{c}%

```



```

23011     }%
23012 \fi
23013 \if@titlepage
23014     \begin{titlepage}
23015         \setcounter{page}{%
23016             #1%
23017         }%
23018     \if@titlepageiscoverpage
23019         \edef\ttitlepage@restore{%
23020             \noexpand\endgroup
23021             \noexpand\global\noexpand\@colht\the\@colht
23022             \noexpand\global\noexpand\@colroom\the\@colroom
23023             \noexpand\global\vsizethe\vsizethe
23024             \noexpand\global\noexpand\ttitlepageiscoverpagefalse
23025             \noexpand\let\noexpand\ttitlepage@restore\noexpand\relax
23026         }%
23027         \begin{group}
23028             \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23029             \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23030             \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23031             \textwidth=\dimexpr
23032             \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23033             \textheight=\dimexpr
23034             \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23035             \headheight=0pt
23036             \headsep=0pt
23037             \footskip=\baselineskip
23038             \@colht=\textheight
23039             \@colroom=\textheight
23040             \vsizethe\textheight
23041             \columnwidth=\textwidth
23042             \hsizethe\columnwidth
23043             \linewidth=\hsizethe
23044         \else
23045             \let\ttitlepage@restore\relax
23046         \fi
23047         \let\footnotesize\small
23048         \let\right@footnoterule\relax
23049         \let\left@footnoterule\relax
23050         \let\textwidth@footnoterule\relax
23051         \let\footnote\thanks
23052         \let\LTRfootnote\LTRthanks
23053         \let\RTLfootnote\RTLthanks
23054         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23055         \let\@oldmakefnmark\@makefnmark
23056         \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
23057         \ifx\@extratitle\@empty
23058             \ifx\@frontispiece\@empty
23059                 \else
23060                     \if@twoside\mbox{}\next@tpage\fi
23061                     \noindent\@frontispiece\next@tdpage
23062                 \fi
23063             \else
23064                 \noindent\@extratitle

```




```

23065 \ifx\@frontispiece\@empty
23066 \else
23067 \next@tpage
23068 \noindent\@frontispiece
23069 \fi
23070 \next@tdpage
23071 \fi
23072 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
23073 \ifx\@titlehead\@empty \else
23074 \begin{minipage}[t]{\textwidth}%
23075 \usekomafont{titlehead}{\@titlehead\par}%
23076 \end{minipage}\par
23077 \fi
23078 \null\vfill
23079 \begin{center}
23080 \ifx\@subject\@empty \else
23081 {\usekomafont{subject}{\@subject\par}}%
23082 \vskip 3em
23083 \fi
23084 {\usekomafont{title}{\huge \@title\par}}%
23085 \vskip 1em
23086 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23087 \vskip 2em
23088 {%
23089 \usekomafont{author}{%
23090 \lineskip 0.75em
23091 \begin{tabular}[t]{c}
23092 \@author
23093 \end{tabular}\par
23094 }%
23095 }%
23096 \vskip 1.5em
23097 {\usekomafont{date}{\@date \par}}%
23098 \vskip \z@ \@plus3fill
23099 {\usekomafont{publishers}{\@publishers \par}}%
23100 \vskip 3em
23101 \end{center}\par
23102 \@thanks\global\let\@thanks\@empty
23103 \vfill\null
23104 \if@twoside
23105 \@tempswatrue
23106 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
23107 \else
23108 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23109 \@tempswafalse
23110 \fi\fi
23111 \fi
23112 \if@tempswa
23113 \next@tpage
23114 \begin{minipage}[t]{\textwidth}
23115 \@uppertitleback
23116 \end{minipage}\par
23117 \vfill
23118 \begin{minipage}[b]{\textwidth}

```



```

23119         \@lowertitleback
23120     \end{minipage}\par
23121     \@thanks\global\let\@thanks\@empty
23122 \fi
23123 \else
23124     \ifx\@uppertitleback\@empty\else
23125         \ClassWarning{\KOMAClassName}{%
23126             non empty \string\uppertitleback\space ignored
23127             by \string\maketitle\MessageBreak
23128             in `twoside=false' mode%
23129         }%
23130     \fi
23131     \ifx\@lowertitleback\@empty\else
23132         \ClassWarning{\KOMAClassName}{%
23133             non empty \string\lowertitleback\space ignored
23134             by \string\maketitle\MessageBreak
23135             in `twoside=false' mode%
23136         }%
23137     \fi
23138 \fi
23139 \ifx\@dedication\@empty
23140 \else
23141     \next@tdpage\null\vfill
23142     {\centering\usekomafont{dedication}{\@dedication \par}}%
23143     \vskip \z@ \@plus3fill
23144     \@thanks\global\let\@thanks\@empty
23145     \cleardoubleemptypage
23146 \fi
23147 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
23148 \end{titlepage}
23149 \else
23150     \par
23151     \@tempcnta=%
23152     #1%
23153     \relax\ifnum\@tempcnta=1\else
23154         \ClassWarning{\KOMAClassName}{%
23155             Optional argument of \string\maketitle\space ignored\MessageBreak
23156             in `titlepage=false' mode%
23157         }%
23158     \fi
23159     \ifx\@uppertitleback\@empty\else
23160         \ClassWarning{\KOMAClassName}{%
23161             non empty \string\uppertitleback\space ignored
23162             by \string\maketitle\MessageBreak
23163             in `titlepage=false' mode%
23164         }%
23165     \fi
23166     \ifx\@lowertitleback\@empty\else
23167         \ClassWarning{\KOMAClassName}{%
23168             non empty \string\lowertitleback\space ignored
23169             by \string\maketitle\MessageBreak
23170             in `titlepage=false' mode%
23171         }%
23172     \fi

```



```

23173 \beginngroup
23174 \let\titlepage@restore\relax
23175 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23176 \let\@oldmakefnmark\@makefnmark
23177 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
23178 \next@tdpage
23179 \if@twocolumn
23180 \ifnum \col@number=\@ne
23181 \ifx\@extratitle\@empty
23182 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23183 \else
23184 \@makeextratitle
23185 \fi
23186 \ifx\@frontispiece\@empty
23187 \ifx\@extratitle\@empty\else\next@tdpage\fi
23188 \else
23189 \next@tpage
23190 \@makefrontispiece
23191 \next@tdpage
23192 \fi
23193 \@maketitle
23194 \else
23195 \ifx\@extratitle\@empty
23196 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23197 \else
23198 \twocolumn[\@makeextratitle]%
23199 \fi
23200 \ifx\@frontispiece\@empty
23201 \ifx\@extratitle\@empty\else\next@tdpage\fi
23202 \else
23203 \next@tpage
23204 \twocolumn[\@makefrontispiece]%
23205 \next@tdpage
23206 \fi
23207 \twocolumn[\@maketitle]%
23208 \fi
23209 \else
23210 \ifx\@extratitle\@empty
23211 \ifx\@frontispiece\@empty\else \mbox{}\fi
23212 \else
23213 \@makeextratitle
23214 \fi
23215 \ifx\@frontispiece\@empty
23216 \ifx\@extratitle\@empty\else\next@tdpage\fi
23217 \else
23218 \next@tpage
23219 \@makefrontispiece
23220 \next@tdpage
23221 \fi
23222 \@maketitle
23223 \fi
23224 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
23225 \@thanks\global\let\@thanks\@empty
23226 \endgroup

```



```

23227 \fi
23228 \setcounter{footnote}{0}%
23229 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
23230 \let\thanks\relax
23231 \let\LTRthanks\relax
23232 \let\RTLthanks\relax
23233 \let\maketitle\relax
23234 \let\@maketitle\relax
23235 \global\let\@thanks\@empty
23236 \global\let\@author\@empty
23237 \global\let\@date\@empty
23238 \global\let\@title\@empty
23239 \global\let\@subtitle\@empty
23240 \global\let\@extratitle\@empty
23241 \global\let\@frontispiece\@empty
23242 \global\let\@titlehead\@empty
23243 \global\let\@subject\@empty
23244 \global\let\@publishers\@empty
23245 \global\let\@uppertitleback\@empty
23246 \global\let\@lowertitleback\@empty
23247 \global\let\@dedication\@empty
23248 \global\let\author\relax
23249 \global\let\title\relax
23250 \global\let\extratitle\relax
23251 \global\let\titlehead\relax
23252 \global\let\subject\relax
23253 \global\let\publishers\relax
23254 \global\let\uppertitleback\relax
23255 \global\let\lowertitleback\relax
23256 \global\let\dedication\relax
23257 \global\let\date\relax
23258 \fi
23259 \global\let\and\relax
23260 }%
23261 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
23262 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
23263 \renewcommand*\thesection{%
23264 \thechapter\@SepMark%
23265 \@arabic\c@section
23266 }
23267 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
23268 \renewcommand*{\thesubsubsection}{%
23269 \thesubsection\@SepMark\@arabic\c@subsubsection
23270 }
23271 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
23272 \renewcommand*{\thesubparagraph}{%
23273 \theparagraph\@SepMark\@arabic\c@subparagraph
23274 }
23275 \expandafter\ifnum\scr@v@is@le{2.97d}%
23276 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
23277 \fi
23278 \expandafter\ifnum\scr@v@is@le{2.97d}%
23279 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
23280 \fi

```



```

23281 \renewcommand*\theequation{%
23282 \thechapter\@SepMark%
23283 \@arabic\c@equation
23284 }
23285 \renewenvironment{thebibliography}[1]{%
23286 \if@bib@break@
23287 \bib@beginhook
23288 \else
23289 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
23290 \setchapterpreamble{\bibpreamble}%
23291 \fi\fi
23292 \bib@heading
23293 \bib@beginhook
23294 \bib@before@hook
23295 \fi
23296 \renewcommand{\BreakBibliography}[1]{%
23297 \@bib@break
23298 \end{thebibliography}%
23299 \begingroup ##1\endgroup
23300 \begin{thebibliography}{#1}
23301 }%
23302 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
23303 \bidi@thebibliography@font@hook%
23304 \list{%
23305 \@biblabel{\@arabic\c@enumiv}%
23306 }{%
23307 \settowidth\labelwidth{\@biblabel{#1}}%
23308 \leftmargin\labelwidth
23309 \advance\leftmargin\labelsep
23310 \@openbib@code
23311 \if@bib@break@
23312 \edef\@tempa{%
23313 \noexpand\usecounter{enumiv}%
23314 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
23315 }\@tempa
23316 \no@bib@break
23317 \else
23318 \usecounter{enumiv}%
23319 \fi
23320 \let\p@enumiv\@empty
23321 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
23322 }%
23323 \sloppy\clubpenalty4000 \widowpenalty4000
23324 \sfcode`\.\=\@m
23325 }{%
23326 \if@bib@break@
23327 \def\@noitemerr{%
23328 \@latex@warning{%
23329 \string\BreakBibliography\space at begin of `thebibliography'
23330 environment\MessageBreak
23331 or following \string\BreakBibliography}%
23332 }%
23333 \else
23334 \def\@noitemerr{%

```



```

23335 \latex@warning{%
23336     Empty `thebibliography' environment or
23337     \string\BreakBibliography\MessageBreak
23338     before end of `thebibliography' environment}%
23339 }%
23340 \fi
23341 \endlist
23342 \if@bib@break@
23343 \else
23344     \bib@after@hook
23345     \let\bib@before@hook\@empty
23346     \let\bib@after@hook\@empty
23347 \fi
23348 \bib@endhook
23349 }
23350 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
23351 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
23352 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
23353 \renewcommand\marginline[1]{%
23354     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
23355 }
23356 \renewcommand{\@@makecaption}[3]{%
23357     \cap@margin
23358     \begingroup
23359     \ifonelinecaptions
23360         \def\stepcounter##1{\advance\value{##1}\@ne}%
23361         \let\refstepcounter\stepcounter
23362         \let\label\@gobble
23363         \let\@footnotetext=\@gobble
23364         \let\@LTRfootnotetext=\@gobble
23365         \let\@RTLfootnotetext=\@gobble
23366         \let\hypertarget\@gobbletwo
23367         \edef\xnewline{%
23368             \unexpanded{\ClassInfo{\KOMAClassName}}{%
23369                 Workaround for not recommended usage of \string\\ or\MessageBreak
23370                 \string\newline in caption text
23371             }%
23372             \hspace*{\linewidth}\hspace{1sp}%
23373         }%
23374         \unexpanded\expandafter{\xnewline}%
23375     }%
23376     \edef\xcentercr{%
23377         \unexpanded{\ClassInfo{\KOMAClassName}}{%
23378             Workaround for not recommended usage of \string\\ or\MessageBreak
23379             \string\newline in caption text
23380         }%
23381         \hspace*{\linewidth}\hspace{1sp}%
23382     }%
23383     \unexpanded\expandafter{\xcentercr}%
23384 }%
23385 \settowidth{\@tempdima}{\scr@@makesinglelinecaption{#1}{#2}{#3}}%
23386 \ifdim\@tempdima>\cap@width
23387     \aftergroup\scr@makemultilinecaption
23388 \else

```



```

23389         \aftergroup\scr@makesinglelinecaption
23390         \fi
23391     \else
23392         \aftergroup\scr@makemultilinecaption
23393         \fi
23394     \endgroup
23395     {#1}{#2}{#3}%
23396 }
23397 \renewcommand{\scr@makesinglelinecaption}[3]{%
23398     {%
23399         \usefontofkomafont{caption}{%
23400             \hb@xt@\hsize{%
23401                 \cap@left
23402                 \if@RTL
23403                     \beginR
23404                     \fi
23405                 \scr@makesinglelinecaption{#1}{#2}{#3}%
23406                 \if@RTL
23407                     \endR
23408                 \fi
23409                 \cap@right
23410             }\par\kern\dp\strutbox%
23411             }%
23412         }\kern-\dp\strutbox
23413     }
23414 \renewcommand{\@makecaption}[2]{%
23415     \if@captionabove
23416         \vskip\belowcaptionskip
23417     \else
23418         \vskip\abovecaptionskip
23419     \fi
23420     \@makecaption\@firstofone{#1}{#2}%
23421     \if@captionabove
23422         \vskip\abovecaptionskip
23423     \else
23424         \vskip\belowcaptionskip
23425     \fi
23426 }
23427
23428 \renewcommand{\scr@makesinglelinecaption}[3]{%
23429     {\usekomafont{caption}{\strut\ignorespaces
23430         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23431         \ignorespaces #3\unskip}}%
23432 }
23433
23434 \renewcommand{\scr@makemultilinecaption}[3]{%
23435     {%
23436         \usefontofkomafont{caption}{%
23437             \hb@xt@\hsize{%
23438                 \cap@left
23439                 \vbox{\hsize\cap@width\linewidth\hsize
23440                     \scr@ifundefinedorrelax{@captive}{%
23441                         \ClassWarning{\KOMAClassName}{%
23442                             `string\caption' outside float.\MessageBreak

```



