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 .dtx, dated 2009/08/01.
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.

1.1 Usage

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.

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 .......................................................... 4
- Anything but default colors .............................................. 4
- A note with no line connecting it to the placement in the original text. 4
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**  When the option `obeyDraft` is given, the package checks if the option `draft` 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.

**danish, german, french**  
**spanish, catalan, italian**  
Use the danish or german 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.

**colorinlistoftodos**  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 todo note. This can be useful if there are different types of todos (insert reference, explain in detail, ...) where the color of the inserted todo note marks the type of todo.

**color**  These options sets the default colors for the todo command. There is three colors that can be specified. The border color (default `bordercolor=black`) around the inserted text, the color behind the inserted text (default `backgroundcolor=orange`) 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.

**textwidth**  `textwidth=length` sets the width of a todo item in the margin to `length`.
The width of inline todonotes will always 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, e.g., 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.

### 1.3 Options for the todo command

There are several options that can be given to the `\todo` command. All the options are described here and often I have included examples of the change in visual appearance.

**color**

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.

```
\todo[color=green!40]{And a green note}
```

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

```
\todo[linecolor=green!70!white, backgroundcolor=blue!20!white, bordercolor=red]{Anything but default colors}
```

**line / noline**

If you want to get rid of the line connecting the inserted note with the place in the text where the note occurs in the latex code, the option `noline` can be used.

```
\todo[noline]{A note with no line ...}
```

**inline / noinline**

It is possible to place a 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.

```
\todo[inline]{A todonote placed in the text}
```

\(^1\)The problem is placement of text inside the colored boxes.
Another usage for the inline option is when you want to add a todonote to a figure caption.

\begin{wrapfigure}{r}[20mm]{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 ...}
\end{wrapfigure}

\texttt{size=val} changes the size of the text inside the todonote. The commands used to create the notes below are
\\texttt{todo[size=\Large]{A note with a large font size.}} and
\\texttt{todo[inline, size=\tiny]{Note with very small font size.}}.

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

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

\\texttt{todo[\texttt{caption}={Short note}]{A very long and tedious note that cannot be on one line in the list of todos.}}.

The effect of this option is altered with the package option \texttt{prependcaption} or the \texttt{prepend / noprepend} option for the todo command.

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

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

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

\section*{1.4 Options for the missingfigure command}

The \texttt{figwidth=length} option sets the width of the figure inserted by the
\texttt{\missingfigure} command. Length values below 6\textit{cm} 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.

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

Another usage of the option is when \texttt{\missingfigure} is used in the wrapfigure environment.

\begin{wrapfigure}{r}[2cm]{6cm}
\texttt{\missingfigure[figwidth=6cm]{Add a test image \ldots}}
\end{wrapfigure}

1.5 Options for the listoftodos command

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

\texttt{\listoftodos[I can be called anything]}
1.6 Known issues

1.6.1 Package loading order

The todonotes package requires the following packages.

- \texttt{ifthen}
- \texttt{xkeyval}
- \texttt{xcolor}
- \texttt{tikz}
- \texttt{calc}
- \texttt{graphicx} (is loaded via the tikz package)

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.

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

\begin{verbatim}
\makeatletter
  \providecommand\@dotsep{5}
\makeatother
\listoftodos\relax
\end{verbatim}

1.6.4 Unknown option "remember picture"

If latex throws the error

\begin{verbatim}
Package tikz Error: I do not know what to do with the option '‘remember picture’’.
\end{verbatim}

It probably means that your latex installation is outdated, as only newer versions of latex driver for tikz supports the \texttt{remember picture} option. For additional info consult "Section 9.2.2 Producing PDF Output" in the tikz manual. \url{http://www.ctan.org/tex-archive/graphics/pgf/base/doc/generic/pgf/pgfmanual.pdf}
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

\todonum{A numbered todonote.}
\todonum{Another numbered todonote.}

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.

\newcounter{mycomment}
\newcommand{\mycomment}[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}%
}
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).

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

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{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}

Some lines with a decreased line spacing. This is accomplished using the setspace package that is included in standard latex distributions.

Using the spacing environment we can define a new todonote command using the code below:

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

Todonotes with decreased line spacing can now be inserted as follows

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

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

The example above renders like

Some text.

\[
\sin(\theta)^2 + \cos(\theta)^2 = 1
\]

A formula and a list

1. An item

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]{
  \addtocounter{todoListItems}{1}
  \todo[\protect\hypertarget{\thetodoListItems}{\phantom{\text{Translation}}}, #1]
}

{\begin{minipage}{\linewidth}
\begin{align}
\sin(\theta)^2 + \cos(\theta)^2 &= 1
\end{align}
\end{minipage}}
The idea behind the code is to embed a \texttt{hypertarget} 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.

