The `todonotes` package

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Abstract

The `todonotes` package allows you to insert to–do items in your document. At any point in the document a list of all the inserted to–do items can be listed with the \listoftodos command.

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*This document corresponds to todonotes v1.1.3, dated 2020/08/18.*
1 Introduction

The todonotes package makes three commands available to the user: \todo[], \missingfigure{} and \listoftodos. \todo[] and \missingfigure{} makes it possible to insert notes in your document about things that has to be done later (todonotes ...). I developed the basic functionality of the package while I worked on my bachelor project.

Some alternatives for the todonotes package are:

- **easy-todo**
  Depends on color, tocloft and ifthen, small feature set.

- **fixmetodonotes**
  Depends on graphicx, color, transparent, watermark,fix-cm, ulem and tocloft, small feature set.

- **todo**
  Depends on amssymb, medium feature set.

- **fixme**
  Large package with a lot of features.

The main reason for considering other packages is that the todonotes package is quite large and relies heavily on tikz. This can slow down compilation of large documents significantly. The mentioned alternatives have a different feature set and does not rely on tikz, which makes them require fewer resources.

1.1 Usage

\todo
My most common usage of the todonotes package, is to insert an todonotes somewhere in a latex document. An example of this usage is the command
\todo{Make a cake ...}
which renders like. The \todo command has this structure: \todo[(options)]{(todo text)}. The todo text is the text that will be shown in the todonote and in the list of todos. The optional argument options, allows the user to customize the appearance of the inserted todonotes. For a description of all the options see section 1.3.

\missingfigure
The \missingfigure command inserts an image containing an attention sign and the given text. The command takes only one argument \missingfigure{(text)}, a text string that could describe what the figure should consist of. An example of its usage could be
\missingfigure{Make a sketch of the structure of a trebuchet.}
which renders like.
The \listoftodos command inserts a list of all the todos in the current document. \listoftodos takes no arguments. For this document the list of to–do’s looks like.

Todo list

- Make a cake .......................................................... 2
- Figure: Make a sketch of the structure of a trebuchet. .......... 2
- And a green note ..................................................... 5
- Anything but default colors ........................................ 5
- A note without a shadow ........................................... 6
- A note with a shadow ............................................... 6
- Test of option ....................................................... 6
- A note with no line connecting it to the placement in the original text.. 6
- A todonote placed in the text .................................... 6
- Fill those circles .................................................... 6
- A note with a large font size. .................................... 6
- Note with very small font size. .................................. 6
- Short note ............................................................. 6
- Short note with prepend .......................................... 7
- Short note with noprepend ....................................... 7
- Testing ............................................................... 7
- Testing author option ............................................ 7
- Testing author option ............................................ 7
- Testing the option inlinewidth .................................. 7
- Testing the option inlinepar .................................... 7
- Figure: Testing a long text string ................................ 8
- Figure: Testing a long text string ................................ 8
- Figure: Add an image .............................................. 8
- Figure: Testing ..................................................... 9
- Figure: Testing figcolor .......................................... 9
- Test of newly defined command ................................ 13
- Test of newly defined command, requesting a green color ........ 13
- 1: A numbered todonote ......................................... 14
- 2: Another numbered todonote .................................. 14
Comment [HSM1]: Testing first time. ........................................ 14
Comment [HSM2]: Testing second time. ................................. 14
Some lines with a decreased line spacing. This is accomplished using the
setspace package that is included in standard latex distributions. 15
Some lines with a decreased line spacing. This is accomplished without
using any special packages. .......................................................... 15
2do ............................................................................................ 16
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1. Smart notes with links back to the list of todos. .......................... 17
fix text ......................................................................................... 18

The \ todotoc \ command adds an entry to the table of contents for list of
todos. The command should be placed right before the \ listoftodos command.

1.2 Package options

disable

If the option disable is passed to the package, the macros usually defined by the
package (\todo, \listoftodos and \ missingfigure ) are defined as macros with
no effect, and thus all inserted notes are removed.

obeyDraft, obeyFinal

When the option obeyDraft is given, the package checks if the one of the
options draft, draftcls or draftclsonfoot is given (this option is usually given
to the documentclass). If the draft option is given, the functionality of the
package is enabled and otherwise the effect of the package is disabled. The option
obeyFinal does something similar, except that the todonotes package is only
disabled if the final option given.

Use translations of the text strings "List of todos" and "Missing figure". The
default is to use none of these options, which results in english text strings. Currently
the following languages are supported: catalan, croatian, danish, dutch,
english, french, german, ngerman, italian, portuguese, spanish and swedish.

Adds a small colored square in front of all items in the Todo list. The color of
the square is the same as the fill color of the inserted todonote. This can be useful
if there are different types of todos (insert reference, explain in detail, ...) where
the color of the inserted todonote marks the type of todo.

color

These options sets the default colors for the todo command. There are four col-
cors that can be specified. The border color (default bordercolor=black) around
the inserted text, the color behind the inserted text (default backgroundcolor=orange),
the color of the inserted text (default textcolor=black) and the color of the line
connecting the inserted textbox with the current location in the text (default linecolor=orange). Setting the color option to val passes this value on to the
background and line color options. The specified colors must be valid according
to the xcolor package.

tickmarkheight  
tickmarkheight=length set the height of the tickmark at the location where
the todo is inserted, the default value is \textwidth.

**textwidth**  
**textwidth=** length sets the width of a todo item in the margin to length. The width of inline todonotes will allways be the same as the current line width.

**textsize**  
**textsize=** value sets the default text size of the inserted todonotes to the given value. Value is the "name" of the used font size, eg. if the desired font size is \tiny use **textsize=** tiny. The default value is **textsize=** normalsize.

**prependcaption**  
The **prependcaption** option triggers a special behaviour of the **caption=** val option for the todo command, where the given value **val** is inserted in the inserted todonote.

**shadow**  
If the **shadow** option is given, the inserted todonotes will be displayed with a gray shadow. I expect that the option will trigger problems with tikz versions prior to 2.0.

**dvistyle**  
When a document with todonotes is compiled with plain latex (to a dvi-file), there is an issue with the visual appearance\(^1\). The option **dvistyle** changes the appearance of the inserted todonotes to avoid this problem.

**figwidth**  
The **figwidth=** length option sets the default width of the figure inserted by the \textbf{\texttt{\_missingfigure}} command. The default value is \textwidth.

### 1.3 Options for the todo command

There are several options that can be given to the \texttt{\_todo} command. All the options are described here and often I have included examples of the change in visual appearance. Default values for these options can be set using the \texttt{\setuptodonotes} command.

\setuptodonotes{fancyline, color=blue!30}

**disable**  
The **disable** option can be given directly to the todo command. If given the command has no effect.

These options set the color that is used in the current todo command. The color classes is the same as used in the color package options, see section 1.2. Default values can be set by the color options when the todonotes package is loaded. The todo notes inserted in this paragraph is created with the command \texttt{\_todo[\_color=green!40]{And a green note}}. The color of the inserted note could be used to mark different types of tasks (insert references, explain something in detail, ...), this could be streamlined by defining new commands like below.

\texttt{\newcommand{\_insertref}[1]{\_todo[\_color=green!40]{#1}}
\newcommand{\_explainindetail}[1]{\_todo[\_color=red!40]{#1}}}

An example that uses all of the color options is given below.

