

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

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Abstract

This is a package meant to help a \TeX -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 \TeX runs to get the references right.

This package is based on an answer DAVID CARLISLE gave on [\$\text{\TeX}\$ -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 \TeX live

This package is bundled in \TeX live, so you can simply `(sudo) tlmgr install listbls` (which should work for windows as well)

1.2 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>`

[†]This file describes version v1.03, last revised 2014/08/04.

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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!)

1.3 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`!

`nonameref` Even if the package `nameref` is detected, it will not be used.

This document was typeset with `\usepackage[draft,totoc]{listlbls}` also the package `nameref` was loaded.

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 6.

`\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 Contribution and bugreports

If you have feature-requests or bug-reports, please feel free to report them on the [project page at GitHub](#).

If you want to contribute then follow these steps:

1. Visit the [project page at GitHub](#),
2. fork it,

3. clone it to your local machine,
4. create a branch “feature/*<feature name>*”,
5. do your changes,
6. push them back to GitHub,
7. create a pull request to `develop`,
8. and wait for approval.

After approval your code will be merged to the `development`-branch and I will generally not accept pull-requests that edit `develop` directly.

4 Implementation

```

1 (*package)
2 \newif\ifl1bls@draft\l1bls@draftfalse
3 \newif\ifl1bls@totoc\l1bls@totocfalse
4 \newif\ifl1bls@numtoc\l1bls@numtocfalse
5 \newif\ifl1bls@nameref\l1bls@namereftrue

```

4.1 Options

```

draft Check for draft-option:
6 \DeclareOption{draft}{\l1bls@drafttrue}

final Check for final-option:
7 \DeclareOption{final}{\l1bls@draftfalse}

totoc Check for totoc-option:
8 \DeclareOption{totoc}{\l1bls@totoctrue}

notoc Check for notoc-option:
9 \DeclareOption{notoc}{\l1bls@totocfalse}

numtoc Check for numtoc-option:
10 \DeclareOption{numtoc}{\l1bls@numtoctrue}

nonameref Check for nonameref-option:
11 \DeclareOption{nonameref}{\l1bls@namereffalse}

Process the options:
12 \ProcessOptions*\relax

```

4.2 Loading auxilliary packages

Load the package `translations` to provide internationalised caption for the `\listoflabels`.

```

13 \RequirePackage{translations}

```

4.3 Set up internationalisation

Define fallback translations:

```

14 \DeclareTranslationFallback%
15 {l1bls-listoflabels}%
16 {List of Labels}
17 \DeclareTranslationFallback%
18 {l1bls-onpage}%
19 {on page}

```

4.3.1 English

```
20 \DeclareTranslation{English}%
21   {llbls-listoflabels}%
22   {List of Labels}
23 \DeclareTranslation{English}%
24   {llbls-onpage}%
25   {on page}
```

4.3.2 German

```
26 \DeclareTranslation{German}%
27   {llbls-listoflabels}%
28   {Sprungmarkenverzeichnis}
29 \DeclareTranslation{German}%
30   {llbls-onpage}%
31   {auf Seite}
```

4.3.3 French

```
32 \DeclareTranslation{French}%
33   {llbls-listoflabels}%
34   {Liste des \ 'etiquettes}
35 \DeclareTranslation{French}%
36   {llbls-onpage}%
37   {\`a la page}
```

4.4 Internal stuff

`\llbls@headline` Determine if we have `\chapter` or not and create a command that maps to `\chapter` or `\section` as needed.

```
\llbls@toccommand
\llbls@tocgroup
38 \ifdefined\chapter*
39   \ifllbls@numtoc
40     \def\llbls@headline{%
41       \chapter{List of Labels}\label{special:listoflabels}}
42   \else
43     \def\llbls@toccommand{\chapter*}
44     \def\llbls@tocgroup{chapter}
45   \fi
46 \else
47   \ifllbls@numtoc
48     \def\llbls@headline{%
49       \section{List of Labels}\label{special:listoflabels}}
50   \else
51     \def\llbls@toccommand{\section*}
52     \def\llbls@tocgroup{section}
53   \fi
54 \fi
55 \ifdefined\llbls@headline\else
56   \def\llbls@headline{%
57     \llbls@toccommand{\GetTranslation{llbls-listoflabels}}%
58     \label{special:listoflabels}%
59     \ifllbls@totoc%
60       \addcontentsline{toc}%
61         {\llbls@tocgroup}%
62         {\GetTranslation{llbls-listoflabels}}%
63     \relax%
64   \fi%
65 }
66 \fi
```

`\llbls@refs` Whether or not we use `\nameref` in the output.

```
67 \ifdefined\nameref
68   \ifllbls@nameref
69     \newcommand\llbls@refs[1]{\nameref{#1}, \ref{#1}}
70   \else
```

```

71 \newcommand\llbls@refs[1]{\ref{#1}}
72 \fi
73 \else
74 \newcommand\llbls@refs[1]{\ref{#1}}%
75 \fi

```

`\llbls@findlabel` No explanation yet.

```

76 \long\def\llbls@findlabel#1#2\llbls@findlabel{%
77 \ifx\newlabel#1%
78 \llbls@lablist\expandafter{\the\llbls@lablist\llbls@showlabel#2}
79 \fi}

```

`\llbls@showlabel` Displays a single entry in the `\listoflabels`

```

80 \def\llbls@showlabel#1#2{%
81 \par\noindent Label: %
82 \texttt{\detokenize{#1}}\dotfill%
83 \llbls@refs{#1}~\GetTranslation{llbls-onpage}~\pageref{#1}%
84 }

85 \newtoks\llbls@lablist
86 \newread\llbls@zz
87 \immediate\openin\llbls@zz=\jobname.aux
88 \loop
89 \ifeof\llbls@zz\else
90 \read\llbls@zz to \llbls@tmp
91 \expandafter\llbls@findlabel\llbls@tmp\relax\llbls@findlabel
92 \repeat

```

4.5 External stuff

```
93 \ifllbls@draft
```

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

```

94 \newcommand\listoflabels{%
95 \llbls@headline%
96 \the\llbls@lablist}

97 \else
98 \let\listoflabels=\relax
99 \fi
100 \endinput
101 \</package>

```

5 Change History

v1.00		final: Introduced @ifdraft	3
	General: First public release		1
v1.01		notoc: Added option	3
	General: Changed maintainer email		1
	Changed some internal stuff to make it		
	releaseable on CTAN		1
	final: Added option		3
	draft: Added option		3
		v1.03	
		General: Proceeding with namespacing in-	
		ternal macros	1
v1.02		<code>\llbls@showlabel</code> : Add support for	
	General: Added languag-support for En-	nameref-package	5
	glish, German and French.		1
	Local option wins agains global option . .	nonameref: Added option	3
			1

6 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.

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List of Labels

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