

# listbls — Creates a list of all labels used throughout a document\*

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Released 2014/07/27

## Abstract

This is a package meant to help a L<sup>A</sup>T<sub>E</sub>X-writer to keep track all the defined labels by typesetting a complete list of labels wherever the author requests it. Keep in mind, that you might need to have additional L<sup>A</sup>T<sub>E</sub>X runs to get the references right.

This package is based on an answer DAVID CARLISLE gave on [T<sub>E</sub>X-Stackexchange](#) in the thread [List of all labels with hyperlinks](#).

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## 1 Installation

The following explanations are only valid for Linux-like systems with `gnu-make` available.

### 1.1 From Github

1. Check out the sourcecode from [GitHub](#):  
`git clone git@github.com:NobbZ/listbls.git`
2. Switch to the source-folder:  
`cd listbls`
3. Checkout the branch/tag you desire: `master` for latest release, `develop` for latest builds (might be broken) or the version number desired.  
`git checkout <branch/tag>`
4. Compile the document using `make`:  
`make all`
5. You can do either a user-installation or a system-wide installation:  
  
`user: make inst`  
`system: make install` (will ask for root!)

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\*This file describes version v1.02, last revised 2014/07/27.

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## 1.2 From CTAN

1. Browse to <http://ctan.org/pkg/listlbls>.
2. Download the package as zip archive (“Download” at the bottom of the page).  
`wget http://mirrors.ctan.org/macros/latex/contrib/listlbls.zip`
3. Unzip wherever you want.  
`unzip listlbls.zip`
4. `cd` into the directory you unzipped to.  
`cd listlbls`
5. You can do either a user-installation or a system-wide installation:  
  
`user: make inst`  
`system: make install` (will ask for root!)

## 2 Usage

### 2.1 Initialization

Just activate the package as usual: `\usepackage[options]{listlbls}`

**draft** If **draft** is given as option, `\listoflabels` will typeset the list of labels.

**final** If **final** is given as option, `\listoflabels` will do nothing. Please remember, that **final** is set globally by most documentclasses.

**totoc** If this is given the List of Labels will appear in a table of contents (unnumbered).

**notoc** If this is given the List of Labels will *not* appear in a table of contents, but it will still have a headline.

**numtoc** Typesets a numbered headline, this option also implies **totoc**!  
This document was typeset with `\usepackage[draft,totoc]{listlbls}`.  
A locally set option will win against a globally set contrary option!

### 2.2 Macros

Then anywhere in your document, you can use the `\listoflabels`-macro to typeset a list of labels. An example can be seen on page ??.

`\label` Use `\label` as you are used to it!

`\listoflabels` This macro will typeset the list of labels when this module is in draft mode. It will itself register the label “`special:listoflabels`”.

## 3 Implementation

```
1 <*package>
2 \newif\if@draft\@draftfalse
3 \newif\if@totoc\@totocfalse
4 \newif\if@numtoc\@numtocfalse
```

### 3.1 Options

**draft** Check for **draft**-option:  
`5 \DeclareOption{draft}{\@drafttrue}`

**final** Check for **final**-option:  
`6 \DeclareOption{final}{\@draftfalse}`

**totoc** Check for **totoc**-option:  
`7 \DeclareOption{totoc}{\@totoctrue}`

**notoc** Check for **notoc**-option:  
`8 \DeclareOption{notoc}{\@totocfalse}`

numtoc Check for numtoc-option:  
9 \DeclareOption{numtoc}{\@numtoctrue}

Process the options:  
10 \ProcessOptions\*\relax

## 3.2 Loading auxilliary packages

Load the package translations to provide internationalised caption for the \listoflabels.  
11 \RequirePackage{translations}

## 3.3 Set up internationalisation

Define fallback translations:

```
12 \DeclareTranslationFallback{llbls-listoflabels}{List of Labels}
13 \DeclareTranslationFallback{llbls-onpage}{on page}
```

Define other translations:

```
14 \DeclareTranslation{English}{llbls-listoflabels}{List of Labels}
15 \DeclareTranslation{English}{llbls-onpage}{on page}
16 \DeclareTranslation{German}{llbls-listoflabels}{Sprungmarkenverzeichnis}
17 \DeclareTranslation{German}{llbls-onpage}{auf Seite}
18 \DeclareTranslation{French}{llbls-listoflabels}{Liste des \textit{\'etiquettes}}
19 \DeclareTranslation{French}{llbls-onpage}{\textit{\'a la page}}
```

