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

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Abstract  

This is a package meant to help a \LaTeX-writer to keep track all the defined labels by typesetting a complete list of labels whereever the author requests it. Keep in mind, that you might need to have additional \LaTeX runs to get the references right.  

This package is based on an answer DAVID CARLISLE gave on \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.

*This file describes version v1.04, last revised 2023/05/24.
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1.1 \TeX{}live

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

1.2 From Github

1. Check out the sourcecode from GitHub:\footnote{https://github.com/NobbZ/nixos-config.git}
\begin{verbatim}
  git clone https://github.com/NobbZ/nixos-config.git or
  git clone git@github.com:NobbZ/listlbls.git or
  gh repo clone NobbZ/listlbls
\end{verbatim}
2. Switch to the source-folder:
\begin{verbatim}
  cd listlbls
\end{verbatim}
3. Checkout the branch/tag you desire: \texttt{master} for latest release, \texttt{develop} for latest builds (might be broken) or the version number desired.
\begin{verbatim}
  git checkout <branch/tag>
\end{verbatim}
4. Compile the document using \texttt{make}:
\begin{verbatim}
  make all
\end{verbatim}
5. You can do either a user-installation or a system-wide installation:
\begin{verbatim}
user: make inst
system: make install (will ask for root!)
\end{verbatim}

1.3 From CTAN

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

2 Usage

2.1 Initialization

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

\begin{description}
\item[draft (Opt)] If \texttt{draft} is given as option, \texttt{\listoflabels} will typeset the list of labels.
\item[final (Opt)] If \texttt{final} is given as option, \texttt{\listoflabels} will do nothing. Please remember, that \texttt{final} is set globally by most documentclasses.
\end{description}
\texttt{totoc} (\textit{Opt}) If this is given the List of Labels will appear in a table of contents (unnumbered).

\texttt{notoc} (\textit{Opt}) If this is given the List of Labels will not appear in a table of contents, but it will still have a headline.

\texttt{numtoc} (\textit{Opt}) Typesets a numbered headline, this option also implies \texttt{totoc}!

\texttt{nonameref} (\textit{Opt}) Even if the package \texttt{nameref} if detected, it will not be used.

This document was typeset with \texttt{\usepackage{draft,\text{totoc}}\{listlbls\}} also the package \texttt{nameref} was loaded.

A locally set option will win against a globally set contrary option!

\section*{2.2 Macros}

Then anywhere in your document, you can use the \texttt{\text{listoflabels}}-macro to typeset a list of labels. An example can be seen on page 8.

\texttt{\textbackslash label} \{\textit{name}\} Use \texttt{\textbackslash label} as you are used to it!

\texttt{\textbackslash listoflabels} \{\textit{label}\} This macro will typeset the list of labels when this module is in draft mode. It will itself register the label from the optional arg, defaulting to “\texttt{special:}\texttt{listoflabels}”.

\section*{3 Contribution and bugreports}

If you have feature-requests or bug-reports, please feel free to report them on the \texttt{project page at GitHub}\textsuperscript{2}.

If you want to contribute then follow these steps:

1. Visit the \texttt{\text{project page at GitHub}}\textsuperscript{3},
2. forkt it,
3. clone it to your local machine,
4. create a branch “\texttt{feature/}\texttt{\{feature name\}}”,
5. do your changes,
6. push them back to GitHub,
7. create a pull request to \texttt{\text{develop}},
8. and wait for approval.

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

\textsuperscript{1}https://github.com/
\textsuperscript{2}https://github.com/NobbZ/listlbls
\textsuperscript{3}https://github.com/NobbZ/listlbls
4 Known issues and limitations

4.1 \include

Documents containing \include will not work. Currently there is no logic to recurse through the different .aux-files.

Please see nobbz/listlbls#4 \footnote{https://github.com/nobbz/listlbls/issues/4} for more information.

5 Implementation

\begin{verbatim}
(*package)
\newif\ifllbls@draft \llbls@draftfalse
\newif\ifllbls@totoc \llbls@totocfalse
\newif\ifllbls@numtoc \llbls@numtocfalse
\newif\ifllbls@nameref \llbls@namereffalse

5.1 Options

draft (Opt) Check for draft-option:
\texttt{6 \DeclareOption{draft}{\llbls@draftrue}}

final (Opt) Check for final-option:
\texttt{7 \DeclareOption{final}{\llbls@draffalse}}

totoc (Opt) Check for totoc-option:
\texttt{8 \DeclareOption{totoc}{\llbls@totocttrue}}

notoc (Opt) Check for notoc-option:
\texttt{9 \DeclareOption{notoc}{\llbls@totoctfalse}}

numtoc (Opt) Check for numtoc-option:
\texttt{10 \DeclareOption{numtoc}{\llbls@numtocttrue}}

nonameref (Opt) Check for nonameref-option:
\texttt{11 \DeclareOption{nonameref}{\llbls@namereffalse}}

Process the options:
\texttt{12 \ProcessOptions*\relax}
\end{verbatim}

5.2 Loading auxiliary packages

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

\texttt{13 \RequirePackage{translations}}
5.3 Set up internationalisation

Define fallback translations:

\[\text{\texttt{\textbackslash DeclareTranslationFallback\%}}\]
\[\text{\texttt{\{llbls-listoflabels\}\%}}\]
\[\text{\texttt{\{List of Labels\}\%}}\]
\[\text{\texttt{\textbackslash DeclareTranslationFallback\%}}\]
\[\text{\texttt{\{llbls-onpage\}\%}}\]
\[\text{\{on page\}\%}}\]

