

CROSSREFTOOLS

**Expandable extraction of cleveref or cross
reference data and label utilities**

Documentation

Version 0.4

2017/12/26

Autor: Christian Hupfer[†]








[†]typography.with.latex@gmail.com

Contents

Contents	2
List of labels	4
I Introduction	5
1 Requirements, loading and incompatibilities	6
1.1 Required packages and T _E X engine	6
1.2 Loading of the package	6
1.3 Incompatibilities	7
II Macro descriptions	8
2 Indicating undefined references	8
3 Extracting information from regular labels	8
4 Extracting information from cleveref	10
5 Additional macros and utilities	11
5.1 Expandable Commands	11
5.2 Nonexpandable Commands	13
6 Placing more generic labels	13
7 Displaying label information	14
7.1 Useful macros for the list of labels	14
7.2 Useful macros for the label command	15
III Examples	16
8 Driver example	16
IV Meta information	20
9 Version history	20
Index	21

Typographical conventions

Throughout this documentation following symbols and conventions are used:

-  **foo** means a the class `foo`
-  **foo** names a package `foo`
-  **foo** indicates a counter named `foo`
-  `foo` will indicate either a file named `foo` or a file extension `foo`
-  `foo` will indicate some files
-  **foo** names a special feature or tag `foo`
-  **foo** deals with a command or package option named `foo`

List of labels

1.2 subsection::loadingofpackage	6
1.3 subsection:incompatibilities	7
com:crtrefundefinedtext	8
3 section:extractingregularlabels	8
com:crtextractref	9
com:crtcrefpage	9
com:crtrefnumber	9
com:crtrefname	9
com:crtrefanchor	9
com:crtrefunused	9
com:crtrefcounter	10
com:crtextractcref	10
com:crtcrefcounter	11
com:crtcrefnumber	11
com:crtcrefresult	11
com:crtcrefreference	11
com:crtcrefpage	11
com:crtcrefname	11
com:crtCrefname	12
com:crtcrefpluralname	12
com:crtCrefpluralname	12
com:crtcrefnamebylabel	12





com:crtCrefnamebylabel	12
com:crtcref	12
com:crtCref	12
com:crthyperlink	13
com:crthypercref	13
com:crthyperCref	13
6 section::placing-generic-labels	13
com:crtprovidelabel	13
com:crtprovidelabelname	13
com:crtprovidelabelinfo	13
com:crtcrossreflabel	14
com:crtcrossreflabel*	14
7 section::listoflabels	14
com:crtlistoflabels	14
com:crtlistoflabels*	15
com:crtlistoflabelsfileextension	15
com:crt@listoflabelsfileextension	15
com:listoflabelsname	15
com:crtlistoflabelsstructurelevel	15
com:crt@listoflabelsstructurelevel	15
com:crtprelabelhook	15
com:crtpostlabelhook	15


Part I



Introduction

1	Requirements, loading and incompatibilities	6
1.1	Required packages and T _E X engine	6
1.2	Loading of the package	6
1.3	Incompatibilities	7

Preface

This package provides expandable extraction of information stored in labels generated with  **cleveref** and regular labels written by the usual `\label` macro, regardless whether  **hyperref** is loaded or not. For those regular cross-reference information  **crossreftools** works in a  **refcount** - like manner.

Whereas  **cleveref** provides `\labelcref` and other commands or `\ref` from standard L^AT_EX2_ε kernel none of those are expandable and can not be used in an `\edef` - approach.




 Most times class and package authors will benefit of this package, but there might be usual documents that need the features of  **crossreftools**

All macros from this package use the prefix `\crt...`, eg `\crtrefname`^{→P.9}.

1 Requirements, loading and incompatibilities

1.1 Required packages and T_EX engine

The package does not require features from XeL^AT_EX or LuaL^AT_EX but can be run with those features as well as with L^AT_EX or pdfL^AT_EX. The compilation documentation requires however pdfL^AT_EX as of version 0.4.

No packages are loaded by  **crossreftools**, this package does neither load  **hyperref** nor  **cleveref** itself.



1.2 Loading of the package

Loading is done with


```
\usepackage[options]{crossreftools}
```

As of version 0.4  **crossreftools** does have following option(s):



- **draft**

By default, unless specified as package or class option,  **crossreftools** works in draft mode, i.e.  **List of Labels** is enabled, see section Displaying label information for more on this.




