Contents

List of labels 3

1 Some easy usages of crossref tools 5
  1.1 Extracting usual reference information 5
  1.2 Extracting the cleveref names 6

2 Placing more generic labels 7

3 This is foo 11
  3.6 Foo 11
    3.6.1 Foo subsection 11
  3.7 Another foo bar section 12

4 Checking for label existence 13
List of labels

Let us place a label not being connected to a counter: ...

some invisible label that is invisibly placed here. ...

3 foochapterlabel ...

3.6 foosectionlabel ...

3.6.1 foosubsectionlabel ...

3.1 firstequationlabel ...

3.2 secondequationlabel ...

3.3 pythagoreantheorem ...
Chapter 1

Some easy usages of crossref tools

Let us refer the usual way: Chapter \[chapter\] 3
The counter for \[foochapterlabel\] is chapter or chapter. It is used on page 11.
The value for the misspelled label name is [UNDEFINED], whereas the correct value is 3.
Let us check for a subsection label: subsection
The result is □

1.1 Extracting usual reference information

Extracting content with \texttt{\textbackslash crtextactref}

- reference: 3
- page: 11

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

- name: This is foo
- hyperanchor: chapter.3
- unused:

The 5th (and usually empty) label property introduced by hyperref is unused as of version v6.85a of that package – [UNDEFINED] will return nothing here, i.e. the expansion is empty.
This works only if there is usual hyper anchor for the counter: equation.
1.2 Extracting the cleveref names

- The lower case cross reference name for `fooequationlabel` is eq., this time using `\crtcrefnamebylabel`; the upper case name is Equation.

- Extracting content with `\crtextractcref`
  - counter: chapter
  - number: 3
  - result:
  - reference: 3
  - page: 11

The macro `\crtextractcref` is expandable! Using the stored value for counter: chapter!

See Equation 3.2 and section 3.3.
Chapter 2

Placing more generic labels
Let us place a label without a counter and
Chapter 3

This is foo

3.6 Foo

3.6.1 Foo subsection

\[ E = mc^2 \] (3.1)

\[ E = mc^2 \] (3.2)
3.7 Another foo bar section

\[ a^2 + b^2 = c^2 \]  \hspace{2cm} (3.3)
Chapter 4

Checking for label existence

No, that label does not exist
Yes, that cleveref label exists