

# The `intopdf` package\*

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This package defines a command `\attachandlink` which allows to attach an arbitrary file to your PDF document and linking to it from the main text. It is inspired by the T<sub>E</sub>XStack Exchange question [Embed non-PDF files \(e.g., BibTeX\) into PDF with hyperlink in the PDF](#).

## 1 Usage

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`\attachandlink` [*filespec*]{*filename*}[*mime-type*]{*Description*}{*link text*}

The text *link text* is inserted, linking to the file *filename* which is attached to the document.

*Description* should be a description of the file and will be shown by the PDF viewer in the attached files section and sometimes in a mouseover tooltip.

*mime-type* should be the MIME-Type of *filename*. Currently *mime-type* is mandatory but I hope to make it optional in a later release. Additionally *filespec* can be used to specify the filename which will be shown in the PDF viewer. If this is not given, it will default to *filename*.

## 2 Example

The source of the document is attached here.

```
The source of the document is attached
\attachandlink{intopdf.dtx}[application/x-tex]
  {The source of this document}{here}.
```

## 3 The implementation

1 `<@=@intopdf>`

`\attachandlink` The main functionality.

```
\intopdf_attach_link:nnnnn 2 \str_new:N \l__intopdf_mime_str
\intopdf_attach_link:nnnn 3 \str_new:N \l__intopdf_filename_str
4 \str_new:N \l__intopdf_description_str
5
```

---

\*This document corresponds to `intopdf` 0.4.0, dated 2021/02/26.

```

6 \cs_new_protected:Nn\intopdf_attach_link:nnnnn{
7   \leavevmode
8   \str_set_convert:Nnnn \l__intopdf_mime_str { #3 } { default } { utf8/name }
9   \pdf_object_unnamed_write:nx {fstream} { {
10    /Subtype /\l__intopdf_mime_str
11  } { #2 } }
12  \str_set_convert:Nnnn \l__intopdf_filename_str { #1 } { default } { utf16/string }
13  \str_set_convert:Nnnn \l__intopdf_description_str { #4 } { default } { utf16/string }
14  \pdf_object_unnamed_write:nx {dict} {
15    /Type /Filespec
16    /F (\l__intopdf_filename_str)
17    /EF << /F~\pdf_object_ref_last: >>
18    /Desc (\l__intopdf_description_str)
19  }
20  \__pdf_backend_link_begin_user:nw {
21    \Hy@setpdfborder
22    \tl_if_empty:NF\@pdfhighlight{
23      /H\@pdfhighlight
24    }
25    \cs_if_free:NF\@urlbordercolor{
26      /C[\@urlbordercolor]
27    }
28  }{
29    /Subtype /Link
30  }
31  \__pdf_backend_link_begin_user:nw { } {
32    /Subtype /FileAttachment
33    /FS~\pdf_object_ref_last:
34    /F~416
35    /CA~0
36    /Contents (\l__intopdf_description_str)
37  }
38  #5
39  \__pdf_backend_link_end:
40  \__pdf_backend_link_end:
41  }
42  \cs_new_protected:Npn \intopdf_attach_link:nnnn #1{
43    \intopdf_attach_link:nnnn{#1}{#1}
44  }
45  \NewDocumentCommand\attachandlink{0{#2}mr []mm}{
46    \intopdf_attach_link:nnnn{#1}{#2}{#3}{#4}{#5}
47  }

```

(End definition for `\attachandlink`, `\intopdf_attach_link:nnnn`, and `\intopdf_attach_link:nnnn`. These functions are documented on page 1.)

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## Change History

v0.0.1		
General: Initial version .....	1	Switched to <code>l3pdf</code> instead of using primitives directly. Currently some internal functions from <code>l3backend</code> are needed too for handling links.
v0.2.0		
\intopdf_attach_link:nmn: Added filespec support. (The first optional argument) Added		
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