- **final**

This disables the feature  **List of Labels**, see section Displaying label information for more information about this feature – it is considered to be unnecessary having a List of Labels in a final version of document.

By default, the package works in draft - mode, unless the class option `final` is specified already. In this case, the package option `final` can be omitted.

There is no loading order required. The macros related to  **cleveref** expand to `[UNDEFINED]` if  **cleveref** is not loaded.





In order to ensure that the changes to the cross referencing system introduced by  **hyperref** and  **cleveref** it is recommended to load  **crossreftools** after both packages.

1.3 Incompatibilities


- Plain T_EX:


As of 0.4 this package cannot be used with plain T_EX, since there is no real built-in support for cross-referencing in plain T_EX.

- Issue with `\tcb@cs` from the  **tcolorbox** and its `documentation` library regarding the `\crtlistoflabels` usage.

As of 0.4 this package cannot cope with labels produced from  **tcolorbox** for documented code – this inserts an unexpandable call of `\tcb@cs` in the label content which leaves unpleasant content in the List Of Labels (see Displaying label information). As long as no other solution is available, `\tcb@cs` is redefined to gobble its argument only and doing nothing inside the `\crtlistoflabels`^{→P.14} macro.



This is the cause for the special `\refCom` macro provided by the documentation library from  **tcolorbox**.

- Similarly any unexpandable content written to the  aux - file by redefinitions of `\label` or `\@currentlabel` etc. will cause problems.

Part II

Macro descriptions

2	Indicating undefined references	8
3	Extracting information from regular labels	8
4	Extracting information from cleveref	10
5	Additional macros and utilities	11
5.1	Expandable Commands	11
5.2	Nonexpandable Commands	13
6	Placing more generic labels	13
7	Displaying label information	14
7.1	Useful macros for the list of labels	14
7.2	Useful macros for the label command	15

2 Indicating undefined references

✉ **crossreftools** uses the content of the internal macro `\crt@refundefined` which defaults to [UNDEFINED]. Use `\crtrefundefinedtext` to change the output of `\crt@refundefined`.

`\crtrefundefinedtext{⟨undefined reference indication text⟩}`

This command sets the output of `\crt@refundefined` in the same manner like the standard macro `\title` would do for `\@title`.

! `\crtrefundefinedtext` is a preamble-only macro.

v0.4
2017-12-
06

3 Extracting information from regular labels

Depending on loading of ✉ **hyperref** there is some more information (properties) stored with a `\label` command. Common properties are reference and page, additions of ✉ **hyperref** are

3. EXTRACTING INFORMATION FROM REGULAR LABELS

name, anchor and the (yet) unused 5th argument of `\newlabel`, the property is called unused as of version 0.4.

All properties are extracted with `\crtextractref`^{→P.9}.

Expandable

`\crtextractref{⟨property⟩}{⟨label name⟩}`

This command will extract one of the properties reference, page, anchor, name and unused from the label given as the 2nd mandatory argument.

v0.3
2017-10-
29

For convenience, there are shortcuts to extract a specific property:

Expandable

`\crtcrefpage{⟨label name⟩}`

This extracts the page number that would be printed by `\pageref`.



v0.3
2017-10-
29

Expandable

`\crtrefnumber{⟨label name⟩}`

This extracts the reference value (or something that is stored by `\@currentlabel` belonging to a certain label name.

v0.3
2017-10-
29

With  **hyperref** being loaded, following commands return non-empty label information, without  **hyperref** they are available, but expand to nothing.

Expandable

`\crtrefname{⟨label name⟩}`

This extracts the name of the sectioning unit or counter as being specified with `\nameref`.

v0.3
2017-10-
29

Expandable



`\crtrefanchor{⟨label name⟩}`

This extracts the hyper target anchor of the reference in order to be used with `\hyperlink`.

v0.3
2017-10-
29

Expandable

`\crtrefunused{⟨label name⟩}`

This extracts the yet unused 5th argument of labels generated after  **hyperref** is loaded. As of version v6.85a of  **hyperref**, this argument has no meaning yet. If this is going to be change in future, `\crtrefunused` will probably be removed and replaced by another macro that reflects the meaning of this 5th argument.


v0.3
2017-10-
29

`\crtrefcounter{<label name>}`



This macro tries to extract the counter name related to the label assuming that the standard anchor type is used: X.Y where X stands for the counter name and Y is some alphanumerical value constructed from \theHX, e.g. \theHchapter. If this pattern fails, \crtrefcounter^{→ P.10} will not compile.

v0.4
2017-12-
06

4 Extracting information from cleveref

The  **cleveref** package redefines the \label macro and stores another label with the same basic name and a suffix @cref, so

```
\label{foo}
```

would generate both the labels foo and foo@cref. The  **cleveref** - version of a label saves basically five properties to the  .aux - file.