\texttt{\_todo[\_linecolor=green!70!white, \_backgroundcolor=blue!20!white, \_bordercolor=red, \_textcolor=yellow]{Anything but default colors}.}
If the package is loaded with the \texttt{shadow} option, a shadow is added to all notes, otherwise no shadows are shown. This global setting can be overwritten by the \texttt{shadow} and \texttt{noshadow} options to the \texttt{todo} command. To insert a note with and without shadows, use the \texttt{shadow} and \texttt{noshadow} options as shown here:

\begin{verbatim}
\todo[shadow]{A note with a shadow}
\todo[noshadow]{A note without a shadow}
\end{verbatim}

\texttt{shadow} / \texttt{noshadow}

A note without a shadow

A note with a shadow

\texttt{tickmarkheight}

\texttt{tickmarkheight=\emph{length}} set the height of the tickmark at the location where the \texttt{todo} is inserted. An example of the option in use is shown here.

\begin{verbatim}
\todo[tickmarkheight=\emph{0.1cm}]{Test of option.}
\end{verbatim}

Test of option.

\texttt{line} / \texttt{noline}

A note with no line connecting it to the placement in the original text.

It is possible to place a \texttt{todonote} inside the text instead of placing it in the margin, this could be desirable if the text in the note has a considerable length.

\begin{verbatim}
\todo[inline]{A todonote placed in the text}
\end{verbatim}

A todonote placed in the text

Another usage for the \texttt{inline} option is when you want to add a \texttt{todonote} to a figure caption.

\begin{verbatim}
\begin{wrapfigure}{r}{40mm}
\begin{tikzpicture}
\draw[red] (0, 0) circle(0.45);
\draw[green] (1, 0) circle(0.45);
\draw[blue] (2, 0) circle(0.45);
\end{tikzpicture}
\caption{A text explaining the image.}
\todo[inline]{Fill those circles \ldots}
\end{wrapfigure}
\end{verbatim}

Figure 1: A text explaining the image.

\begin{tikzpicture}
\node[draw, circle, fill=red] at (0,0) {};
\node[draw, circle, fill=green] at (1,0) {};
\node[draw, circle, fill=blue] at (2,0) {};
\end{tikzpicture}

Fill those circles ...  

A very long and tedious note that cannot be on one line in the list of todos.

\texttt{size}

\texttt{size=\emph{val}} changes the size of the text inside the \texttt{todonote}. The commands used to create the notes below are

\begin{verbatim}
\todo[size=\emph{\Large}]{A note with a large font size.}
\todo[size=\emph{\tiny}]{Note with very small font size.}
\end{verbatim}

Note with very small font size.

When the option \texttt{nolist} is given, the \texttt{todo} item will not appear in the list of todos.

The \texttt{caption} option enables the user to specify a short description of the \texttt{todonote} that are inserted in the list of todos instead of the full \texttt{todonote} text.

\footnote{The problem is placement of text inside the colored boxes.}
The effect of this option is altered with the package option `prependcaption` or the `prepend` / `noprepend` option for the `todo` command.

The options `prepend` and `noprepend` can be used for setting whether a given caption should be prepended to the `todo` note or not. Globally this can be set using the `prependcaption` option for the package. Below is the effect of the option shown using the code:

\begin{verbatim}
\todo[prepend, caption={Short note}]{A very long and tedious note that cannot be on one line in the list of todos.}.
\todo[noprepend, caption={Short note with noprepend}]{A very long and tedious note that cannot be on one line in the list of todos.}.
\end{verbatim}

The `fancyline` option inserts a curved arrow, pointing from the inserted note to the insertion point. The option is used like this:

\begin{verbatim}
\todo[fancyline]{Testing.}
\end{verbatim}

The `author` option takes a parameter, the name of the author. The given name is inserted in the `todo` note.

\begin{verbatim}
\todo[author=Xavier]{Testing author option.}
\todo[author=Xavier, inline]{Testing author option.}
\end{verbatim}

The `inlinewidth` option makes it possible to alter the width of inline `todo`s.

\begin{verbatim}
\todo[inline, inlinewidth=5cm]{Testing the option inlinewidth.}
\end{verbatim}

The options `inlinepar` and `noinlinepar` (default) determine whether the inserted inline `todo` note is surrounded with `par` macros that enforce new lines prior to and after inserted inline `todo` notes. This is a line after the inserted `todo` note.

\begin{verbatim}
\todo[inline, inlinewidth=5cm, noinlinepar]{Testing the option inlinepar.}
\end{verbatim}
1.4 Options for the missingfigure command

**figwidth** The *figwidth* option sets the width of the figure inserted by the *missingfigure* command. Length values below 6cm might trigger some problems with the visual appearance. Try to compare the default of the missing figure command, when the option is given or not.

\missingfigure[figwidth=6cm]{Testing a long text string}

Another usage of the option is when *missingfigure* is used in the wrapfigure environment.

\begin{wrapfigure}[1]{r}[2cm]{6cm}
\missingfigure[figwidth=6cm]{Add an image \ldots}
\end{wrapfigure}

**figheight** The *figheight* option changes the height of the inserted missing figure. The default height is 4cm and using values lower than this might cause the warning sign to pop out of the gray area.

\begin{wrapfigure}{l}[2cm]{6cm}
\missingfigure{Testing a long text string}
\end{wrapfigure}

\begin{wrapfigure}{r}[2cm]{6cm}
\missingfigure{Testing a long text string}
\end{wrapfigure}
figcolor

The `figcolor=color` option sets the background color of inserted missing figures. The default color is `black!40`.

\missingfigure[figcolor=white]{Testing figcolor}

1.5 Options for the \listoftodos command

The `\listoftodos` command takes one optional argument, that defines the name of the inserted list of todos.

\listoftodos[I can be called anything]

1.6 Known issues

1.6.1 Package loading order

The todonotes package requires the following packages.
When todonotes are loaded in the preamble, the package checks if these packages all are loaded. If that is not the case it loads the missing packages with no options given. If you want to give some specific options to some of these packages, you have to load them before the todonotes package, otherwise you will get an "Option clash" error when latex works on the document.

If both the menukeys and the xcolor (with the option `table`) package should be loaded, the following order must be used.

\usepackage{table}\{xcolor\}
\usepackage{todonotes}
\usepackage{menukeys}

The following packages must be loaded before the todonotes package:

- polyglossia

### 1.6.2 Wrapping of long lines in list of todos

When a document is compiled with latex (and not pdflatex) long items in the list of todos are not wrapped into several lines, and do instead continue to the right out of the page.

### 1.6.3 Conflicts with the amsart documentclass

The amsart document class redefines some internal commands that is used by the todonotes package, this will cause an malfunctioning \listoftodos command. The following code to circumvent the problem was given by Dan Luecking on comp.text.tex

\makeatletter
\providecommand\@dotsep{5}
\makeatother
\listoftodos\relax

NOT TESTED NOT TESTED NOT TESTED

Dominique suggests the following workaround.

\makeatletter
\providecommand\@dotsep{5}
\def\listtodoname{List of Todos}
\def\listoftodos\{\@starttoc\{t\}t\listtodoname\}
\makeatother
1.6.4 Unknown option "remember picture"

If latex throws the error

Package tikz Error: I do not know what to do with the option ‘‘remember picture’’.

It probably means that your latex installation is outdated, as only newer versions of latex driver for tikz supports the remember picture option. For additional info consult "Section 9.2.2 Producing PDF Output" in the tikz manual.  

