Back referencing from bibliographical citations*

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Documentation overview for hyperref

The documentation for package `hyperref` consists of several files:

Manual The **USER MANUAL** (also available as HTML).

README The **README** file (also available as text file). Here information is collected that is not yet in the manual: new features, package compatibility, limitations, known problems, …

ChangeLog This file records the version history (also available as text file).

Options This file provides a short option summary.

Bookmark talk, slides Slides for the talk "PDF information and navigation elements with hyperref, pdfTeX and thumbpdf" at EuroTEX 1999.

Bookmark talk, paper The paper version of the talk.

Source code documentation:

hyperref.dtx This is the source code documentation for hyperref.

☞ **backref.dtx** "Back referencing from bibliographical citations" (this file)

nameref.dtx "Section name references in LATEX"

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1 Introduction

2 Usage

2.1 Options

2.1.1 Options for type of back references

In short the following options set the type of back references. Default is option pageref.

ref	section number
pageref	page number
hyperref	section number as hyper link
hyperpageref	page number as hyper link

The options that start with hyper are intended for the use with package hyperref. In this case package backref will be loaded automatically if the hyperref options backref or pagebackref are given. Package hyperref then loads package backref with the appropriate option:

hyperref option	backref option set by hyperref
backref	hyperref
backref=section	hyperref
backref=slide	hyperref
backref=page	hyperpageref
pagebackref	hyperpageref

2.1.2 Language options

Currently supported options are english (american, australian, british, canadian, newzealand, UKenglish, USenglish), german (ngerman, austrian, naustrian), french (acadian, canadien, frenchb, francais), spanish, and brazil (brazilian). Default is english.

2.2 Detecting the end of a bibliography entry

Package backref has to be able to detect the end of an entry in the bibliography, therefore each \bibitem entry must be ended by an empty line (or a \par token).

Example:

```
\begin{thebibliography}{9}
\bibitem[bib:abc] First entry.

\bibitem[bib:foo] Second entry.

\end{thebibliography}
```

Then package backref can automatically add hooks for the back references list at the end of the entries.

\backrefparscanfalse
\backrefparscantrue

Sometimes it is not appropriate if the entry is read as argument. For example, catcode changes for verbatim stuff do not have the desired effect. Therefore the scan for the \par token can be disabled by \backrefparscanfalse before \bibitem and enabled by \backrefparscantrue afterwards.

\backrefprint

If the scan for the end of the entry is disabled, then package backref does not know where to put the back references list. The list is printed by the macro \backrefprint, thus just call it at the right place. Example:

```
\backrefparscanfalse % disable scan for entry ending
\bibitem[...]{...}
  ... \verb|...| ... % potentially dangerous stuff
  ... \url{...} ...
  \backrefprint      % print back reference list here
\backrefparscantrue  % enable scan again
```

2.3 Formatting of the back references list

The back references list is separated from the entry by \newblock, if the used bibliography package supports this. The package options control the kind of back references (page numbers, sections numbers), whereas the hooks control the formatting.

There are two hooks \backref and a new hook \backrefalt, available since version 1.21 of package backref. The former one is enabled by default.

2.3.1 Formatting hook \backref

Macro \backref has a a comma separated list of backref references as first and only argument. With hyperref options only this list will be printed. Without hyperref there is an introductionary text, controlled by macros \backrefpagesname or \backrefsectionsname.

2.3.2 Formatting hook \backrefalt

\backrefalt is a new interface since version 1.21 of package backref. It takes four arguments:

1. Number of citations without dupes.
2. Back references list without dupes.
3. Number of all citations (with dupes).

4. Back reference list with all entries (with dupes).

The latter options consider equal entries as one entry. Now `\backrefalt` can easily be defined with text that depends on the number of citations, for example:

```
\usepackage[backref]{backref}
\renewcommand*{\backref}[1]{}% for backref < 1.33 necessary
\renewcommand*{\backrefalt}[4]{%
 \ifcase #1 %
   No citations.%
 \or
   One citation in section #2.%
 \else
   #1 citations in sections #2.%
 \fi
}
```

The separation between the list entries are controlled by the following macros:

- `\backrefsep`: inserted between entries except for the next cases, default is ",␣".
- `\backreftwosep`: inserted between entries in a list of two entries, default is "␣and~".
- `\backreflastsep`: inserted between the last two entries of a list with more than two entries, default is ",␣and~".

