# L'extension todonotes\*

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#### filedatefr

#### Résumé

L'extension todonotes vous permet d'insérer des marqueurs de tâches à traiter dans votre document. À tout moment dans le document une liste de toutes les tâches à traiter insérées peut être placée avec la commande \listoftodos.

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<sup>\*</sup>Ce fichier a pour numéro de version 1.0.4 et a été mis à jour le 09/07/2015. Son titre original est «  $The\ todonotes\ package$  ».

### 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 quire 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 less ressources.

#### 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 \ldots},

which renders like. The \todo command has this structure:  $\todo [\langle options \rangle] \{\langle todo text \rangle\}$ . 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{ $\langle text \rangle$ }, 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.



#### \listoftodos

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							
	And a green note						
	Anything but default colors						
	A note with no line connecting it to the placement in the original text 5						
	A todonote placed in the text						
	Fill those circles 6						
	A note with a large font size						
	Note with very small font size						
	Short note						
	Short note with prepend						
	Short note with noprepend						
	Testing						
	Testing author option						
	Testing author option						
Fig	gure: Testing a long text string						
Fig	gure: Testing a long text string						
Fig	gure: Add a test image						
Fig	gure: Testing						
Fig	gure: Testing figcolor						
	Does this eat the space?						
	Test of newly defined command						
	Test of newly defined command, requesting a green color						
	1: A numbered todonote						
	2: Another numbered todonote						
	Comment [HSM1]: Testing first time						
	Comment [HSM2]: Testing second time						

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\todototoc

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

danish, german, ngerman,
french, swedish
spanish, catalan, italian
portuguese, dutch,
croatian
colorinlistoftodos

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, french, german, ngerman, italian, portuguese, spanish and swedish.

color backgroundcolor linecolor bordercolor 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,  $\dots$ ) where the color of the inserted todonote marks the type of todo.

textwidth

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.

textsize

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=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 fontsize is \tiny use textsize=tiny. The default value is textsize=normalsize.

prependcaption

The prepend caption 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 <sup>1</sup>. 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 \missingfigure command. The default value is \linewidth.

#### Options for the todo command 1.3

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. Default values for these options can be set using the presetkeys

\presetkeys{todonotes}{fancyline, color=blue!30}{}

disable

below.

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

color backgroundcolor linecolor bordercolor

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 \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

\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.

\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

<sup>1.</sup> The problem is placement of text inside the colored boxes.

margin, this could be desirable if the text in the note has a considerable length. \todo[inline]{A todonote placed in the text}

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 \ldots}}
\end{wrapfigure}
```



FIGURE 1 - A text explaining the image.

size

size=val changes the size of the text inside the todonote. The commands used to create the notes below are

\todo[size=\Large]{A note with a large font size.} and
\todo[inline, size=\tiny]{Note with very small font size.}.

list / nolist

When the option **nolist** is given, the todo item will not appear in the list of todos.

caption

The 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.

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

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 prependcaption or the prepend / noprepend option for the todo command.

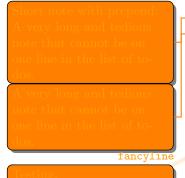
The options prepend and noprepend can be used for setting whether a given caption should be prepended to the todonote or not. Globally this can be set using the prependcaption option for the package. Below is the effect of the option shown using the code:

\todo[prepend, caption={Short note with prepend}]{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.}.

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

\todo[fancyline]{Testing.}

prepend / noprepend



author

The author option takes a parameter, the name of the author. The given name is inserted in the todonote.

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

### 1.4 Options for the missingfigure command

figwidth

The figwidth=length 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}



\missingfigure{Testing a long text string}



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

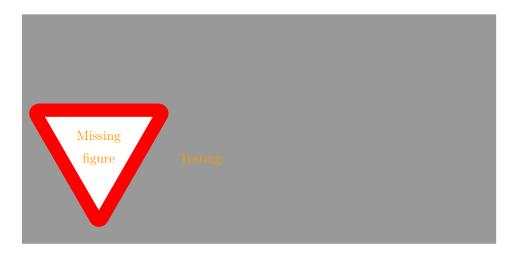
\begin{wrapfigure}[1]{r}[2cm]{6cm}
\missingfigure[figwidth=6cm]{Add a test image \ldo
\end{wrapfigure}



figheight

The figheight=length 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.

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



figcolor

The figcolor=color options 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.

ifthen
xkeyval
xcolor
tikz

calc
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.

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}
```

#### 1.6.2 Spacing around inserted notes

Inserted todo commands will eat the white space after the command.