1.6.5 Todonotes wrongly placed in the margin

When using some document classes or packages, the todonotes inserted in the page margin can be placed quite oddly. This is often caused by a wrong value of the \marginparwidth length. Try using the code below in your preamble to see if this cures the problem.

\setlength{\marginparwidth}{2cm}

If the todonotes are inserted in the wrong margin, the solution is the \reversemarginpar command. When this command is issued the following marginpars (which todonotes relies on) is inserted in the other margin.

1.6.6 Reduce number of warnings

If the width of the inserted todonotes is forced to be larger than the available space in the margin, a lot of warnings are issued. This can be reduced with the following code.

\usepackage[textwidth=3.7cm]{todonotes}  
\setlength{\marginparwidth}{3.7cm}

1.6.7 Todonotes in footnotes

Placing todonotes in footnotes throws a lot of errors. Richard Stanton comes with the following work around.

\renewcommand{\marginpar}{\marginnote}

1.6.8 Trouble with classicthesis.sty

Problem description on tex.stackexchange.com.

Solution by Stefan Kottwitz. The problem is caused by the redefinition of \marginpar in classicthesis.sty. \marginpar is used by todonotes. It can be fixed by restoring the original meaning, if you don’t need the classicthesis marginpar style. Just add this to your document preamble: \let\marginpar\oldmarginpar
1.6.9 todos in math and floating environments

It is not possible to insert todonotes into math environments or floating environments like figure or table. By replacing the marginpar command with a marginnote this can be enabled. For todos inside math environments the todo must be placed in an mbox or \textrm command.

\documentclass{article}
\usepackage{todonotes}
\usepackage{marginnote}
\let\marginpar\marginnote

\begin{document}
\begin{equation}
a^2=b^2+c^2 \text{\todo{Test}}
\end{equation}
\begin{figure}
\centering
\caption{Caption\todo{tests}.}
\label{fig}
\end{figure}
\end{document}

1.7 Things to improve

This is a list of things I consider to improve sometime in the future. It have not been done yet as I lack the time or skills to implement them. Patches with implementations of these tasks will be appreciated and might be included in the package if it will improve the package quality.

1.7.1 Owner information

Option for the todo command.
\todo[owner={Fabrice}]{Stuff}

Add info on who "owns" the current todo. Idea: Fabrice Niessen

1.7.2 Due date

Option for the todo command.
\todo[due=2008-12-07]{Stuff}

Add info on when the current todo is due. Might be enhanced by a time line of the todos that have a due date assigned. Idea: Fabrice Niessen
1.7.3 Mark accomplished todos
\todo[done]{Stuff}

Idea: Fabrice Niessen

1.8 Usage methods
In this section I have collected some different methods to use the todonotes package.

1.8.1 Define new commands with fixed options
Often there is a need for marking different classes of things to do (add reference, rewrite, ...). One way to do this, is to define some new commands as shown below (idea from Florent B.).
\newcommand{\addref}{\todo[color=red!40]{Add reference.}}
\newcommand{\rewrite}[1]{\todo[color=green!40]{#1}}

To distinguish between the different types of todos, the todonotes package can be loaded with the colorinlistoftodos option, which adds small colored squares to the list of todos.
\usepackage[colorinlistoftodos]{todonotes}

1.8.2 Define new commands with arbitrary default options
If you do not like the default values of the standard todo command, it is possible to define a new command with the similar functionality of \todo with custom default values.
\newcommand{\todoredefined}[2]{\todo[color=red, #1]{#2}}

The new command can now be used like shown below
\todoredefined{Test of newly defined command.}
\todoredefined[color=green]{Test of newly defined command, requesting a green color.}

This can be done with all the accepted options for the \todo command.

1.8.3 Enumerate todonotes
If the inserted todonotes should be enumerated, it is possible to define a new command with the desired behaviour.
\newcounter{todocounter}
\newcommand{\todonum}[2]{\stepcounter{todocounter}\todo[#1]{\thetodocounter: #2}}
The idea is to define a new counter `todocounter`, and insert the value of the counter in each todonote. The new command can be used like
\begin{verbatim}
todonum{A numbered todonote.}
todonum{Another numbered todonote.}
\end{verbatim}

### 1.8.4 Comments "a la Word"

Fabrice Niessen sent me the following use case. The idea is to define a new command `\mycomment` which adds a counter and optionally the initials of the author to the inserted todonote.

\begin{verbatim}
newcounter{mycomment}
newcommand{\mycomment}[2][2][]{%
% initials of the author (optional) + note in the margin
\refstepcounter{mycomment}%
\setstretch{0.7}% spacing
\todo[color={red!100!green!33},size=\small]{%
\textbf{Comment \[
\uppercase{#1}\themycomment\]:}~#2}%
}%
\end{verbatim}

The command `\mycomment[HSM]{Testing first time.}` is displayed like shown in the left margin, and another call of the command is added below `\mycomment[HSM]{Testing second time.}`.

### 1.8.5 Combination with the fixme package

Thomas Arildsen has mailed me this use case. Check the documentation for the `fixme` package, as the code below relies directly on it (the `\FDUser` command is augmented when `\begin{document}` is reached).

\begin{verbatim}
\usepackage[user,nomargin]{fixme}
\usepackage{todonotes}
\newcommand{\FXUser}[2][2]{\todo[inline,size=\small]{{\bfseries #1:} #2}}
\end{verbatim}

### 1.8.6 Altering the line spacing of todonotes

The `setspace` package lets you alter the line spacing of smaller sections of your document. The primary construct is the `spacing` environment, which is demonstrated below.

\begin{verbatim}
\begin{spacing}{0.5}
Some lines with a decreased line spacing. This is accomplished using the setspace package that is included in standard latex distributions.
\end{spacing}
\end{verbatim}

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Some lines with a decreased line spacing. This is accomplished using the \texttt{setspace} package that is included in standard \LaTeX\ distributions.

Using the \texttt{spacing} environment we can define a new \texttt{todo} command using the code below:

\begin{verbatim}
\newcommand{\smalltodo}[2][]
{\todo[caption={#2}, #1]{\begin{spacing}{0.5}#2\end{spacing}}}
\end{verbatim}

Todonotes with decreased line spacing can now be inserted as follows:

\begin{verbatim}
\smalltodo[size=\footnotesize]{
Some lines with a decreased line spacing. This is accomplished using the \texttt{setspace} package that is included in standard \LaTeX\ distributions.}
\end{verbatim}

A different approach is given by Vitaly.

\begin{verbatim}
\newcommand{\tinytodo}[2][]
{\todo[caption={#2}, size=\small, #1]{\renewcommand{\baselinestretch}{0.5}\selectfont#2\par}}
\end{verbatim}

It looks like seen here.

\begin{verbatim}
\tinytodo{
Some lines with a decreased line spacing. This is accomplished without using any special packages.}
\end{verbatim}

### 1.8.7 Marking new / old sections

Sometimes a whole section has to be marked by some means. You might want to try the following.

\begin{verbatim}
\todo[inline, caption={Some text}]{
\begin{minipage}{\linewidth}
Some text that might differ from the text given to the caption option.
\end{minipage}}
\end{verbatim}

It is important to add the \texttt{caption=\texttt{text}} option, otherwise \LaTeX\ will try to embed a \texttt{minipage} in the table of contents which triggers an error. Inside the \texttt{minipage} environment almost anything could be placed, except for other \texttt{todo} commands.