- counter

This property holds the name of the counter that was used in \refstepcounter.


- number

This property holds the value of label, this is usually the value of a counter



Please note that this property does not mean the reference value that is displayed with \cref or \Cref.

- result
- reference This property holds the reference that is to be typeset, i.e. the content displayed with \cref or \Cref, however, without hyperlinks.
- page This property stores the page number of the \label usage.

 **crossreftools** extracts those properties with \crtextractcref.

`\crtextractcref{<property>}{<label name>}`

This command will extract one of the properties counter, number, result, reference and page from the label given as the 2nd mandatory argument.

v0.1
2017-10-
08

5. ADDITIONAL MACROS AND UTILITIES

For convenience, there are shortcuts to extract a specific property:

Expandable

`\crtcrefcounter{<label name>}`

This extracts the counter belonging to a certain label name.

v0.1
2017-10-
08

Expandable

`\crtcrefnumber{<label name>}`

This extracts the counter value (or something that is stored by `\cref@currentlabel` belonging to a certain label name.

v0.1
2017-10-
08

Expandable

`\crtcrefresult{<label name>}`

This extracts the result of the splitting of a counter belonging to a certain label name.

v0.1
2017-10-
08

Expandable

`\crtcrefreference{<label name>}`

This extracts the reference that would be printed by `\cref` or `\Cref`, without hyperlinks.

v0.1
2017-10-
08

Expandable

`\crtcrefpage{<label name>}`

This extracts the page number that would be printed by `\pageref`.

v0.1
2017-10-
08

5 Additional macros and utilities

5.1 Expandable Commands

✉ **crossreftools** provides some expandable helper macros in order to query the cross reference names that are stored with `\crefname` and `\Crefname` from ✉ **cleveref**.

Expandable

`\crtcrefname{<counter name>}`

This extracts the lower case cross reference name of a given counter.

v0.1
2017-10-
08

Expandable

5. ADDITIONAL MACROS AND UTILITIES

`\crtCrefname{⟨counter name⟩}`

This extracts the upper case cross reference name of a given counter.

v0.1
2017-10-
08

Expandable

`\crtcrefpluralname{⟨counter name⟩}`

This extracts the lower case cross reference plural name of a given counter.

v0.1
2017-10-
08

Expandable

`\crtCrefpluralname{⟨counter name⟩}`

This extracts the upper case cross reference plural name of a given counter.

v0.1
2017-10-
08

Expandable

`\crtcrefnamebylabel{⟨label name⟩}`

This extracts the lower case cross reference name of a given label.

v0.1
2017-10-
08

v0.2
2017-10-
08

Expandable

`\crtCrefnamebylabel{⟨label name⟩}`


This extracts the upper case cross reference name of a given label.

v0.1
2017-10-
08

v0.2
2017-10-
08

Expandable

`\crtcref{⟨label name⟩}`


This displays the reference in the same way as `\cref` from  **cleveref** would do in a setup without using `\crefformat` etc. The hyperlink is not displayed, however. This command is expandable.

For the upper case version see `\crtCref`.

v0.3
2017-10-
29

Expandable

`\crtCref{⟨label name⟩}`



This displays the reference in the same way as `\Cref` from  **cleveref** would do in a setup without using `\Crefformat` etc. The hyperlink is not displayed, however. This command is expandable.

For the lower case version see `\crtcref`.

v0.3
2017-10-
29


5.2 Nonexpandable Commands

`\crthyperlink{⟨anchor⟩}{⟨link text⟩}`

This is a wrapper to the `\hyperlink` macro from  **hyperref** to the given `{⟨anchor⟩}`, displaying the `{⟨link text⟩}`. If  **hyperref** is not loaded, only the link text is displayed.

v0.3
2017-10-
29


`\crthypercref{⟨label name⟩}`

This generates a linked reference to a given label like `\cref` would do. If  **hyperref** is not loaded, no link but only the reference text is displayed.