## 3.4 Internal stuff

Determine if we have \chapters or not and create a command that maps to \chapter or \section as needed.

```
20 \ifdefined\chapter*
21   \if@numtoc
22     \def\llbls@headline{\chapter{List of Labels}\label{special:listoflabels}}
23   \else
24     \def\llbls@toccommand{\chapter*}
25     \def\llbls@tocgroup{chapter}
26   \fi
27 \else
28   \if@numtoc
29     \def\llbls@headline{\section{List of Labels}\label{special:listoflabels}}
30   \else
31     \def\llbls@toccommand{\section*}
32     \def\llbls@tocgroup{section}
33   \fi
34 \fi
35 \ifdefined\llbls@headline\else
36   \def\llbls@headline{\llbls@toccommand{\GetTranslation{llbls-listoflabels}}\label{special:lis
37   \if@totoc\addcontentsline{toc}{\llbls@tocgroup}{\GetTranslation{llbls-listoflabels}}\relax
38 \fi
```

\@findlabel No explanation yet.

```
39 \long\def\@findlabel#1#2\@findlabel{%
40   \ifx\newlabel#1\lablist\expandafter{\the\lablist\@showlabel#2}\fi}
```

\@showlabel Displays a single entry in the \listoflabels

```
41 \def\@showlabel#1#2{%
42   \par\noindent Label: \texttt{\detokenize{#1}}\dotfill\ref{#1}~\GetTranslation{llbls-onpage}~
43   \newtoks\lablist
44   \newread\zz
45   \immediate\openin\zz=\jobname.aux
46   \loop
47   \ifeof\zz\else
```

```

48 \read\zz to \tmp
49 \expandafter\@findlabel\tmp\relax\@findlabel
50 \repeat

```

### 3.5 External stuff

```

51 \if@draft

\listoflabels Print a list of all available lables that are defined throughout the document.

52 \newcommand\listoflabels{%
53   \llbls@headline%
54   \the\lablist}

55 \else
56 \let\listoflabels=\relax
57 \fi
58 \endinput
59 \</package>

```

## 4 Change History

v1.00	English, German and French. . . . .	1
General: First public release . . . . .	Local option wins against global option . . . . .	1
v1.01		
General: Changed maintainer email . . .	final: Introduced @ifdraft . . . . .	2
Changed some internal stuff to make it releaseable on CTAN . . . . .	notoc: Added option . . . . .	2
final: Added option . . . . .	totoc: Added option . . . . .	2
draft: Added option . . . . .	draft: Introduced @ifdraft . . . . .	2
v1.02		
General: Added language-support for	numtoc: Added option . . . . .	2

## 5 Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in **roman** refer to the code lines where the entry is used.

<b>Symbols</b>	<b>I</b>	notoc (option) . . . . .	8
\@draftfalse . . . . .	\if@draft . . . . .	numtoc (option) . . . . .	2
\@drafttrue . . . . .	\if@numtoc . . . . .	numtoc (option) . . . . .	9
\@findlabel . . . . .	\if@totoc . . . . .		
\@numtocfalse . . . . .			
\@numtoctrue . . . . .	<b>L</b>	<b>O</b>	
\@showlabel . . . . .	\label . . . . .	option:	
\@totocfalse . . . . .	\lablist . . . . .	draft . . . . .	5
\@totoctrue . . . . .	\listoflabels . . . . .	final . . . . .	6
	\llbls@headline . . . . .	notoc . . . . .	8
<b>D</b>	. . . . .	numtoc . . . . .	9
draft (option) . . . . .	\llbls@toccommand . . . . .	totoc . . . . .	7
draft (option) . . . . .	. . . . .		
	\llbls@tocgroup . . . . .		
<b>F</b>		<b>T</b>	
final (option) . . . . .	<b>N</b>	totoc (option) . . . . .	2
final (option) . . . . .	notoc (option) . . . . .	totoc (option) . . . . .	7

## List of Labels

Label: sec:install . . . . . 1 on page 1  
Label: sec:usage . . . . . 2 on page 2

Label: <code>ssec:use-init</code> .....	2.1 on page 2
Label: <code>sec:implementation</code> .....	3 on page 2
Label: <code>ssec:impl-options</code> .....	3.1 on page 2
Label: <code>ssec:impl-aux</code> .....	3.2 on page 3
Label: <code>ssec:impl-i18n</code> .....	3.3 on page 3
Label: <code>ssec:impl-internal</code> .....	3.4 on page 3
Label: <code>ssec:impl-extern</code> .....	3.5 on page 4
Label: <code>special:listoflabels</code> .....	3.5 on page 4