Testing\todo{Does this eat the space?} testing

Testingtesting

#### 1.6.3 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.

#### 1.6.4 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{tdo}\listtodoname}
\makeatother
```

#### 1.6.5 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. http://www.ctan.org/tex-archive/graphics/pgf/base/doc/generic/pgf/pgfmanual.pdf

#### 1.6.6 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 lenght. 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.

#### 1.6.7 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}
```

#### 1.6.8 Todonotes in footnotes

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

\renewcommand{\marginpar}{\marginnote}

#### 1.6.9 List of todo heading is not correctly formatted

If using natbib, the todonotes list title gets screwed up unless you do something like this:

\makeatletter\let\chapter\@undefined\makeatother

Suggestion by Richard Stanton.

#### 1.6.10 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

#### 1.7 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}}
```

Test of newly defined command. 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.}
```

Fest of newly defined comnand, 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}%
   }}
```

Comment [HSM1]: Testing first time.

Comment [HSM2]: Testing second time.

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 sets-pace 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.}
```

A different approach is given by Vitaly.

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

It looks like seen here.

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

#### 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.

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

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.

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

```
\newcommand\todoin[2][]{\todo[inline, caption={2do}, #1]{
\begin{minipage}{\textwidth-4pt}#2\end{minipage}}}
```

This example renders like

```
\todoin{
Some text.
\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[%
        caption={\protect\hypertarget{todo\thetodoListItems}{}Translation},
        #1]
    {
        #2 \hfill
        \hyperlink{todo\thetodoListItems}{$\uparrow$}}
}
```

The idea behind the code is to embed a 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 \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 \thesection, the current section number can be inserted instead of the subsubsection 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}{}\thesection. #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-listoftod 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}
```

Small notes with links back to the list of todos.

Smart notes with links back to the list of todos.

# 1.8.13 Highligt 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.

\newcommand{\hlfix}[2]{\texthl{#1}\todo{#2}}
Example \hlfix{wrong text}{fix text}~continues here.

## 2 Implementation

Identifies the package and loads the packages dependences.

```
1 \ProvidesPackage{todonotes}[2012/07/25]
2 \RequirePackage{ifthen}
3 \RequirePackage{xkeyval}
4 \RequirePackage{xcolor}
5 \RequirePackage{tikz}
6 \usetikzlibrary{positioning}
7 \RequirePackage{calc}
Some default values are set
8 \newcommand{\@todonotes@text}{}%
9 \newcommand{\@todonotes@backgroundcolor}{orange}
10 \newcommand{\@todonotes@linecolor}{orange}
11 \newcommand{\@todonotes@bordercolor}{black}
12 \newcommand{\@todonotes@textwidth}{\marginparwidth}
13 \newcommand{\@todonotes@textsize}{\normalsize}
14 \newcommand{\@todonotes@figwidth}{\linewidth}
15 \newcommand{\@todonotes@figheight}{4cm}
16 \newcommand{\@todonotes@figcolor}{black!40}
17 \AtBeginDocument{
18 \ifx\undefined\phantomsection
19 \newcommand{\phantomsection}{}
20 \fi
21 }
```

#### 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.

```
22 \newcommand{\@todonotes@todolistname}{Todo list}
23 \newcommand{\@todonotes@MissingFigureText}{Figure}
24 \newcommand{\@todonotes@MissingFigureUp}{Missing}
25 \newcommand{\@todonotes@MissingFigureDown}{figure}
26 \newcommand{\@todonotes@SetTodoListName}[1]
      {\renewcommand{\@todonotes@todolistname}{#1}}
28 \newcommand{\@todonotes@SetMissingFigureText}[1]
      {\renewcommand{\@todonotes@MissingFigureText}{#1}}
30 \newcommand{\@todonotes@SetMissingFigureUp}[1]
      {\renewcommand{\@todonotes@MissingFigureUp}{#1}}
32 \newcommand{\@todonotes@SetMissingFigureDown}[1]
      {\renewcommand{\@todonotes@MissingFigureDown}{#1}}
34 \newif{\if@todonotes@reverseMissingFigureTriangle}
35 \DeclareOptionX{catalan}{
36
      \@todonotes@SetTodoListName{Llista de feines pendents}%
      \@todonotes@SetMissingFigureText{Figura}%
      \@todonotes@SetMissingFigureUp{Figura}%
38
```