For the upper case version see `\crthyperCref`.

v0.3
2017-10-
29

`\crthyperCref{⟨label name⟩}`

This generates a linked reference to a given label like `\Cref` would do. If  **hyperref** is not loaded, no link but only the reference text is displayed.

For the lower case version see `\crthypercref`.

v0.3
2017-10-
29


6 Placing more generic labels

Sometimes it is necessary to refer to content that is not connected to a counter and `\refstepcounter`. In this case the macros `\crtprovidecurrentlabel`, `\crtprovidecurrentlabelname`, `\crtprovidecurrentlabelinfo` and `\crtcrossreflabel`^{→ P.14} may be useful.




None of the macros placing 'arbitrary' labels described in this section is expandable!

`\crtprovidecurrentlabel{⟨usual label content⟩}`

This sets `\@currentlabel` which is later on stored to be the label content with `\label` and being displayed with the various variants of `\ref` or `\cref` etc. from  **cleveref**.


v0.4
2017-12-
06

`\crtprovidecurrentlabelname{⟨nameref label content⟩}`

This sets `\@currentlabelname` which is later on stored to be the label content with `\label` and being displayed with the various variants of `\nameref` from  **hyperref**.

v0.4
2017-12-
06

`\crtprovidecurrentlabelinfo{⟨usual label content⟩}{⟨nameref label content⟩}`

This is a convenience macro in order to provide both `\@currentlabel` and `\@currentlabelname` at once. If  **hyperref** is loaded, a `\phantomsection` call is used before calling `\crtprovidecurrentlabel` and `\crtprovidecurrentlabelname`.

v0.4
2017-12-
06

`\crtcrossreflabel[⟨nameref label content⟩]{⟨usual label content⟩}[⟨label name⟩]`

This macro is an even more convenient wrapper for `\crtprovidecurrentlabelinfo` by using the 2nd (mandatory) argument both for the usual label and the nameref label content if the 1st optional argument is not specified. This resembles the `\caption[]{} or e.g. \section[]{} mechanism where the first optional argument is used for the ToC - related entries. The 2nd optional argument is placing the \label with the relevant label name.`

! Please note that depending on the presence of the 1st optional argument either the 2nd or der 1st argument is displayed in the input stream, i.e. in the document text. If this is not requested, use the starred form `\crtcrossreflabel*`^{→ P.14}.


v0.4
2017-12-
06



`\crtcrossreflabel*[⟨nameref label content⟩]{⟨usual label content⟩}[⟨label name⟩]`

This behaves like `\crtcrossreflabel` but suppresses the output of the 2nd or 1st argument explicitly. Use this to place hidden labels and anchors.

v0.4
2017-12-
06

7 Displaying label information


For some reason it might be useful to have a list of all defined labels available. Currently, the support from  **crossreftools** for this limited, however.

!  **crossreftools** redefines `\label` at the beginning of the document body. It takes care about a potential optional argument of `\label` as is introduced by  **cleveref**.

7.1 Useful macros for the list of labels


`\crtlistoflabels`

This displays a list of all cross-reference labels in the order of their definition, the heading has the title `List of labels`, in order to change the title redefine `\listoflabelsname`^{→ P.15}.

An ordinary entry to the list - of - labels file (default extension  lla) is written with `\addcontentsline`


```
\addcontentsline{\crt@listoflabelsfileextension}
                 {\crt@listoflabelsstructurelevel}
                 {\protect\numberline{\crtrefnumber{#1}}{#1}}
```

where `\crt@listoflabelsfileextension`^{→ P.15} and `\crt@listoflabelsstructurelevel`^{→ P.15} are internal versions of `\crtlistoflabelsfileextension`^{→ P.15} and `\crtlistoflabelsstructurelevel`^{→ P.15}.

This command does add an entry into the table of contents ( toc - file) either on chapter or on section level, depending whether the class is  **book** or not.

If no ToC - entry should be made, use `\crtlistoflabels*`^{→ P.15}.

v0.4
2017-12-
06

! If the package (or class) option `final` is enabled, the  **List of Labels** feature is disabled and `\crtlistoflabels` expands to nothing.

