The todonotes package*

Henrik Skov Midtiby henrikmidtiby@gmail.com

July 14, 2014

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.

Contents

1 Introduction		2	
	1.1	Usage	2
	1.2	Package options	:
	1.3	Options for the todo command	4
	1.4	Options for the missingfigure command	6
	1.5	Options for the listoftodos command	7
	1.6	Known issues	7
	1.7	Things to improve	1(
	1.8	Usage methods	11
2 Implementation		L8	
	2.1	Declaration of options for the package	18
	2.2	Options for the todo command	22
	2.3	The main code part	23
A	Lon	ger code examples	29
		Alter appearence of the list of todos	29

^{*}This document corresponds to to donotes .dtx, dated 2012/07/25.

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},

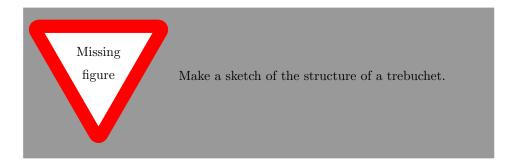
Make a cake ...

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.



 $\label{listoftodos}$

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			
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			
	A todonote placed in the text			
	Fill those circles			
	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			
	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			
	Some lines with a decreased line spacing. This is accomplished using the			
setspace package that is included in standard latex distributions 13				

Some lines with a decreased line spacing. This is accomplished without
using any special packages
$2 ext{do} \ldots \ldots \ldots \ldots \ldots \ldots 1$
Translation
Translation
1.8.9. A numbered todo
1. Small notes with links back to the list of todos
1. Smart notes with links back to the list of todos
fix text

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

danish, german, ngerman,
french, swedish
spanish, catalan, italian
portuguese, dutch
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, danish, dutch, french, german, ngerman, italian, portuguese, spanish and swedish.

the color of the inserted todonote marks the type of todo.

color

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

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.

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=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.

textwidth

bordercolor

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.

textsize

The prependcaption option triggers a special behaviour of the caption=val

prependcaption

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 appearance¹. 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 \columnwidth.

Options for the todo command 1.3

There are several options that can be given to the \too 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 command.

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

disable

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 below.

And a green note

\newcommand{\insertref}[1]{\todo[color=green!40]{#1}} \newcommand{\explainindetail}[1]{\todo[color=red!40]{#1}}

Anything but default colors

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 ...}

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

inline / noinline

It is possible to place a todonote inside the text instead of placing it in the

¹The 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}

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.

Fill those circles ...

size

A note with a large font size.

list / nolist

caption

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

prepend / noprepend

Short note with prepend: 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 to-

fancyline

Testing.

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.}.

Note with very small font size.

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

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.}.

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.}

author

Xavier

Testing author option.

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

Xavier: Testing author option.

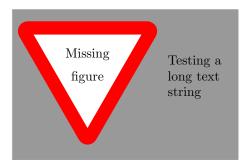
\todo[author=Xavier]{Testing author option.}
\todo[author=Xavier, inline]{Testing author option.}

1.4 Options for the missingfigure command

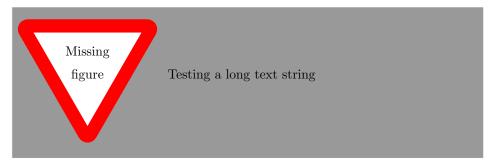
figwidth

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}



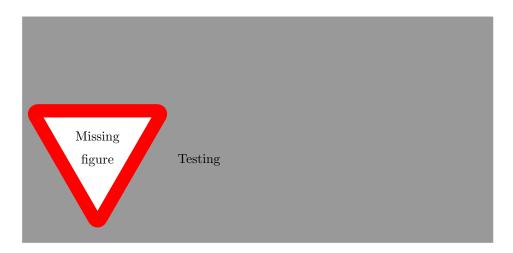
Another usage of the option is when \missingfigure is used in the wrapfigure environment.

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



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	• tikz
• xkeyval	• calc
• xcolor	• 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

Does this eat the space?

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 com-

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.}
```

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}}
```

1: A numbered todonote.

2: Another numbered todonote.

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 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}}}
```

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

Some lines with a decreased line spacing. This is accomplished without using any special packages.

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}
}
```

```
Some text. \sin(\theta)^2 + \cos(\theta)^2 = 1 \tag{1} A formula and a list 
 • 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][]{
    % 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}
```

papirsflyver

damplokomotiv

1.8.9 Numbered todonotes

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

1.8.9. A numbered todo.

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:

Small notes with links back to the list of todos.