```

23443      Seems you are using `\'string\'caption' outside a
23444      float.\MessageBreak
23445      Maybe you are using a package that uses
23446      `\'string\'@makecaption'\MessageBreak
23447      without setting `\'string\'@capttype' before.\MessageBreak
23448      Because I cannot detect the caption type, I'm using\MessageBreak
23449      the empty one.%
23450    }%
23451    \let\@capttype\@empty
23452  }{}%
23453  \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
23454    \@nameuse{ragged\@capttype caption}%
23455  }%
23456  \ifdofullc@p
23457    \@hangfrom{%
23458      \strut
23459      \scr@smashdp{%
23460        #1{%
23461          \usekomafont{caption}{%
23462            \usekomafont{captionlabel}{#2\captionformat}%
23463          }%
23464        }%
23465      }%
23466    }%
23467    {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23468  \else
23469    \ifdim\cap@indent<\z@
23470      \strut
23471      #1{%
23472        {\usekomafont{caption}{%
23473          \usekomafont{captionlabel}{#2\captionformat}%
23474        }%
23475      }\par}%
23476      \noindent{{\usekomafont{caption}{%
23477        \hspace*{-\cap@indent}#3\scr@endstrut
23478      }}\par}%
23479    \else
23480      \if@capbreak
23481        \strut
23482        #1{%
23483          {\usekomafont{caption}{%
23484            \usekomafont{captionlabel}{#2\captionformat}%
23485          }%
23486        }\par}%
23487        \noindent\@hangfrom{\hspace*{-\cap@indent}}%
23488        {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23489      \else
23490        \@hangfrom{\scr@smashdp\strut\hspace*{-\cap@indent}}%
23491        {%
23492          \hspace{-\cap@indent}%
23493          \scr@smashdp{%
23494            #1{\usekomafont{caption}{%
23495              \usekomafont{captionlabel}{#2\captionformat}%
23496            }%

```




```

23497         }%
23498     }%
23499     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23500     }%
23501     \fi
23502     \fi
23503     \fi
23504     }%
23505     \cap@right
23506     }\par\kern\dp\strutbox
23507     }%
23508     }\kern-\dp\strutbox
23509 }
23510
23511
23512 \bidi@AfterFile{longtable-xetex-bidi.def}{%
23513   \if@komalongtable
23514     \renewcommand{\LT@makecaption}[3]{%
23515       \noalign{%
23516         \if@captionabove
23517           \vskip\belowcaptionskip
23518         \else
23519           \vskip\abovecaptionskip
23520         \fi
23521       }%
23522       \LT@mcol\LT@cols c{%
23523         \hbox to\z@{\hss\parbox[t]{\linewidth{%
23524           \def\@capytype{table}%
23525           \@makecaption{#1}{#2}{#3}%
23526           \endgraf
23527           \if@captionabove
23528             \vskip\abovecaptionskip
23529           \else
23530             \vskip\belowcaptionskip
23531           \fi
23532         }%
23533         \hss
23534       }%
23535     }%
23536   }%
23537   \renewcommand*{\scr@LT@array}{}%
23538   \let\scr@LT@array=\LT@array
23539   \renewcommand*{\LT@array}{%
23540     \let\scr@caption=\LT@caption
23541     \def\captionabove{\noalign{\global\@captionabovetrue}%
23542       \scr@caption}%
23543     \def\captionbelow{\noalign{\global\@captionabovetrue}%
23544       \scr@caption}%
23545     \if@tablecaptionabove
23546       \let\LT@caption=\captionabove
23547     \else
23548       \let\LT@caption=\captionbelow
23549     \fi
23550     \scr@LT@array

```



```

23551 }%
23552 \ClassInfo{\KOMAClassName}{%
23553     longtable captions redefined%
23554 }%
23555 \fi
23556 }
23557
23558 \CloneTOCEntryStyle{tocline}{part}
23559 \TOCEntryStyleStartInitCode{part}{%
23560     \expandafter\renewcommand%
23561     \csname scr@tso@#1@linefill\endcsname{\hfill}%
23562     \expandafter\renewcommand%
23563     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23564     \expandafter\renewcommand%
23565     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23566         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
23567     \expandafter\renewcommand\expandafter*%
23568     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
23569 }
23570
23571 \CloneTOCEntryStyle{tocline}{chapter}
23572 \TOCEntryStyleStartInitCode{chapter}{%
23573     \expandafter\renewcommand%
23574     \csname scr@tso@#1@linefill\endcsname{%
23575         \ifchapterentrywithdots
23576             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23577         \else
23578             \hfill
23579         \fi
23580     }%
23581     \expandafter\renewcommand%
23582     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
23583     \expandafter\renewcommand%
23584     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23585         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23586     \expandafter\renewcommand\expandafter*%
23587     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
23588 }
23589
23590 \CloneTOCEntryStyle{tocline}{section}
23591 \TOCEntryStyleStartInitCode{section}{%
23592     \expandafter\renewcommand%
23593     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23594     \expandafter\renewcommand%
23595     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23596         {\normalfont\normalcolor ##1}}%
23597 }
23598
23599 \CloneTOCEntryStyle{section}{default}
23600
23601 \DeclareSectionCommand[%
23602     style=chapter,%
23603     level=\z@,%
23604     pagestyle=plain,%

```



```

23605 tocstyle=chapter,%
23606 tocindent=\z@,%
23607 tocnumwidth=1.5em%
23608 ]{chapter}
23609 \DeclareSectionCommand[%
23610 style=section,%
23611 level=1,%
23612 indent=\z@,%
23613 beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
23614 afterskip=2.3ex \@plus .2ex,%
23615 tocstyle=section,%
23616 tocindentfollows=chapter,%
23617 tocindent=1.5em,%
23618 tocnumwidth=2.3em%
23619 ]{section}
23620 \DeclareSectionCommand[%
23621 style=part,%
23622 level=\m@ne,%
23623 pagestyle=plain,%
23624 tocstyle=part,%
23625 toplevel=\m@ne,%
23626 tocindent=\z@,%
23627 tocnumwidth=2em%
23628 ]{part}
23629 \DeclareSectionCommand[%
23630 style=section,%
23631 level=2,%
23632 indent=\z@,%
23633 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
23634 afterskip=1.5ex \@plus .2ex,%
23635 tocstyle=section,%
23636 tocindent=3.8em,%
23637 tocnumwidth=3.2em%
23638 ]{subsection}
23639 \DeclareSectionCommand[%
23640 style=section,%
23641 level=3,%
23642 indent=\z@,%
23643 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
23644 afterskip=1.5ex \@plus .2ex,%
23645 tocstyle=section,%
23646 tocindent=7.0em,%
23647 tocnumwidth=4.1em%
23648 ]{subsubsection}
23649 \DeclareSectionCommand[%
23650 style=section,%
23651 level=4,%
23652 indent=\z@,%
23653 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
23654 afterskip=-1em,%
23655 tocindentfollows=subsubsection,%
23656 tocstyle=section,%
23657 tocindent=10em,%
23658 tocnumwidth=5em%

```



```

23659 ]{paragraph}
23660 \DeclareSectionCommand[%
23661   style=section,%
23662   level=5,%
23663   indent=\scr@parindent,%
23664   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
23665   afterskip=-1em,%
23666   tocstyle=section,%
23667   tocindent=12em,%
23668   tocnumwidth=6em%
23669 ]{subparagraph}

```

144 File sidecap-xetex-bidi.def

```

23670 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
23671 \RequirePackage{ragged2e}
23672 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
23673   \isSC@ODD{{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
23674   \isSC@ODD{{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi
23675   \renewcommand*{\SC@justify@caption}{\if@RTL%
23676     \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
23677     \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi
23678 }
23679 \ifpackagewith{sidecap}{innercaption}{%
23680 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
23681   \isSC@ODD{{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
23682   \renewcommand*{\SC@justify@caption}{%
23683     \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
23684   \renewcommand*{\SC@FLOAT}[2]{%
23685     \isSC@ODD{{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
23686     \renewcommand*{\SC@justify@caption}{%
23687       \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
23688 }{}
23689 }
23690 \ifpackagewith{sidecap}{rightcaption}{%
23691   \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23692   \def\SC@justify@caption{\RaggedLeft}\else%
23693   \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
23694   \def\SC@justify@caption{\RaggedRight}\fi%
23695 }{}
23696 }
23697 \ifpackagewith{sidecap}{leftcaption}{%
23698 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
23699   \def\SC@justify@caption{\RaggedRight}\else%
23700   \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23701   \def\SC@justify@caption{\RaggedLeft}\fi%
23702 }{}

```

145 File soul-xetex-bidi.def

```

23703 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
23704 \long\def\SOUL@start#1{%
23705   \let\bidi@RTL@everypar\@empty
23706   \let\<\SOUL@lowerthan

```



```

23707 \let\>\empty
23708 \def\soulomit{\noexpand\soulomit}%
23709 \gdef\Soul@eventuallyexhyphen##1{%
23710 \let\Soul@soeventuallyskip\relax
23711 \Soul@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
23712 \@minus\fontdimen4\font
23713 \Soul@ignorespacesfalse
23714 \leavevmode
23715 \Soul@preamble
23716 \Soul@lasttoken={}%
23717 \Soul@word={}%
23718 \Soul@minus\z@
23719 \Soul@comma\z@
23720 \Soul@apo\z@
23721 \Soul@grave\z@
23722 \Soul@do{#1}%
23723 \Soul@postamble
23724 }}
23725 \def\Soul@ulunderline#1{%
23726 \setbox\z@\hbox{#1}%
23727 \dimen@=\wd\z@
23728 \dimen@i=\Soul@uloverlap
23729 \advance\dimen@2\dimen@i
23730 \if@RTL
23731 \unhcopy\z@
23732 \llap{%
23733 \null
23734 \kern-\dimen@i
23735 \Soul@ulcolor{\Soul@ulleaders\hskip\dimen@}%
23736 }%
23737 \else
23738 \rlap{%
23739 \null
23740 \kern-\dimen@i
23741 \Soul@ulcolor{\Soul@ulleaders\hskip\dimen@}%
23742 }%
23743 \unhcopy\z@
23744 \fi
23745 }}
23746 \def\bid@Soul@ulleaders{%
23747 \leaders\hb@xt@0.1pt{\hss\Soul@ulcolor{\vrule\@depth\Soul@uldp\@height\Soul@ulht}\hss}\n
23748 }
23749 \def\Soul@uleveryspace#1{%
23750 \if@RTL
23751 #1%
23752 \bid@Soul@ulleaders
23753 \hskip\spaceskip
23754 \else
23755 \Soul@ulcolor{%
23756 #1%
23757 \Soul@ulleaders
23758 \hskip\spaceskip
23759 }%
23760 \fi

```



```

23761 \null
23762 }

```

146 File stabular-xetex-bidi.def

```

23763 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
23764 \def\@stabular{%
23765   \leavevmode \bgroup \if@RTLtab\beginR \fi
23766   \let\@acol\@tabacol
23767   \let\@classz\@tabclassz
23768   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
23769 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23770   \egroup \if@RTLtab\endR\fi\egroup}
23771 \expandafter \let \csname endstabular*\endcsname = \endstabular
23772 \def\sarray[#1]#2{%
23773   \bgroup
23774   \setbox\@arstrutbox\hbox{%
23775     \vrule \@height\arraystretch\ht\strutbox
23776     \@depth\arraystretch \dp\strutbox
23777     \@width\z@}%
23778   \mkpream{#2}%
23779   \edef\@preamble{%
23780     \ialign \noexpand\@halignto
23781       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23782   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23783   \let\@tabularnewline\%
23784   \let\@sharp##%
23785   \set@typeset@protect
23786   \lineskip\z@skip\baselineskip\z@skip
23787   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
23788   \@preamble}

```

147 File subfigure-xetex-bidi.def

```

23789 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure package]
23790 \AtBeginDocument{%
23791   \let\p@subfigure=\thefigure
23792   \let\p@subtable=\thetable%
23793 }

```

148 File tabs-xetex-bidi.def

```

23794 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for XeTeX]
23795 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
23796
23797 \expandafter\let\csname endtabular*\endcsname=\endtabular
23798
23799 \def\endarray{\ifvmode\csname crr\endcsname % just do \crr if \ given
23800   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
23801   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
23802
23803 \def\@array[#1]#2{% remember global variables to allow recursion:
23804   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
23805     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%

```



```

23806 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
23807 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
23808 \else \let\@tarlinesep\tablinesep \fi
23809 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
23810 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
23811 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
23812 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
23813 \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@size
23814 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
23815 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
23816 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
23817 \let\protect\noexpand
23818 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23819 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23820 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23821 \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
23822 \bgroup \let\par\@empty
23823 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23824 \advance\extrarulesep.5\arrayrulewidth
23825 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23826 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \box \fi\bgroup\fi
23827 \@preamble}

```

149 File tabularx-xetex-bidi.def

```

23828 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
23829 \def\TX@endtabularx{%
23830 \expandafter\expandafter\expandafter
23831 \TX@find@endtabularxa\csname end\TX@\endcsname
23832 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
23833 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}}%
23834 \let\verb\TX@verb
23835 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
23836 \edef\TX@ckpt{\cl@ckpt}%
23837 \let\@elt\relax
23838 \TX@old@table\maxdimen
23839 \TX@col@width\TX@target
23840 \global\TX@cols\@ne
23841 \TX@typeout@
23842 {\spaces Table Width\@spaces Column Width\@spaces X Columns}%
23843 \TX@trial{\def\NC@rewrite@X{%
23844 \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
23845 \loop
23846 \TX@arith
23847 \ifTX@
23848 \TX@trial{%
23849 \repeat
23850 {\let\@footnotetext\TX@fnttext\let\@xfootnotenext\TX@xftntext
23851 \let\@LTRfootnotetext\TX@LTRfnttext\let\@xLTRfootnotenext\TX@xLTRfnttext
23852 \let\@RTLfootnotetext\TX@RTLfnttext\let\@xRTLfootnotenext\TX@xRTLfnttext
23853 \csname tabular*\expandafter\endcsname\expandafter\TX@target
23854 \the\toks@
23855 \csname endtabular*\endcsname}%
23856 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn

```



```

23857 \ifnum0=`{\fi}%
23858 \expandafter\expandafter\expandafter
23859 \TX@find@endtabularxbb
23860 \expandafter\end\expandafter{\TX@}%
23861 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
23862 }
23863
23864 \def\TX@trial#1{%
23865 \setbox\@tempboxa\hbox{%
23866 #1\relax
23867 \let\@footnotetext\TX@trial@ftn
23868 \let\@LTRfootnotetext\TX@trial@ftn
23869 \let\@RTLfootnotetext\TX@trial@ftn
23870 \let\TX@vwarn\@empty
23871 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
23872 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
23873 \def\write{\begingroup
23874 \def\let{\afterassignment\endgroup\toks@}%
23875 \afterassignment\let\count@}%
23876 \hbadness\@M
23877 \hfuzz\maxdimen
23878 \let\hbadness\@tempcnta
23879 \let\hfuzz\@tempdima
23880 \expandafter\tabular\the\toks@
23881 \endtabular}%
23882 \TX@ckpt
23883 \TX@typeout@{\@spaces
23884 \expandafter\TX@align
23885 \the\wd\@tempboxa\space\space\space\space\space\@@
23886 \expandafter\TX@align
23887 \the\TX@col@width\space\space\space\space\space\@@
23888 \@spaces\the\TX@cols}}
23889
23890 \long\def\TX@LTRftntext#1{%
23891 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
23892 [\the\csname c@\@mpfn\endcsname]}%
23893 \global\TX@ftn\expandafter{\@tempa{#1}}}%
23894 \long\def\TX@xLTRftntext[#1]#2{%
23895 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
23896
23897 \long\def\TX@RTLftntext#1{%
23898 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
23899 [\the\csname c@\@mpfn\endcsname]}%
23900 \global\TX@ftn\expandafter{\@tempa{#1}}}%
23901 \long\def\TX@xRTLftntext[#1]#2{%
23902 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

150 File tabulary-xetex-bidi.def

```

23903 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
23904 \def\@testpach{\@chclass
23905 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
23906 \ifnum \@lastchclass=7 5 \else
23907 \ifnum \@lastchclass=8 \tw@ \else