`\crtlistoflabels*`

This behaves like `\crtlistoflabels`^{→P.14} but does not generate an entry in the table of contents.

v0.4
2017-12-
06

`\crtlistoflabelsfileextension{⟨extension⟩}`

This changes the extension of the list of labels file. The value is stored internally in `\crt@listoflabelsfileextension` which defaults to `lla`

v0.4
2017-12-
06

`\crt@listoflabelsfileextension`

This holds the extension (without a dot in the name) of the list of labels file. Do not change this macro directly, but use `\crtlistoflabelsfileextension` instead.

v0.4
2017-12-
06

`\listoflabelsname`

This is the title of the list of labels heading, it defaults to `List of labels`. It can be changed with `\renewcommand`.

v0.4
2017-12-
06

`\crtlistoflabelsstructurelevel{⟨counter name⟩}`

This changes the level of the label entries in the list of labels. The value is stored internally in `\crt@listoflabelsstructurelevel` which defaults to `section`

v0.4
2017-12-
06

! This is a preamble - only macro.

`\crt@listoflabelsstructurelevel`

This holds the structure level of the list of labels entries. Do not change this macro directly, but use `\crtlistoflabelsstructurelevel` instead.

v0.4
2017-12-
06

7.2 Useful macros for the label command

☑ **crossreftools** provides two hook macros to be usable inside of the `\label` command

`\crtprelabelhook{⟨argument⟩}`

This hook is executed before the internally stored `\label` is called, the argument can be 'anything'.

By default, this macro expands to nothing, but can be redefined with `\renewcommand`.

v0.4
2017-12-
06

`\crtpostlabelhook{⟨argument⟩}`

This hook is executed after the internally stored `\label` is called, the argument can be 'anything'. By default, this macro expands to nothing, but can be redefined with `\renewcommand`.

v0.4
2017-12-
06

Part III

Examples

8 Driver example

```
%% LaTeX package crossreftools - version 0.4 (2017/12/26 -- 17:55:15)
%% Driver file for crossreftools.sty
%%
%%
%%
-----
%% Copyright (c) 2017 by Dr. Christian Hupfer <typography dot with dot latex
    at gmail dot com>
%%
-----
%%
%% This work may be distributed and/or modified under the
%% conditions of the LaTeX Project Public License, either version 1.3
%% of this license or (at your option) any later version.
%% The latest version of this license is in
%%   http://www.latex-project.org/lppl.txt
%% and version 1.3 or later is part of all distributions of LaTeX
%% version 2005/12/01 or later.
%%
%%
%% This work has the LPPL maintenance status ‘author-maintained’
%%
%%

\documentclass{book}

\usepackage{hyperref}
```



```
\usepackage{cleveref}

\usepackage{crossreftools}

\setlength{\parindent}{0em}

\def\labeltoshow{foochapterlabel}

\def\equationlabeltoshow{fooequationlabel}


\crtlistoflabelsstructurelevel{section}
\begin{document}

\tableofcontents

\crtlistoflabels*

\clearpage

\chapter{Some easy usages of crossreftools}
% \setcounter{chapter}{16} % Just for checking

Let us refer the usual way: \Cref{\labeltoshow}

\edef\foocntr{\crtcrefcounter{\labeltoshow}}

The counter for \fbox{\labeltoshow} is \foocntr\ or
\crtcrefcounter{\labeltoshow}. It is used on page
\crtcrefpage{\labeltoshow}. The value for the misspelled label name is
\crtcrefnumber{labeltoshowstuff}, whereas the correct value is
\crtcrefnumber{\labeltoshow}.


The result is \fbox{\crtcrefresult{\labeltoshow}}

\edef\labeltoshowname{\crtcrefname{chapter}}

\section{Extracting usual reference information}
```

Extracting content with `\verb!\crtextextractref!`

```
\begin{itemize}
  \item reference: \crtextextractref{reference}{\labeltoshow}
  \item page: \crtextextractref{page}{\labeltoshow}
\end{itemize}
```

If the `\fbox{hyperref}` package is loaded, further properties are retrievable:

```
\begin{itemize}
  \item name: \crtextextractref{name}{\labeltoshow}
  \item hyperanchor: \crtextextractref{anchor}{\labeltoshow}
  \item unused: \crtextextractref{unused}{\labeltoshow}
\end{itemize}
```

The 5th (and usually empty) label property introduced by `hyperref` is unused as of version v6.85a of that package -- `\crtextextractref{unused}{labelname}` will return nothing here, i.e. the expansion is empty.