Examples:

⟨*entry1*⟩
⟨*entry1*⟩ `\backreftwosep` ⟨*entry2*⟩
⟨*entry1*⟩ `\backrefsep` ⟨*entry2*⟩ `\backreflastsep` ⟨*entry3*⟩

Since version 1.33 it is not necessary to redefine pages , it is automatically disabled if defined.

2.3.3 Refinement `\backrefentrycount`

Since version 1.33 the entries of the distinct list of interface `\backrefalt` are wrapped in `\backrefentrycount`. The macro is called with two arguments. The first is the backref entry and the second one the citation count of this entry. As default the macro passes the first argument through and ignores the count argument. But it can be redefined, e.g.

```
\renewcommand*{\backrefalt}[4]{...}% see above
\renewcommand*{\backrefentrycount}[2]{%
 #1%
 \ifnum#2>1 %
  ~(#2)%
 \fi
}
```

In case of duplicates, the distinct entry is appended by the number of citations in parentheses.

3 The macros

Internal command names of this package start with `\BR@`, commands, that store the original meaning of commands, which will be redefined, are prefixed with `\BRorg@`.

3.1 Package identification

```
1 ⟨*package⟩
```

3.2 Options

3.2.1 Option verbose

If package hyperref is loaded, then its setting is used as default for the verbose switch.

```
2 \newif\ifBR@verbose
3 \@ifundefined{ifHy@verbose}{%
4   \BR@verbosefalse
5 }{%
6   \let\ifBR@verbose\ifHy@verbose
7 }
8 \DeclareOption{verbose}{\BR@verbosetrue}
```

3.2.2 Options for way of working

What is printed depends on how the 3 available items of information are used (page number, section number, label).

```
9 \long\def\page@backref#1#2#3{#1}
10 \long\def\section@backref#1#2#3{#2}
11 \long\def\hyper@section@backref#1#2#3{\hyperlink{#3}{#2}}
12 \long\def\hyper@page@backref#1#2#3{\hyperlink{page.#1}{#1}}
```

Now the options follows, that can be used without package hyperref.

```
13 \DeclareOption{pageref}{%
14   \def\backref{\backrefpagesname\ }%
15   \let\backrefxxx\page@backref
16 }
17 \DeclareOption{ref}{%
18   \def\backref{\backrefsectionsname\ }%
19   \let\backrefxxx\section@backref
20 }
```

Set up back-referencing to be hyper links, by page or section.

```
21 \DeclareOption{hyperref}{%
22   \def\backref{}\let\backrefxxx\hyper@section@backref
23 }
24 \DeclareOption{hyperpageref}{%
25   \def\backref{}\let\backrefxxx\hyper@page@backref
26 }
```

3.2.3 Language options

```
27 \def\backrefenglish{%
28   \def\backrefpagesname{pages}%
29   \def\backrefsectionsname{sections}%
30   \def\backrefsep{, }%
31   \def\backreftwosep{ and~}%
32   \def\backreflastsep{, and~}%
33 }
34 \def\backrefgerman{%
35   \def\backrefpagesname{Seiten}%
36   \def\backrefsectionsname{Abschnitte}%
37   \def\backrefsep{, }%
38   \def\backreftwosep{ und~}%
```

```
  \def\backreflastsep{ und~}%
}
\def\backreffrench{%
  \def\backrefpagesname{pages}%
  \def\backrefsectionsname{sections}%
  \def\backrefsep{, }%
  \def\backreftwosep{ et~}%
  \def\backreflastsep{ et~}%
}
\def\backrefspanish{%
  \def\backrefpagesname{p\'aginas}%
  \def\backrefsectionsname{secciones}%
  \def\backrefsep{, }%
  \def\backreftwosep{ y~}%
  \def\backreflastsep{ y~}%
}
\def\backrefbrazil{%
  \def\backrefpagesname{p\'aginas}%
  \def\backrefsectionsname{se\c c\~oes}%
  \def\backrefsep{, }%
  \def\backreftwosep{ e~}%
  \def\backreflastsep{ e~}%
}
\def\backrefafrikaans{%
  \def\backrefpagesname{bladsye}%
  \def\backrefsectionsname{afdelings}%
  \def\backrefsep{, }%
  \def\backreftwosep{ en~}%
  \def\backreflastsep{ en~}%
}%
```