To streamline use the following command was suggested by Stefan Pinnow.

\begin{verbatim}
\newcommand{\todoin}[2][]\{\todo[inline, caption={\texttt{2do}}, #1]{
\begin{minipage}{\textwidth-4pt}#2\end{minipage}}\}
\end{verbatim}
This example renders like
\begin{align}
\sin(\theta)^2 + \cos(\theta)^2 = 1
\end{align}
A formula and a list
\begin{itemize}
\item An item
\end{itemize}

1.8.8 Link to list of todos

Using the hyperref package it is possible to add a link from the inserted todonotes to the list of todos. The example were supplied by Andreas Plank.

% Define a counter for the inserted todonotes.
\newcounter{todoListItems}
\newcommand{\todoTrans}{\[2\]}{\[
% Increment counter
\addtocounter{todoListItems}{1}
\todo[\]

The idea behind the code is to embed a \texttt{hypertext} in each entry in the list of todos. In the todonotes a link to the entry in the list of todos is inserted as an arrow that points upwards. Using the \texttt{\todoTrans} command like below, the following two notes have been inserted.

\todoTrans{papirsflyver}
\todoTrans[inline]{damplokomotiv}
1.8.9 Numbered todonotes

The inserted todonotes can be argumented with the current subsubsection number. The code is shown below.

\newcommand\ntodo[2]{\todo[#1]{\thesubsubsection{}. #2}}

By changing \thesubsubsection to \thecurrentsection, the current section number can be inserted instead of the subsection number. The result looks like. Which were generated by the code
\ntodo{A subsection numbered todo.}.

1.8.10 Combining several modifications

Manduca have combined several of the modifications above into a highly specialized todo command. She uses the code:

\newcounter\todoListItems
\newcommand\sstodo[2]{\addtocounter\todoListItems{1} \todo[caption={\protect\hypertarget{todo\thetodoListItems}{}\thecurrentsection. #2}, #1] \begin{spacing}{1} \hfill \hyperlink{todo\thetodoListItems}{#2} \end{spacing}}

Using this approach it is possible to customize the behavior of the inserted notes to a very high degree.

1.8.11 Alter the appearance of the list of todos

Marco Daniel gives the following example of how to add section numbers to the elements in the list of todos. The code is slightly modified from http://tex.stackexchange.com/questions/18838/replacing-page-number-with-other-counter-in-listoftodos.

An example of the modified list of todos is shown below, the complete code example is given in the example directory.

This is a note ........................................ see 1.1 at p. 2
This is another note .............................. see 1.2 at p. 4

1.8.12 Tikz externalization issues

Using the tikz externalization framework together with todonotes can lead to some problems. One solution is to disable the externalization just before the todo command is issued and then reactivate externalization afterwards. The ruggedtodo handles this deactivation and reactivation.

\usetikzlibrary{external}
\tikzexternalize
\newcommand\ruggedtodo[2]{\tikzexternaldisable\todo[#1]{#2}\tikzexternalenable}
1.8.13  Highlight text to fix

Tobias Winchen provides the following example on how to highlight text related
to the inserted todonote. Example wrong text continues here. Notice that the
code relies on the soul package.

\makeatletter
\if@todonotes@disabled
\newcommand{\hlfix}[2]{#1}
\else
\newcommand{\hlfix}[2]{\texthl{#1}}\todo{#2}
\fi
\makeatother
Example \hlfix{wrong text}{fix text} continues here.
2 Implementation

Identifies the package and loads the packages dependences.

\ProvidesPackage{todonotes}[2018/11/22]
\RequirePackage{ifthen}
\RequirePackage{xkeyval}
\RequirePackage{xcolor}
\RequirePackage{tikz}
\usetikzlibrary{positioning}
\usetikzlibrary{shadows}
\RequirePackage{calc}

Implement a function for setting up the todonotes package.
\newcommand\setuptodonotes[1][]{\presetkeys{todonotes}{#1}{}}

Some default values are set
\newcommand{\@todonotes@text}{}
\newcommand{\@todonotes@backgroundcolor}{orange}
\newcommand{\@todonotes@textcolor}{black}
\newcommand{\@todonotes@linecolor}{orange}
\newcommand{\@todonotes@bordercolor}{black}
\newcommand{\@todonotes@tickmarkheight}{0cm}
\newcommand{\@todonotes@textwidth}{\marginparwidth}
\newcommand{\@todonotes@textsize}{\normalsize}
\newcommand{\@todonotes@figwidth}{\linewidth}
\newcommand{\@todonotes@figheight}{4cm}
\newcommand{\@todonotes@figcolor}{black!40}

\AtBeginDocument{
  \ifx\undefined\phantomsection
    \newcommand{\phantomsection}{}
  \fi
  \ifdim \marginparwidth < 2cm
    PackageWarning{todonotes}{The length marginparwidth is less than 2cm and will most likely cause issues with the appearance of inserted todonotes.}
    The issue can be solved by adding a line like \setlength{\marginparwidth}{2cm}
  \else
    \fi
}

2.1 Declaration of options for the package

In this part the various options for the package are defined.
Define the default text strings and set localization options for the danish and german languages.
\newcommand{\@todonotes@todolistname}{Todo list}
\newcommand{\@todonotes@MissingFigureText}{Figure}
\newcommand{\@todonotes@MissingFigureUp}{Missing}
\newcommand{\@todonotes@MissingFigureDown}{figure}
\newcommand{@todonotes@SetTodoListName}{1}
{\newcommand{@todonotes@todolistname}{#1}}
{\newcommand{@todonotes@MissingFigureText}{#1}}
{\newcommand{@todonotes@MissingFigureUp}{#1}}
{\newcommand{@todonotes@MissingFigureDown}{#1}}
\newif{@todonotes@reverseMissingFigureTriangle}
\DeclareOptionX{catalan}{\@todonotes@SetTodoListName{Llista de feines pendants}}
\@todonotes@SetMissingFigureText{Figura}
\@todonotes@SetMissingFigureUp{Figura}
\@todonotes@SetMissingFigureDown{pendent}
\DeclareOptionX{croatian}{\@todonotes@SetTodoListName{Popis obveza}}
\@todonotes@SetMissingFigureText{Slika}
\@todonotes@SetMissingFigureUp{Nedostaje}
\@todonotes@SetMissingFigureDown{slika}
\DeclareOptionX{danish}{\@todonotes@SetTodoListName{G\o{}rem\aa{}lsliste}}
\@todonotes@SetMissingFigureText{Figur}
\@todonotes@SetMissingFigureUp{Manglende}
\@todonotes@SetMissingFigureDown{figur}
\DeclareOptionX{dutch}{\@todonotes@SetTodoListName{Lijst van onafgewerkte taken}}
\@todonotes@SetMissingFigureText{Figuur}
\@todonotes@SetMissingFigureUp{Ontbrekende}
\@todonotes@SetMissingFigureDown{figuur}
\DeclareOptionX{english}{\@todonotes@SetTodoListName{Todo list}}
\@todonotes@SetMissingFigureText{Figure}
\@todonotes@SetMissingFigureUp{Missing}
\@todonotes@SetMissingFigureDown{figure}
\DeclareOptionX{french}{\@todonotes@SetTodoListName{Liste des points \a traiter}}
\@todonotes@SetMissingFigureText{Figure}
\@todonotes@SetMissingFigureUp{Figure}
\@todonotes@SetMissingFigureDown{manquante}
\@todonotes@reverseMissingFigureTrianglefalse
\DeclareOptionX{german}{\@todonotes@SetTodoListName{Liste der noch zu erledigenden Punkte}}
\@todonotes@SetMissingFigureText{Abbildung}
\@todonotes@SetMissingFigureUp{Fehlende}
\@todonotes@SetMissingFigureDown{Fehlende}
Create a counter, for storing the number of inserted todos.
\newcounter{\@todonotes@numberoftodonotes}