Smart notes with links back to the list of todos.

```
\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 appendix A.1.

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

1.8.12 Tikz externalization issues

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

```
\usetikzlibrary{external}
\tikzexternalize
\newcommand{\ruggedtodo}[2][]{\tikzexternaldisable\todo[#1]{#2}\tikzexternalenable}
```

1.8.13 Highligt text to fix

fix text

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.

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}{\columnwidth}
15 \newcommand{\@todonotes@figheight}{4cm}
16 \AtBeginDocument{
17 \ifx\undefined\phantomsection
18 \newcommand{\phantomsection}{}
19 \fi
20 }
```

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.

```
21 \newcommand{\@todonotes@todolistname}{Todo list}
22 \newcommand{\@todonotes@MissingFigureText}{Figure}
23 \newcommand{\@todonotes@MissingFigureUp}{Missing}
24 \newcommand{\@todonotes@MissingFigureDown}{figure}
25 \newcommand{\@todonotes@SetTodoListName}[1]
      {\renewcommand{\@todonotes@todolistname}{#1}}
27 \newcommand{\@todonotes@SetMissingFigureText}[1]
      {\renewcommand{\@todonotes@MissingFigureText}{#1}}
28
29 \newcommand{\@todonotes@SetMissingFigureUp}[1]
      {\renewcommand{\@todonotes@MissingFigureUp}{#1}}
30
31 \newcommand{\@todonotes@SetMissingFigureDown}[1]
      {\renewcommand{\OtodonotesOMissingFigureDown}{#1}}
33 \newif{\if@todonotes@reverseMissingFigureTriangle}
34 \DeclareOptionX{catalan}{
35
      \@todonotes@SetTodoListName{Llista de feines pendents}%
36
      \@todonotes@SetMissingFigureText{Figura}%
      \@todonotes@SetMissingFigureUp{Figura}%
37
      \@todonotes@SetMissingFigureDown{pendent}%
38
```

```
39 }
40 \DeclareOptionX{danish}{%
      \@todonotes@SetTodoListName{G\o{}rem\aa{}lsliste}%
41
      \@todonotes@SetMissingFigureText{Figur}%
42
      \@todonotes@SetMissingFigureUp{Manglende}%
43
      \@todonotes@SetMissingFigureDown{figur}%
44
45 }
46 \DeclareOptionX{dutch}{%
     \@todonotes@SetTodoListName{Lijst van onafgewerkte taken}%
47
     \@todonotes@SetMissingFigureText{Figuur}%
48
     \@todonotes@SetMissingFigureUp{Ontbrekende}%
49
50
     \@todonotes@SetMissingFigureDown{figuur}%
51 }
52 \DeclareOptionX{english}{%
     \@todonotes@SetTodoListName{Todo list}%
53
     \@todonotes@SetMissingFigureText{Figure}%
54
     \@todonotes@SetMissingFigureUp{Missing}%
55
     \@todonotes@SetMissingFigureDown{figure}%
56
57 }
58 \DeclareOptionX{french}{%
59
      \@todonotes@SetTodoListName{Liste des points \'a traiter}%
      \@todonotes@SetMissingFigureText{Figure}%
60
      \@todonotes@SetMissingFigureUp{Figure}%
61
      \@todonotes@SetMissingFigureDown{manquante}%
62
63
      \@todonotes@reverseMissingFigureTrianglefalse
64 }
65 \DeclareOptionX{german}{%
      \@todonotes@SetTodoListName{Liste der noch zu erledigenden Punkte}%
66
      \@todonotes@SetMissingFigureText{Abbildung}%
67
      \@todonotes@SetMissingFigureUp{Fehlende}%
68
      \@todonotes@SetMissingFigureDown{Abbildung}%
69
70 }
71 \DeclareOptionX{italian}{
      \@todonotes@SetTodoListName{Elenco delle cose da fare}%
72
      \@todonotes@SetMissingFigureText{Figura}%
73
      \@todonotes@SetMissingFigureUp{Figura}%
74
      \@todonotes@SetMissingFigureDown{mancante}%
75
76 }
77 \DeclareOptionX{ngerman}{%
      \@todonotes@SetTodoListName{Liste der noch zu erledigenden Punkte}%
78
79
      \@todonotes@SetMissingFigureText{Abbildung}%
      \@todonotes@SetMissingFigureUp{Fehlende}%
80
      \@todonotes@SetMissingFigureDown{Abbildung}%
81
82 }
83 \DeclareOptionX{portuguese}{
84
      \@todonotes@SetTodoListName{Lista de tarefas pendentes}%
85
      \@todonotes@SetMissingFigureText{Figura}%
86
      \@todonotes@SetMissingFigureUp{Figura}%
87
      \@todonotes@SetMissingFigureDown{pendente}%
88 }
```

```
89 \DeclareOptionX{spanish}{