Instead of package babel's definition of `\addto` the implementation of package varioref is used. Additionally argument `#1` is checked for `\relax`.

```
\def\BR@addto#1#2{%
  #2%
  \@temptokena{#2}%
  \ifx#1\relax
    \let#1\@empty
  \fi
  \ifx#1\@undefined
     \edef#1{\the\@temptokena}%
  \else
     \toks@\expandafter{#1}%
     \edef#1{\the\toks@\the\@temptokena}%
  \fi
  \@temptokena{}\toks@\@temptokena
}
\def\BR@DeclareLang#1#2{%
  \begingroup
    \edef\x##1##2{%
      \noexpand\ifx##2\relax
        \errmessage{No definitions for language `#2' found!}%
      \noexpand\fi
      \endgroup
      \noexpand\DeclareOption{#1}{%
        \noexpand\BR@addto{\noexpand##1}{\noexpand##2}%
      }%
    }%
```

```
  \expandafter\x\csname extras#1\expandafter\endcsname
              \csname backref#2\expandafter\endcsname
}
\BR@DeclareLang{english}{english}
\BR@DeclareLang{american}{english}
\BR@DeclareLang{australian}{english}
\BR@DeclareLang{british}{english}
\BR@DeclareLang{canadian}{english}
\BR@DeclareLang{newzealand}{english}
\BR@DeclareLang{UKenglish}{english}
\BR@DeclareLang{USenglish}{english}
\BR@DeclareLang{german}{german}
\BR@DeclareLang{ngerman}{german}
\BR@DeclareLang{austrian}{german}
\BR@DeclareLang{naustrian}{german}
\BR@DeclareLang{french}{french}
\BR@DeclareLang{acadian}{french}
\BR@DeclareLang{canadien}{french}
\BR@DeclareLang{frenchb}{french}
\BR@DeclareLang{francais}{french}
\BR@DeclareLang{spanish}{spanish}
\BR@DeclareLang{brazil}{brazil}
\BR@DeclareLang{brazilian}{brazil}
\BR@DeclareLang{afrikaans}{afrikaans}
```