```




```

23956 \bidi@patchcmd{\tcb@vbox}{%
23957   \let\@footnotetext\@mpfootnotetext%
23958 }{%
23959   \let\@footnotetext\@mpfootnotetext%
23960   \let\@LTRfootnotetext\@mpLTRfootnotetext%
23961   \let\@RTLfootnotetext\@mpRTLfootnotetext%
23962 }{}{}
23963
23964 \bidi@patchcmd{\end tcb@vbox}{%
23965   \footnoterule%
23966 }{%
23967   \bidi@mpfootnoterule%
23968 }{}{}
23969 \bidi@apptocmd\tcb@@icolorbox{%
23970   \@bidi@list@minipage@parboxfalse
23971 }{}{}

```

153 File thmbox-xetex-bidi.def

```

23972 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package for
23973 \renewenvironment{thmbox}[2][]{%
23974   \parskip\z@%
23975   \setkeys{thmbox}{#1}%
23976   \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
23977     \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
23978       \string\thmbox, using M}%
23979     \let\thmbox@style=M%
23980   \fi\fi\fi%
23981   \thmbox@head{{#2}}\nobreak\relax%
23982   \thmbox@dim=\hsize%
23983   \advance\thmbox@dim-\leftskip%
23984   \advance\thmbox@dim-\rightskip%
23985   \setbox\thmbox@box=\vbox\bgroup%
23986     \if@RTL
23987       \@hboxRconstructtrue
23988     \fi
23989     \hsize=\thmbox@dim%
23990     \advance\hsize -\thmbox@leftmargin%
23991     \advance\hsize -\thmbox@rightmargin%
23992     \textwidth=\hsize%
23993     \linewidth=\hsize%
23994     \vskip\thmbox@vskip%
23995     \begingroup}{\endgroup%
23996     \vskip\thmbox@vskip%
23997   \egroup%
23998   \thmbox@start%
23999   \ifx\thmbox@style S\else\thmbox@tail\fi%
24000   \@endparenv}

```

154 File titlesec-xetex-bidi.def

```

24001 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
24002 \renewcommand\filright{%
24003   \gdef\ttl@filleft##1{\hskip##1}%

```



```

24004 \gdef\ttl@filright##1{\hfill}%
24005 \let\\\@centercr
24006 \advance\rightskip\z@ \@plus 1fil
24007 \parfillskip\z@}
24008 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
24009 \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
24010 \setlength\leftskip{#6}%
24011 \setlength\rightskip{#7}%
24012 \interlinepenalty\@M
24013 \ttl@changecentercr
24014 \ttl@beginlongest
24015 #1{\ifhmode\ttl@hmode@error\fi
24016 \ttl@glcmds
24017 \parindent\z@
24018 \leavevmode
24019 \beginngroup
24020 \ifttl@label
24021 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
24022 \ifRTL\advance\rightskip\wd\z@else\advance\leftskip\wd\z@\fi
24023 \llap{\box\z@}%
24024 \fi
24025 #4{#8}%
24026 \kern\z@\strut\@par
24027 \endgroup
24028 \nobreak\ttl@midlongest#5\@par}%
24029 \ttl@endlongest}

```

155 File titletoc-xetex-bidi.def

```

24030 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
24031 \renewcommand\filright{%
24032 \gdef\ttl@filleft##1{\hskip##1}%
24033 \gdef\ttl@filright##1{\hfill}%
24034 \let\\\@centercr
24035 \advance\rightskip\z@ \@plus 1fil
24036 \parfillskip\z@}
24037 \renewcommand\contentspush[1]{%
24038 \sbox\z@{#1}%
24039 \xdef\ttl@b{\advance\ifRTL\rightskip\else\leftskip\fi\the\wd\z@}%
24040 \aftergroup\ttl@b
24041 \leavevmode\llap{\box\z@}}
24042 \def\ttl@outnoblock#1#2#3{%
24043 \beginngroup
24044 \ifnum\ttl@b>\ttl@a
24045 \nobreak
24046 \else\ifnum\ttl@b<\ttl@a
24047 \addpenalty{\@secpenalty}%
24048 \else
24049 \addpenalty{\z@}%
24050 \fi\fi
24051 \ttl@contentsstretch
24052 \nobreak
24053 \ifcase#1\relax\else\interlinepenalty\@M\fi
24054 \parindent\z@}

```



```

24055 \ifx\@nil#2%
24056   \PackageError{titletoc}{Unimplemented}%
24057   {The optional argument is currently mandatory}%
24058 \else
24059   \if@RTL\setlength\rightskip{#2}\else
24060   \setlength\leftskip{#2}\fi%
24061 \fi
24062 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24063 \let\contentsmargin\ttl@margin
24064 \def\ttl@makeline##1{##1}%
24065 #3%
24066 \addtolength{\parfillskip}{-\ttl@corr}%
24067 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24068 \let\ttl@leaders\leaders}
24069 \renewcommand\ttl@margin[2][\z@]{%
24070   \def\ttl@corr{#1}%
24071   \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24072   \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
24073   \def\@pnumwidth{#2}}
24074 \let\ttl@savel@part\l@part
24075 \def\l@part{\ttl@lselect{part}}
24076
24077 \let\ttl@savel@chapter\l@chapter
24078 \def\l@chapter{\ttl@lselect{chapter}}

```

156 File tocbibind-xetex-bidi.def

```

24079 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
24080 \IfClassLoadedT{memoir}{\endinput}
24081 \if@dotocbib
24082   \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
24083     \renewcommand{\bibsection}{\tcb@bchapsec}
24084     \renewenvironment{thebibliography}[1]{%
24085       \bibsection
24086       \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
24087 \renewenvironment{thebibitemlist}[1]{
24088   \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
24089   \bidi@thebibliography@font@hook%
24090   \list{\@biblabel{\@arabic{c@enumiv}}}%
24091     {\settowidth\labelwidth{\@biblabel{#1}}%
24092     \leftmargin\labelwidth
24093     \advance\leftmargin\labelsep
24094     \@openbib@code
24095     \usecounter{enumiv}%
24096     \let\p@enumiv\empty
24097     \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
24098   \sloppy
24099   \clubpenalty4000
24100   \@clubpenalty \clubpenalty
24101   \widowpenalty4000%
24102   \sfcode`\.\@m}
24103 {\def\@noitemerr
24104   {\@latex@warning{Empty `thebibliography' environment}}}%
24105 \endlist}

```



```

24106
24107 \ApplyPatchCodeToPackage{chapterbib}{%
24108   \@ifpackagewith{chapterbib}{sectionbib}%
24109     {\renewcommand{\sectionbib}[2]{}}%
24110     {}%
24111 }
24112
24113 \fi
24114 \if@inltxdoc\else
24115   \renewenvironment{theindex}%
24116     {\if@twocolumn
24117       \@restonecolfalse
24118     \else
24119       \@restonecoltrue
24120     \fi
24121     \if@bibchapter
24122       \if@donumindex
24123         \refstepcounter{chapter}
24124         \twocolumn[\vspace*{2\topskip}%
24125           \@makechapterhead{\indexname}]]%
24126         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24127         \chaptermark{\indexname}
24128       \else
24129         \if@dotocind
24130           \twocolumn[\vspace*{2\topskip}%
24131             \@makeschapterhead{\indexname}]]%
24132           \prw@mkboth{\indexname}
24133           \addcontentsline{toc}{chapter}{\indexname}
24134         \else
24135           \twocolumn[\vspace*{2\topskip}%
24136             \@makeschapterhead{\indexname}]]%
24137           \prw@mkboth{\indexname}
24138         \fi
24139       \fi
24140     \else
24141       \if@donumindex
24142         \twocolumn[\vspace*{-1.5\topskip}%
24143           \@nameuse{\@tocextra}{\indexname}]]%
24144         \csname \@tocextra mark\endcsname{\indexname}
24145       \else
24146         \if@dotocind
24147           \twocolumn[\vspace*{-1.5\topskip}%
24148             \toc@headstar{\@tocextra}{\indexname}]]%
24149           \prw@mkboth{\indexname}
24150           \addcontentsline{toc}{\@tocextra}{\indexname}
24151         \else
24152           \twocolumn[\vspace*{-1.5\topskip}%
24153             \toc@headstar{\@tocextra}{\indexname}]]%
24154           \prw@mkboth{\indexname}
24155         \fi
24156       \fi
24157     \fi
24158   \thispagestyle{plain}\parindent\z@
24159   \parskip\z@ \@plus .3\p@\relax

```



```

24160 \let\item\@idxitem}
24161 {\if@restonecol\onecolumn\else\clearpage\fi}
24162 \fi

```

157 File tocloft-xetex-bidi.def

```

24163 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
24164 \IfClassLoadedT{memoir}{\endinput}
24165 \renewcommand{\cftpnumalign}{\if@RTL l\else r\fi}
24166 \let\cftdot\@SepMark
24167 \if@cfthaspart
24168 \renewcommand*{\l@part}[2]{
24169 \@cftdopartfalse
24170 \ifnum \c@tocdepth >-2\relax
24171 \if@cfthaschapter
24172 \@cftdoparttrue
24173 \fi
24174 \ifnum \c@tocdepth >\m@ne
24175 \if@cfthaschapter\else
24176 \@cftdoparttrue
24177 \fi
24178 \fi
24179 \fi
24180 \if@cftdopart
24181 \if@cfthaschapter
24182 \addpenalty{-\@highpenalty}
24183 \else
24184 \addpenalty\@secpenalty
24185 \fi
24186 \addvspace{\cftbeforepartskip}
24187 \begingroup
24188 {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
24189 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24190 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24191 \parindent \cftpartindent\relax\@afterindenttrue
24192 \interlinepenalty\@M
24193 \leavevmode
24194 \@tempdima \cftpartnumwidth\relax
24195 \let\@cftbsnum \cftpartpresnum
24196 \let\@cftasnum \cftpartaftersnum
24197 \let\@cftasnumb \cftpartaftersnumb
24198 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24199 {\cftpartfont \cftpartpresnum #1}
24200 \cftpartfillnum{#2}}
24201 \nobreak
24202 \if@cfthaschapter
24203 \global\@nobreaktrue
24204 \everypar{\global\@nobreakfalse\everypar{}}
24205 \else
24206 \if@compatibility
24207 \global\@nobreaktrue
24208 \everypar{\global\@nobreakfalse\everypar{}}
24209 \fi
24210 \fi

```



```

24211 \endgroup
24212 \fi}
24213 \fi
24214 \if@cfthaschapter
24215 \renewcommand*{\l@chapter}[2]{
24216 \ifnum \c@tocdepth >\m@ne
24217 \addpenalty{-\@highpenalty}
24218 \vskip \cftbeforechapskip
24219 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24220 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24221 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24222 \parindent \cftchapindent\relax\@afterindenttrue
24223 \interlinepenalty\@M
24224 \leavevmode
24225 \@tempdima \cftchapnumwidth\relax
24226 \let\@cftbsnum \cftchappresnum
24227 \let\@cftasnum \cftchapaftersnum
24228 \let\@cftasnumb \cftchapaftersnumb
24229 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24230 {\cftchapfont #1}\nobreak
24231 \cftchapfillnum{#2}}
24232 \fi}
24233 \fi
24234 \renewcommand*{\l@section}[2]{%
24235 \ifnum \c@tocdepth >\z@
24236 \if@cfthaschapter
24237 \vskip \cftbeforesecskip
24238 \else
24239 \addpenalty\@secpenalty
24240 \addvspace{\cftbeforesecskip}
24241 \fi
24242 {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
24243 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24244 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24245 \parindent \cftsecindent\relax\@afterindenttrue
24246 \interlinepenalty\@M
24247 \leavevmode
24248 \@tempdima \cftsecnumwidth\relax
24249 \let\@cftbsnum \cftsecpresnum
24250 \let\@cftasnum \cftsecaftersnum
24251 \let\@cftasnumb \cftsecaftersnumb
24252 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24253 {\cftsecfont #1}\nobreak
24254 \cftsecfillnum{#2}}
24255 \fi}
24256 \renewcommand*{\l@subsection}[2]{%
24257 \ifnum \c@tocdepth >\@ne
24258 \vskip \cftbeforesubsecskip
24259 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
24260 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24261 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24262 \parindent \cftsubsecindent\relax\@afterindenttrue
24263 \interlinepenalty\@M
24264 \leavevmode

```



```

24265 \@tempdima \cftsubsecnumwidth\relax
24266 \let\@cftbsnum \cftsubsecpresnum
24267 \let\@cftasnum \cftsubsecaftersnum
24268 \let\@cftasnumb \cftsubsecaftersnumb
24269 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24270 {\cftsubsecfont #1}\nobreak
24271 \cftsubsecfillnum{#2}}
24272 \fi}
24273 \renewcommand*{\l@subsubsection}[2]{%
24274 \ifnum \c@tocdepth >\tw@
24275 \vskip \cftbeforesubsubsecskip
24276 {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
24277 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24278 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24279 \parindent \cftsubsubsecindent\relax\@afterindenttrue
24280 \interlinepenalty\@M
24281 \leavevmode
24282 \@tempdima \cftsubsubsecnumwidth\relax
24283 \let\@cftbsnum \cftsubsubsecpresnum
24284 \let\@cftasnum \cftsubsubsecaftersnum
24285 \let\@cftasnumb \cftsubsubsecaftersnumb
24286 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24287 {\cftsubsubsecfont #1}\nobreak
24288 \cftsubsubsecfillnum{#2}}
24289 \fi}
24290 \renewcommand*{\l@paragraph}[2]{%
24291 \ifnum \c@tocdepth >3\relax
24292 \vskip \cftbeforeparaskip
24293 {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
24294 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24295 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24296 \parindent \cftparaindent\relax\@afterindenttrue
24297 \interlinepenalty\@M
24298 \leavevmode
24299 \@tempdima \cftparanumwidth\relax
24300 \let\@cftbsnum \cftparapresnum
24301 \let\@cftasnum \cftparaaftersnum
24302 \let\@cftasnumb \cftparaaftersnumb
24303 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24304 {\cftparafont #1}\nobreak
24305 \cftparafillnum{#2}}
24306 \fi}
24307 \renewcommand*{\l@subparagraph}[2]{%
24308 \ifnum \c@tocdepth >4\relax
24309 \vskip \cftbeforesubparaskip
24310 {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
24311 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24312 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24313 \parindent \cftsubparaindent\relax\@afterindenttrue
24314 \interlinepenalty\@M
24315 \leavevmode
24316 \@tempdima \cftsubparanumwidth\relax
24317 \let\@cftbsnum \cftsubparapresnum
24318 \let\@cftasnum \cftsubparaaftersnum