```
\@todonotes@SetMissingFigureDown{pendent}%
40 }
41 \DeclareOptionX{croatian}{%
     \@todonotes@SetTodoListName{Popis obveza}%
42
     \@todonotes@SetMissingFigureText{Slika}%
43
44
     \@todonotes@SetMissingFigureUp{Nedostaje}%
45
     \@todonotes@SetMissingFigureDown{slika}%
46 }
47 \DeclareOptionX{danish}{%
      \@todonotes@SetTodoListName{G\o{}rem\aa{}lsliste}%
48
      \@todonotes@SetMissingFigureText{Figur}%
49
      \@todonotes@SetMissingFigureUp{Manglende}%
50
      \@todonotes@SetMissingFigureDown{figur}%
52 }
53 \DeclareOptionX{dutch}{%
     \@todonotes@SetTodoListName{Lijst van onafgewerkte taken}%
54
     \@todonotes@SetMissingFigureText{Figuur}%
     \OtodonotesOSetMissingFigureUp{Ontbrekende}%
57
     \@todonotes@SetMissingFigureDown{figuur}%
58 }
59 \DeclareOptionX{english}{%
     \@todonotes@SetTodoListName{Todo list}%
     \OtodonotesOSetMissingFigureText{Figure}%
     \@todonotes@SetMissingFigureUp{Missing}%
     \@todonotes@SetMissingFigureDown{figure}%
63
64 }
65 \DeclareOptionX{french}{%
      \@todonotes@SetTodoListName{Liste des points \'a traiter}%
66
      \@todonotes@SetMissingFigureText{Figure}%
      \@todonotes@SetMissingFigureUp{Figure}%
      \@todonotes@SetMissingFigureDown{manquante}%
70
      \@todonotes@reverseMissingFigureTrianglefalse
71 }
72 \DeclareOptionX{german}{%
      \@todonotes@SetTodoListName{Liste der noch zu erledigenden Punkte}%
74
      \@todonotes@SetMissingFigureText{Abbildung}%
      \@todonotes@SetMissingFigureUp{Fehlende}%
      \@todonotes@SetMissingFigureDown{Abbildung}%
76
77 }
78 \DeclareOptionX{italian}{
79
      \@todonotes@SetTodoListName{Elenco delle cose da fare}%
80
      \@todonotes@SetMissingFigureText{Figura}%
      \@todonotes@SetMissingFigureUp{Figura}%
81
      \@todonotes@SetMissingFigureDown{mancante}%
82
83 }
84 \DeclareOptionX{ngerman}{%
85
      \@todonotes@SetTodoListName{Liste der noch zu erledigenden Punkte}%
86
      \OtodonotesOSetMissingFigureText{Abbildung}%
87
      \@todonotes@SetMissingFigureUp{Fehlende}%
88
      \@todonotes@SetMissingFigureDown{Abbildung}%
```

```
89 }
90 \DeclareOptionX{portuguese}{
       \@todonotes@SetTodoListName{Lista de tarefas pendentes}%
91
       \@todonotes@SetMissingFigureText{Figura}%
       \@todonotes@SetMissingFigureUp{Figura}%
94
       \@todonotes@SetMissingFigureDown{pendente}%
95 }
96 \DeclareOptionX{spanish}{
       \@todonotes@SetTodoListName{Lista de tareas pendientes}%
       \@todonotes@SetMissingFigureText{Figura}%
       \@todonotes@SetMissingFigureUp{Figura}%
       \@todonotes@SetMissingFigureDown{pendiente}%
100
101 }
102 \DeclareOptionX{swedish}{%
       \@todonotes@SetTodoListName{Att g\"{o}ra-lista}%
       \OtodonotesOSetMissingFigureText{Figur}%
       \@todonotes@SetMissingFigureUp{Figur}%
       \@todonotes@SetMissingFigureDown{saknas}%
106
107 }
Create a counter, for storing the number of inserted todos.
108 \newcounter{@todonotes@numberoftodonotes}
    Toggle whether the package should obey the global draft option.
109 \newif{\if@todonotes@obeyDraft}
110 \DeclareOptionX{obeyDraft}{\@todonotes@obeyDrafttrue}
111 \newif{\if@todonotes@isDraft}
112 \DeclareOptionX{draft}{\@todonotes@isDrafttrue}
113 \DeclareOptionX{draftcls}{\OtodonotesOisDrafttrue}
114 \verb|\DeclareOptionX{draftclsnofoot}{\QtodonotesQisDrafttrue}|
115 \newif{\if@todonotes@obeyFinal}
116 \DeclareOptionX{obeyFinal}{\@todonotes@obeyFinaltrue}
117 \newif{\if@todonotes@isFinal}
118 \DeclareOptionX{final}{\@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 you document with these commands).
119 \newif{\if@todonotes@disabled}
120 \DeclareOptionX{disable}{\@todonotes@disabledtrue}
Show small boxes in the list of todos with the color of the inserted todonotes.
121 \newif{\if@todonotes@colorinlistoftodos}
122 \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.
123 \newif{\if@todonotes@dviStyle}
124 \DeclareOptionX{dvistyle}{\@todonotes@dviStyletrue}
```