Default is the english version:

```
\backrefenglish
```

3.2.4 Process options

```
\ExecuteOptions{pageref}
\ProcessOptions*\relax
```

3.3 The bibliography

\ifbackrefparscan

```
\newif\ifbackrefparscan
\backrefparscantrue
```

\ifBR@BackrefAlt

```
\newif\ifBR@BackrefAlt
```

\BR@bibitem

```
\def\BR@bibitem{%
  \ifbackrefparscan
    \expandafter\@ifnextchar\expandafter[\expandafter
    \BR@@lbibitem\expandafter\BR@@bibitem
  \else
    \expandafter\@ifnextchar\expandafter[\expandafter
    \BR@@@lbibitem\expandafter\BR@@@bibitem
  \fi
}

\def\BR@@lbibitem[#1]#2#3\par{%
  \let\backrefprint\BR@backrefprint
  \BRorg@bibitem[{#1}]{#2}#3%
  \BR@backref{#2}%
}%
\def\BR@@bibitem#1#2\par{%
```

```
  \let\backrefprint\BR@backrefprint
  \BRorg@bibitem{#1}#2%
  \BR@backref{#1}%
}
\def\BR@@@lbibitem[#1]#2{%
  \def\backrefprint{\BR@backref{#2}}%
  \BRorg@bibitem[{#1}]{#2}%
}
\def\BR@@@bibitem#1{%
  \def\backrefprint{\BR@backref{#1}}%
  \BRorg@bibitem{#1}%
}
\def\BR@backrefprint{%
    \PackageError{backref}{%
      \string\backrefprint\space is only available after \string\bibitem
      \MessageBreak
      with setting \string\backrefparscanfalse
    }\@ehc
}
\let\backrefprint\BR@backrefprint
\def\BR@backref#1{%
  \newblock
  \begingroup
    \csname @safe@activestrue\endcsname
    \expandafter\providecommand\csname brc@#1\endcsname{0}%
    \expandafter\providecommand\csname brcd@#1\endcsname{0}%
    \csname @safe@activesfalse\expandafter\endcsname
    \ifBR@BackrefAlt
      \ifx\backrefentrycount\BR@BackrefEntryCountUnused
      \else
        \BR@PopulateEntryCount{#1}%
      \fi
      \expandafter\backrefalt\csname brc@#1\expandafter\endcsname
                        \csname brl@#1\expandafter\endcsname
                        \csname brcd@#1\expandafter\endcsname
                        \csname brld@#1\endcsname
    \else
      \expandafter\backref\csname br@#1\expandafter\endcsname
    \fi
  \endgroup
  \par
}
\@ifundefined{newblock}{\def\newblock{\par}}{}
\let\BR@Unused\@empty
\def\BR@BackrefAltUnused#1#2#3#4{\BR@Unused}
\@ifundefined{backrefalt}{%
  \let\backrefalt\BR@BackrefAltUnused
}{}
\def\BR@BackrefEntryCountUnused#1#2{\BR@Unused#1}
\@ifundefined{backrefentrycount}{%
  \let\backrefentrycount\BR@BackrefEntryCountUnused
}{}
```

3.4 Reading .brf file

\backcite The file \jobname.brf collects the back cite informations as calls of \backcite with the informations in the arguments.

The first argument of macro \backcite is the citation label, the second parameter contains the page number (\thepage), the current label of the citation (\@currentlabel), and the current anchor name (\@currentHref). Example for a citation at the first page in second section:

```
\backcite {bib:abc}{{1}{2}{section.2}}
```

While the file \jobname.brf is read, the informations are collected and stored in macros whose names are build by the citation label ⟨*label*⟩:

\br@⟨*label*⟩	list, entries separated by comma without dupes
\brc@⟨*label*⟩	number of citations without dupes
\brl@⟨*label*⟩	backref list without dupes
\brcd@⟨*label*⟩	number of all citations (with dupes)
\brld@⟨*label*⟩	backref list with all entries (with dupes)

What are "dupes"? An instance: you have three references to an entry in the bibliography on the first page:

```
\backcite {bib:abc}{{1}{1}{section.1}}
\backcite {bib:abc}{{1}{1}{section.1}}
\backcite {bib:abc}{{1}{2}{section.2}}
```

Then the whole backref list with option pageref would print, e.g.:

> Entry for bib:abc. Cited on pages 1, 1, 1.

Without dupes the entries with the same page number would be removed, e.g.:

> Entry for bib:abc. Cited on page 1.

Also the third entry is removed, because it has the same page number. For the comparison only these pieces of information are considered that will be used later by \backrefxxx. With option pageref macro \backrefxxx becomes \page@backref that throws away the second and third argument and only uses the first argument with the page number. To be more precise, the first expansion of \backrefxxx is used in comparison. If some arguments are used here, but later omitted, then this will not be detected.

\backrefxxxdupe With option hyperref you will get two entries in the following example because the second entry differs in the link information, so the result will be the same section number, but as different links.

```
\backref {bib:abc}{{1}{1}{section.1}}
\backref {bib:abc}{{1}{1}{equation.1}}
```

Macro \backrefxxxdupe will be used in the comparison test if it is defined. Thus you can provide a definition in this case as follows:

```
\newcommand*{\backrefxxxdupe}[3]{#2}
```

Then only the section number is interpreted, but not the anchor name.