Toggle whether the package should obey the global draft option.
\newif{\if\@todonotes@obeyDraft}
\DeclareOptionX{obeyDraft}{\@todonotes@obeyDrafttrue}
\newif{\if\@todonotes@isDraft}
\DeclareOptionX{draft}{\@todonotes@isDrafttrue}
\DeclareOptionX{draftcls}{\@todonotes@isDrafttrue}
\DeclareOptionX{draftclsnofoot}{\@todonotes@isDrafttrue}
\newif{\if\@todonotes@obeyFinal}
\DeclareOptionX{obeyFinal}{\@todonotes@obeyFinaltrue}
\newif{\if\@todonotes@isFinal}
\DeclareOptionX{final}{\@todonotes@isFinaltrue}
\DeclareOptionX{finalcls}{\@todonotes@isFinaltrue}
\DeclareOptionX{finalclsnofoot}{\@todonotes@isFinaltrue}

Make it possible to disable the functionality of the package. If this option is given, the commands \todo{} and \listoftodos are defined as commands with no effect. (But you can still compile your document with these commands).
\newif{\if@todonotes@disabled}
\DeclareOptionX{disable}{\@todonotes@disabledtrue}

Show small boxes in the list of todos with the color of the inserted todonotes.

\newif{\if@todonotes@colorinlistoftodos}
\DeclareOptionX{colorinlistoftodos}{\@todonotes@colorinlistoftodostrue}

The default style behaves bad when compiled with latex (some text placement problems). The dvistyle option, changes the visual behavior to avoid this text placement problem.

\newif{\if@todonotes@dviStyle}
\DeclareOptionX{dvistyle}{\@todonotes@dviStyletrue}

Create a color option.
\define@key{todonotes.sty}{color}{
\renewcommand{\@todonotes@backgroundcolor}{#1}
\renewcommand{\@todonotes@linecolor}{#1}}

Make the background color of the notes as an option.
\define@key{todonotes.sty}{backgroundcolor}{\renewcommand{\@todonotes@backgroundcolor}{#1}}

Make the text color of the notes as an option.
\define@key{todonotes.sty}{textcolor}{\renewcommand{\@todonotes@textcolor}{#1}}

Make the line color of the notes as an option.
\define@key{todonotes.sty}{linecolor}{\renewcommand{\@todonotes@linecolor}{#1}}

Make the color of the notes box color as an option.
\define@key{todonotes.sty}{bordercolor}{\renewcommand{\@todonotes@bordercolor}{#1}}

Make the height of the line start marking as an option.
\define@key{todonotes.sty}{tickmarkheight}{\renewcommand{\@todonotes@tickmarkheight}{#1}}

Set whether short captions given as arguments to the todo command should be included in the inserted todonote.

\newif{\if@todonotes@prependcaptionglobal}
\@todonotes@prependcaptionglobalfalse
\DeclareOptionX{prependcaption}{\@todonotes@prependcaptionglobaltrue}

Make the text width as an option.
\define@key{todonotes.sty}{textwidth}{\renewcommand{\@todonotes@textwidth}{#1}}

Make the text size as an option, accept both size and textsize.
\define@key{todonotes.sty}{size}{\renewcommand{\@todonotes@textsize}{#1}}
\define@key{todonotes.sty}{textsize}{\renewcommand{\@todonotes@textsize}{#1}}

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Add option for shadows behind the inserted notes
\begin{macrocode}
\newcommand{\@todonotes@shadowenabledbydefault}{noshadow}
\DeclareOptionX{shadow}{\renewcommand{\@todonotes@shadowenabledbydefault}{shadow}}
\end{macrocode}

Add option for the default width of the figure inserted with \texttt{missingfigure}.
\begin{macrocode}
\define@key{todonotes.sty}{figwidth}{\renewcommand{\@todonotes@figwidth}{#1}}
\define@key{todonotes.sty}{figheight}{\renewcommand{\@todonotes@figheight}{#1}}
\define@key{todonotes.sty}{figcolor}{\renewcommand{\@todonotes@figcolor}{#1}}
\end{macrocode}

Make the text width as an option.
\begin{macrocode}
% Finally process the given options.
% \begin{macrocode}
\ProcessOptionsX*
\end{macrocode}
If the \texttt{obeyDraft} is given, check whether one of the \texttt{draft}, \texttt{draftcls} or \texttt{draftclsnofoot} options are given and enable or disable the functionality of this package. If the \texttt{obeyFinal} option is given together with the \texttt{final} option the todonotes are disabled. The \texttt{disable} option will overrule the effect of \texttt{obeyDraft}.
\begin{macrocode}
\if@todonotes@disabled
\else
\if@todonotes@obeyDraft
\@todonotes@disabledtrue
\if@todonotes@isDraft
\@todonotes@disabledfalse
\fi
\fi
\if@todonotes@obeyFinal
\@todonotes@disabledfalse
\if@todonotes@isFinal
\@todonotes@disabledtrue
\fi
\fi
\fi
\end{macrocode}

2.2 Options for the todo command

In this part the various options for commands in the package are defined. Set an arbitrarily fill color
\begin{macrocode}
\gdef{\@todonotes@currentlinecolor}{\@todonotes@linecolor}\
\gdef{\@todonotes@currentbackgroundcolor}{\@todonotes@backgroundcolor}\
\gdef{\@todonotes@currenttextcolor}{\@todonotes@textcolor}\
\gdef{\@todonotes@currentbordercolor}{\@todonotes@bordercolor}\
\define@key{todonotes}{color}{%\
\gdef{\@todonotes@currentlinecolor}{#1}\
\gdef{\@todonotes@currentbackgroundcolor}{#1}}\
\define@key{todonotes}{linecolor}{%\
\gdef{\@todonotes@currentlinecolor}{#1}}\
\define@key{todonotes}{backgroundcolor}{%\
\gdef{\@todonotes@currentbackgroundcolor}{#1}}\
\define@key{todonotes}{textcolor}{%\
\gdef{\@todonotes@currenttextcolor}{#1}}\
\define@key{todonotes}{bordercolor}{%\
\gdef{\@todonotes@currentbordercolor}{#1}}\
\define@key{todonotes}{linecolor}{%\
\gdef{\@todonotes@currentlinecolor}{#1}}\
\end{macrocode}
\def\key{todonotes}{backgroundcolor}{% 
  \gdef\@todonotes@currentbackgroundcolor{#1}}%
\def\key{todonotes}{textcolor}{% 
  \gdef\@todonotes@currenttextcolor{#1}}%
\def\key{todonotes}{bordercolor}{% 
  \gdef\@todonotes@currentbordercolor{#1}}%

Toggle whether there is a shadow behind the inserted notes.
\newif\@todonotes@useshadow
\define\key{todonotes}{shadow}{\@todonotes@useshadowtrue}
\define\key{todonotes}{noshadow}{\@todonotes@useshadowfalse}

Define height of the inserted tickmark.
\\def\key{todonotes}{tickmarkheight}{% 
  \renewcommand{\@todonotes@tickmarkheight}{#1}}%