```
Create a color option.
125 \define@key{todonotes.sty}%
       {color}{
126
           \renewcommand{\@todonotes@backgroundcolor}{#1}
           \renewcommand{\@todonotes@linecolor}{#1}}
Make the background color of the notes as an option.
129 \define@key{todonotes.sty}%
       {backgroundcolor}{\renewcommand{\@todonotes@backgroundcolor}{#1}}
Make the line color of the notes as an option.
131 \define@key{todonotes.sty}%
       {linecolor}{\renewcommand{\@todonotes@linecolor}{\#1}}
Make the color of the notes box color as an option.
133 \define@key{todonotes.sty}%
       {bordercolor}{\renewcommand{\@todonotes@bordercolor}{#1}}
134
Set whether short captions given as arguments to the todo command should be
included in the inserted todonote.
135 \newif{\if@todonotes@prependcaptionglobal}
136 \@todonotes@prependcaptionglobalfalse
137 \DeclareOptionX{prependcaption}{\@todonotes@prependcaptionglobaltrue}
Make the text width as an option.
138 \define@key{todonotes.sty}%
       {textwidth}{\renewcommand{\@todonotes@textwidth}{#1}}
Make the text size as an option. It requires some magic with the \csname and
\endcsname macros, as commands cannot be taken as options for a package.
140 \define@key{todonotes.sty}%
       {textsize}{\renewcommand{\@todonotes@textsize}{\csname #1\endcsname}}
Add option for shadows behind the inserted notes
142 \newif{\if@todonotes@shadowenabled}
143 \@todonotes@shadowenabledfalse
144 \DeclareOptionX{shadow}{\@todonotes@shadowenabledtrue
145 \usetikzlibrary{shadows}}
Add option for the default width of the figure inserted with \missingfigure.
146 \define@key{todonotes.sty}%
       {figwidth}{\renewcommand{\@todonotes@figwidth}{#1}}
148 \define@key{todonotes.sty}%
       {figheight}{\renewcommand{\@todonotes@figheight}{#1}}
150 \define@key{todonotes.sty}%
       {figcolor}{\renewcommand{\@todonotes@figcolor}{#1}}
Make the text width as an option.
152 % Finally process the given options.
        \begin{macrocode}
154 \ProcessOptionsX*
```

If the obeyDraft is given, check whether one of the draft, draftcls or draftclsnofoot options are given and enable or disable the functionality of this package. If the obeyFinal option is given together with the final option the todonotes are disabled. The disable option will overrule the effect of obeyDraft.

```
155 \if@todonotes@disabled
156 \else
157 \if@todonotes@obeyDraft
158 \@todonotes@disabledtrue
159 \if@todonotes@disabledfalse
160 \@todonotes@disabledfalse
161 \fi
162 \fi
163 \if@todonotes@obeyFinal
164 \@todonotes@disabledfalse
165 \if@todonotes@disabledfalse
166 \@todonotes@disabledfalse
167 \fi
168 \fi
169 \fi
```

#### 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

```
170 \newcommand{\@todonotes@currentlinecolor}{}%
171 \ensuremath{\ensuremath{\texttt{0}}}{todonotes@currentbackgroundcolor}{}\%
172 \newcommand{\@todonotes@currentbordercolor}{}%
173 \define@key{todonotes}{color}{%
                     \renewcommand{\@todonotes@currentlinecolor}{#1}%
                     \renewcommand{\@todonotes@currentbackgroundcolor}{#1}}%
176 \define@key{todonotes}{linecolor}{%
                     \renewcommand{\@todonotes@currentlinecolor}{#1}}%
178 \define@key{todonotes}{backgroundcolor}{%
                     \renewcommand{\@todonotes@currentbackgroundcolor}{#1}}%
180 \define@key{todonotes}{bordercolor}{%
181
                     \renewcommand{\@todonotes@currentbordercolor}{#1}}%
  Set a relative font size
182 \newcommand{\@todonotes@sizecommand}{}%
183 \define@key{todonotes}{size}{\renewcommand{\@todonotes@sizecommand}{#1}}%
  Should the todo item be disabled?
184 \newif\if@todonotes@localdisable%
185 \define@key{todonotes}{disable}[]{\@todonotes@localdisabletrue}%
186 \end{fine} {\tt localdisablefalse} \cline{\tt localdisab
  Should the todo item be included in the list of todos?
187 \newif\if@todonotes@appendtolistoftodos%
188 \define@key{todonotes}{list}[]{\@todonotes@appendtolistoftodostrue}%
189 \define@key{todonotes}{nolist}[]{\@todonotes@appendtolistoftodosfalse}%
```