To avoid same entries, it is checked before, whether the entry already exists. Only the information needed by \backrefxxx is compared.

```
\def\backcite#1#2{%
  \@for\x:=#1\do{%
    \begingroup
      \csname @safe@activestrue\endcsname
      \edef\x{\endgroup
        \def\noexpand\x{\expandafter\@firstofone\x\@empty}%
      }%
    \x
```

Now macro \x contains the citation label name.

```
\expandafter\ifx\csname br@\x\endcsname\relax
```

Initialization, fill in the first entry.

```
  \expandafter\protected@xdef\csname br@\x\endcsname{%
    \protect\backrefxxx#2%
  }%
  \ifBR@BackrefAlt
    \global\expandafter\let\csname brl@\x\expandafter\endcsname
                \csname br@\x\endcsname
    \global\expandafter\let\csname brld@\x\expandafter\endcsname
                \csname br@\x\endcsname
    \expandafter\gdef\csname brc@\x\endcsname{1}%
    \expandafter\gdef\csname brcd@\x\endcsname{1}%
  \fi
\else
```

Fill in further entry. But check for dupe first.

```
  \begingroup
    \@ifundefined{backrefxxxdupe}{}{\let\backrefxxx\backrefxxxdupe}%
    \expandafter\def\expandafter\reserved@a\expandafter{%
      \backrefxxx#2%
    }%
    \let\BRorg@backrefxxx\backrefxxx
    \global\let\BR@found=N%
    \long\def\backrefxxx##1##2##3{%
      \expandafter\def\expandafter\reserved@b\expandafter{%
        \BRorg@backrefxxx{##1}{##2}{##3}%
      }%
      \ifx\reserved@a\reserved@b
        \global\let\BR@found=Y%
      \fi
    }%
    \setbox\@tempboxa\hbox{\csname br@\x\endcsname}%
  \endgroup
  \let\backrefsep\relax
  \def\backreftwosep{\backrefsep}%
  \def\backreflastsep{\backrefsep}%
  \if N\BR@found
    \expandafter\protected@xdef\csname br@\x\endcsname{%
      \csname br@\x\endcsname, %
      \protect\backrefxxx#2%
    }%
    \ifBR@BackrefAlt
      \expandafter\protected@xdef\csname brl@\x\endcsname{%
        \csname brl@\x\endcsname
        \ifnum\@nameuse{brc@\x}=1 %
          \noexpand\backreftwosep
        \else
          \noexpand\backreflastsep
        \fi
        \protect\backrefxxx#2%
      }%
      \count@=\@nameuse{brc@\x}\relax
      \advance\count@ by 1 %
      \expandafter\xdef\csname brc@\x\endcsname{\the\count@}%
    \fi
  \fi
```

```
    \ifBR@BackrefAlt
     \expandafter\protected@xdef\csname brld@\x\endcsname{%
       \csname brld@\x\endcsname
       \ifnum\@nameuse{brcd@\x}=1 %
         \noexpand\backreftwosep
       \else
         \noexpand\backreflastsep
       \fi
       \protect\backrefxxx#2%
     }%
     \count@=\@nameuse{brcd@\x}\relax
     \advance\count@ by 1 %
     \expandafter\xdef\csname brcd@\x\endcsname{\the\count@}%
    \fi
   \fi
  }%
}
```

\BR@PopulateEntryCount

```
\def\BR@PopulateEntryCount#1{%
  \begingroup
    \toks@{}%
    \def\backrefsep{%
      \toks@\expandafter{\the\toks@\backrefsep}%
    }%
    \def\backreftwosep{%
      \toks@\expandafter{\the\toks@\backreftwosep}%
    }%
    \def\backreflastsep{%
      \toks@\expandafter{\the\toks@\backreflastsep}%
    }%
    \def\protect{}%
    \let\BR@backrefxxx\backrefxxx
    \let\backrefxxx\BR@PopulateBackrefxxx
    \def\BR@name{#1}%
    \csname brl@#1\endcsname
    \expandafter\xdef\csname brl@#1\endcsname{\the\toks@}%
  \endgroup
}
```

\BR@PopulateBackrefxxx

```
\def\BR@PopulateBackrefxxx#1#2#3{%
  \expandafter\def\expandafter\BR@tempa\expandafter{%
    \BR@backrefxxx{#1}{#2}{#3}%
  }%
  \begingroup
    \count@=\z@
    \def\backrefsep{}%
    \def\backreftwosep{}%
    \def\backreflastsep{}%
    \let\backrefxxx\BR@@PopulateBackrefxxx
    \csname brld@\BR@name\endcsname
    \toks\tw@={\backrefxxx{#1}{#2}{#3}}%
    \edef\x{\endgroup
      \toks@{%
        \the\toks@
        \noexpand\backrefentrycount{%
```

```
        \the\toks\tw@
       }{\the\count@}%
      }%
    }%
  \x
}
```