5.3.1 English

\[\text{\texttt{\textbackslash DeclareTranslation\{English\}\%}}\]
\[\text{\texttt{\{llbls-listoflabels\}\%}}\]
\[\text{\texttt{\{List of Labels\}\%}}\]
\[\text{\texttt{\textbackslash DeclareTranslation\{English\}\%}}\]
\[\text{\texttt{\{llbls-onpage\}\%}}\]
\[\text{\{on page\}\%}}\]

5.3.2 German

\[\text{\texttt{\textbackslash DeclareTranslation\{German\}\%}}\]
\[\text{\texttt{\{llbls-listoflabels\}\%}}\]
\[\text{\texttt{\{Sprungmarkenverzeichnis\}\%}}\]
\[\text{\texttt{\textbackslash DeclareTranslation\{German\}\%}}\]
\[\text{\texttt{\{llbls-onpage\}\%}}\]
\[\text{\{auf Seite\}\%}}\]

5.3.3 French

\[\text{\texttt{\textbackslash DeclareTranslation\{French\}\%}}\]
\[\text{\texttt{\{llbls-listoflabels\}\%}}\]
\[\text{\texttt{\{Liste des \'etiquettes\}\%}}\]
\[\text{\texttt{\textbackslash DeclareTranslation\{French\}\%}}\]
\[\text{\texttt{\{llbls-onpage\}\%}}\]
\[\text{\{\`a la page\}\%}}\]

5.3.4 Portuguese

\[\text{\texttt{\textbackslash DeclareTranslation\{Portuguese\}\%}}\]
\[\text{\texttt{\{llbls-listoflabels\}\%}}\]
\[\text{\texttt{\{Lista de R\'{o}tulos\}\%}}\]
\[\text{\texttt{\textbackslash DeclareTranslation\{Portuguese\}\%}}\]
\[\text{\texttt{\{llbls-onpage\}\%}}\]
\[\text{\{na p\'{a}gina\}\%}}\]

5.4 Internal stuff

\texttt{\textbackslash llbls@headline} Determine if we have \texttt{\textbackslash chapter}s or not and create a command that maps to \texttt{\textbackslash chapter} or \texttt{\textbackslash section} as needed.

\texttt{\textbackslash llbls@tocgroup}

\texttt{\textbackslash ifdefined\textbackslash chapter}
\texttt{\textbackslash ifllbls@numtoc}
\texttt{\textbackslash def\textbackslash llbls@headline\%}

We are using \texttt{\textbackslash llbls@labelname} here and in the other possible definitions of \texttt{\textbackslash llbls@headline} to be able to set the label name in the \texttt{\listoflabels} macro.
\chapter{List of Labels}
\label{\llbls@labelname}

\def\llbls@toccommand{\chapter*}
\def\llbls@tocgroup{chapter}
\fi
\else
\ifllbls@numtoc
\def\llbls@headline{\section{List of Labels}\label{\llbls@labelname}}
\else
\def\llbls@toccommand{\section*}
\def\llbls@tocgroup{section}
\fi
\fi
\ifdefined\llbls@headline\else
\def\llbls@headline{\llbls@toccommand{\GetTranslation{llbls-listoflabels}}\
\label{\llbls@labelname}}
\ifllbls@totoc
\addcontentsline{toc}{\llbls@tocgroup}{\GetTranslation{llbls-listoflabels}}
\relax
\fi
\fi
\llbls@refs

Whether or not we use \nameref in the output.

\ifdefined\nameref\ifllbls@nameref
\newcommand\llbls@refs[1]{\nameref{#1}, \ref{#1}}
\else
\newcommand\llbls@refs[1]{\ref{#1}}
\fi\fi

\llbls@findlabel

No explanation yet.

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

\llbls@showlabel

Displays a single entry in the \listoflabels

\def\llbls@showlabel#1\llbls@showlabel{%}
\par\noindent Label: \texttt{\detokenize{#1}}\dotfill
\llbls@refs {#1}~\GetTranslation{llbls-onpage}~\pageref{#1}
5.5 External stuff

\listoflabels Print a list of all available labels that are defined throughout the document.
\llbls@labelname

\newcommand{\listoflabels}[1][special:listoflabels]{%
  \def\llbls@labelname{#1}%
  \llbls@headline %
  \the\llbls@lablist }

\else
\let\listoflabels =\relax
\fi
\endinput

6 Change History

v1.00 – 2014/07/25
  General: First public release ............ 1
v1.01 – 2014/07/25
  General: Changed maintainer email .... 1
  Changed some internal stuff to make it releasable on CTAN ............ 1
  \draft: Added option .................. 3
  \final: Added option .................. 3
v1.02 – 2014/07/27
  General: Added languag-support for English, German and French ...... 1
  Local option wins agains global option 1
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  \notoc: Added option ................. 4
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v1.02 – 2014/08/04
  \llbls@showlabel: Add support for nameref-package .................... 6
v1.03 – 2014/08/04
  General: Proceeding with namespacesing internal macros ............ 1
  \nonameref: Added option ............. 4
v1.04 – 2023/05/24
  General: Add issues and limitations section ......................... 3
  Add Portuguese translation ................ 5
  Fix build problems due to bitrotten dependencies .................. 1
  Switch back to lmodern for documentation ....................... 1
  \listoflabels: add optional argument to change the name of the label used. 6

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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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