```
Should the todo item be displayed inline?
190 \newif\if@todonotes@inlinenote%
191 \define@key{todonotes}{inline}[]{\@todonotes@inlinenotetrue}%
192 \define@key{todonotes}{noinline}[]{\@todonotes@inlinenotefalse}%
193 \newif\if@todonotes@prependcaption%
194 \define@key{todonotes}{prepend}[]{\@todonotes@prependcaptiontrue}%
195 \define@key{todonotes}{noprepend}[]{\@todonotes@prependcaptionfalse}%
 Should the note in the margin be connected to the insertion point in the text?
196 \newif\if@todonotes@line%
197 \define@key{todonotes}{line}[]{\@todonotes@linetrue}%
198 \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)
199 \newif\if@todonotes@fancyline\@todonotes@fancylinefalse%
200 \define@key{todonotes}{fancyline}[]{\@todonotes@fancylinetrue}%
201 \define@key{todonotes}{nofancyline}[]{\@todonotes@fancylinefalse}%
 Author option.
202 \newcommand{\@todonotes@author}{}%
203 \newif\if@todonotes@authorgiven%
204 \define@key{todonotes}{author}{%
             \renewcommand{\@todonotes@author}{#1}%
206
              \@todonotes@authorgiventrue}%
Should the text in the list of todos be different from the text in the todonote?
208 \newcommand{\@todonotes@caption}{}%
209 \newif\if@todonotes@captiongiven%
210 \define@key{todonotes}{caption}%
211
             {\renewcommand{\@todonotes@caption}{#1}%
             \@todonotes@captiongiventrue}%
213 \define@key{todonotes}{nocaption}[]{\@todonotes@captiongivenfalse}%
 Change the current figure width and height.
214 \end{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\
215 \define@key{todonotes}%
             218 \define@key{todonotes}%
             {figheight}{\renewcommand{\@todonotes@currentfigheight}{#1}}
220 \newcommand{\@todonotes@currentfigcolor}{\@todonotes@figcolor}
221 \define@key{todonotes}%
             {figcolor}{\renewcommand{\@todonotes@currentfigcolor}{#1}}
 Preset values of the options
223 \presetkeys%
             {todonotes}%
224
             {linecolor=\@todonotes@linecolor,%
             backgroundcolor=\@todonotes@backgroundcolor,%
```

```
227 bordercolor=\@todonotes@bordercolor,%
228 nofancyline,%
229 nodisable,%
230 noinline,%
231 nocaption,%
232 noauthor,%
233 figwidth=\@todonotes@figwidth,%
234 figheight=\@todonotes@figheight,%
235 figcolor=\@todonotes@figcolor,%
236 line, list, size=\@todonotes@textsize}{}%
```

### 2.3 The main code part

265

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

```
237 \if@todonotes@disabled%
       \newcommand{\listoftodos}[1][]{}
       \mbox{\newcommand{\0todo}[2][]{}}
240
       \newcommand{\missingfigure}[2][]{}
241 \else % \if@todonotes@disabled
Define the \listoftodos command and define the appearance of the list of todos.
242 \newcommand{\listoftodos}[1][\@todonotes@todolistname]
       243
244 \newcommand{\l@todo}
       {\@dottedtocline{1}{0em}{2.3em}}
245
Define styles used by the todo command
246 \tikzstyle{notestyleraw} = [
       draw=\@todonotes@currentbordercolor,
247
       fill=\@todonotes@currentbackgroundcolor,
       line width=0.5pt,
       text width = \@todonotes@textwidth - 1.6 ex - 1pt,
       inner sep = 0.8 \text{ ex},
       rounded corners=4pt]
Add shadows and rounded corners to the inserted todonotes.
253 \if@todonotes@shadowenabled
254 \tikzstyle{notestyle} = [notestyleraw,
255
       general shadow={shadow xshift=.5ex, shadow yshift=-.5ex,
256
           opacity=1,fill=black!50}]
257 \else
258 \tikzstyle{notestyle} = [notestyleraw]
259 \fi
260 \tikzstyle{notestyleleft} = [
261
      notestyle,
       left]
263 \tikzstyle{connectstyle} = [
       thick,
```

draw=\@todonotes@currentlinecolor]