\texttt{\todoTrans\{papirsflyver\}}
\texttt{\todoTrans\{inline\}\{damplokomotiv\}}

\texttt{papirsflyver $\uparrow$}
\texttt{damplokomotiv $\uparrow$}
2 Implementation

Identifies the package and loads the packages dependences.

\ProvidesPackage{todonotes}[2009/04/02]
\RequirePackage{ifthen}
\RequirePackage{xkeyval}
\RequirePackage{xcolor}
\RequirePackage{tikz}
\RequirePackage{calc}

Some default values are set

\newcommand{\@todonotes@text}{}
\newcommand{\@todonotes@backgroundcolor}{orange}
\newcommand{\@todonotes@linecolor}{orange}
\newcommand{\@todonotes@bordercolor}{black}
\newcommand{\@todonotes@textwidth}{\marginparwidth}
\newcommand{\@todonotes@textsize}{\normalsize}
\newcommand{\@todonotes@figwidth}{\textwidth}

\AtBeginDocument{
  \ifx\undefined\phantomsection
    \newcommand{\phantomsection}{}
  \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}{\renewcommand{\@todonotes@todolistname}{#1}}
\newcommand{\@todonotes@SetMissingFigureText}{\renewcommand{\@todonotes@MissingFigureText}{#1}}
\newcommand{\@todonotes@SetMissingFigureUp}{\renewcommand{\@todonotes@MissingFigureUp}{#1}}
\newcommand{\@todonotes@SetMissingFigureDown}{\renewcommand{\@todonotes@MissingFigureDown}{#1}}
\newcommand{\if@todonotes@reverseMissingFigureTriangle}{\if\@todonotes@reverseMissingFigureTriangle}
\DeclareOptionX{danish}{\@todonotes@SetTodoListName{G\o{}rem\aa{}lsliste}}
\DeclareOptionX{german}{\@todonotes@SetTodoListName{G\o{}rem\aa{}lsliste}}
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}

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

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

Set whether short captions given as arguments to the todo command should be included in the inserted todo note.
\newif{\if@todonotes@prependcaptionglobal}
\@todonotes@prependcaptionglobalfalse
\DeclareOptionX{prependcaption}{\@todonotes@prependcaptionglobaltrue}
\define@key{todonotes.sty}{textwidth}{
\renewcommand{\@todonotes@textwidth}{#1}}

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

Add option for shadows behind the inserted notes
\newif{\if@todonotes@shadowenabled}
\@todonotes@shadowenabledfalse
\DeclareOptionX{shadow}{\@todonotes@shadowenabledtrue
\usetikzlibrary{shadows}}

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

Make the text width as an option.
% Finally process the given options.
% \begin{macrocode}
\ProcessOptionsX*
If the \texttt{obeyDraft} is given, check whether the \texttt{draft} option is given and enable or disable the functionality of this package. The \texttt{disable} option will overrule the effect of \texttt{obeyDraft}.

\texttt{\if@todonotes@disabled}
\else
\if@todonotes@obeyDraft
\@todonotes@disabledtrue
\fi
\fi
\fi

\subsection{Options for the todo command}

In this part the various options for commands in the package are defined. Set an arbitrarily fill color

\newcommand{\@todonotes@currentlinecolor}{}
\newcommand{\@todonotes@currentbackgroundcolor}{}
\newcommand{\@todonotes@currentbordercolor}{}
\define@key{todonotes}{color}{{\renewcommand{\@todonotes@currentlinecolor}{#1}}}
\define@key{todonotes}{linecolor}{{\renewcommand{\@todonotes@currentlinecolor}{#1}}}
\define@key{todonotes}{backgroundcolor}{{\renewcommand{\@todonotes@currentbackgroundcolor}{#1}}}
\define@key{todonotes}{bordercolor}{{\renewcommand{\@todonotes@currentbordercolor}{#1}}}

Set a relative font size

\newcommand{\@todonotes@sizecommand}{}
\define@key{todonotes}{size}{{\renewcommand{\@todonotes@sizecommand}{#1}}}

Should the todo item be included in the list of todos?

\newif\if@todonotes@appendtolistoftodos
\define@key{todonotes}{list}{{\@todonotes@appendtolistoftodostrue}}
\define@key{todonotes}{nolist}{{\@todonotes@appendtolistoftodosfalse}}

Should the todo item be displayed inline?

\newif\if@todonotes@inlinenote
\define@key{todonotes}{inline}{{\@todonotes@inlinenotetrue}}
\define@key{todonotes}{noinline}{{\@todonotes@inlinenotefalse}}

Should the note in the margin be connected to the insertion point in the text?

\newif\if@todonotes@line
\define@key{todonotes}{line}{{\@todonotes@linetrue}}
Should the text in the list of todos be different from the text in the todonote?

Change the current figure width.