Set a relative font size
\newcommand{\@todonotes@sizecommand}{}%
\define\key{todonotes}{size}{\renewcommand{\@todonotes@sizecommand}{#1} %
\newif\@todonotes@localdisable
\define\key{todonotes}{disable}{\@todonotes@localdisabletrue}
\define\key{todonotes}{nodisable}{\@todonotes@localdisablefalse}

Should the todo item be disabled?
\newif\@todonotes@appendtolistoftodos
\define\key{todonotes}{list}{\@todonotes@appendtolistoftodostrue}
\define\key{todonotes}{nolist}{\@todonotes@appendtolistoftodosfalse}

Should the todo item be included in the list of todos?
\newif\@todonotes@inlinenote
\define\key{todonotes}{inline}{\@todonotes@inlinenotetrue}
\define\key{todonotes}{noline}{\@todonotes@inlinenotefalse}
\newif\@todonotes@prependcaption
\define\key{todonotes}{prepend}{\@todonotes@prependcaptiontrue}
\define\key{todonotes}{noprepend}{\@todonotes@prependcaptionfalse}

Should the note in the margin be connected to the insertion point in the text?
\newif\@todonotes@line
\define\key{todonotes}{line}{\@todonotes@linetrue}
\define\key{todonotes}{noline}{\@todonotes@linefalse}

Should the connection between note and insertion point be drawn in a fancy way? (does only work if line=true)
\newif\@todonotes@fancyline
\define\key{todonotes}{fancyline}{\@todonotes@fancylinefalse}
\define\key{todonotes}{nofancyline}{\@todonotes@fancylinetrue}

Author option.
\newcommand{\@todonotes@author}{}%
\newif\if@todonotes@authorgiven%
\define@key{todonotes}{author}{\renewcommand{\@todonotes@author}{#1}}% 
\@todonotes@authorgiventrue
\define@key{todonotes}{noauthor}{\@todonotes@authorgivenfalse}

Should the text in the list of todos be different from the text in the todonote?
\newcommand{\@todonotes@caption}{}
\newif\if@todonotes@captiongiven%
\define@key{todonotes}{caption}{\renewcommand{\@todonotes@caption}{#1}}% 
\@todonotes@captiongiventrue
\define@key{todonotes}{nocaption}{\@todonotes@captiongivenfalse}

Change the current figure width and height.
\newcommand{\@todonotes@currentfigwidth}{\@todonotes@figwidth}
\newcommand{\@todonotes@currentfigheight}{\@todonotes@figheight}
\define@key{todonotes}{figwidth}{\renewcommand{\@todonotes@currentfigwidth}{#1-2pt}}
\define@key{todonotes}{figheight}{\renewcommand{\@todonotes@currentfigheight}{#1-2pt}}

Change the width of an inline note.
\newcommand{\@todonotes@inlinewidth}{\linewidth}
\define@key{todonotes}{inlinewidth}{\renewcommand{\@todonotes@inlinewidth}{#1}}

Change if inline note is written to a separate line or not.
\newif\if@todonotes@inlinepar
\@todonotes@inlinepartrue
\define@key{todonotes}{inlinepar}{\@todonotes@inlinepartrue}
\define@key{todonotes}{noinlinepar}{\@todonotes@inlineparfalse}

Preset values of the options
\presetkeys{\@todonotes@linecolor,\@todonotes@backgroundcolor,\@todonotes@textcolor,\@todonotes@bordercolor,0cm,\@todonotes@figwidth,\@todonotes@figheight, \@todonotes@shadowenabledbydefault,\@todonotes@figwidth,\@todonotes@figheight}
2.3 The main code part

Here is the actual macros defined. If the option "disable" was passed to the package define empty commands.

\if@todonotes@disabled%
  \newcommand{\listoftodos}[1][]{}
  \newcommand{\@todo}[2][]{}
  \newcommand{\missingfigure}[2][]{}
\else % \if@todonotes@disabled
  Define the \listoftodos command and define the appearance of the list of todos.
  \newcommand{\listoftodos}[1][\@todonotes@todolistname]{\@ifundefined{chapter}{\section*{#1}}{\chapter*{#1}} \@starttoc{tdo}}
  \newcommand{\l@todo}{\@dottedtocline{1}{0em}{2.3em}}
  Define styles used by the todo command
  \tikzstyle{notestyleraw} = [draw=\@todonotes@currentbordercolor, fill=\@todonotes@currentbackgroundcolor, text=\@todonotes@currenttextcolor, line width=0.5pt, text width = \@todonotes@textwidth - 1.6 ex - 1pt, inner sep = 0.8 ex, rounded corners=4pt]
\@todo
  Define the \@todo command.
  \newcommand{\@todo}[2][]{}
  Use the global value for determining the default prepend behavior.
  \if@todonotes@prependcaptionglobal%
    \@todonotes@prependcaptiontrue%
  \else%
    \@todonotes@prependcaptionfalse%
  \fi%
  Store the original text for later usage and parse the given options.
  \renewcommand{\@todonotes@text}{#2}%
  \renewcommand{\@todonotes@caption}{#2}%
  \setkeys{todonotes}{#1}%
  Add shadows to the inserted todonotes.
  \if@todonotes@useshadow%

\tikzstyle{notestyle} = [notestyleraw, %
  general shadow={shadow xshift=0.5ex, shadow yshift=-0.5ex, %
    opacity=1, fill=black!50}]% \\
else% \\
\tikzstyle{notestyle} = [notestyleraw]% \\
\fi% \\

Update notestyles
\tikzstyle{notestyleleft} = [%
  notestyle, %
  left]% \\
\tikzstyle{connectstyle} = [%
  thick, %
  draw=\@todonotes@currentlinecolor]% \\
\tikzstyle{inlinenotestyle} = [%
  notestyle, %
  text width=\@todonotes@inlinewidth - 1.6 ex - 1 pt]% \\

If the option disable is given to the command, no output is generated.
\if@todonotes@localdisable% \\
else% \\

Add the item to the list of todos. When the option colorinlistoftodos is given to the package a small colored square is added in front of the text.
\addtocounter{\todonotes@numberoftodonotes}{1}% \\
\if@todonotes@appendtolistoftodos% \\
  \phantomsection% \\
  \if@todonotes@captiongiven% \\
    \else% \\
    \renewcommand{\@todonotes@caption}{#2}% \\
  \fi% \\
  \@todonotes@addElementToListOfTodos% \\
\fi% \\

Prepend the short caption given if it is requested
\if@todonotes@captiongiven% \\
  \if@todonotes@prependcaption% \\
    \renewcommand{\@todonotes@text}{\@todonotes@caption: #2}% \\
  \fi% \\
\fi% \\