```
266 \tikzstyle{inlinenotestyle} = [
       267
              notestyle,
              text width=\linewidth - 1.6 ex - 1 pt]
\@todo Define the \@todo command.
       269 \newcommand{\@todo}[2][]{%
        Use the global value for determining the default prepend behavior.
       270 \if@todonotes@prependcaptionglobal%
       271 \@todonotes@prependcaptiontrue%
       272 \else%
       273 \@todonotes@prependcaptionfalse%
       274 \fi%
        Store the original text for later usage and parse the given options.
       275 \renewcommand{\@todonotes@text}{#2}%
       276 \renewcommand{\@todonotes@caption}{#2}%
       277 \setkeys{todonotes}{#1}%
        If the option disable is given to the command, no output is generated.
       278 \if@todonotes@localdisable%
       279 \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.
       280 \addtocounter{OtodonotesOnumberoftodonotes}{1}%
       281 \if@todonotes@appendtolistoftodos%
       282
               \phantomsection%
               \if@todonotes@captiongiven%
               \else%
       284
                   \renewcommand{\@todonotes@caption}{#2}%
       286
       287
               \@todonotes@addElementToListOfTodos%
       Prepend the short caption given if it is requested
       289 \if@todonotes@captiongiven%
       290
               \if@todonotes@prependcaption%
                   \renewcommand{\@todonotes@text}{\@todonotes@caption: #2}%
               \fi%
       293 \fi%
        Place the todonote as indicated by the options (inline or in a marginpar), below
        is the code for the inline placement.
       294 \if@todonotes@inlinenote%
              \@todonotes@drawInlineNote%
       296 \else%
               \@todonotes@drawMarginNoteWithLine%
       298 \fi%\if@todonotes@inlinenote
       299 \fi%\if@todonotes@localdisable
       300 }%
```

drawMarginNoteWithLine Define helper function drawMarginNoteWithLine.

```
301 \newcommand{\@todonotes@drawMarginNoteWithLine}{%
```

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.

```
302 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
       \node [coordinate] (inText) {};%
304 \end{tikzpicture}%
305 \marginpar[{% Draw note in left margin
       \@todonotes@drawMarginNote%
       \@todonotes@drawLineToLeftMargin%
```

In the book document class (which is a two side 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.

```
308 }]{% Draw note in right margin
309
       \@todonotes@drawMarginNote%
       \@todonotes@drawLineToRightMargin%
311 }%
312 }%
```

#### addElementToListOfTodos

Define helper function addElementToListOfTodos.

```
313 \newcommand{\@todonotes@addElementToListOfTodos}{%
314
       \if@todonotes@colorinlistoftodos%
           \addcontentsline{tdo}{todo}{%
               \fcolorbox{\@todonotes@currentbordercolor}%
                   {\@todonotes@currentbackgroundcolor}%
                   {\textcolor{\@todonotes@currentbackgroundcolor}{o}}%
               \ \@todonotes@caption}%
       \else%
           \addcontentsline{tdo}{todo}{\@todonotes@caption}%
       \fi}%
```

drawInlineNote Define helper function drawInlineNote.

```
323 \newcommand{\@todonotes@drawInlineNote}{%
       \if@todonotes@dviStyle%
           {\par\noindent\begin{tikzpicture}[remember picture]%
               \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
               \if@todonotes@authorgiven%
                   {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
               \else%
                   {\noindent \@todonotes@sizecommand \@todonotes@text}%
           {\par\noindent\begin{tikzpicture}[remember picture]%
               \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
       \else%
           {\par\noindent\begin{tikzpicture}[remember picture]%
               \draw node[inlinenotestyle,font=\@todonotes@sizecommand] {%
```

```
\if@todonotes@authorgiven%
                                               {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
                                           \else%
                                               {\noindent \@todonotes@sizecommand \@todonotes@text}%
                                          \fi};%
                                      \verb|\end{tikzpicture}\par}|
                              \fi}%
       drawMarginNote Define helper function drawMarginNote.
                      344 \newcommand{\@todonotes@drawMarginNote}{%
                      345 \if@todonotes@dviStyle%
                              \begin{tikzpicture}[remember picture]%
                                  \draw node[notestyle] {};%
                              \end{tikzpicture}\\%
                              \begin{minipage}{\@todonotes@textwidth}%
                              \if@todonotes@authorgiven%
                                \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
                      351
                                \@todonotes@sizecommand \@todonotes@text%
                      354
                              \fi%
                              \end{minipage}\\%
                              \begin{tikzpicture}[remember picture]%
                                  \draw node[notestyle] (inNote) {};%
                      358
                              \end{tikzpicture}%
                       359 \else%
                              \let\originalHbadness\hbadness%
                      360
                              \hbadness 100000%
                      361
                              \begin{tikzpicture}[remember picture,baseline=(X.base)]%
                      362
                                  \node(X){\vphantom{X}};%
                      363
                                  \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north] (inNote) at (X.north)%
                      364
                      365
                                      {\@todonotes@text};%
                                  \if@todonotes@authorgiven%
                      366
                                      \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north] (inNote) at (X.northernorth)
                      367
                      368
                                           {\@todonotes@sizecommand\@todonotes@author};%
                      369
                                      \node(Y)[below=of X]{};%
                                      \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north] (inNote) at (X.sout
                                           {\@todonotes@text};%
                                  \else%
                                       \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north] (inNote) at (X.nort
                                          {\@todonotes@text};%
                                  \fi%
                              \end{tikzpicture}%
                              \hbadness \originalHbadness%
                      378 \fi}%
drawLineToRightMargin Define helper function drawLineToRightMargin.
                      379 \newcommand{\@todonotes@drawLineToRightMargin}{%
                      380 \if@todonotes@line%
                      381 \if@todonotes@fancyline%
                       382 \tikz[remember picture, overlay] {%
```