```




```

24319 \let\@cftasnumb \cftsubparaaftersnumb
24320 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24321 {\cftsubparafont #1}\nobreak
24322 \cftsubparafillnum{#2}}
24323 \fi}
24324 \renewcommand*{\l@figure}[2]{%
24325 \ifnum \c@lofdepth >\z@
24326 \vskip \cftbeforefigskip
24327 {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
24328 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24329 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24330 \parindent \cftfigindent\relax\@afterindenttrue
24331 \interlinepenalty\@M
24332 \leavevmode
24333 \@tempdima \cftfignumwidth\relax
24334 \let\@cftbsnum \cftfigpresnum
24335 \let\@cftasnum \cftfigaftersnum
24336 \let\@cftasnumb \cftfigaftersnumb
24337 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24338 {\cftfigfont #1}\nobreak
24339 \cftfigfillnum{#2}}
24340 \fi
24341 }
24342 \renewcommand*{\l@table}[2]{%
24343 \ifnum\c@lotdepth >\z@
24344 \vskip \cftbeforetabskip
24345 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
24346 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24347 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24348 \parindent \cfttabindent\relax\@afterindenttrue
24349 \interlinepenalty\@M
24350 \leavevmode
24351 \@tempdima \cfttabnumwidth\relax
24352 \let\@cftbsnum \cfttabpresnum
24353 \let\@cftasnum \cfttabaftersnum
24354 \let\@cftasnumb \cfttabaftersnumb
24355 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24356 {\cfttabfont #1}\nobreak
24357 \cfttabfillnum{#2}}
24358 \fi
24359 }
24360 \renewcommand{\@cftl@subfig}{
24361 \renewcommand*{\l@subfigure}[2]{%
24362 \ifnum \c@lofdepth > \toclevel@subfigure
24363 \vskip \cftbeforesubfigskip
24364 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
24365 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24366 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24367 \parindent \cftsubfigindent\relax\@afterindenttrue
24368 \interlinepenalty\@M
24369 \leavevmode
24370 \@tempdima \cftsubfignumwidth\relax
24371 \let\@cftbsnum \cftsubfigpresnum
24372 \let\@cftasnum \cftsubfigaftersnum

```



```

24373 \let\@cftasnumb \cftsubfigaftersnumb
24374 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24375 {\cftsubfigfont ##1}\nobreak
24376 \cftsubfigfillnum{##2}}
24377 \fi
24378 }
24379 }
24380 \renewcommand{\@cftl@subtab}{
24381 \renewcommand*{\l@subtable}[2]{%
24382 \ifnum \c@lotdepth > \toclevel@subtable
24383 \vskip \cftbeforesubtabskip
24384 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
24385 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24386 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24387 \parindent \cftsubtabindent\relax\@afterindenttrue
24388 \interlinepenalty\@M
24389 \leavevmode
24390 \@tempdima \cftsubtabnumwidth\relax
24391 \let\@cftbsnum \cftsubtabpresnum
24392 \let\@cftasnum \cftsubtabaftersnum
24393 \let\@cftasnumb \cftsubtabaftersnumb
24394 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24395 {\cftsubtabfont ##1}\nobreak
24396 \cftsubtabfillnum{##2}}
24397 \fi
24398 }
24399 }
24400 \renewcommand{\newlistentry}[4][\@empty]{%
24401 \ifundefined{c@#2}{% check & set the counter
24402 \ifx \@empty#1\relax
24403 \newcounter{#2}
24404 \else
24405 \ifundefined{c@#1}{\PackageWarning{tocloft}%
24406 {#1 has no counter for use as a `within'}
24407 \newcounter{#2}}%
24408 {\newcounter{#2}[#1]%
24409 \expandafter\edef\csname the#2\endcsname{%
24410 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
24411 \fi
24412 \setcounter{#2}{0}
24413 }
24414 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24415
24416 \@namedef{#1#2}##1##2{%
24417 \ifnum \@nameuse{c@#3depth} > #4\relax
24418 \vskip \@nameuse{cftbefore#2skip}
24419 {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24420 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24421 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24422 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24423 \interlinepenalty\@M
24424 \leavevmode
24425 \@tempdima \@nameuse{cft#2numwidth}\relax
24426 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname

```



```

24427 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24428 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24429 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\righ
24430 {\@nameuse{cft#2font}##1}\nobreak
24431 \@nameuse{cft#2fillnum}{##2}}
24432 \fi
24433 } % end of \l@#2
24434
24435 \expandafter\newlength\csname cftbefore#2skip\endcsname
24436 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
24437 \expandafter\newlength\csname cft#2indent\endcsname
24438 \expandafter\newlength\csname cft#2numwidth\endcsname
24439 \ifcase #4\relax % 0
24440 \setlength{\@nameuse{cft#2indent}}{0em}
24441 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24442 \or % 1
24443 \setlength{\@nameuse{cft#2indent}}{1.5em}
24444 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24445 \or % 2
24446 \setlength{\@nameuse{cft#2indent}}{3.8em}
24447 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24448 \or % 3
24449 \setlength{\@nameuse{cft#2indent}}{7.0em}
24450 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
24451 \else % anything else
24452 \setlength{\@nameuse{cft#2indent}}{10.0em}
24453 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24454 \fi
24455 \@namedef{cft#2font}{\normalfont}
24456 \@namedef{cft#2presnum}{\}
24457 \@namedef{cft#2aftersnum}{\}
24458 \@namedef{cft#2aftersnumb}{\}
24459 \@namedef{cft#2dotsep}{\cftdotsep}
24460 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
24461 \@namedef{cft#2pagefont}{\normalfont}
24462 \@namedef{cft#2afterpnum}{\}
24463 \@namedef{toclevel@#2}{#4}
24464 \@namedef{cft#2fillnum}##1{%
24465 {\@nameuse{cft#2leader}}\nobreak
24466 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
24467 } % end \newlistentry
24468 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24469 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24470 \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
24471 \if@RTL\leftskip\else\righskip\fi \tocrmarg\relax
24472 \textit{#1}\protect\par}}}

```

158 File tocbasic-xetex-bidi.def

```

24473 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24474 \bidi@undef\scr@dte@def@l@undottedtocline
24475 \bidi@undef\scr@dte@undottedtocline@init
24476 \DeclareTOCEntryStyle{undottedtocline}[{%
24477 \DefineTOCEntryLengthOption{indent}%

```



```

24478 {scr@tso@}{@indent}{entry indent}%
24479 \DefineTOCEntryLengthOption{numwidth}%
24480 {scr@tso@}{@numwidth}{entry number width}%
24481 \@ifundefined{#1tocdepth}{%
24482 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24483 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24484 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24485 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24486 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24487 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24488 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24489 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24490 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24491 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24492 \csname #1numdepth\endcsname
24493 }%
24494 }%
24495 }%
24496 }%
24497 }%
24498 }%
24499 }%
24500 }%
24501 }%
24502 }{%}%
24503 \@ifundefined{scr@tso@#1@indent}{%
24504 \ifundefined{scr@#1@tocindent}{%
24505 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24506 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24507 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24508 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24509 \scr@ifundefinedorrelax{l@chapter}{%
24510 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
24511 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24512 \Ifstr{#1}{subsubsection}{%
24513 \@namedef{scr@tso@#1@indent}{3.8em}%
24514 }{%
24515 \Ifstr{#1}{paragraph}{%
24516 \@namedef{scr@tso@#1@indent}{7em}%
24517 }{%
24518 \Ifstr{#1}{subparagraph}{%
24519 \@namedef{scr@tso@#1@indent}{10em}%
24520 }{%
24521 }%
24522 }%
24523 }%
24524 }%
24525 }%
24526 }{%
24527 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24528 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24529 \Ifstr{#1}{subsubsection}{%
24530 \@namedef{scr@tso@#1@indent}{7.0em}%
24531 }{%

```



```

24532         \Ifstr{#1}{paragraph}{%
24533             \@namedef{scr@tso@#1@indent}{10em}%
24534         }{%
24535             \Ifstr{#1}{subparagraph}{%
24536                 \@namedef{scr@tso@#1@indent}{12em}%
24537             }{%
24538                 }%
24539             }%
24540         }%
24541     }%
24542 }%
24543 }%
24544 }%
24545 }%
24546 }%
24547 }%
24548 }{%
24549     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24550 }%
24551 }{%}%
24552 \@ifundefined{scr@tso@#1@numwidth}{%
24553     \@ifundefined{scr@#1@tocnumwidth}{%
24554         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24555             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24556                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24557                     \scr@ifundefinedorrelax{chapter}{%
24558                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24559                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24560                                 \Ifstr{#1}{subsubsection}{%
24561                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
24562                                 }{%
24563                                     \Ifstr{#1}{paragraph}{%
24564                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
24565                                     }{%
24566                                         \Ifstr{#1}{subparagraph}{%
24567                                             \@namedef{scr@tso@#1@numwidth}{5em}%
24568                                         }{%
24569                                             }%
24570                                         }%
24571                                     }%
24572                                 }%
24573                             }%
24574                         }{%
24575                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24576                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24577                                     \Ifstr{#1}{subsubsection}{%
24578                                         \@namedef{scr@tso@#1@numwidth}{3.1em}%
24579                                     }{%
24580                                         \Ifstr{#1}{paragraph}{%
24581                                             \@namedef{scr@tso@#1@numwidth}{5em}%
24582                                         }{%
24583                                             \Ifstr{#1}{subparagraph}{%
24584                                                 \@namedef{scr@tso@#1@numwidth}{6em}%
24585                                             }{%

```



```

24586         }%
24587     }%
24588 }%
24589 }%
24590 }%
24591 }%
24592 }%
24593 }%
24594 }%
24595 }{%
24596 \namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24597 }%
24598 }{%}%
24599 }]{%
24600 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24601 \ifnum \@nameuse{#1tocdepth}<\@ne
24602 \scr@ifundefinedorrelax{chapter}{%
24603 \addpenalty\@secpenalty
24604 \addvspace{1.0em \@plus\p@}%
24605 }{%
24606 \addpenalty{-\@highpenalty}%
24607 \vskip 1.0em \@plus\p@
24608 }%
24609 \else
24610 \addpenalty\@secpenalty
24611 \addvspace{1.0em \@plus\p@}%
24612 \fi
24613 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
24614 \begingroup
24615 \parindent \z@ \bidi@rightskip \@pnumwidth
24616 \parfillskip -\@pnumwidth
24617 \leavevmode
24618 \bfseries
24619 \advance\bidi@leftskip\@tempdima
24620 \If TocFeature{\@currentx}{noindent}{%
24621 \hskip -\bidi@leftskip
24622 }{%
24623 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24624 \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
24625 }%
24626 ##1%
24627 \nobreak
24628 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24629 \par
24630 \penalty\@highpenalty
24631 \endgroup
24632 \fi
24633 }
24634
24635 \bidi@undef\scr@dte@def@l@largetocline
24636 \bidi@undef\scr@dte@largetocline@init
24637 \DeclareTOCEntryStyle{largetocline}[{%
24638 \DefineTOCEntryLengthOption{indent}%
24639 {scr@tso@}{@indent}{entry indent}%

```



```

24640 \@ifundefined{#1tocdepth}{%
24641   \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24642     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24643       \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24644         \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24645           \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24646             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24647               \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24648                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24649                   \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24650                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
24651                     \csname #1numdepth\endcsname
24652                   }%
24653                 }%
24654               }%
24655             }%
24656           }%
24657         }%
24658       }%
24659     }%
24660   }%
24661 }{}%
24662 \@ifundefined{scr@tso@#1@indent}{%
24663   \@ifundefined{scr@#1@tocindent}{%
24664     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24665       \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24666         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24667           \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24668             \scr@ifundefinedorrelax{1@chapter}{%
24669               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24670                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24671                   \Ifstr{#1}{subsubsection}{%
24672                     \@namedef{scr@tso@#1@indent}{3.8em}%
24673                   }{%
24674                     \Ifstr{#1}{paragraph}{%
24675                       \@namedef{scr@tso@#1@indent}{7em}%
24676                     }{%
24677                       \Ifstr{#1}{subparagraph}{%
24678                         \@namedef{scr@tso@#1@indent}{10em}%
24679                       }{%
24680                         }%
24681                       }%
24682                     }%
24683                   }%
24684                 }%
24685               }{%
24686                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24687                   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24688                     \Ifstr{#1}{subsubsection}{%
24689                       \@namedef{scr@tso@#1@indent}{7.0em}%
24690                     }{%
24691                       \Ifstr{#1}{paragraph}{%
24692                         \@namedef{scr@tso@#1@indent}{10em}%
24693                       }{%

```



```

24694 \Ifstr{#1}{subparagraph}{%
24695 \@namedef{scr@tso@#1@indent}{12em}%
24696 }{%
24697 }%
24698 }%
24699 }%
24700 }%
24701 }%
24702 }%
24703 }%
24704 }%
24705 }%
24706 }%
24707 }{%
24708 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24709 }%
24710 }{}%
24711 }}{%
24712 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24713 \ifnum \@nameuse{#1tocdepth}<\@ne
24714 \scr@ifundefinedorrelax{chapter}{%
24715 \addpenalty\@secpenalty
24716 \addvspace{2.25em \@plus\p@}%
24717 }{%
24718 \addpenalty{-\@highpenalty}%
24719 \addvspace{2.25em \@plus\p@}%
24720 }%
24721 \else
24722 \addpenalty\@secpenalty
24723 \addvspace{2.25em \@plus\p@}%
24724 \fi
24725 \setlength\@tempdima{3em}%
24726 \begingroup
24727 \parindent \z@ \bidi@rightskip \@pnumwidth
24728 \parfillskip -\@pnumwidth
24729 \leavevmode
24730 \large
24731 \bfseries
24732 \Iftocfeature{\@currentt}{noindent}{%
24733 }{%
24734 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24735 }%
24736 ##1%
24737 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24738 \par
24739 \nobreak
24740 \ifnum 0=
24741 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24742 \global\@nobreaktrue
24743 \everypar{\global\@nobreakfalse\everypar{}}%
24744 \fi
24745 \endgroup
24746 \fi
24747 }

```




```

24748
24749 \renewcommand*{\scr@dte@tocline}[3]{%
24750   \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24751   \else
24752     \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
24753     \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
24754     \@nameuse{Ifscr@tso@#1@dynindent}{%
24755       \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
24756       \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
24757     \else
24758       \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
24759       \@for \reserved@a:=\reserved@a\do {%
24760         \scr@trim@spaces\reserved@a
24761         \ifx\reserved@a\@empty\else
24762           \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
24763             }{%
24764               \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
24765                 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
24766                 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
24767                   \scr@ifundefinedorrelax
24768                     {scr@dte@\reserved@a @lastmaxnumwidth}{%
24769                       \advance\@tempdima
24770                       \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24771                     }{%
24772                       \advance\@tempdima
24773                       \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
24774                     }%
24775                   }{%
24776                     \advance\@tempdima
24777                     \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24778                   }%
24779                 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
24780                 \expandafter\edef\csname scr@tso@#1@indent\endcsname
24781                   {\the\@tempdima}%
24782                 \fi
24783               \fi
24784             }%
24785           \fi
24786         }%
24787       \fi
24788     }{}%
24789   {%
24790     \Iftocfeature{\@currentx}{noindent}{%
24791       \bidi@leftskip \z@
24792     }{%
24793       \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
24794     }%
24795     \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
24796     \parfillskip -\bidi@rightskip
24797     \@nameuse{Ifscr@tso@#1@raggedpage}{%
24798       \addtolength{\parfillskip}{\z@ \@plus 1fil}%
24799     }{}%
24800     \Iftocfeature{\@currentx}{noindent}{%
24801       \parindent \z@

```



```

24802 }{%
24803   \parindent \@nameuse{scr@tso@#1@indent}\relax
24804 }%
24805 \@afterindenttrue
24806 \interlinepenalty\@M
24807 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
24808   \addtolength\@bidi@rightskip\@flushglue
24809 \else
24810   \def\reserved@a{\raggedright}%
24811   \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24812     \addtolength\@bidi@rightskip\@flushglue
24813   \else
24814     \renewcommand\reserved@a{\raggedright}%
24815     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24816       \addtolength\@bidi@rightskip\@flushglue
24817     \fi
24818   \fi
24819 \fi
24820 \leavevmode
24821 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
24822 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
24823   \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{-%
24824     \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
24825       \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
24826     \fi
24827   }%
24828 }{%
24829 \advance\@bidi@leftskip \@tempdima
24830 \null\nobreak\hskip -\@bidi@leftskip
24831 {%
24832   \usetocbasicnumberline
24833   \let\scr@dte@numberline@box\numberline@box
24834   \def\numberline@box##1{%
24835     \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
24836     \global\scr@dte@tocline@numberwidth
24837     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
24838     \relax
24839     \ifdim \scr@dte@tocline@numberwidth
24840       >\@nameuse{scr@dte@#1@maxnumwidth}\relax
24841       \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
24842     \fi
24843     \@nameuse{Ifscr@tso@#1@dynnumwidth}{-%
24844       \ifdim \scr@dte@tocline@numberwidth
24845         >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
24846         +\@nameuse{scr@tso@#1@numsep}\relax\relax
24847       \PackageWarning{tocbasic}{%
24848         number width of #1 toc entries should be
24849         increased!\MessageBreak
24850         Currently used number width =
24851         \the\wd\scr@dte@tocline@numbox,\MessageBreak
24852         Wanted number separation
24853         \space\space\space =
24854         \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
24855         Reserved number width \space\space\space\space\space\space =