       \@todonotes@SetTodoListName{Lista de tareas pendientes}%
90
       \@todonotes@SetMissingFigureText{Figura}%
91
       \@todonotes@SetMissingFigureUp{Figura}%
92
       \@todonotes@SetMissingFigureDown{pendiente}%
93
94 }
95 \DeclareOptionX{swedish}{%
       \@todonotes@SetTodoListName{Att g\"{o}ra-lista}%
96
       \@todonotes@SetMissingFigureText{Figur}%
97
       \@todonotes@SetMissingFigureUp{Figur}%
98
       \@todonotes@SetMissingFigureDown{saknas}%
99
100 }
Create a counter, for storing the number of inserted todos.
101 \newcounter{@todonotes@numberoftodonotes}
    Toggle whether the package should obey the global draft option.
102 \newif{\if@todonotes@obeyDraft}
103 \DeclareOptionX{obeyDraft}{\@todonotes@obeyDrafttrue}
104 \newif{\if@todonotes@isDraft}
105 \DeclareOptionX{draft}{\@todonotes@isDrafttrue}
106 \DeclareOptionX{draftcls}{\@todonotes@isDrafttrue}
107 \verb|\DeclareOptionX{draftclsnofoot}{\QtodonotesQisDrafttrue}|
108 \newif{\if@todonotes@obeyFinal}
109 \DeclareOptionX{obeyFinal}{\@todonotes@obeyFinaltrue}
110 \newif{\if@todonotes@isFinal}
111 \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).
112 \newif{\if@todonotes@disabled}
113 \DeclareOptionX{disable}{\@todonotes@disabledtrue}
Show small boxes in the list of todos with the color of the inserted todonotes.
114 \newif{\if@todonotes@colorinlistoftodos}
115 \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.
116 \newif{\if@todonotes@dviStyle}
117 \DeclareOptionX{dvistyle}{\@todonotes@dviStyletrue}
Create a color option.
118 \define@key{todonotes.sty}%
119
       {color}{
           \renewcommand{\@todonotes@backgroundcolor}{#1}
120
121
           \renewcommand{\@todonotes@linecolor}{#1}}
Make the background color of the notes as an option.
122 \define@key{todonotes.sty}%
       {backgroundcolor}{\renewcommand{\@todonotes@backgroundcolor}{#1}}
123
```

```
Make the line color of the notes as an option.
124 \define@key{todonotes.sty}%
               {linecolor}{\renewcommand{\@todonotes@linecolor}{#1}}
125
 Make the color of the notes box color as an option.
126 \define@key{todonotes.sty}%
               {bordercolor}{\renewcommand{\@todonotes@bordercolor}{#1}}
127
 Set whether short captions given as arguments to the todo command should be
 included in the inserted todonote.
128 \newif{\if@todonotes@prependcaptionglobal}
129 \@todonotes@prependcaptionglobalfalse
130 \verb|\DeclareOptionX{prependcaption}{\Coloredge} for the constant of the constant of the constant of the coloredge of the constant of the coloredge of the c
 Make the text width as an option.
131 \define@key{todonotes.sty}%
               {textwidth}{\renewcommand{\@todonotes@textwidth}{#1}}
132
 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.
133 \define@key{todonotes.sty}%
               {textsize}{\renewcommand{\@todonotes@textsize}{\csname #1\endcsname}}
 Add option for shadows behind the inserted notes
135 \newif{\if@todonotes@shadowenabled}
136 \@todonotes@shadowenabledfalse
137 \DeclareOptionX{shadow}{\@todonotes@shadowenabledtrue
138 \usetikzlibrary{shadows}}
 Add option for the default width of the figure inserted with \missingfigure.
139 \define@key{todonotes.sty}%
               {figwidth}{\renewcommand{\@todonotes@figwidth}{#1}}
141 \define@key{todonotes.sty}%
               {figheight}{\renewcommand{\@todonotes@figheight}{#1}}
 Make the text width as an option.
143 % Finally process the given options.
                \begin{macrocode}
145 \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.
146 \if@todonotes@disabled
147 \else
148 \if@todonotes@obeyDraft
149 \@todonotes@disabledtrue
150 \if@todonotes@isDraft
151 \@todonotes@disabledfalse
152 \fi
153 \fi
```

```
154 \if@todonotes@obeyFinal
155 \@todonotes@disabledfalse
156 \if@todonotes@isFinal
157 \@todonotes@disabledtrue
158 \fi
159 \fi
160 \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