Place the todonote as indicated by the options (inline or in a marginpar), below is the code for the inline placement.
\if@todonotes@inlinenote% \\
  \@todonotes@drawInlineNote% \\
\else% \\
  \@todonotes@drawMarginNoteWithLine% \\
\fi% \if@todonotes@localdisable \\
}
drawMarginNoteWithLine Define helper function drawMarginNoteWithLine.
341 \newcommand{\@todonotes@drawMarginNoteWithLine}{%
342 When the todonote should be placed inside a marginpar, the code below is applied. First is the current location in the document stored, this enables us later to connect this point with the inserted todonote.
343 \ifvmode
344 \vspace*{-\parskip} % backup if we are already in vertical mode
345 \vskip-\baselineskip % (and don’t loose that space after a
346 % pagebreak ... 
347 \noindent
348 \fi
349 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
350 \node [coordinate] (inText) {};%
351 \end{tikzpicture}%
352 \marginpar[{{% Draw note in left margin
353 \@todonotes@drawMarginNote%
354 \@todonotes@drawLineToLeftMargin
355 }}]{{% Draw note in right margin
356 \@todonotes@drawMarginNote%
357 \@todonotes@drawLineToRightMargin
358 }]
359 \addElementToListOfTodos
360 \newcommand{\@todonotes@addElementToListOfTodos}{%
361 \if@todonotes@colorinlistoftodos%
362 \addcontentsline{tdo}{todo}{%o}
363 \else%
364 \addcontentsline{tdo}{todo}{%}
365 \fi%
366 \drawInlineNote Define helper function useSizeCommand.
367 \newcommand{\@todonotes@useSizeCommand}{%
368 \ifcsname \expandafter\string\@todonotes@sizecommand\endcsname
369 \csname \expandafter\string\@todonotes@sizecommand\endcsname
370 \else\endcsname
371 \csname \expandafter\string\@todonotes@sizecommand\endcsname
372 \@todonotes@sizecommand
373 \fi%
374 \}
375 }%
drawInlineNote  Define helper function drawInlineNote.
376 \newcommand\@todonotes@drawInlineNote{%  
377 \if@todonotes@dviStyle%  
378 {\if@todonotes@inlinepar\noindent\fi%  
379 \begin{tikzpicture}[remember picture]%  
380 \draw node[inlinenotestyle] {};
381 \end{tikzpicture}%  
382 \if@todonotes@authorgen%  
383 {\noindent \@todonotes@useSizeCommand \@todonotes@author:.,\@todonotes@text}  
384 \else%  
385 {\noindent \@todonotes@useSizeCommand \@todonotes@text}%  
386 \fi}  
387 {\if@todonotes@inlinepar\noindent\fi%  
388 \begin{tikzpicture}[remember picture]%  
389 \draw node[inlinenotestyle] {};
390 \end{tikzpicture}%  
391 \if@todonotes@inlinepar\noindent\fi%  
392 \begin{tikzpicture}[remember picture]%  
393 \draw node[inlinenotestyle,font=\@todonotes@useSizeCommand]{  
394 {\if@todonotes@authorgiven%  
395 {\noindent \@todonotes@useSizeCommand \@todonotes@author \@todonotes@text}%  
396 \else%  
397 {\noindent \@todonotes@text}%  
398 \fi};%  
399 \end{tikzpicture}%  
400 \if@todonotes@inlinepar\noindent\fi%  
401 \begin{tikzpicture}[remember picture]%  
402 \draw node[notestyle]{%  
403 \begin{minipage}{\@todonotes@textwidth}{\@todonotes@useSizeCommand \@todonotes@author \@todonotes@text}%  
404 \else%  
405 {\noindent \@todonotes@text}%  
406 \fi};%  
407 \end{minipage}%;%  
408 \end{tikzpicture}%;%  
409 \if@todonotes@inlinepar\noindent\fi%  
410 \begin{tikzpicture}[remember picture]%  
411 \draw node[notestyle] {};  
412 \end{tikzpicture};%  
413 \if@todonotes@inlinepar\noindent\fi%  
414 \begin{tikzpicture}[remember picture]%  
415 \draw node[notestyle] {};  
416 \end{tikzpicture};%  
417 \begin{tikzpicture}[remember picture]%  
418 \draw node[notestyle] (inNote) {};  
419 \end{tikzpicture}%;%  
420 \else%  
421 \let\originalHbadness\hbadness%;  
422 \hbadness 100000%
\begin{tikzpicture} \node (X) \phantom{0}; \draw node [notestyle, font=\@todonotes@useSizeCommand, anchor=north] (inNote) at (X.north) {\@todonotes@author}; \node (Y) [below=of X] \phantom{0}; \draw node [notestyle, font=\@todonotes@useSizeCommand, anchor=north] (inNote) at (X.south) {\@todonotes@text}; \end{tikzpicture} \hbadness \originalHbadness \drawLineToRightMargin

\definecolor{connectstyle}{rgb}{0.1,0.1,0.1}
\newcommand{\@todonotes@drawLineToRightMargin}{\if@todonotes@line\if@todonotes@fancyline\tikz[remember picture, overlay]{\tikzstyle{both}=[line width=3pt, draw, opacity=0.15]\tikzstyle{line}=[shorten >=5pt, line cap=round]\tikzstyle{head}=[shorten >=-1pt, dash pattern=on 0pt off 1pt, ->]\foreach \s in {line, head}{\draw[both,\s] (inNote.north west).. controls +(0:0) and +(90:1.5)..(\[yshift=1ex\] inText)}\end{tikzpicture}\else\begin{tikzpicture}[remember picture, overlay]\draw[connectstyle]([yshift=-0.2cm + \@todonotes@tickmarkheight] inText) -| ([yshift=-0.2cm] inText) -| ([xshift=-0.2cm] inNote.west) -| (inNote.west)\end{tikzpicture}\\fi\fi}
\drawLineToLeftMargin

\definecolor{connectstyle}{rgb}{0.1,0.1,0.1}
\newcommand{\@todonotes@drawLineToLeftMargin}{\if@todonotes@line\if@todonotes@fancyline\tikz[remember picture, overlay]{\tikzstyle{both}=[line width=3pt, draw, opacity=0.15]\tikzstyle{line}=[shorten >=5pt, line cap=round]\tikzstyle{head}=[shorten >=-1pt, dash pattern=on 0pt off 1pt, ->]\foreach \s in {line, head}{\draw[both,\s] (inNote.north west).. controls +(0:0) and +(90:1.5)..(\[yshift=1ex\] inText)}\end{tikzpicture}\else\begin{tikzpicture}[remember picture, overlay]\draw[connectstyle]([yshift=-0.2cm + \@todonotes@tickmarkheight] inText) -| ([yshift=-0.2cm] inText) -| ([xshift=-0.2cm] inNote.west) -| (inNote.west)\end{tikzpicture}\\fi\fi

\drawLineToRightMargin

\drawLineToLeftMargin

\end{document}
\missingfigure Defines the \missingfigure macro.

\newcommand{\missingfigure}[2][]{% 
\setkeys{todonotes}{#1} 
\addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}% 
\par 
\noindent 
\hfill 
\begin{tikzpicture} 
\draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt] 
(-2, -0.5*\@todonotes@currentfigheight-0.5cm) 
rectangle +(+\@todonotes@currentfigwidth, \@todonotes@currentfigheight); 
\draw (2, -0.5) node[right, text 
width=\@todonotes@currentfigwidth-4.5cm, font=\@todonotes@useSizeCommand] {#2}; 
\draw (\@todonotes@currentfigwidth, 0.3) node[\@todonotes@MissingFigureUp]; 
\draw (0, -0.3) node[\@todonotes@MissingFigureDown]; 
\end{tikzpicture}\hfill 
\null\par 
\% Ending \missingfigure command
\fi, Ending \@todonotes@ifdisabled

\todotoc Inserts a reference to the list of todos in the table of contents. If chapter is defined, chapter is used as level otherwise will section be used. The \todotoc command respects the disable option.

\newcommand{\todotoc}{% 
\if@todonotes@disabled
\else 
\addcontentsline{toc}{\@ifundefined{chapter}{section}{chapter}}{\@todonotes@todolistname}% 
\fi
}

\todo Define the \todo command as a redirection to \@todo.