```



```

24856         \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
24857     }%
24858     \fi
24859 }%
24860 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24861 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
24862     {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
24863 }{}%
24864 }%
24865 {\@nameuse{scr@tso@#1@entryformat}{%
24866     #2%
24867     \nobreak
24868     {%
24869         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
24870     \nobreak
24871     \expandafter\let\expandafter\scr@dte@pagenumberwidth
24872     \csname scr@tso@#1@pagenumberwidth\endcsname
24873     \@nameuse{scr@tso@#1@pagenumberbox}{%
24874         \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
24875     }%
24876 }%
24877 }}\@par
24878 }%
24879 }%
24880 \tocbasic@SetPenaltyByTOCLevel{#1}%
24881 \fi
24882 }
24883
24884
24885 \bidi@undef\scr@dte@def@l@tocline
24886 \bidi@undef\scr@dte@tocline@init
24887 \DeclareTOCEntryStyle{tocline}[{%
24888     \DefineTOCEntryLengthOption{beforeskip}%
24889     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
24890     \DefineTOCEntryIfOption{breakafternumber}%
24891     {scr@tso@}{@breakafternumber}{line break after number flag}%
24892     \DefineTOCEntryIfOption{dynnumwidth}%
24893     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
24894     \DefineTOCEntryListOption{indentfollows}%
24895     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
24896     \DefineTOCEntryIfOption{dynindent}%
24897     {scr@tso@}{@dynindent}{dynamic indent width flag}%
24898     \DefineTOCEntryCommandOption{entryformat}%
24899     {scr@tso@}{@entryformat}[1]{entry format}%
24900     \DefineTOCEntryCommandOption{entrynumberformat}%
24901     {scr@tso@}{@numberformat}[1]{entry number format}%
24902     \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
24903     {scr@tso@}{@linefill}{filling between text and page number}%
24904     \DefineTOCEntryLengthOption{numsep}%
24905     {scr@tso@}{@numsep}{entry number separation}%
24906     \DefineTOCEntryCommandOption{onstarthigherlevel}%
24907     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
24908     \DefineTOCEntryCommandOption{onstartlowerlevel}%
24909     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%

```



```

24910 \DefineTOCEntryCommandOption{onstartsamelevel}%
24911 {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
24912 \DefineTOCEntryCommandOption{pagenumberbox}%
24913 {scr@tso@}{@pagenumberbox}[1]{page number box}%
24914 \DefineTOCEntryCommandOption{pagenumberformat}%
24915 {scr@tso@}{@pagenumberformat}[1]{page number format}%
24916 \DefineTOCEntryLengthOption{pagenumberwidth}%
24917 {scr@tso@}{@pagenumberwidth}{width of page number box}%
24918 \DefineTOCEntryLengthOption{rightindent}%
24919 {scr@tso@}{@rightindent}{entry's text right indent}%
24920 \DefineTOCEntryOption{raggedentrytext}[true]{%
24921 \FamilySetBool{KOMAarg}{raggedentrytext}{@tempswa}{##1}%
24922 \ifx\FamilyKeyState\FamilyKeyStateProcessed
24923 \if@tempswa
24924 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24925 \raggedright
24926 \else
24927 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24928 \relax
24929 \fi
24930 \fi
24931 }%
24932 \DefineTOCEntryIfOption{raggedpagenumber}%
24933 {scr@tso@}{@raggedpage}{page number ragged flag}%
24934 \DefineTOCEntryLengthOption{indent}%
24935 {scr@tso@}{@indent}{entry indent}%
24936 \DefineTOCEntryLengthOption{numwidth}%
24937 {scr@tso@}{@numwidth}{entry number width}%
24938 \scr@ifundefinedorrelax{#1tocdepth}{%
24939 \Ifstrstart{#1}{sub}{%
24940 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
24941 \expandafter\edef\csname #1tocdepth\endcsname{%
24942 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
24943 }%
24944 }%
24945 }{}%
24946 }{}%
24947 \@ifundefined{#1tocdepth}{%
24948 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24949 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24950 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24951 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24952 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24953 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24954 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24955 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24956 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24957 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24958 \csname #1numdepth\endcsname
24959 }%
24960 }%
24961 }%
24962 }%
24963 }%

```



```

24964         }%
24965     }%
24966 }%
24967 }%
24968 }{}%
24969 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
24970     \@ifundefined{scr@#1@tocindent}{%
24971         \Ifstrstart{#1}{sub}{%
24972             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
24973                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
24974                 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24975                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24976                 \relax
24977             }%
24978         }%
24979     }{%
24980         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
24981             \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24982                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24983             \relax
24984         }%
24985     }{%
24986         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24987             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24988             +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24989         \relax
24990     }%
24991 }%
24992 }%
24993 }{}%
24994 }{%
24995     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24996 }%
24997 }{}%
24998 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
24999     \Ifstrstart{#1}{sub}{%
25000         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
25001             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
25002         }{%
25003             \expandafter\let
25004             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
25005             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
25006         }%
25007     }{%
25008         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
25009 }%
25010 }{}%
25011 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
25012     \Ifstrstart{#1}{sub}{%
25013         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
25014             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
25015         }{%
25016             \expandafter\let
25017             \csname scr@tso@#1@rightindent\expandafter\endcsname

```



```

25018     \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
25019   }%
25020   }{%
25021     \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
25022   }%
25023 }{%}%
25024 \@ifundefined{scr@tso@#1@indent}{%
25025   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25026     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25027       \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
25028         \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
25029           \scr@ifundefinedorrelax{1@chapter}{%
25030             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
25031               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25032                 \Ifstr{#1}{subsubsection}{%
25033                   \@namedef{scr@tso@#1@indent}{3.8em}%
25034                 }{%
25035                   \Ifstr{#1}{paragraph}{%
25036                     \@namedef{scr@tso@#1@indent}{7em}%
25037                   }{%
25038                     \Ifstr{#1}{subparagraph}{%
25039                       \@namedef{scr@tso@#1@indent}{10em}%
25040                     }{%
25041                       }%
25042                     }%
25043                   }%
25044                 }%
25045               }%
25046             }{%
25047               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25048                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25049                   \Ifstr{#1}{subsubsection}{%
25050                     \@namedef{scr@tso@#1@indent}{7.0em}%
25051                   }{%
25052                     \Ifstr{#1}{paragraph}{%
25053                       \@namedef{scr@tso@#1@indent}{10em}%
25054                     }{%
25055                       \Ifstr{#1}{subparagraph}{%
25056                         \@namedef{scr@tso@#1@indent}{12em}%
25057                       }{%
25058                         }%
25059                       }%
25060                     }%
25061                   }%
25062                 }%
25063               }%
25064             }%
25065           }%
25066         }%
25067       }%
25068     }{%}%
25069   \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25070     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25071       \Ifstrstart{#1}{sub}{%

```



```

25072 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
25073 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
25074 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25075 +.9em%
25076 \relax
25077 }%
25078 }%
25079 }{}%
25080 }{%
25081 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
25082 }%
25083 }{}%
25084 \@ifundefined{scr@tso@#1@numwidth}{%
25085 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25086 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25087 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25088 \scr@ifundefinedorrelax{chapter}{%
25089 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25090 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25091 \Ifstr{#1}{subsubsection}{%
25092 \@namedef{scr@tso@#1@numwidth}{3.2em}%
25093 }{%
25094 \Ifstr{#1}{paragraph}{%
25095 \@namedef{scr@tso@#1@numwidth}{4.1em}%
25096 }{%
25097 \Ifstr{#1}{subparagraph}{%
25098 \@namedef{scr@tso@#1@numwidth}{5em}%
25099 }{%
25100 }%
25101 }%
25102 }%
25103 }%
25104 }%
25105 }{%
25106 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25107 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25108 \Ifstr{#1}{subsubsection}{%
25109 \@namedef{scr@tso@#1@numwidth}{3.1em}%
25110 }{%
25111 \Ifstr{#1}{paragraph}{%
25112 \@namedef{scr@tso@#1@numwidth}{5em}%
25113 }{%
25114 \Ifstr{#1}{subparagraph}{%
25115 \@namedef{scr@tso@#1@numwidth}{6em}%
25116 }{%
25117 }%
25118 }%
25119 }%
25120 }%
25121 }%
25122 }%
25123 }%
25124 }%
25125 }%

```



```

25126 }{}%
25127 \expandafter\renewcommand%
25128 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25129 \expandafter\renewcommand%
25130 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25131 \expandafter\renewcommand%
25132 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25133 \@ifundefined{scr@tso@#1@beforeskip}{%
25134   \Ifstr{#1}{part}{%
25135     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
25136   }{%
25137     \Ifstr{#1}{chapter}{%
25138       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25139     }{%
25140       \Ifstr{#1}{section}{%
25141         \scr@ifundefinedorrelax{l@chapter}{%
25142           \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25143         }{}%
25144       }{}%
25145     }%
25146   }%
25147   \expandafter\renewcommand\expandafter*%
25148   \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25149 }{}%
25150 \@ifundefined{scr@dte@#1@maxnumwidth}{%
25151   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25152   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
25153 }{}%
25154 \renewcommand*{\scr@dte@donumwidth}{%
25155   \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
25156 \expandafter\renewcommand\expandafter*%
25157 \csname scr@tso@#1@numsep\endcsname{.4em}%
25158 \expandafter\renewcommand%
25159 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25160 \Ifstr{#1}{part}{%
25161   \expandafter\providecommand%
25162   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25163 }{%
25164   \Ifstr{#1}{chapter}{%
25165     \expandafter\providecommand%
25166     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25167   }{%
25168     \scr@ifundefinedorrelax{l@chapter}{%
25169       \Ifstr{#1}{section}{%
25170         \expandafter\providecommand%
25171         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25172       }{}%
25173     }{}%
25174     \expandafter\providecommand%
25175     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25176   }%
25177 }%
25178 \expandafter\renewcommand
25179 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%

```




```

25180 \@ifundefined{scr@tso@#1@linefill}{%
25181   \Ifstr{#1}{part}{%
25182     \@namedef{scr@tso@#1@linefill}{\hfill}%
25183   }{%
25184     \Ifstr{#1}{chapter}{%
25185       \@namedef{scr@tso@#1@linefill}{\hfill}%
25186     }{%
25187       \scr@ifundefinedorrelax{1@chapter}{%
25188         \Ifstr{#1}{section}{%
25189           \@namedef{scr@tso@#1@linefill}{\hfill}%
25190         }{}%
25191       }{}%
25192       \expandafter\renewcommand%
25193       \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
25194     }%
25195   }%
25196 }{}%
25197 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
25198 \Ifstr{#1}{part}{%
25199   \expandafter\providecommand%
25200   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
25201 }{%
25202   \Ifstr{#1}{chapter}{%
25203     \expandafter\providecommand%
25204     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25205   }{%
25206     \scr@ifundefinedorrelax{1@chapter}{%
25207       \Ifstr{#1}{section}{%
25208         \expandafter\providecommand%
25209         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25210       }{}%
25211     }{}%
25212     \expandafter\providecommand%
25213     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
25214       {\normalfont\normalcolor ##1}}%
25215   }%
25216 }%
25217 \expandafter\renewcommand%
25218 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
25219   \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}%
25220 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
25221 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
25222 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25223   \Ifstrstart{#1}{sub}{%
25224     \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25225       \scr@dte@nosub{#1}%
25226     }%
25227   }{}%
25228   \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
25229 }%
25230 }{}%
25231 }}{%
25232 \scr@dte@tocline{#1}{##1}{##2}%
25233 }

```



```

25234
25235 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
25236   \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25237     {\normalfont\normalcolor #1}%
25238   }%
25239 }{}
25240
25241 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
25242   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25243     {\normalfont\normalcolor #1}%
25244   }%
25245 }{}
25246

```

159 File `tocstyle-xetex-bidi.def`

```

25247 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25248 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25249   \let\numberline\tocstyle@numberline
25250   \ifnum #1>\c@tocdepth \else
25251     \if@tocstyle@penalties
25252       \begingroup
25253         \@tempcnta 20010
25254         \advance \@tempcnta by -#1
25255         \ifnum \@tempcnta>\lastpenalty
25256           \aftergroup\penalty\aftergroup\@lowpenalty
25257         \fi
25258       \endgroup
25259     \fi
25260     \edef\tocstyledepth{#1}%
25261     \tocstyle@activate@features
25262     \ifx\tocstyle@feature@entryvskip\relax
25263       \vskip \z@ \@plus.2\p@
25264     \else
25265       \addvspace{\tocstyle@feature@entryvskip}%
25266     \fi
25267     {%
25268       \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
25269       \tocstyle@feature@raggedhook
25270       \@tempdima #3\relax
25271       \@tempdimb #2\relax
25272       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25273       \ifnum #1>\z@\relax
25274         \@tempcnta #1\relax \advance\@tempcnta \m@ne
25275         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25276           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25277             \@tempdimb
25278             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25279             \advance\@tempdimb
25280             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25281           \fi
25282         \fi
25283       \fi
25284       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%

```



```

25285 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25286 \ifdim \@tempdimb>
25287 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25288 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25289 @#1\endcsname{\the\@tempdimb}%
25290 \fi
25291 \else
25292 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25293 @#1\endcsname{\the\@tempdimb}%
25294 \fi
25295 \iftocstyle@autolength
25296 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25297 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25298 \relax
25299 \fi
25300 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25301 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25302 \relax
25303 \fi
25304 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25305 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25306 \else
25307 \@tempdimb #2\relax
25308 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25309 \fi
25310 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25311 \ifdim \@tempdima>
25312 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25313 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25314 @\endcsname{\the\@tempdima}%
25315 \fi
25316 \else
25317 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25318 @\endcsname{\the\@tempdima}%
25319 \fi
25320 \ifcase\tocstyle@indentstyle\relax\else
25321 \@tempdimb \z@
25322 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25323 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25324 \relax
25325 \fi
25326 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25327 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25328 \fi
25329 \advance\parindent \@tempdimb\@afterindenttrue
25330 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25331 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25332 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25333 \ifx\tocstyle@feature@parfillskip\relax\else
25334 \advance\parfillskip \tocstyle@feature@parfillskip\relax
25335 \fi
25336 \interlinepenalty\@M
25337 \leavevmode
25338 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima

```



```

25339 \null\nobreak
25340 \iftocstyle@indentnotnumbered\else
25341 \hskip -\if@RTL\rightskip\else\leftskip\fi
25342 \fi
25343 \tocstyle@feature@entryhook
25344 {#4}\nobreak
25345 \ifx\tocstyle@feature@leaders\relax
25346 \leaders\hbox{$\m@th
25347 \mkern \dotsep mu\hbox{\tocstyle@feature@dotohook .}%
25348 \mkern \dotsep mu$}\hfill
25349 \else
25350 \tocstyle@feature@leaders
25351 \fi
25352 \nobreak
25353 \ifx\tocstyle@feature@pagenumberbox\relax
25354 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
25355 \else
25356 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25357 \fi
25358 \par
25359 }%
25360 \if@tocstyle@penalties
25361 \bgroup
25362 \@tempcnta 20009
25363 \advance\@tempcnta by -#1
25364 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25365 \reserved@a
25366 \fi
25367 \fi}
25368 \renewcommand*{\tocstyle@numberline}[1]{%
25369 \beginngroup
25370 \ifx\tocstyle@feature@spaceafternumber\relax
25371 \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
25372 \else
25373 \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
25374 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25375 \fi
25376 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25377 \ifdim \@tempdima >
25378 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25379 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25380 @\tocstyledepth\endcsname{\the\@tempdima}%
25381 \fi
25382 \else
25383 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25384 @\tocstyledepth\endcsname{\the\@tempdima}%
25385 \fi
25386 \endgroup
25387 \iftocstyle@indentnotnumbered
25388 \hskip -\if@RTL\rightskip\else\leftskip\fi
25389 \fi
25390 \ifcase \tocstyle@indentstyle
25391 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25392 \or

```



```

25393 \hb@xt@{\tempdima{\tocstyle@numberline{#1}\hfil}%
25394 \else
25395 \ifx\tocstyle@feature@spaceafternumber\relax
25396 \hbox{\tocstyle@numberline{#1}\enskip}%
25397 \else
25398 \hbox{\tocstyle@numberline{#1}\hskip
25399 \tocstyle@feature@spaceafternumber\relax}%
25400 \fi
25401 \fi
25402 }
25403 \AtBeginDocument{%
25404 \ifcsname l@part\endcsname
25405 \ifcsname l@chapter\endcsname
25406 \setbox\@tempboxa\vbox{\hsize\maxdimen
25407 \l@part{\tocstyle@l@define{part}{-1}}{}}%
25408 \else
25409 \setbox\@tempboxa\vbox{\hsize\maxdimen
25410 \l@part{\tocstyle@l@define{part}{0}}{}}%
25411 \fi
25412 \fi
25413 \ifcsname l@chapter\endcsname
25414 \setbox\@tempboxa\vbox{\hsize\maxdimen
25415 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
25416 \fi
25417 \ifcsname l@section\endcsname
25418 \setbox\@tempboxa\vbox{\hsize\maxdimen
25419 \l@section{\tocstyle@l@define{section}{1}}{}}%
25420 \fi
25421 \ifcsname l@subsection\endcsname
25422 \setbox\@tempboxa\vbox{\hsize\maxdimen
25423 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
25424 \fi
25425 \ifcsname l@subsubsection\endcsname
25426 \setbox\@tempboxa\vbox{\hsize\maxdimen
25427 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25428 \fi
25429 \ifcsname l@paragraph\endcsname
25430 \setbox\@tempboxa\vbox{\hsize\maxdimen
25431 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25432 \fi
25433 \ifcsname l@subparagraph\endcsname
25434 \setbox\@tempboxa\vbox{\hsize\maxdimen
25435 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25436 \fi
25437 \ifcsname l@table\endcsname
25438 \setbox\@tempboxa\vbox{\hsize\maxdimen
25439 \l@table{\tocstyle@l@define{table}{1}}{}}%
25440 \fi
25441 \ifcsname l@figure\endcsname
25442 \setbox\@tempboxa\vbox{\hsize\maxdimen
25443 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
25444 \fi
25445 \def\@tempa#1#2#3#4#5{%
25446 \ifnum #1>\c@tocdepth \else

```



```

25447 \vskip \z@ \@plus.2\p@
25448 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@toc
25449 \parindent #2\relax\@afterindenttrue
25450 \interlinepenalty\@M
25451 \leavevmode
25452 \@tempdima #3\relax
25453 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
25454 {#4}\nobreak
25455 \leaders\hbox{$\m@th
25456 \mkern \dotsep mu\hbox{.}\mkern \dotsep
25457 mu$}\hfill
25458 \nobreak
25459 \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
25460 \par}%
25461 \fi}%
25462 \ifx\@dottedtocline\@tempa\else
25463 \tocstyle\macrochangewarning\@dottedtocline
25464 \fi
25465 \let\tocstyle\@saved@dottedtocline\@dottedtocline
25466 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
25467 \ifx\numberline\@tempa\else
25468 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
25469 \ifx\numberline\@tempa\else
25470 \tocstyle\macrochangewarning\numberline
25471 \fi
25472 \fi
25473 \let\tocstyle\@saved\@numberline\@numberline
25474 }
25475 \renewcommand*{\tocstyle@l@define}[2]{%
25476 \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
25477 \edef\@tempa{%
25478 \noexpand\global\noexpand\let
25479 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
25480 \expandafter\noexpand\csname l@#1\endcsname
25481 \noexpand\gdef
25482 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
25483 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
25484 \noexpand\g@addto@macro\noexpand\tocstyle\activate@all@l{%
25485 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25486 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
25487 }%
25488 }%
25489 \PackageInfo{tocstyle}{prepare \expandafter\string
25490 \csname l@#1\endcsname\space for redefinition}%
25491 \@tempa
25492 }

```

160 File todonotes-xetex-bidi.def

```

25493 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
25494 \newif\if@bidi@todonotes@textdirection@RTL
25495 \newif\if@bidi@todonotes@figposition@right
25496 \newcommand{\@bidi@todonotes@align}{}%
25497 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%

```



```

25498 \newcommand{\@bidi@todonotes@textdirection}{}%
25499 \define@choicekey{todonotes}{textdirection}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
25500 \ifcase\bidi@todonotes@tempb\relax
25501 \@bidi@todonotes@textdirection@RTLtrue
25502 \let\bidi@todonotes@textdirection\RLE
25503 \or
25504 \@bidi@todonotes@textdirection@RTLfalse
25505 \let\bidi@todonotes@textdirection\LRE
25506 \fi}
25507 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
25508 \ifcase\bidi@todonotes@tempb\relax
25509 \@bidi@todonotes@figposition@righttrue
25510 \or
25511 \@bidi@todonotes@figposition@rightfalse
25512 \fi}
25513 \if@todonotes@disabled%
25514 \else % \if@todonotes@disabled
25515 \renewcommand{\@todonotes@drawInlineNote}{%
25516 \if@todonotes@dviStyle%
25517 {\par\noindent\begin{tikzpicture}[remember picture]%
25518 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25519 \if@todonotes@authorgiven%
25520 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
25521 \else%
25522 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25523 \fi
25524 {\par\noindent\begin{tikzpicture}[remember picture]%
25525 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25526 \else%
25527 {\par\noindent\begin{tikzpicture}[remember picture]%
25528 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25529 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
25530 \if@todonotes@authorgiven%
25531 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
25532 \else%
25533 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25534 \fi};%
25535 \end{tikzpicture}\par}%
25536 \fi}%
25537 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25538 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25539 \node [coordinate] (inText) {};%
25540 \end{tikzpicture}%
25541 \marginpar[{} Draw note in left margin
25542 \@todonotes@drawMarginNote%
25543 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
25544 }]{% Draw note in right margin
25545 \@todonotes@drawMarginNote%
25546 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
25547 }%
25548 }%
25549 \renewcommand{\@todonotes@drawMarginNote}{%
25550 \if@todonotes@dviStyle%
25551 \begin{tikzpicture}[remember picture]%

```



```

25552         \draw node[notestyle] {};%
25553     \end{tikzpicture}}\%
25554     \begin{minipage}{\@todonotes@textwidth}%
25555     \if@todonotes@authorgiven%
25556         \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25557     \else%
25558         \@todonotes@sizecommand \@todonotes@text%
25559     \fi%
25560     \end{minipage}}\%
25561     \begin{tikzpicture}[remember picture]%
25562         \draw node[notestyle] (inNote) {};%
25563     \end{tikzpicture}%
25564 \else%
25565     \let\originalHbadness\hbadness%
25566     \hbadness 100000%
25567     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
25568         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25569         \node(X){\vphantom{X}};%
25570         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25571         \if@todonotes@authorgiven%
25572             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@sizecommand\@todonotes@author};%
25573             \node(Y)[below=of X]{};%
25574             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25575         \else%
25576             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25577         \fi%
25578     \end{tikzpicture}%
25579     \hbadness \originalHbadness%
25580 \fi}%
25581 \renewcommand{\missingfigure}[2]{}%
25582 \setkeys{todonotes}{#1}%
25583 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25584 \par
25585 \noindent
25586 \begin{tikzpicture}
25587 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25588 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25589 \if@bidi@todonotes@figposition@right%
25590 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25591 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25592 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25593 \if@bidi@todonotes@figposition@right%
25594 \end{scope}
25595 \begin{scope}[xshift=-3.8cm]
25596 \draw (2, -0.3) node[right, text
25597 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
25598 \if@bidi@todonotes@figposition@right%

```




```

25606 \end{scope}
25607 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25608 \fi%
25609 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@textdirection}}
25610 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@textdirection}}
25611 \if@bidi@todonotes@figposition@right%
25612 \end{scope}
25613 \fi%
25614 \end{tikzpicture}\hfill
25615 }% Ending \missingfigure command
25616 \fi % Ending \@todonotes@ifdisabled
25617 \presetkeys%
25618     {todonotes}%
25619     {align=left,%
25620     textdirection=lefttoright,%
25621     figposition=left}{}%

```

161 File wrapfig-xetex-bidi.def

```

25622 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package]
25623 \let\WF@everypar\@everypar
25624 \def\WF@putfigmaybe{%
25625 \ifinner
25626 \vskip-\parskip \global\WF@floatfalse
25627 \let\pagetotal\maxdimen % kludge flag for "not top of page"
25628 \else % outer page
25629 \tempdima\pagedepth % save page depth
25630 {\advance\parskip\tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25631 \penalty\interlinepenalty % update pg. parameters
25632 \tempdimb\pagegoal \advance\tempdimb-\pagetotal % room left on page
25633 \ifdim\tempdimb<\z@ % \WF@info{Page overfull already;}%
25634 \global\WF@floatfalse
25635 \ifdim-\tempdimb>\pageshrink \else \pagebreak \fi
25636 \else
25637 \ifdim\WF@size>\tempdimb
25638 \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25639 \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25640 \ifdim\pagefilstretch>\z@ \dimen@\tempdimb \fi
25641 \ifdim\pagefillstretch>\z@ \dimen@\tempdimb \fi
25642 \advance\dimen@.5\baselineskip
25643 \ifdim\dimen@>\tempdimb % \WF@info{Page nearly full; can stretch;}%
25644 \global\WF@floatfalse \pagebreak
25645 \fi
25646 \else % \WF@info{Fits in \the\tempdimb;}%
25647 \global\WF@floatfalse
25648 \fi\fi
25649 \vskip\tempdima\relax % (return erased page depth)
25650 \fi
25651 \noindent
25652 \ifWF@float
25653 \WF@fltmes
25654 \else % putting here;
25655 \WF@info{Put \WF@wfname here;}%
25656 {\ifodd\if@twoside\c@page\else\one\fi % assign l/r to i/o placement

```



```

25657 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
25658 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
25659 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
25660 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25661 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25662 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
25663 \xdef\WF@adjlw{\the\@tempdima}%
25664 \ifnum `l=\WF@place % fig on left
25665 \if@RTL%
25666 \kern\@tempdimb \kern\columnsep
25667 \def\@tempa{\hss}% position to left of the gap
25668 \else%
25669 \hss % figure overlaps space to the left
25670 \def\@tempa{\kern\columnsep}% position to left of the gap
25671 \fi%
25672 \else % fig on right
25673 \if@RTL%
25674 \hss
25675 \@tempdima\z@
25676 \def\@tempa{\kern\columnsep}
25677 \else%
25678 \@tempdima\z@ % no left indentation
25679 \kern\@tempdimb \kern\columnsep
25680 \def\@tempa{\hss}% figure overlaps space to the right
25681 \fi%
25682 \fi
25683 \ifdim\@tempdimb<\hsize
25684 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25685 \xdef\WF@adjtlm{\the\@tempdima}%
25686 \else
25687 \xdef\WF@wrapil{\z@ \the\hsize}%
25688 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
25689 \fi
25690 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25691 \global\advance\WF@size-\intextsep
25692 \else % \WF@info{Putting \WF@wfname in middle of page}%
25693 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25694 \fi \dp\WF@box\z@ \box\WF@box \@tempa
25695 }% end \hbox to 0pt
25696 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25697 \fi}

```

162 File xcolor-xetex-bidi.def

```

25698 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25699 \long\def\color@b@x#1#2#3%
25700 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
25701 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
25702 \dimen@ht\z@\advance\dimen@\fbboxsepht\z@\dimen@
25703 \dimen@dp\z@\advance\dimen@\fbboxsepdp\z@\dimen@
25704 {\#1{\#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
25705 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
25706 \DeclareRobustCommand\color
25707 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}

```



```

25708 \def\@undeclaredcolor[#1]#2%
25709 {\begingroup
25710 \let\@cls\@empty
25711 \XC@getmodclr12{#1}{#2}{}}%
25712 {\ifblendcolors
25713 \ifx\colorblend\@empty\else
25714 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
25715 \XC@coremodel\@mod\@clr\xcolor@{}}\@mod\@clr
25716 \fi
25717 \fi
25718 \ifconvertcolorsU
25719 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25720 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25721 \fi
25722 \ifmaskcolors
25723 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25724 \let\@mod\XC@mmod
25725 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25726 \expandafter\XC@mul\@tmp,\@clr
25727 \fi
25728 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25729 \expandafter\endgroup\@tmp}}
25730 \def\@declaredcolor#1%
25731 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25732 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25733 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25734 \ifconvertcolorsU\XC@tsttrue\fi
25735 \fi
25736 \ifXC@tst
25737 \expandafter\XC@declaredcolor\else
25738 \expandafter\XC@declaredc@lor\fi}
25739 \def\XC@undeclaredcolor#1#2%
25740 {\@ifundefinedmodel{#1}%
25741 {\c@lor@error{model `#1'}}%
25742 {\@nameuse{color@#1}\current@color{#2}}%
25743 \edef\XC@current@color{\noexpand\xcolor@{}}{\current@color}{#1}{#2}}%
25744 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25745 \def\XC@declaredc@lor
25746 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}}%
25747 \edef\current@color{\XC@current@color}%
25748 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25749 \DeclareRobustCommand\bidicolor
25750 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
25751 \def\@bidiundeclaredcolor[#1]#2%
25752 {\begingroup
25753 \let\@cls\@empty
25754 \XC@getmodclr12{#1}{#2}{}}%
25755 {\ifblendcolors
25756 \ifx\colorblend\@empty\else
25757 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
25758 \XC@coremodel\@mod\@clr\xcolor@{}}\@mod\@clr
25759 \fi
25760 \fi
25761 \ifconvertcolorsU