This works only if there is usual hyper anchor for the counter:

```
\crtrefcounter{fooequationlabel}.
```

```
\section{Extracting the cleveref names}
```

```
\begin{itemize}
```

```
\item The lower case cross reference name for \fbox{\equationlabeltoshow} is
  \crtcrefnamebylabel{\equationlabeltoshow}, this time using
  \verb!\crtcrefnamebylabel!; the upper case name is
  \crtCrefnamebylabel{\equationlabeltoshow}.
```

```
\item Extracting content with \verb!\crtextextractref!
```

```
\begin{itemize}
  \item counter: \crtextextractref{counter}{\labeltoshow}
  \item number: \crtextextractref{number}{\labeltoshow}
  \item result: \crtextextractref{result}{\labeltoshow}
  \item reference: \crtextextractref{reference}{\labeltoshow}
  \item page: \crtextextractref{page}{\labeltoshow}
\end{itemize}
\end{itemize}
```

The macro `\verb!\crtextextractref!` is

```
expandable!\edef\counterof{\crtextextractref{counter}{\labeltoshow}} Using
```

```
the stored value for counter: \counterof!

See \crthyperCref{fooequationlabel} and \cref{pythagoreanththeorem}.

\chapter{Placing more generic labels}

\clearpage
\crtcrossreflabel[Let us place a label without a counter]{Let us plant a label
  not being connected to a counter:}[somelabel]

\clearpage

See \ref{somelabel} or \nameref{somelabel} on \cpageref{somelabel}

\chapter{This is foo}\label{foochapterlabel}

\setcounter{section}{5}
\section{Foo}\label{foosectionlabel}

\begin{equation}
  E=mc^2\label{firstequationlabel}
\end{equation}

\begin{equation}
  E=mc^2\label{fooequationlabel}
\end{equation}

\clearpage


\section{Another foo bar section}
\begin{equation}
  a^2 + b^2 = c^2\label[section]{pythagoreanththeorem}% Explicitly use a
  wrong counter type here for testing
\end{equation}
\end{document}
```

Part IV


Meta information

9 Version history

- Version v0.4 2017-12-06

- Corrected typos in this documentation
- Added the  [List of Labels](#) feature and the relevant macros from section 7.
- Added the `final` and `draft` package options.
- Introduced more generic label content macros.

- Version v0.3 2017-10-29

Added the extraction macros for regular labels (i.e. not the  [cleveref](#) - related ones) and convenience wrappers for generating links.

- Version v0.2 2017-10-25

Introduced a check in `\crtcrefnamebylabel→P.12` and `\crtCrefnamebylabel→P.12` whether given label exists

- Version v0.1 2017-10-08

First version

Index

`\crtCref`, 12
`\crtcref`, 12
`\crtcrefcounter`, 11
`\crtCrefname`, 12
`\crtcrefname`, 11
`\crtCrefnamebylabel`, 12
`\crtcrefnamebylabel`, 12
`\crtcrefnumber`, 11
`\crtcrefpage`, 9, 11
`\crtCrefpluralname`, 12
`\crtcrefpluralname`, 12
`\crtcrefreference`, 11
`\crtcrefresult`, 11
`\crtcrossreflabel`, 14
`\crtcrossreflabel*`, 14
`\crtexttractref`, 10
`\crtexttractref`, 9
`\crthyperCref`, 13
`\crthyperceref`, 13
`\crthyperlink`, 13
`\crtlistoflabels`, 14
`\crtlistoflabels*`, 15
`\crtlistoflabelsfileextension`, 15
`\crtlistoflabelsstructurelevel`, 15
`\crtpostlabelhook`, 15
`\crtprelabelhook`, 15
`\crtprovidecurrentlabel`, 13
`\crtprovidecurrentlabelinfo`, 13
`\crtprovidecurrentlabelname`, 13
`\crtrefanchor`, 9
`\crtrefcounter`, 10
`\crtrefname`, 9
`\crtrefnumber`, 9
`\crtrefundefinedtext`, 8
`\crtrefunused`, 9

Feature

List of Labels, 7, 15, 20

`\listoflabelsname`, 15

Package

book, 14
cleveref, 6, 7, 10–14, 20
crossreftools, 6–8, 10, 11, 14, 15
hyperref, 6–9, 13
refcount, 6
tcolorbox, 7