\newcommand{\todo}[2][]{%
% Needed to output any dangling \item of a noskip section (see #36):
\if@inlabel
\leavevmode
\fi
\if@noskipsec
\leavevmode
\fi
\if@todonotes@inlinepar
\ifhmode
\@bsphack
\@todonotes@vmodefalse
\else
\@savsf\@m
\@savsk\z@
\@todonotes@vmodetrue
\fi
\fi
{\@todo[#1]{#2}}\%
\@esphack%
\if@todonotes@vmode
\par
\fi
\else
\@todo[#1]{#2}\
\fi
\newif\if@todonotes@vmode
Change History

0.1
General: The first version of the package ........................ 1

0.2
General: Updated the option handling of the package ....... 1

0.2.1
General: Slightly modified by Kjell Magne Fauske to support notes in the left margin (for documentstyle book). ............... 1

0.2.2
General: Added a missingfigure command ..................... 1

0.2.3
General: Made a dependency on the calc package .......... 1

0.3
General: Delayed the requirements for the hyperref package until begin document and added an optional argument to the todo command for adding inline todos (Idea from Patrick Toche) ......................... 1

0.3.1
General: Added some options to the todo macro (Idea: Patrick Toche) and made the listoftodos point at the inserted todos and not only the current / previous section, subsection or figure using the phantomsection macro. ........... 1

0.4
General: Modified the behaviour of the inline todos, to avoid empty lines around the inline todos. .................... 1

0.4.1
General: Added the option colorinlistoftodos which inserts a small box with the used fillcolor of the todos in the list of todos. .................. 1

0.4.2
General: Fixed a bug with the disable option to the package. .... 1

0.5
General: Created a dtx file containing both source code and documentation of the package .......................... 1

0.5.1
General: Updated the documentation .......................... 1

0.5.2
General: Fixed a bug that prevented the usage of the option french for babel. Bug report by Thomas Braun. ....... 1

0.6
General: Added the caption option to the todo command. ....... 1

0.6.1
General: Added a new usecase with decreased line spacing. .... 1

0.6.2
General: Added a usecase by Fabrice Niessen. ................. 1

0.7
General: Added language options on request from Peter Zimmermann. ................. 1

0.7.1
General: Reworked the color options for both the whole package and the todo command. General code clean up. Added the prependcaption package option. ................. 1

0.7.2
General: Avoid to change the fontsize inside the list of todos, fixing a bug revealed by Vladimir Zhuravlev. ................. 1

0.7.3
General: The localization options (danish and german) and the disable options, were all flawed by naming inconsistencies that
made then break the package.
This have been fixed.  

0.7.4
General: Fixed a bug related to
the caption option for the todo
command. Introduced a
counter of the number of
inserted todos.  

0.7.5
General: Fixed a typo in a
macroname.  

0.7.6
General: Added a textsize option
for the package and the
prepend / noprepend option
for the todo command.  

0.8
General: Added three new
translations french, spanish
and catalan thanks to Richard
Dominique and Joan Queralt.
Improved the visual
appearance of the inserted
notes (rounded corners and
optional shadows) with code
from Joan Queralt. Found an
untranslated textstring
"Figure" in the source. Added
a figwidth option to the
missingfigure command, patch
by Paul Ivanov.  

0.8.1
General: Added a space between
the colored square and the text
in the list of todos. Added a
new usecase for marking old /
new sections. Made the name
of listoftodos changeable.  

0.8.2
General: Italian translation by
Gustavo Cevolani. Removed
the dependence on the hyperref
package.  

0.8.3
General: Added a use case for
linking to the list of todos, idea
from Andreas Plank.
Introduced a package option
for listening to the draft option
given to the document class.  

0.8.4
General: Fixed a bug related to
the obeyDraft option.  

0.8.5
General: Added two new usecases
(enumeration of inserted
todonotes and how to set
custom default values).
Changed the order of the use
case examples.  

0.8.6
General: Added a portuguese
translation by Og DeSouza.  

0.8.7
General: Updated portuguese
translation. Added a ngerman
alias for the german translation
suggested by Michael
Niedermair.  

0.8.8
General: Added a dutch
translation by Ruben Ruben
Vermeersch.  

0.8.9
General: Added a english option as
suggested by Marco Berghoff.  

0.9.0
General: Added the todototoc
command by idea from Sven
Augustin.  

0.9.1
General: Added the todotodotoc
command by idea from Sven
Augustin.  

0.9.2
General: Use chapter (if available)
for the list of todos heading.  

0.9.3
General: Make an internal
definition of the todo
command, for easing
redefinition of the command
behaviour.  

0.9.4
General: Make the disable option
work on a local scale.  

34
0.9.5

General: Code simplification by extracting functionality to smaller macros. 

0.9.6

General: Give fontsize to TikZ. Align notes with line where note is set. Added new option fancyline. Patches by Benjamin Kellermann. 

0.9.7

General: Updated documentation. 

0.9.8

General: Suppress warnings about underfull / overful boxes generated by the inserted todonotes. Patch by Peter M Schuler. 

0.9.9

General: Added author option, implementation provided by Xavier Alameda-Pineda. Example of modifying the listoftodos removing some protect commands with no effect. 

1.0.0

General: Mention trouble with the classicthesis style. Refer to some alternatives to the package. Added tonotin command as suggested by Stefan Pinnow. Described how to use tikz externalize with todonotes. Added obeyDraft and obeyFinal options. 

1.0.1

General: Fix spacing issues reported by Jonathan Zachhuber and Brent Longborough. Added figheight option to the missingfigure command as suggested by Kim Albertsson. 

1.0.2

General: Added Swedish translation by Emil Lundberg. Added usenote by Tobias Winchen. Mentioned that default arguments can be set using the presetkeys command. Updated list of alternatives to the todonotes package. Draw borders around coloured boxes in the list of todos, patch by Ze Loff. 

1.0.3

General: Added the option figcolor to missing figure, patch by Pascal Hebbeker. Added Croatian translation by Ican Kokan. Changed default with of missingfigure. Removed some underfull box warnings, solution by Ernst Blecha. 

1.0.4

General: Restructured documentation and placed some examples in the doc/examples subdirectory. 

1.0.5

General: Example of how to change the space eating behaviour added by Anselm Wagner. Reduced the width of missingfigure to avoid bad box warnings. 

1.0.6

General: Changed how whitespaces are handled around inserted todos to better mimick macros like index (Suggestion by Frank Mittelbach). Fix missing character warnings using patch by Niels Anders Danielsson. Use the specified textsize for missingfigure, patch by Johannes Twittmann. Added new options for inline todonotes based on code from Daniel Krenn. Added warning message when marginparwidth is less than 2cm, as suggested by Erik Boesen. 

1.0.7

General: Changed the warning about marginparwidth to a proper warning message. 

1.0.8

General: Improved spacing
behaviour so it mimics the index macro, patch by Frank Mittelbach. Center graphics vertically in missingfigure, patch by Philipp Allgeuer. Added new option tickmarkheight as suggested by Richard Niland. ............ 1

1.1.0

General: Many improvements to the user interface by Frank Mittelbach. Added the command setuptodonotes. Added textcolor as an option. Marked the insertion point of notes with tickmarks with a customizable height. Streamline which options that are accepted to size commands (both commands (backslash tiny) and text (tiny) are now supported). ............... 1

1.1.1

General: Implemented shadow and noshadow options for the todo command. ................. 1

1.1.2

General: Fix issue 36 and 37. ...... 1

1.1.3

General: Fix issue 48 and make colors used in the last todo globally available. ............ 1