```
383 \tikzstyle{both}=[line width=3pt, draw, opacity=0.15]%
                     384 \tikzstyle{line}=[shorten >=5pt, line cap=round]%
                     385 \neq = 1pt, dash pattern=on Opt off 1pt, ->]%
                     386 \foreach \s in {line,head}{%}
                     387 \draw[both,\s]%
                     388 (inNote.north west).. controls +(0:0) and +(90:1.5)..([yshift=1ex] inText);%
                     390 }%
                     391 \else%
                     392 \begin{tikzpicture}[remember picture, overlay]%
                     393 \draw[connectstyle]%
                     394 ([yshift=-0.2cm] inText)%
                     395 - | ([xshift=-0.2cm] inNote.west)%
                     396 - | (inNote.west);%
                     397 \end{tikzpicture}%
                     398 \fi%
                     399 \fi}%
drawLineToLeftMargin Define helper function drawLineToLeftMargin.
                     400 \newcommand{\@todonotes@drawLineToLeftMargin}{%
                     401 \if@todonotes@line%
                     402 \if@todonotes@fancyline%
                     403 \tikz[remember picture, overlay] {%
                     404 \tikzstyle{both}=[line width=3pt, draw, opacity=0.15]%
                     405 \tikzstyle{line}=[shorten >=5pt, line cap=round]%
                     406 \tikzstyle{head}=[shorten >=-1pt, dash pattern=on Opt off 1pt,->]%
                     407 \foreach \s in {line,head}{%
                     408 \draw[both,\s]%
                     409 (inNote.north east).. controls +(0:0) and +(90:1.5)..([yshift=1ex] inText);%
                     410 };%
                     411 }%
                     412 \else%
                     413 \begin{tikzpicture}[remember picture, overlay]%
                     414 \draw[connectstyle]%
                     415 ([yshift=-0.2cm] inText)%
                     416 - | ([xshift=0.2cm] inNote.east)%
                     417 - | (inNote.east);%
                     418 \end{tikzpicture}%
                     419 \fi%
                     420 \fi}%
      \missingfigure Defines the \missingfigure macro.
                     421 \newcommand{\missingfigure}[2][]{%
                     422 \setkeys{todonotes}{#1}%
                     423 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
                     424 \par
                     425 \noindent
                     426 \begin{tikzpicture}
                     427 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
                             (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
```