```
161 \newcommand{\@todonotes@currentlinecolor}{}%
162 \newcommand{\@todonotes@currentbackgroundcolor}{}%
163 \newcommand{\@todonotes@currentbordercolor}{}%
164 \define@key{todonotes}{color}{%
165
               \renewcommand{\@todonotes@currentlinecolor}{#1}%
               \renewcommand{\@todonotes@currentbackgroundcolor}{#1}}%
166
167 \define@key{todonotes}{linecolor}{%
               \renewcommand{\@todonotes@currentlinecolor}{#1}}%
168
169 \define@key{todonotes}{backgroundcolor}{%
               \renewcommand{\@todonotes@currentbackgroundcolor}{#1}}%
170
171 \define@key{todonotes}{bordercolor}{%
               \renewcommand{\@todonotes@currentbordercolor}{#1}}%
172
  Set a relative font size
173 \newcommand{\@todonotes@sizecommand}{}%
Should the todo item be disabled?
175 \newif\if@todonotes@localdisable%
176 \end{fine} \end{
177 \define@key{todonotes}{nodisable}[]{\@todonotes@localdisablefalse}%
  Should the todo item be included in the list of todos?
178 \newif\if@todonotes@appendtolistoftodos%
179 \define@key{todonotes}{list}[]{\@todonotes@appendtolistoftodostrue}%
180 \define@key{todonotes}{nolist}[] {\@todonotes@appendtolistoftodosfalse}%
  Should the todo item be displayed inline?
181 \newif\if@todonotes@inlinenote%
182 \define@key{todonotes}{inline}[]{\@todonotes@inlinenotetrue}%
183 \define@key{todonotes}{noinline}[]{\@todonotes@inlinenotefalse}%
184 \newif\if@todonotes@prependcaption%
185 \define@key{todonotes}{prepend}[]{\@todonotes@prependcaptiontrue}%
186 \define@key{todonotes}{noprepend}[]{\@todonotes@prependcaptionfalse}%
  Should the note in the margin be connected to the insertion point in the text?
187 \newif\if@todonotes@line%
188 \define@key{todonotes}{line}[]{\@todonotes@linetrue}%
189 \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)
190 \newif\if@todonotes@fancyline\@todonotes@fancylinefalse%
191 \define@key{todonotes}{fancyline}[]{\@todonotes@fancylinetrue}%
192 \define@key{todonotes}{nofancyline}[]{\@todonotes@fancylinefalse}%
  Author option.
193 \newcommand{\@todonotes@author}{}%
194 \newif\if@todonotes@authorgiven%
195 \define@key{todonotes}{author}{%
                \renewcommand{\@todonotes@author}{#1}%
196
197
                \@todonotes@authorgiventrue}%
198 \define@key{todonotes}{noauthor}[]{\@todonotes@authorgivenfalse}%
  Should the text in the list of todos be different from the text in the todonote?
199 \newcommand{\@todonotes@caption}{}%
200 \newif\if@todonotes@captiongiven%
201 \define@key{todonotes}{caption}%
202
                {\renewcommand{\@todonotes@caption}{#1}%
203
                \@todonotes@captiongiventrue}%
204 \end{fine} \end{
  Change the current figure width and height.
205 \verb|\command{\dtodonotes@currentfigwidth}{\dtodonotes@figwidth}| \\
206 \define@key{todonotes}%
                {figwidth}{\renewcommand{\OtodonotesOcurrentfigwidth}{#1}}
208 \newcommand{\@todonotes@currentfigheight}{\@todonotes@figheight}
209 \define@key{todonotes}%
                {figheight}{\renewcommand{\@todonotes@currentfigheight}{#1}}
210
  Preset values of the options
211 \presetkeys%
                {todonotes}%
212
                {linecolor=\@todonotes@linecolor,%
213
214
                backgroundcolor=\@todonotes@backgroundcolor,%
215
                bordercolor=\@todonotes@bordercolor,%
                nofancyline,%
216
217
                nodisable,%
               noinline,%
218
               nocaption,%
219
220
               noauthor,%
221
                figwidth=\@todonotes@figwidth,%
                figheight=\@todonotes@figheight,%
222
223
                line, list, size=\@todonotes@textsize}{}%
```

2.3 The main code part

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

224 \if@todonotes@disabled%