\BR@@PopulateBackrefxxx

```
\def\BR@@PopulateBackrefxxx#1#2#3{%
  \expandafter\def\expandafter\BR@tempb\expandafter{%
    \BR@backrefxxx{#1}{#2}{#3}%
  }%
  \ifx\BR@tempa\BR@tempb
    \advance\count@\@ne
  \fi
}
```

3.5 Initialization

```
\def\@currentHref{}
\AtBeginDocument{%
  \let\BRorg@bibitem\bibitem
  \let\bibitem\BR@bibitem
  \let\BRorg@thebibliography\thebibliography
  \def\thebibliography{%
    \BR@starttoc
    \BRorg@thebibliography
  }%
  \@ifundefined{NAT@parse}{%
    \global\let\BRorg@citex\@citex
    \global\let\@citex\BR@citex
  }{%
    \@ifpackageloaded{hyperref}{}{%
      \def\hyper@natlinkstart#1{\Hy@backout{#1}}%
    }%
    \PackageInfo{backref}{** backref set up for natbib **}%
  }%
}
```

\BR@starttoc

```
\def\BR@starttoc{%
  \ifx\backrefalt\BR@BackrefAltUnused
    \global\BR@BackrefAltfalse
  \else
    \global\BR@BackrefAlttrue
  \fi
  \begingroup
    \makeatletter
    \@input{\jobname.brf}%
    \if@filesw
      \@ifundefined{tf@brf}{%
        \expandafter\newwrite\csname tf@brf\endcsname
      }{}%
      \@ifundefined{tf@brf@open}{%
        \BR@RerunFileCheck
        \immediate\openout\csname tf@brf\endcsname\jobname.brf\relax
        \gdef\tf@brf@open{}%
```

```
    }{}%
  \fi
  \@nobreakfalse
 \endgroup
}
```

3.6 Collecting back cite informations

\BR@citex

```
\def\BR@citex[#1]#2{%
 \BRorg@citex[{#1}]{#2}%
 \ifBR@verbose
  \PackageInfo{backref}{back cite \string`#2\string'}%
 \fi
 \Hy@backout{#2}%
}
```

Grr. for chicago.sty

```
\@ifpackageloaded{chicago}{%
 \let\BRorg@citedatax\@citedatax
 \def\@citedatax[#1]#2{%
  \BRorg@citedatax[{#1}]{#2}%
  \Hy@backout{#2}%
 }%
}{}
```

\Hy@backout

```
\def\Hy@backout#1{%
 \@bsphack
 \ifx\@empty\@currentlabel
  \protected@write\@auxout{}{%
   \string\@writefile{brf}{%
    \string\backcite{#1}{{\thepage}{(document)}{Doc-Start}}%
   }%
  }%
 \else
  \protected@write\@auxout{}{%
   \string\@writefile{brf}{%
    \string\backcite{#1}{{\thepage}{\@currentlabel}{\@currentHref}}%
   }%
  }%
 \fi
 \@esphack
}
```

3.7 Rerun warning

\BR@RerunFileCheck

The following code computes a MD5 sum and the file size of the .brf file at the begin and the end of the document and compares them. A rerun warning is given, if they do not match. This method requires pdfTEX or LuaTEX. The method fails, if the MD5 sum and the file size are the same for a changed .brf file (it's probably very seldom).

```
\RequirePackage{rerunfilecheck}[2009/12/10]
\def\BR@RerunFileCheck{%
 \RerunFileCheck{\jobname.brf}{%
  \@ifundefined{tf@brf@open}{%
```

```
395    }{%
396      \immediate\closeout\tf@brf
397    }%
398  }{%
399    Rerun to get bibliographical references right%
400  }%
401 }
```

402 ⟨/package⟩

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