```
429 \text{ } \text{draw } (2, -0.3) \text{ node[right, text]}
                   width=\@todonotes@currentfigwidth-4.5cm] {#2};
           431 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
                   (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
           433 \draw (0, 0.3) node {\OtodonotesOMissingFigureUp};
           434 \draw (0, -0.3) node {\@todonotes@MissingFigureDown};
           435 \end{tikzpicture}\hfill
           436 }% Ending \missingfigure command
           437\ fi % Ending \@todonotes@ifdisabled
\todototoc 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 \todototoc
            command respects the disable option.
           438 \newcommand{\todototoc}
           439 {
                   \if@todonotes@disabled
           440
           442 \addcontentsline{toc}{\@ifundefined{chapter}{section}{chapter}}{\@todonotes@todolistname}
           443
           444 }
     \todo Define the \todo command as a redirection to \@todo.
           445 \newcommand{\todo}[2][]{\@bsphack\@todo[#1]{#2}\@esphack\ignorespaces}%
```

# Historique

0.1	0.4.2
Général : The first version of the package	Général : Fixed a bug with the disable option to the package 1
0.2	0.5
Général : Updated the option handling of the package 1	Général : Created a dtx file containing both source code
0.2.1	and documentation of the
Général: Slightly modified by Kjell Magne Fauske to support notes in the left margin (for documentstyle book) 1	package         1           0.5.1         Général : Updated the documentation         1
0.2.2	0.5.2
$\begin{array}{c} {\rm G\acute{e}n\acute{e}ral: Added\ a\ missing figure} \\ {\rm command} \\ {\rm 0.2.3} \end{array}$	Général: Fixed a bug that prevented the usage of the option french for babel. Bug report by Thomas Braun 1
Général: Made a dependency on the calc package 1	0.6
0.3	Général : Added the caption option to the todo command 1
Général : Delayed the requirements	0.6.1
for the hyperref package untill begin document and added an optional argument to the todo	Général : Added a new usecase with decreased line spacing 1 0.6.2
command for adding inline todonotes (Idea from Patrick Toche)	Général : Added a usecase by Fabrice Niessen 1
0.3.1	0.7
Général : Added some options to the todo macro (Idea : Patrick	Général : Added language options on request from Peter Zimmermann 1
Toche) and made the	0.7.1
listoftodos point at the inserted todos and not only the current / previous section, subsection or figure using the phantomsection macro 1	Général: Reworked the color options for both the whole package and the todo command. General code clean up. Added the prependcaption
0.4	package option 1
Général: Modified the behaviour of the inline todonotes, to avoid empty lines around the inline todonotes	0.7.2  Général : Avoid to change the fontsize inside the list of todos, fixing a bug revealed by Vladimir Zhuravlev
Général : Added the option	0.7.3
colorinlistoftodos which inserts a small box with the used fillcolor of the todonotes in the	Général: The localization options (danish and german) and the disable options, were all flawed by naming inconsistencies that

made then break the package.	0.8.4
This have been fixed 1	Général : Fixed a bug related to
0.7.4	the obeyDraft option 1
Général: Fixed a bug related to	0.8.5
the caption option for the todo	Général : Added two new usecases
command. Introduced a	(enumeration of inserted
counter of the number of	todonotes and how to set
inserted todos 1	custom default values).
0.7.5	Changed the order of the use
Général : Fixed a typo in a	case examples 1
macroname 1	
0.7.6	0.8.6
Général : Added a textsize option	Général : Added a portuguese
for the package and the	translation by Og DeSouza 1
prepend / noprepend option	0.8.7
for the todo command 1	Général : Updated portuguese
0.8	translation. Added a ngerman
Général : Added three new	alias for the german translation
translations french, spanish	suggested by Michael
and catalan thanks to Richard	Niedermair 1
Dominique and Joan Queralt.	0.8.8
Improved the visual	Général : Added a new usecase
appearence of the inserted	from Vitaly. Fixed a bug
notes (rounded corners and	reported by Oscar Gustafsson.
optional shadows) with code	Explained why the placement
from Joan Queralt. Found an	of todonotes in the margin fails
untranslated textstring	in certain custom document
"Figure" in the source. Added a	classes
figwidth option to the	0.8.9
missingfigure command, patch	Général : Added a dutch
by Paul Ivanov 1	translation by Ruben Ruben
0.8.1	Vermeersch 1
Général : Added a space between	0.9.0
the colored square and the text	
in the list of todos. Added a	Général : Added a english option as suggested by Marco
new usecase for marking old /	Berghoff
new sections. Made the name	9
of listoftodos changeable 1	0.9.1
0.8.2	Général : Added the todototoc
Général: Italian translation by	command by idea from Sven
Gustavo Cevolani. Removed	Augustin
the dependence on the hyperref	0.9.2
package 1	Général : Use chapter (if available)
0.8.3	for the list of todos heading 1
Général : Added a use case for	0.9.3
linking to the list of todos, idea	Général : Make an internal
from Andreas Plank.	definition of the todo
Introduced a package option	command, for easing
for listening to the draft option	redefinition of the command
given to the document class 1	hehaviour 1

0.9.4	todonotes. Added obeyDraft
Général : Make the disable option	and obeyFinal options 1
work on a local scale 1	1.0.1
0.9.5	Général : Fix spacing issues
Général : Code simplification by extracting functionality to smaller macros	reported by Jonathan Zachhuber and Brent Longborough. Added figheight
0.9.6	option to the missingfigure
Général : Give fontsize to TikZ.  Align notes with line where note is set. Added new option	command as suggested by Kim Albertsson
fancyline. Patches by Benjamin	Général : Added Swedish
Kellermann	translation by Emil Lundberg. Added usecase by Tobias Winchen. Mentioned that default arguments can be set
Général : Suppress warnings about underfull / overful boxes generated by the inserted todonotes. Patch by Peter M Schuler	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
Général : Added author option,	Loff 1
implementation provided by	1.0.3
Xavier Alameda-Pineda.	Général : Added the option
Example of modifying the listoftodos removing some protect commands with no effect	figcolor to missing figure, patch by Pascal Hebbeker. Added Croatian translation by Ican Kokan. Changed default with
1.0.0	of missingfigure. Removed
Général : Mention trouble with the classicthesis style. Refer to	some underfull box warnings, solution by Ernst Blecha 1
some alternatives to the	1.0.4
package. Added todoin	Général : Restructured
command as suggested by	documentation and placed
Stefan Pinnow. Described how	some examples in the
to use tikz externalize with	doc/examples subdirectory 1