```
225
               \newcommand{\listoftodos}[1][]{}
       226
               \mbox{\newcommand}(\mbox{\newcommand})[2][]{}
               \newcommand{\missingfigure}[2][]{}
       227
       228 \else % \if@todonotes@disabled
        Define the \listoftodos command and define the appearance of the list of todos.
       229 \newcommand{\listoftodos}[1][\@todonotes@todolistname]
               {\@ifundefined{chapter}{\section*{#1}}{\chapter*{#1}} \@starttoc{tdo}}
       230
       231 \newcommand{\l@todo}
       232
               {\@dottedtocline{1}{0em}{2.3em}}
        Define styles used by the todo command
       233 \tikzstyle{notestyleraw} = [
               draw=\@todonotes@currentbordercolor,
       234
       235
               fill=\@todonotes@currentbackgroundcolor,
       236
               line width=0.5pt,
               text width = \@todonotes@textwidth - 1.6 ex - 1pt,
       237
               inner sep = 0.8 \text{ ex},
       238
               rounded corners=4pt]
       239
        Add shadows and rounded corners to the inserted todonotes.
       240 \if@todonotes@shadowenabled
       241 \tikzstyle{notestyle} = [notestyleraw,
               general shadow={shadow xshift=.5ex, shadow yshift=-.5ex,
       242
                   opacity=1,fill=black!50}]
       243
       244 \else
       245 \tikzstyle{notestyle} = [notestyleraw]
       247 \tikzstyle{notestyleleft} = [
              notestyle,
       248
               left]
       249
       250 \tikzstyle{connectstyle} = [
       251
               thick,
               draw=\@todonotes@currentlinecolor]
       252
       253 \tikzstyle{inlinenotestyle} = [
       254
               notestyle,
               text width=\linewidth - 1.6 ex - 1 pt]
       255
\@todo Define the \@todo command.
       256 \newcommand{\@todo}[2][]{%
        Use the global value for determining the default prepend behavior.
       257 \if@todonotes@prependcaptionglobal%
       258 \@todonotes@prependcaptiontrue%
       259 \else%
       260 \@todonotes@prependcaptionfalse%
       261 \fi%
        Store the original text for later usage and parse the given options.
       262 \renewcommand{\@todonotes@text}{#2}%
       263 \renewcommand{\@todonotes@caption}{#2}%
       264 \setkeys{todonotes}{#1}%
```

If the option disable is given to the command, no output is generated.

```
265 \if@todonotes@localdisable% 266 \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.

```
267 \addtocounter{@todonotes@numberoftodonotes}{1}%
268 \if@todonotes@appendtolistoftodos%
269 \phantomsection%
270 \if@todonotes@captiongiven%
271 \else%
272 \renewcommand{\@todonotes@caption}{#2}%
273 \fi%
274 \@todonotes@addElementToListOfTodos%
275 \fi%
```

Prepend the short caption given if it is requested

```
276 \if@todonotes@captiongiven%
277 \if@todonotes@prependcaption%
278 \renewcommand{\@todonotes@text}{\@todonotes@caption: #2}%
279 \fi%
280 \fi%
```

Place the todonote as indicated by the options (inline or in a marginpar), below is the code for the inline placement.

```
281 \if@todonotes@inlinenote%

282 \@todonotes@drawInlineNote%

283 \else%

284 \@todonotes@drawMarginNoteWithLine%

285 \fi%\if@todonotes@inlinenote

286 \fi%\if@todonotes@localdisable

287 }%
```

${\tt drawMarginNoteWithLine}$

Define helper function drawMarginNoteWithLine.

288 \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.

```
289 \begin{tikzpicture} [remember picture, overlay, baseline=-0.75ex]%
290 \node [coordinate] (inText) {};%
291 \end{tikzpicture}%
292 \marginpar[{% Draw note in left margin
293 \Otodonotes@drawMarginNote%
294 \Otodonotes@drawLineToLeftMargin%
```