```



```

25762 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25763 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25764 \fi
25765 \ifmaskcolors
25766 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25767 \let\@mod\XC@mmod
25768 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25769 \expandafter\XC@mul\@tmp,\@clr
25770 \fi
25771 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
25772 \expandafter\endgroup\@tmp}}
25773 \def\XC@bidiundeclaredcolor#1#2%
25774 {\@ifundefinedmodel{#1}%
25775 {\c@lor@error{model `#1'}}%
25776 {\@nameuse{color@#1}\current@color{#2}%
25777 \edef\XC@current@color{\noexpand\xcolor@}{\current@color}{#1}{#2}}%
25778 \XC@display}}
25779 \def\@bidideclaredcolor#1%
25780 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25781 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25782 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25783 \ifconvertcolorsU\XC@tsttrue\fi
25784 \fi
25785 \ifXC@tst
25786 \expandafter\XC@bidideclaredcolor\else
25787 \expandafter\XC@bidideclaredc@lor\fi}
25788 \def\XC@bidideclaredcolor
25789 {\XC@split\XC@tmp
25790 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
25791 \expandafter\endgroup\@tmp}
25792 \def\XC@bidideclaredc@lor
25793 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
25794 \edef\current@color{\XC@current@color}%
25795 \XC@display}
25796 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1}{#2}}
25797 \def\color@fbbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
25798 \def\color@fb@x#1#2#3#4%
25799 {\color@b@x{\fbboxsep\z@\bidicolor#1}{#2}\XC@fbbox}%
25800 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}
25801 \def\color@setgroup{\begingroup\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

163 File latex-xetex-bidi.def

```

25802 \ProvidesFile{latex-xetex-bidi.def}[2025/01/03 v1.5.2 bidi adaptations for `latex.ltx' for
25803 \newcommand{\TeXXeTOn}{\TeXXeTstate@ne}
25804 \newcommand{\TeXXeTOff}{\TeXXeTstate@z@}
25805 \TeXXeTOn
25806 \def\bidi@RTL@everypar{\setbox\z@lastbox\ifRTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
25807 \let\bidi@o@everypar=everypar
25808 \newtoks\bidi@n@everypar
25809 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
25810 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
25811 \let\everypar=\bidi@n@everypar
25812 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}

```



```

25813 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
25814 \protected\def\hboxR{\hbox\bgroup
25815   \everyhbox{%
25816     \aftergroup\egroup
25817     \everyhbox{}%
25818     \beginR
25819     \@hboxRconstructtrue
25820     \bgroup
25821     \aftergroup\endR
25822     \aftergroup\egroup
25823   }\hbox}
25824 \protected\def\hboxL{\hbox\bgroup
25825   \everyhbox{%
25826     \aftergroup\egroup
25827     \everyhbox{}%
25828     \beginL
25829     \@hboxRconstructfalse
25830     \bgroup
25831     \aftergroup\endL
25832     \aftergroup\egroup
25833   }\hbox}
25834 \protected\def\vboxR{\vbox\bgroup
25835   \everyvbox{%
25836     \aftergroup\egroup
25837     \everyvbox{}%
25838     \@RTLtrue
25839     \@RTLtabtrue
25840     \bgroup
25841     \aftergroup\egroup
25842   }\vbox}
25843 \protected\def\vboxL{\vbox\bgroup
25844   \everyvbox{%
25845     \aftergroup\egroup
25846     \everyvbox{}%
25847     \@RTLfalse
25848     \@RTLtabfalse
25849     \bgroup
25850     \aftergroup\egroup
25851   }\vbox}
25852 \newcommand*{\bidi@leftskip}{\if@RTL\righskip\else\leftskip\fi}
25853 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\righskip\fi}
25854 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
25855 \def\endLTR{\par}
25856 \newenvironment{LTR*}{\LTR
25857   \everypar{%
25858     {\setbox\z@\lastbox
25859       \ifvoid\z@
25860         \kern-\parindent
25861       \fi}%
25862   }%
25863 }{\endLTR\@endpetrue}
25864 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
25865 \def\endRTL{\par}
25866 \newenvironment{RTL*}{\RTL

```



```

25867 \everypar{%
25868   {\setbox\z@\lastbox
25869     \ifvoid\z@
25870       \kern-\parindent
25871     \fi}%
25872 }%
25873 }{\endRTL\@endpetrue}
25874 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\@bidi@beamer@ragged}
25875 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTL@tabfalse\@bidi@beamer@ragged}
25876 \let\unsetRTL=\setRTL
25877 \let\unsetLTR=\setRTL
25878 \let\LR=\LRE
25879 \let\RL=\RLE
25880 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
25881 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
25882 \let\@ensure@RL=\@ensure@RTL
25883 \let\@ensure@LR=\@ensure@LTR
25884 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
25885 \let\@ensure@maindir=\@ensure@dir
25886 \def\@RTL{RTL}
25887 \def\@LTR{LTR}
25888 \def\save@dir{\if@RTL\gdef\save@@dir{RTL}\else\gdef\save@@dir{LTR}\fi}
25889 \def\reset@dir{\ifx\save@@dir\@RTL\setRTL\else\ifx\save@@dir\@LTR\setLTR\else\relax\fi}
25890 \let\@TeX\TeX
25891 \def\TeX{\@ensure@LTR{\@TeX}}
25892 \let\@LaTeX\LaTeX
25893 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
25894 \let\@LaTeXe\LaTeXe
25895 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
25896 \long\def\bidi@reflect@box#1{%
25897   \leavevmode
25898   \setbox\z@\hbox{#1}}%
25899   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
25900   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
25901 }
25902 \if@bidi@csundef{XeTeX}{%
25903   \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25904     \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
25905 }%
25906 \let\@bidi@orig@XeTeX\XeTeX
25907 \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
25908 }
25909 \if@bidi@csundef{XeLaTeX}{%
25910   \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25911     \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
25912 }%
25913 \let\@bidi@orig@XeLaTeX\XeLaTeX
25914 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
25915 }
25916 \let\setRL=\setRTL
25917 \let\setLR=\setLTR
25918 \let\unsetRL=\setLTR
25919 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
25920 \ApplyPatchIfPackageLoaded{array}{%

```



```

25921 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25922 \leavevmode
25923 \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
25924 \let\dollarend\endgroup
25925 \@tabarray}
25926 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
25927 }{%
25928 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25929 \leavevmode \hbox \bgroup
25930 $\left.\let\@acol\@tabacol
25931 \let\@classz\@tabclassz
25932 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
25933
25934 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
25935 \egroup\right\rbrace $\egroup}}
25936 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
25937 \ialign{##\hfil$\quad{##}\hfil\crr#1\crr}}\right\}
25938 \renewenvironment{RTLcases}{%
25939 \bidi@matrix@check\RTLcases\env@RTLcases
25940 }{%
25941 \endbidi@tabular@RTLcases%
25942 }
25943 \def\env@RTLcases{%
25944 \let\@ifnextchar\bidi@new@ifnextchar
25945 \def\arraystretch{1.2}%
25946 \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
25947 }
25948 \def\SepMark#1{\gdef\@SepMark{#1}}
25949 \SepMark{.}
25950 \def\@thmcountersep{\@SepMark}
25951 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
25952 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
25953 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
25954 \newcommand*{\bidi@thebibliography@font@hook}{}
25955 \def\list#1#2{%
25956 \ifnum \@listdepth >5\relax
25957 \toodeep
25958 \else
25959 \global\advance\@listdepth\@ne
25960 \fi
25961 \rightmargin\z@
25962 \listparindent\z@
25963 \itemindent\z@
25964 \csname @list\romannumeral\the\@listdepth\endcsname
25965 \def\@itemlabel{#1}%
25966 \let\makelabel\@mklab
25967 \@nmbrrlistfalse
25968 #2\relax
25969 \@trivlist
25970 \parskip\parsep
25971 \parindent\listparindent
25972 \advance\linewidth -\rightmargin
25973 \advance\linewidth -\leftmargin
25974 \if@bidi@list@minipage@parbox

```



```

25975 \if@RTL
25976 \advance\@totalleftmargin \leftmargin
25977 \else
25978 \advance\@totalleftmargin \rightmargin
25979 \fi
25980 \else
25981 \if@hboxRconstruct
25982 \if@bidi@list@minipage@parbox@not@nob
25983 \if@RTL
25984 \advance\@totalleftmargin \rightmargin
25985 \else
25986 \advance\@totalleftmargin \leftmargin
25987 \fi
25988 \else
25989 \if@RTL
25990 \advance\@totalleftmargin \leftmargin
25991 \else
25992 \advance\@totalleftmargin \rightmargin
25993 \fi\fi
25994 \else
25995 \if@RTL
25996 \advance\@totalleftmargin \rightmargin
25997 \else
25998 \advance\@totalleftmargin \leftmargin
25999 \fi\fi\fi
26000 \parshape \@ne \@totalleftmargin \linewidth
26001 \ignorespaces}
26002 \long\def\@iiparbox#1#2[#3]#4#5{%
26003 \leavevmode
26004 \@pboxswfalse
26005 \if@hboxRconstruct
26006 \@bidi@list@minipage@parbox@not@nobtrue
26007 \fi
26008 \if@RTL
26009 \ifx#1t%
26010 \@bidi@list@minipage@parboxtrue
26011 \else
26012 \ifx#1b%
26013 \@bidi@list@minipage@parboxtrue
26014 \fi
26015 \fi
26016 \fi
26017 \setlength\@tempdima{#4}%
26018 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
26019 \ifx\relax#2\else
26020 \setlength\@tempdimb{#2}%
26021 \edef\@parboxto{to\the\@tempdimb}%
26022 \fi
26023 \if#1b\vbox
26024 \else\if #1t\top
26025 \else\ifmmode\center
26026 \else\@pboxswtrue $\center
26027 \fi\fi\fi
26028 \@parboxto{\let\hss\vss\let\unhbox\unvbox

```




```

26029      \csname bm@#3\endcsname}%
26030      \if@pboxsw \m@th$\fi
26031      \@end@tempboxa}
26032 \newenvironment{LTRitems}
26033     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26034      \if@bidi@list@minipage@parbox
26035      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26036      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26037      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26038      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26039      \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26040      \ignorespaces}{\vskip\z@}
26041 \newenvironment{RTLitems}
26042     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26043      \if@bidi@list@minipage@parbox
26044      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26045      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26046      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26047      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26048      \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26049      \ignorespaces}{\vskip\z@}
26050 \newenvironment{LTRbibitems}
26051     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26052      \if@bidi@list@minipage@parbox
26053      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26054      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26055      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26056      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26057      \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26058      \ignorespaces}{\vskip\z@}
26059 \newenvironment{RTLbibitems}
26060     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26061      \if@bidi@list@minipage@parbox
26062      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26063      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26064      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26065      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26066      \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26067      \ignorespaces}{\vskip\z@}
26068 \def\raggedright{%
26069   \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26070   \leftskip\z@skip
26071   \parindent\z@\parfillskip\z@skip}
26072 \let\@bidi@orig@raggedleft\raggedleft
26073 \let\@bidi@orig@raggedright\raggedright
26074 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRco
26075 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRco
26076 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26077 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
26078 \DeclareRobustCommand\centerline[1]{%
26079 \if@RTL\@@line{\hss\beginR#1\endR\hss}
26080 \else\@@line{\hss#1\hss}\fi}
26081 \def\@bidi@orig@leftline#1{%
26082 \if@RTL\@@line{\beginR#1\endR\hss}

```



```

26083 \else\@@line{#1\hss}\fi}
26084 \def\ bidi@orig@rightline#1{%
26085 \if@RTL\@@line{\hss\beginR#1\endR}
26086 \else\@@line{\hss#1}\fi}
26087 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\ bidi@orig@rightline{#1}\else\ bidi@orig@lef
26088 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\ bidi@orig@leftline{#1}\else\ bidi@orig@rig
26089 \DeclareRobustCommand\bidirlap[1]{\hb@xt@\z@\{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26090 \DeclareRobustCommand\bidillap[1]{\hb@xt@\z@\{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26091 \def\@hangfrom#1{\setbox\@tempboxa\hbox{\{#1}\}%
26092 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
26093 \def\narrower{%
26094 \advance\if@RTL\rightskip\else\leftskip\fi\parindent
26095 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
26096 \DeclareRobustCommand\underline[1]{%
26097 \relax
26098 \ifmmode\@@underline{#1}%
26099 \else
26100 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26101 \else
26102 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26103 \if@compatibility
26104 \let\undertext=\underline
26105 \fi
26106 \def\@tabular{%
26107 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26108 $\let\@acol\@tabacol
26109 \let\@classz\@tabclassz
26110 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26111 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
26112 \egroup $\if@RTLtab\endR\fi\egroup}
26113 \expandafter \let \csname endtabular*\endcsname = \endtabular
26114 \def\@array[#1]#2{%
26115 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
26116 \bgroup
26117 \setbox\@arstrutbox\hbox{%
26118 \vrule \@height\arraystretch\ht\strutbox
26119 \@depth\arraystretch \dp\strutbox
26120 \@width\z@}%
26121 \@mkpream{#2}%
26122 \edef\@preamble{%
26123 \ialign \noexpand\@halignto
26124 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
26125 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26126 \let\@tabularnewline\%
26127 \let\par\@empty
26128 \let\sharp##%
26129 \set@typeset@protect
26130 \lineskip\z@skip\baselineskip\z@skip
26131 \ifhmode \@preamerr\z@ \@@par\fi
26132 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
26133 \@preamble}
26134 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26135 \let\@classiv\@arrayclassiv
26136 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}

```



```

26137 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26138   \ifnum \@lastchclass=3 5 \else
26139   \z@ \if #1c\@chnum \z@ \else
26140           \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
26141           \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
26142   \@chclass \if #1|\@ne \else
26143           \if #1@\tw@ \else
26144           \if #1p3 \else \z@ \@preamerr 0\fi
26145 \fi \fi \fi \fi \fi \fi
26146 \fi}
26147 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26148 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
26149 \def\bm@t{\unhbox\@tempboxa\hss}
26150 \def\bm@b{\hss\unhbox\@tempboxa}
26151 \def\@dottedtocline#1#2#3#4#5{%
26152   \ifnum #1>\c@tocdepth \else
26153     \vskip \z@ \@plus.2\p@
26154     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrm
26155     \parindent #2\relax\@afterindenttrue
26156     \interlinepenalty\@M
26157     \leavevmode
26158     \@tempdima #3\relax
26159     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
26160     {#4}\nobreak
26161     \leaders\hbox{$\m@th
26162       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
26163       mu$}\hfill
26164     \nobreak
26165     \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
26166     \par}%
26167 \fi}
26168
26169 \newcount\@bidi@column@check@number
26170
26171 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
26172
26173 \def\@bidi@set@column@status#1#2{%
26174   \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
26175
26176 \if@twocolumn
26177 \newcommand\DetectColumn[3][1]{%
26178   \ifx\@bidi@firstcolumn@status\write\relax
26179     \PackageError{bidi}%
26180       {Option 'DetectColumn' not selected}%
26181       {\string\DetectColumn\space
26182        requires the use of the 'DetectColumn'
26183        option on the package}%
26184   \fi
26185   \global\advance\@bidi@column@check@number\@ne
26186   \edef\@bidi@column@typef{\expandafter\ifx
26187     \csname bidi@column-\the\@bidi@column@check@number\endcsname\relax
26188     0\else
26189     \csname bidi@column-\the\@bidi@column@check@number\endcsname
26190     \fi}%

```