Preset values of the options

2.3 The main code part

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

Define the \listoftodos command and define the appearance of the list of todos.

Define styles used by the todo command

\tikzstyle{notestyleraw} = [draw=\%linecolor,fill=\%backgroundcolor, line width=0.5pt, text width = \%textwidth - 1.6 ex - 1pt, inner sep = 0.8 ex, rounded corners=4pt]
Add shadows and rounded corners to the inserted todonotes.
\if@todonotes@shadowenabled
\tikzstyle{notestyle} = [notestyleraw,
  general shadow={shadow xshift=.5ex, shadow yshift=-.5ex,
    opacity=1,fill=black!50}]
\else
\tikzstyle{notestyle} = [notestyleraw]
\fi
\tikzstyle{notestyleleft} = [notestyle,
                            left]
\tikzstyle{connectstyle} = [thick,
                            draw=@todonotes@currentlinecolor]
\tikzstyle{inlinenotestyle} = [notestyle,
                                  text width=\linewidth - 1.6 ex - 1 pt]
\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.
  \renewcommand{\@todonotes@text}{#2}%
  \renewcommand{\@todonotes@caption}{#2}%
  \setkeys{todonotes}{#1}%
  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%
  \if@todonotes@colorinlistoftodos%
    \addcontentsline{tdo}{todo}{\protect{\colorbox{\@todonotes@currentbackgroundcolor}{o}}}%
    \\protect{\@todonotes@caption}}%
  \else%
    \addcontentsline{tdo}{todo}{\protect{\@todonotes@caption}}%
Prepend the short caption given if it is requested
\if@todonotes@captiongiven%
  \if@todonotes@prependcaption%
    \renewcommand{\@todonotes@text}{\@todonotes@caption: #2}\fi\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%
  \if@todonotes@dviStyle%
    \par
    \noindent\begin{tikzpicture}[remember picture]
    \draw node[inlinenotestyle] {};
    \end{tikzpicture}
  \fi%
  \noindent\@todonotes@sizecommand \@todonotes@text
  \par
  \noindent\begin{tikzpicture}[remember picture]
  \draw node[inlinenotestyle] {};
  \end{tikzpicture}
\else%
  \par
  \noindent\begin{tikzpicture}[remember picture]
  \draw node[inlinenotestyle] {\@todonotes@sizecommand \@todonotes@text};
  \end{tikzpicture}
\fi%
\else%
  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.
  \begin{tikzpicture}[remember picture, baseline=-0.75ex]
    \node [coordinate] (inText) {};
  \end{tikzpicture}
  \marginpar[\% Draw note in left margin
  \if@todonotes@dviStyle%
    \begin{tikzpicture}[remember picture]
    \draw node[notestyle] {};\par%
    \begin{minipage}{\@todonotes@textwidth}
    \@todonotes@sizecommand \@todonotes@text\par
    \end{minipage}\par%\begin{tikzpicture}[remember picture]
    \draw node[notestyle] (inNote) {};
  \fi%
  \if@todonotes@line%
    \begin{tikzpicture}[remember picture, overlay]
    \draw[connectstyle] (\[yshift=-0.2cm\] inText)
    \end{tikzpicture}\begin{tikzpicture}[remember picture]
    \draw node[notestyle] (inNote) {\@todonotes@sizecommand \@todonotes@text};\par
    \end{tikzpicture}\end{tikzpicture}
  \else%
    \begin{tikzpicture}[remember picture]
    \draw node[notestyle] (inNote) {\@todonotes@sizecommand \@todonotes@text};\par
    \end{tikzpicture}%
  \fi%\end{tikzpicture}\begin{tikzpicture}[remember picture, overlay]
  \draw[connectstyle] (\[yshift=-0.2cm\] inText)
In the book documentclass (which is a twoside layout), the \marginpar marginpar macro takes two arguments \marginpar[left]{right}. If both arguments are given, \LaTeX will decide in which side the margin note has to be inserted, and then use the corresponding commands.

{% Draw note in right margin
\if@todonotes@dviStyle%
\begin{tikzpicture}[remember picture]
\draw node[notestyle] (inNote) {};\
\end{tikzpicture}\
\begin{minipage}{\@todonotes@textwidth}
\@todonotes@sizecommand\@todonotes@text\
\end{minipage}\
\begin{tikzpicture}[remember picture]
\draw node[notestyle] (inNote) (inNote) {};\
\end{tikzpicture}\n\else%
\begin{tikzpicture}[remember picture]
\draw node[notestyle](inNote)\{\@todonotes@sizecommand\@todonotes@text\};\
\end{tikzpicture}\n\fi%
\if@todonotes@line%
\begin{tikzpicture}[overlay]
\draw[\connectstyle]
([yshift=-0.2cm] inText)\
-| ([xshift=-0.2cm] inNote.west)\
-| (inNote.west);\
\end{tikzpicture}\n\fi%
\fi%}