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.

```
295 }]{% Draw note in right margin
```

```
\@todonotes@drawMarginNote%
                         296
                         297
                                \@todonotes@drawLineToRightMargin%
                         298 }%
                         299 }%
addElementToListOfTodos
                        Define helper function addElementToListOfTodos.
                         300 \newcommand{\@todonotes@addElementToListOfTodos}{%
                         301
                                \if@todonotes@colorinlistoftodos%
                                    \addcontentsline{tdo}{todo}{%
                         302
                         303
                                         \fcolorbox{\@todonotes@currentbordercolor}%
                                             {\@todonotes@currentbackgroundcolor}%
                         304
                                             {\textcolor{\@todonotes@currentbackgroundcolor}{o}}%
                         305
                                         \ \@todonotes@caption}%
                         306
                         307
                                \else%
                         308
                                    \addcontentsline{tdo}{todo}{\@todonotes@caption}%
                                \fi}%
                         309
         drawInlineNote
                         Define helper function drawInlineNote.
                         310 \newcommand{\@todonotes@drawInlineNote}{%
                         311
                                \if@todonotes@dviStyle%
                         312
                                    {\par\noindent\begin{tikzpicture}[remember picture]%
                         313
                                         \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
                         314
                                         \if@todonotes@authorgiven%
                                             {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
                         315
                         316
                                         \else%
                                             {\noindent \@todonotes@sizecommand \@todonotes@text}%
                         317
                         318
                                    {\par\noindent\begin{tikzpicture} [remember picture] %
                         319
                         320
                                         \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
                                \else%
                         321
                         322
                                    {\par\noindent\begin{tikzpicture} [remember picture] %
                                         \draw node[inlinenotestyle,font=\@todonotes@sizecommand] {%
                         323
                                             \if@todonotes@authorgiven%
                         324
                                                 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
                         325
                         326
                                             \else%
                         327
                                                 {\noindent \@todonotes@sizecommand \@todonotes@text}%
                                             \fi};%
                         328
                         329
                                         \end{tikzpicture}\par}%
                                \fi}%
                         330
         drawMarginNote Define helper function drawMarginNote.
                         331 \newcommand{\@todonotes@drawMarginNote}{%
                         332 \if@todonotes@dviStyle%
                         333
                                \begin{tikzpicture}[remember picture]%
                                     \draw node[notestyle] {};%
                         334
                         335
                                \end{tikzpicture}\\%
                                \begin{minipage}{\@todonotes@textwidth}%
                         336
                                \if@todonotes@authorgiven%
                         337
```

\@todonotes@sizecommand \@todonotes@author \@todonotes@text%

338

```
339
                              \else%
                                \@todonotes@sizecommand \@todonotes@text%
                       340
                              \fi%
                       341
                              \end{minipage}\\%
                       342
                              \begin{tikzpicture}[remember picture]%
                       343
                                   \draw node[notestyle] (inNote) {};%
                       344
                       345
                              \end{tikzpicture}%
                       346 \else%
                              \let\originalHbadness\hbadness%
                       347
                              \hbadness 100000%
                       348
                              \begin{tikzpicture}[remember picture,baseline=(X.base)]%
                       349
                       350
                                  \node(X){\vphantom{X}};%
                                  \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north] (inNote) at (X.north)%
                       351
                                       {\@todonotes@text};%
                       352
                                  \if@todonotes@authorgiven%
                       353
                                       \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north] (inNote) at (X.nort
                       354
                                           {\@todonotes@sizecommand\@todonotes@author};%
                       355
                                       \node(Y)[below=of X]{};%
                       356
                       357
                                       \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north] (inNote) at (X.sout
                       358
                                           {\@todonotes@text};%
                       359
                                  \else%
                                       \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north] (inNote) at (X.nort
                       360
                                           {\@todonotes@text};%
                       361
                                  \fi%
                       362
                       363
                              \end{tikzpicture}%
                       364
                              \hbadness \originalHbadness%
                       365 \fi}%
drawLineToRightMargin Define helper function drawLineToRightMargin.
                       366 \newcommand{\@todonotes@drawLineToRightMargin}{%
                       367 \if@todonotes@line%
                       368 \if@todonotes@fancyline%
                       369 \tikz[remember picture, overlay] {%
                       370 \tikzstyle{both}=[line width=3pt, draw, opacity=0.15]%
                       371 \tikzstyle{line}=[shorten >=5pt, line cap=round]%
                       372 \tikzstyle{head}=[shorten >=-1pt, dash pattern=on Opt off 1pt, ->]%
                       373 \foreach \s in {line,head}{%
                       374 \draw[both,\s]%
                       375 (inNote.north west).. controls +(0:0) and +(90:1.5)..([yshift=1ex] inText);%
                       376 };%
                       377 }%
                       378 \else%
                       379 \begin{tikzpicture}[remember picture, overlay]%
                       380 \draw[connectstyle]%
                       381 ([yshift=-0.2cm] inText)%
                       382 - | ([xshift=-0.2cm] inNote.west)%
                       383 - | (inNote.west);%
                       384 \end{tikzpicture}%
                       385 \fi%
                       386 \fi}%
```

```
drawLineToLeftMargin Define helper function drawLineToLeftMargin.
                      387 \newcommand{\@todonotes@drawLineToLeftMargin}{%
                      388 \if@todonotes@line%
                      389 \if@todonotes@fancyline%
                      390 \tikz[remember picture, overlay] {%
                      391 \tikzstyle{both}=[line width=3pt, draw, opacity=0.15]%
                      392 \tikzstyle{line}=[shorten >=5pt, line cap=round]%
                      393 \tikzstyle{head}=[shorten >=-1pt, dash pattern=on Opt off 1pt,->]%
                      394 foreach s in {line,head}{%}
                      395 \draw[both,\s]%
                      396 (inNote.north east).. controls +(0:0) and +(90:1.5)..([yshift=1ex] inText);%
                      397 };%
                      398 }%
                      399 \else%
                      400 \begin{tikzpicture} [remember picture, overlay]%
                      401 \draw[connectstyle]%
                      402 ([yshift=-0.2cm] inText)%
                      403 - | ([xshift=0.2cm] inNote.east)%
                      404 - | (inNote.east);%
                      405 \end{tikzpicture}%
                      406 \fi%
                      407 \fi}%
      \missingfigure Defines the \missingfigure macro.
                      408 \newcommand{\missingfigure}[2][]{%
                      409 \setkeys{todonotes}{#1}%
                      410 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
                      411 \par
                      412 \noindent
                      413 \begin{tikzpicture}
                      414 \draw[fill=black!40, draw = white, line width=0pt]
                             (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
                      416 \draw (2, -0.3) node[right, text
                             width=\@todonotes@currentfigwidth-4.5cm] {#2};
                      418 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
                             (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
                      420 \draw (0, 0.3) node {\@todonotes@MissingFigureUp};
                      421 \draw (0, -0.3) node {\@todonotes@MissingFigureDown};
                      422 \end{tikzpicture}
                      423 }% Ending \missingfigure command
                      424 \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.
                      425 \newcommand{\todototoc}
                      426 €
                             \if@todonotes@disabled
                      427
                      428
                             \else
```

```
429 \addcontentsline{toc}{\@ifundefined{chapter}{section}{chapter}}{\@todonotes@todolistname}
430 \fi
431 }
\todo Define the \todo command as a redirection to \@todo.
```