```

26191 \ifcase \bidi@column@type\relax
26192   \ifcase #1\or #2\or#3\fi   % 0 not known use first column as default
26193   \or
26194     #2%   % 1 First column
26195   \or
26196     #3%   % 2 Second (Last column)
26197   \else
26198     \ERROR
26199   \fi
26200   \edef\next{\write\@auxout
26201     {\string\bidi@set@column@status{\bidi@column-\the\bidi@column@check@number}}%
26202     {\bidi@column@type}}}%
26203   \next
26204 }
26205
26206 \AtEndDocument{\def\bidi@set@column@status#1#2{%
26207   \ifnum #2=\bidi@current@column@status\else
26208     \@tempwtrue
26209     \fi}%
26210 }
26211 \fi
26212
26213 \def\RTL@outputdblcol{%
26214   \if@firstcolumn
26215     \global\@firstcolumnfalse
26216     \global\setbox\@leftcolumn\copy\@outputbox
26217     \splitmaxdepth\maxdimen
26218     \vbadness\maxdimen
26219     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26220     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26221     \toks@\expandafter{\topmark}%
26222     \xdef\@firstcoltopmark{\the\toks@}%
26223     \toks@\expandafter{\splitfirstmark}%
26224     \xdef\@firstcolfirstmark{\the\toks@}%
26225     \ifx\@firstcolfirstmark\@empty
26226       \global\let\@setmarks\relax
26227     \else
26228       \gdef\@setmarks{%
26229         \let\firstmark\@firstcolfirstmark
26230         \let\topmark\@firstcoltopmark}%
26231     \fi
26232   \else
26233     \global\@firstcolumntrue
26234     \setbox\@outputbox\vbox{%
26235       \hb@xt@\textwidth{%
26236         \hskip \columnwidth
26237         \hfil
26238         {\normalcolor\vrule \@width\columnseprule}%
26239         \hfil
26240         \hb@xt@\columnwidth{%
26241           \bidi@firstcolumn@status@write%
26242           \box\@leftcolumn \hss}%
26243         \hskip -\textwidth
26244         \hb@xt@\columnwidth{%

```



```

26245     \bidi@lastcolumn@status@write%
26246     \box\@outputbox \hss}%
26247     \hskip \columnsep
26248     \hskip \columnwidth }}%
26249 \@combinedblfloats
26250     \@setmarks
26251     \@outputpage
26252     \begingroup
26253     \@dblfloatplacement
26254     \@startdblcolumn
26255     \@whilesw\if@fcolmade \fi{\@outputpage
26256     \@startdblcolumn}%
26257     \endgroup
26258 \fi}%
26259
26260 \def\LTR@outputdblcol{%
26261 \if@firstcolumn
26262     \global\@firstcolumnfalse
26263     \global\setbox\@leftcolumn\copy\@outputbox
26264     \splitmaxdepth\maxdimen
26265     \vbadness\maxdimen
26266     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26267     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26268     \toks@\expandafter{\topmark}%
26269     \xdef\@firstcoltopmark{\the\toks@}%
26270     \toks@\expandafter{\splitfirstmark}%
26271     \xdef\@firstcolfirstmark{\the\toks@}%
26272     \ifx\@firstcolfirstmark\@empty
26273         \global\let\@setmarks\relax
26274     \else
26275         \gdef\@setmarks{%
26276             \let\firstmark\@firstcolfirstmark
26277             \let\topmark\@firstcoltopmark}%
26278     \fi
26279 \else
26280     \global\@firstcolumntrue
26281     \setbox\@outputbox\vbox{%
26282         \hb@xt@\textwidth{%
26283             \hb@xt@\columnwidth{%
26284                 \bidi@firstcolumn@status@write%
26285                 \box\@leftcolumn \hss}%
26286                 \hfil
26287                 {\normalcolor\vrule \@width\columnseprule}%
26288                 \hfil
26289                 \hb@xt@\columnwidth{%
26290                     \bidi@lastcolumn@status@write%
26291                     \box\@outputbox \hss}}}%
26292     \@combinedblfloats
26293     \@setmarks
26294     \@outputpage
26295     \begingroup
26296     \@dblfloatplacement
26297     \@startdblcolumn
26298     \@whilesw\if@fcolmade \fi{\@outputpage

```



```

26299 \startdblcolumn}%
26300 \endgroup
26301 \fi}%
26302
26303
26304 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
26305 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26306 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26307
26308 \bidi@patchcmd\@makecol{%
26309 \ifvoid\footins
26310 \setbox\@outputbox \box\@cclv
26311 \else
26312 \setbox\@outputbox \vbox {%
26313 \boxmaxdepth \@maxdepth
26314 \unvbox \@cclv
26315 \vskip \skip\footins
26316 \color@begingroup
26317 \normalcolor
26318 \footnoterule
26319 \unvbox \footins
26320 \color@endgroup
26321 }%
26322 \fi
26323 }{%
26324 \ifvoid\footins
26325 \ifvoid\@bidi@copyins@
26326 \setbox\@outputbox \box\@cclv
26327 \else
26328 \setbox\@outputbox \vbox {%
26329 \boxmaxdepth \@maxdepth
26330 \unvbox \@cclv
26331 \vskip \skip\@bidi@copyins@
26332 \color@begingroup
26333 \normalcolor
26334 \unvbox \@bidi@copyins@
26335 \color@endgroup
26336 }%
26337 \fi
26338 \else
26339 \setbox\@outputbox \vbox {%
26340 \boxmaxdepth \@maxdepth
26341 \unvbox \@cclv
26342 \vskip \skip\footins
26343 \color@begingroup
26344 \normalcolor
26345 \footnoterule
26346 \unvbox \footins
26347 \color@endgroup
26348 \ifvoid\@bidi@copyins@
26349 \else
26350 \vskip \skip\@bidi@copyins@
26351 \color@begingroup
26352 \normalcolor

```



```

26353         \unvbox \@bidi@copyins@
26354         \color@endgroup
26355     \fi
26356 }%
26357 \fi
26358 }{}{}
26359
26360 \def\LTRmarginpar{%
26361     \ifhmode
26362         \@bsphack
26363         \@floatpenalty -\@Mii
26364     \else
26365         \@floatpenalty -\@Miii
26366     \fi
26367     \ifinner
26368         \@parmoderr
26369         \@floatpenalty\z@
26370     \else
26371         \@next\@currbox\@freelist{}{}%
26372         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26373         {\@floatpenalty\z@
26374         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
26375     \fi
26376     \ifnextchar [\@LTRxmpar\@LTRympar}
26377 \long\def\@LTRxmpar[#1]#2{%
26378     \@LTRsavemarbox\@marbox{#1}%
26379     \@LTRsavemarbox\@currbox{#2}%
26380     \@xympar}
26381 \long\def\@LTRympar#1{%
26382     \@LTRsavemarbox\@marbox{#1}%
26383     \global\setbox\@currbox\copy\@marbox
26384     \@xympar}
26385 \long\def \@LTRsavemarbox #1#2{%
26386     \global\setbox #1%
26387         \color@vbox
26388         \vtop{%
26389             \hsize\marginparwidth
26390             \@parboxrestore
26391             \LTRmarginparreset
26392             #2%
26393             \@minipagefalse
26394             \outer@nobreak
26395         }%
26396     \color@endbox
26397 }
26398 \def \LTRmarginparreset {%
26399     \reset@font
26400     \normalsize
26401     \@minipagetrue
26402     \everypar{\@minipagefalse\everypar{}\beginL}%
26403 }
26404 \def\RTLmarginpar{%
26405     \ifhmode
26406         \@bsphack

```



```

26407 \floatpenalty -\@Mii
26408 \else
26409 \floatpenalty-\@Miii
26410 \fi
26411 \ifinner
26412 \@parmoderr
26413 \floatpenalty\z@
26414 \else
26415 \@next\@currbox\@freelist{}\{}%
26416 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26417 {\floatpenalty\z@
26418 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26419 \fi
26420 \ifnextchar [\@RTLxmpar\@RTLympar}
26421 \long\def\@RTLxmpar[#1]#2{%
26422 \@RTLSavemarbox\@marbox{#1}%
26423 \@RTLSavemarbox\@currbox{#2}%
26424 \@xympar}
26425 \long\def\@RTLympar#1{%
26426 \@RTLSavemarbox\@marbox{#1}%
26427 \global\setbox\@currbox\copy\@marbox
26428 \@xympar}
26429 \long\def \@RTLSavemarbox #1#2{%
26430 \global\setbox #1%
26431 \color@vbox
26432 \vtop{%
26433 \hsize\marginparwidth
26434 \@parboxrestore
26435 \@RTLmarginparreset
26436 #2%
26437 \@minipagefalse
26438 \outer@nobreak
26439 }%
26440 \color@endbox
26441 }
26442 \def \@RTLmarginparreset {%
26443 \reset@font
26444 \normalsize
26445 \@minipagetrue
26446 \everypar{\@minipagefalse\everypar{}\beginR}%
26447 }
26448 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26449 \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26450 \if@twocolumn
26451 \if@firstcolumn \@tempcnta\m@ne \fi
26452 \else
26453 \if@mparswitch
26454 \ifodd\c@page \else\@tempcnta\m@ne \fi
26455 \fi
26456 \if@reversemargin \@tempcnta -\@tempcnta \fi
26457 \fi
26458 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
26459 \@tempdima\@mparbottom
26460 \advance\@tempdima -\@pageht

```




```

26461 \advance\@tempdima\ht\@marbox
26462 \ifdim\@tempdima >\z@
26463 \latex@warning@no@line {Marginpar on page \thepage\space moved}%
26464 \else
26465 \@tempdima\z@
26466 \fi
26467 \global\@mparbottom\@pageht
26468 \global\advance\@mparbottom\@tempdima
26469 \global\advance\@mparbottom\dp\@marbox
26470 \global\advance\@mparbottom\marginparpush
26471 \advance\@tempdima -\ht\@marbox
26472 \global\setbox \@marbox
26473 \vbox {\vskip \@tempdima
26474 \box \@marbox}%
26475 \global \ht\@marbox \z@
26476 \global \dp\@marbox \z@
26477 \kern -\@pagedp
26478 \nointerlineskip
26479 \hb@xt@\columnwidth
26480 {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
26481 \hskip\columnwidth \hskip\marginparsep
26482 \else
26483 \hskip -\marginparsep \hskip -\marginparwidth
26484 \fi
26485 \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
26486 \nointerlineskip
26487 \hbox{\vrule \height\z@ \width\z@ \depth\@pagedp}}
26488 \long\def\@ympar#1{%
26489 \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
26490 \global\setbox\@currbox\copy\@marbox
26491 \@xympar}
26492 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
26493 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
26494 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
26495 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
26496 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26497 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26498 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26499 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26500 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
26501 \fi}
26502
26503 \newcommand*{\bidi@font@outputpage}{\}
26504
26505 \def\@outputpage{%
26506 \begingroup % the \endgroup is put in by \aftergroup
26507 \let \protect \noexpand
26508 \@resetactivechars
26509 \global\let\@if@newlist\if@newlist
26510 \global\@newlistfalse
26511 \@parboxrestore
26512 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
26513 \bidi@beforeoutputpageshipouthook
26514 \shipout \vbox{%

```



```

26515 \set@typeset@protect
26516 \aftergroup \endgroup
26517 \aftergroup \set@typeset@protect
26518 % correct? or just restore by ending
26519 % the group?
26520 \if@specialpage
26521 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26522 \fi
26523 \if@twoside
26524 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
26525 \ifRTLmain
26526 \let\@themargin\evensidemargin
26527 \else
26528 \let\@themargin\oddsidemargin
26529 \fi
26530 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
26531 \ifRTLmain
26532 \let\@themargin\oddsidemargin
26533 \else
26534 \let\@themargin\evensidemargin
26535 \fi
26536 \fi
26537 \ifx\@thehead\@empty \let\@thehead\hfil \fi
26538 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
26539 \else %% not @twoside
26540 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
26541 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
26542 \fi
26543 \reset@font
26544 \normalsize
26545 \bidi@font@@outputpage
26546 \normalsfcodes
26547 \let\label\@gobble
26548 \let\index\@gobble
26549 \let\glossary\@gobble
26550 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26551 \@begindvi
26552 \vskip \topmargin
26553 \moveright\@themargin \vbox {%
26554 \global\let\bidi@BeforeHeader\@firstofone
26555 \bidi@beforeheaderhook
26556 \setbox\@tempboxa \vbox to\headheight{%
26557 \vfil
26558 \color@hbox
26559 \normalcolor
26560 \hb@xt@\textwidth{\ifRTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if
26561 \color@endbox
26562 }% %% 22 Feb 87
26563 \dp\@tempboxa \z@
26564 \box\@tempboxa
26565 \vskip \headsep
26566 \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
26567 \bidi@beforeoutputboxoutputpagehook
26568 \box\@outputbox

```



```

26569 \global\let\bid@AfterOutputBoxOutputPage\@firstofone
26570 \bid@afteroutputboxoutputpagehook
26571 \global\let\bid@BeforeFooter\@firstofone
26572 \bid@beforefooterhook
26573 \baselineskip \footskip
26574 \color@hbox
26575 \normalcolor
26576 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@RTL
26577 \color@endbox
26578 \global\let\bid@AfterFooter\@firstofone
26579 \bid@afterfooterhook
26580 }%
26581 }%
26582 \global\let\bid@AfterOutputPageShipOut\@firstofone
26583 \bid@afteroutputpageshipouthook
26584 \global\let\if@newlist\@if@newlist
26585 \global \colht \textheight
26586 \stepcounter{page}%
26587 \let\firstmark\botmark
26588 \global\let\bid@AtEndOutputPage\@firstofone
26589 \bid@atendoutputpagehook
26590 }
26591 \long\def\@makecaption#1#2{%
26592 \vskip\abovecaptionskip
26593 \sbox\@tempboxa{#1: #2}%
26594 \ifdim \wd\@tempboxa >\hsize
26595 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26596 \else
26597 \global \@minipagefalse
26598 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
26599 \fi
26600 \vskip\belowcaptionskip}
26601 \let\bid@saved@eqno=\eqno
26602 \let\bid@saved@leqno=\leqno
26603 \def\eqno{\ifnum\predisplaydirection<\z@ \bid@saved@leqno \else \bid@saved@eqno \fi}
26604 \def\leqno{\ifnum\predisplaydirection<\z@ \bid@saved@eqno \else \bid@saved@leqno \fi}
26605 \ApplyPatchIfPackageLoadedF{amsmath}{
26606 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26607 }
26608 \input{footnote-xetex-bidi.def}
26609 \if@twocolumn
26610 \let\autofooterule\relax
26611 \let\leftfootnoterule\relax
26612 \let\rightfootnoterule\relax
26613 \textwidthfootnoterule
26614 \fi
26615 \if@bid@csundef{\idxitem}{}{%
26616 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}%
26617 }
26618
26619 \ApplyPatchToClassesIfPackageLoadedF{%
26620 book, %
26621 report %
26622 }{flowfram}

```



```

26623
26624 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
26625
26626 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
26627   fleqn, %
26628   leqno%
26629 }[clo]
26630
26631 \ApplyPatchToClasses{%
26632   amsart, %
26633   amsbook, %
26634   article, %
26635   artikel1, %
26636   artikel2, %
26637   artikel3, %
26638   beamer, %
26639   boek, %
26640   boek3, %
26641   bookest, %
26642   combine, %
26643   extbook, %
26644   extletter, %
26645   extarticle, %
26646   extreport, %
26647   imspoc, %
26648   letter, %
26649   memoir, %
26650   rapport1, %
26651   rapport3, %
26652   refrep, %
26653   scrartcl, %
26654   scrbook, %
26655   screprt %
26656 }
26657
26658 \ApplyPatchToPackages{%
26659   adjmulticol, %
26660   algorithm2e, %
26661   amsmath, %
26662   amstext, %
26663   amsthm, %
26664   arydshln, %
26665   array, %
26666   beamerbaseauxtemplates, %
26667   beamerbaseboxes, %
26668   beamerbasecolor, %
26669   beamerbasecompatibility, %
26670   beamerbaseframecomponents, %
26671   beamerbaseframesize, %
26672   beamerbaselocalstructure, %
26673   beamerbasemisc, %
26674   beamerbasenavigation, %
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