\missingfigure Defines the \missingfigure macro.
\newcommand{\missingfigure}[2][{}{]{
\setkeys{todonotes}{#1}%
\addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: \protect{#2}}%
\par
\noindent
\begin{tikzpicture}
\draw[fill=black!40, draw = white, line width=0pt]
(-2, -2.5) rectangle +(\@todonotes@currentfigwidth, 4cm);\n\draw (2, -0.5) rectangle +(\@todonotes@currentfigwidth, 4cm);\n\draw (2, -0.3) node[right, text
width=\@todonotes@currentfigwidth-4.5cm] {#2};\n
\draw[red, fill=white, rounded corners = 5pt, line width=10pt] (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
\draw (0, 0.3) node {\@todonotes@MissingFigureUp};
\draw (0, -0.3) node {\@todonotes@MissingFigureDown};
\end{tikzpicture}
}\fi % Ending \missingfigure command
\fi % Ending @todonotes@ifdisabled

\section*{Change History}

0.1
\begin{itemize}
\item General: The first version of the package \hfill \label{change:0.1} \hfill 1
\end{itemize}

0.2
\begin{itemize}
\item General: Updated the option handling of the package \hfill \label{change:0.2} \hfill 1
\end{itemize}

0.2.1
\begin{itemize}
\item General: Slightly modified by Kjell Magne Fauske to support notes in the left margin (for documentstyle book). \hfill \label{change:0.2.1} \hfill 1
\end{itemize}

0.2.2
\begin{itemize}
\item General: Added a missingfigure command \hfill \label{change:0.2.2} \hfill 1
\end{itemize}

0.2.3
\begin{itemize}
\item General: Made a dependency on the calc package \hfill \label{change:0.2.3} \hfill 1
\end{itemize}

0.3
\begin{itemize}
\item General: Delayed the requirements for the hyperref package until begin document and added an optional argument to the todo command for adding inline todonotes (Idea from Patrick Toche) \hfill \label{change:0.3} \hfill 1
\end{itemize}

0.3.1
\begin{itemize}
\item General: Added some options to the todo macro (Idea: Patrick Toche) and made the listoftodos point at the inserted todonotes and not only the current / previous section, subsection or figure using the phantomsection macro. \hfill \label{change:0.3.1} \hfill 1
\end{itemize}

0.4
\begin{itemize}
\item General: Modified the behaviour of the inline todonotes, to avoid empty lines around the inline todonotes. \hfill \label{change:0.4} \hfill 1
\end{itemize}

0.4.1
\begin{itemize}
\item General: Added the option colorinlistoftodos which inserts a small box with the used fillcolor of the todonotes in the list of todos. \hfill \label{change:0.4.1} \hfill 1
\end{itemize}

0.4.2
\begin{itemize}
\item General: Fixed a bug with the disable option to the package. \hfill \label{change:0.4.2} \hfill 1
\end{itemize}

0.5
\begin{itemize}
\item General: Created a dtx file containing both source code and documentation of the package \hfill \label{change:0.5} \hfill 1
\end{itemize}

0.5.1
\begin{itemize}
\item General: Updated the documentation \hfill \label{change:0.5.1} \hfill 1
\end{itemize}

0.5.2
\begin{itemize}
\item General: Fixed a bug that prevented the usage of the option french for babel. Bug report by Thomas Braun. \hfill \label{change:0.5.2} \hfill 1
\end{itemize}

0.6
\begin{itemize}
\item General: Added the caption option to the todo command. \hfill \label{change:0.6} \hfill 1
\end{itemize}

0.6.1
\begin{itemize}
\item General: Added a new usecase with decreased line spacing. \hfill \label{change:0.6.1} \hfill 1
\end{itemize}

0.6.2
\begin{itemize}
\item General: Added a usecase by Fabrice Niessen. \hfill \label{change:0.6.2} \hfill 1
\end{itemize}

0.7
\begin{itemize}
\item General: Added language options on request from Peter Zimmermann. \hfill \label{change:0.7} \hfill 1
\end{itemize}

0.7.1
\begin{itemize}
\item General: Reworked the color options for both the whole package \hfill \label{change:0.7.1} \hfill 1
\end{itemize}
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. .......... 1

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. ...... 1

0.7.5
General: Fixed a typo in a macroname. ................................ 1

0.7.6
General: Added a textsize option for the package and the prepend / noprepend option for the todo command. ......................... 1

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. ......................... 1

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. .......... 1

0.8.2
General: Italian translation by Gustavo Cevolani. Removed the dependence on the hyperref package. ............................ 1

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. ................. 1

0.8.4
General: Fixed a bug related to the obeyDraft option. ............ 1

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. ......................... 1