 $432 \end{$\down} [2] [] {\@bsphack\@todo[#1] $$ $$ a. $$ a$

A Longer code examples

A.1 Alter appearence of the list of todos

```
\documentclass{book}
 \usepackage{todonotes}
 \usepackage{lipsum}
 \makeatletter
 \def\myaddcontentsline#1#2#3{%
       \renewcommand{\@todonotes@addElementToListOfTodos}{%
             \if@todonotes@colorinlistoftodos%
                          \myaddcontentsline{tdo}{todo}{{%
                                      \colorbox{\@todonotes@currentbackgroundcolor}%
                                                   {\textcolor{\@todonotes@currentbackgroundcolor}{o}}%
                                      \ \@todonotes@caption}}%
             \else%
                          \myaddcontentsline{tdo}{todo}{{\@todonotes@caption}}%
 \newcommand*\mylistoftodos{%
       \begingroup
                       \setbox\@tempboxa\hbox{see 9.9 at p. 99}%
                      \verb|\command*|@tocrmarg{\theta}| wd @tempboxa|| % | Compared the compared t
                       \renewcommand*\@pnumwidth{\the\wd\@tempboxa}%
                       \listoftodos%
       \endgroup
}
 \makeatother
 \begin{document}
 \chapter{My first chapter}
 \section{A first section}
 \lipsum
 \todo{This is a note}
 \section{Another section}
 \lipsum
 \todo{This is another note}
\tableofcontents
 \mylistoftodos
 \end{document}
```

Change History

0.1	0.5
General: The first version of the	General: Created a dtx file contain-
package 1	ing both source code and docu-
0.2	mentation of the package 1
General: Updated the option han-	0.5.1
dling of the package 1	General: Updated the documenta-
0.2.1	tion $\dots \dots \dots$
General: Slightly modified by Kjell	0.5.2
Magne Fauske to support notes	General: Fixed a bug that pre-
in the left margin (for docu-	vented the usage of the option
mentstyle book) 1	french for babel. Bug report by
0.2.2	Thomas Braun 1
General: Added a missingfigure	0.6
command 1	General: Added the caption option
0.2.3	to the todo command 1
General: Made a dependency on the	0.6.1
calc package 1	General: Added a new usecase with
0.3	decreased line spacing 1
General: Delayed the requirements	0.6.2
for the hyperref package un-	General: Added a usecase by Fabrice Niessen
till begin document and added an optional argument to the	0.7
todo command for adding inline	General: Added language options
todo command for adding mine todonotes (Idea from Patrick	on request from Peter Zimmer-
Toche) 1	mann
0.3.1	0.7.1
General: Added some options to	General: Reworked the color op-
the todo macro (Idea: Patrick	tions for both the whole package
Toche) and made the	and the todo command. Gen-
listoftodos point at the inserted	eral code clean up. Added
todos and not only the current	the prependcaption package op-
/ previous section, subsection or	tion
figure using the	0.7.2
phantomsection macro 1	General: Avoid to change the font-
0.4	size inside the list of todos, fix-
General: Modified the behaviour of	ing a bug revealed by Vladimir
the inline todonotes, to avoid	Zhuravlev 1
empty lines around the inline	0.7.3
todonotes 1	General: The localization options
0.4.1	(danish and german) and the
General: Added the option colorin-	disable options, were all flawed
listoftodos which inserts a small	by naming inconsistencies that
box with the used fillcolor of the	made then break the package.
todonotes in the list of todos 1	This have been fixed 1
0.4.2	0.7.4
General: Fixed a bug with the dis-	General: Fixed a bug related to the
able option to the package 1	caption option for the todo com-

mand. Introduced a counter of	todonotes and how to set cus-
the number of inserted todos. 1	tom default values). Changed
0.7.5	the order of the use case exam-
General: Fixed a typo in a macron-	ples 1
ame 1	0.8.6
0.7.6	General: Added a portuguese trans-
General: Added a textsize option	lation by Og DeSouza 1
for the package and the prepend	0.8.7
/ noprepend option for the todo	General: Updated portuguese
command 1	translation. Added a ngerman
0.8	alias for the german translation
General: Added three new transla-	suggested by Michael Nieder-
tions french, spanish and cata-	mair
lan thanks to Richard Do-	0.8.8
minique and Joan Queralt. Im-	General: Added a new usecase from
proved the visual appearence of	Vitaly. Fixed a bug reported by
the inserted notes (rounded cor-	Oscar Gustafsson. Explained
ners and optional shadows) with	why the placement of todonotes
code from Joan Queralt. Found	in the margin fails in certain
an untranslated textstring "Fig-	custom document classes 1
ure" in the source. Added a	0.8.9
figwidth option to the missing-	General: Added a dutch translation
figure command, patch by Paul	by Ruben Ruben Vermeersch 1
Ivanov 1	0.9.0
0.8.1	
General: Added a space between	General: Added a english option as suggested by Marco Berghoff 1
the colored square and the text	0.9.1
in the list of todos. Added a	
new usecase for marking old /	General: Added the todototoc com-
new sections. Made the name	mand by idea from Sven Augustin
of listoftodos changeable 1	gustin
0.8.2	0.9.2
General: Italian translation by Gus-	General: Use chapter (if available)
tavo Cevolani. Removed the de-	for the list of todos heading 1
pendence on the hyperref pack-	0.9.3
age 1	General: Make an internal defini-
0.8.3	tion of the todo command, for
General: Added a use case for link-	easing redefinition of the com-
ing to the list of todos, idea	mand behaviour 1
from Andreas Plank. Intro-	0.9.4
duced a package option for lis-	General: Make the disable option
tening to the draft option given	work on a local scale 1
to the document class 1	0.9.5
0.8.4	General: Code simplification by ex-
General: Fixed a bug related to the	tracting functionality to smaller
obeyDraft option 1	macros 1
0.8.5	0.9.6
General: Added two new use-	General: Give fontsize to TikZ.
cases (enumeration of inserted	Align notes with line where note

is set. Added new option fancyline. Patches by Benjamin Kellermann	Described how to use tikz externalize with todonotes. Added obeyDraft and obeyFinal op-
0.9.7	tions 1
General: Updated documentation. 1	1.0.1
0.9.8 General: Suppress warnings about underfull / overful boxes generated by the inserted todonotes. Patch by Peter M Schuler 1 0.9.9 General: Added author option, implementation provided by	General: Fix spacing issues reported by Jonathan Zachhuber and Brent Longborough. Added figheight option to the missingfigure command as suggested by Kim Albertsson 1 1.0.2
Xavier Alameda-Pineda. Example of modifying the listoftodos removing some protect commands with no effect 1	General: Added Swedish translation by Emil Lundberg. Added usecase by Tobias Winchen. Mentioned that default argu-
1.0.0	ments can be set using the pre-
General: Mention trouble with the classicthesis style. Refer to some alternatives to the package. Added todoin command as suggested by Stefan Pinnow.	setkeys command. Updated list of alternatives to the todonotes package. Draw borders around coloured boxes in the list of todos, patch by Ze Loff 1