

# 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 L<sup>A</sup>T<sub>E</sub>X”

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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`.

<code>ref</code>	section number
<code>pageref</code>	page number
<code>hyperref</code>	section number as hyper link
<code>hyperpageref</code>	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
<code>backref</code>	<code>hyperref</code>
<code>backref=section</code>	<code>hyperref</code>
<code>backref=slide</code>	<code>hyperref</code>
<code>backref=page</code>	<code>hyperpageref</code>
<code>pagebackref</code>	<code>hyperpageref</code>

#### 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` 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 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 introductory 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]{%
\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:

```
\langle entry1 \rangle
\langle entry1 \rangle \backreftwosep \langle entry2 \rangle
\langle entry1 \rangle \backrefsep \langle entry2 \rangle \backreflastsep \langle entry3 \rangle
```

## 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@verbostrue}
```

### 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~}%
39   \def\backreflastsep{, und~}%
40 }
41 \def\backreffrench{%
42   \def\backrefpagesname{pages}%
43   \def\backrefsectionsname{sections}%
44   \def\backrefsep{, }%
45   \def\backreftwosep{ et~}%
46   \def\backreflastsep{ et~}%
47 }
48 \def\backrefspanish{%
49   \def\backrefpagesname{p\'aginas}%
50   \def\backrefsectionsname{secciones}%
51   \def\backrefsep{, }%
52   \def\backreftwosep{ y~}%
53   \def\backreflastsep{ y~}%
54 }
55 \def\backrefbrazil{%
```

```

56 \def\backrefpagesname{p\'aginas}%
57 \def\backrefsectionsname{se\c c\~oes}%
58 \def\backrefsep{,}%
59 \def\backreftwosep{ e~}%
60 \def\backreflastsep{ e~}%
61 }
62 \def\backrefafrikaans{%
63   \def\backrefpagesname{bladsye}%
64   \def\backrefsectionsname{afdelings}%
65   \def\backrefsep{,}%
66   \def\backreftwosep{ en~}%
67   \def\backreflastsep{ en~}%
68 }%

```

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

```

69 \def\BR@addto#1#2{%
70   #2%
71   \@temptokena{#2}%
72   \ifx#1\relax
73     \let#1\@empty
74   \fi
75   \ifx#1\undefined
76     \edef#1{\the\@temptokena}%
77   \else
78     \toks@\expandafter{#1}%
79     \edef#1{\the\toks@\the\@temptokena}%
80   \fi
81   \@temptokena{}\toks@\@temptokena
82 }
83 \def\BR@DeclareLang#1#2{%
84   \begingroup
85     \edef\x##1##2{%
86       \noexpand\ifx##2\relax
87         \errmessage{No definitions for language '#2' found!}%
88       \noexpand\fi
89     \endgroup
90     \noexpand\DeclareOption{#1}{%
91       \noexpand\BR@addto{\noexpand##1}{\noexpand##2}%
92     }%
93   }%
94   \expandafter\x\csname extras#1\expandafter\endcsname
95   \csname backref#2\expandafter\endcsname
96 }
97 \BR@DeclareLang{english}{english}
98 \BR@DeclareLang{american}{english}
99 \BR@DeclareLang{australian}{english}
100 \BR@DeclareLang{british}{english}
101 \BR@DeclareLang{canadian}{english}
102 \BR@DeclareLang{newzealand}{english}
103 \BR@DeclareLang{UKenglish}{english}
104 \BR@DeclareLang{USenglish}{english}
105 \BR@DeclareLang{german}{german}
106 \BR@DeclareLang{ngerman}{german}
107 \BR@DeclareLang{austrian}{german}
108 \BR@DeclareLang{naustrian}{german}
109 \BR@DeclareLang{french}{french}
110 \BR@DeclareLang{acadian}{french}

```

```

111 \BR@DeclareLang{canadien}{french}
112 \BR@DeclareLang{frenchb}{french}
113 \BR@DeclareLang{français}{french}
114 \BR@DeclareLang{spanish}{spanish}
115 \BR@DeclareLang{brazil}{brazil}
116 \BR@DeclareLang{brazilian}{brazil}
117 \BR@DeclareLang{afrikaans}{afrikaans}

```

Default is the english version:

```
118 \backrefenglish
```

### 3.2.4 Process options

```

119 \ExecuteOptions{pageref}
120 \ProcessOptions*\relax

```

## 3.3 The bibliography

\ifbackrefparscan

```

121 \newif\ifbackrefparscan
122 \backrefparscantrue

```

\BR@bibitem

```

123 \def\BR@bibitem{%
124   \ifbackrefparscan
125     \expandafter\@ifnextchar\expandafter[\expandafter
126     \BR@@lbibitem\expandafter\BR@@bibitem
127   \else
128     \expandafter\@ifnextchar\expandafter[\expandafter
129     \BR@@@lbibitem\expandafter\BR@@@bibitem
130   \fi
131 }

132 \def\BR@@lbibitem[#1]#2#3\par{%
133   \let\backrefprint\BR@backrefprint
134   \BRorg@bibitem[#{#1}]{#2}#3%
135   \BR@backref{#2}%
136 }%
137 \def\BR@@@bibitem#1#2\par{%
138   \let\backrefprint\BR@backrefprint
139   \BRorg@bibitem{#1}#2%
140   \BR@backref{#1}%
141 }
142 \def\BR@@@lbibitem[#1]#2{%
143   \def\backrefprint{\BR@backref{#2}}%
144   \BRorg@bibitem[#{#1}]{#2}%
145 }
146 \def\BR@@@bibitem#1{%
147   \def\backrefprint{\BR@backref{#1}}%
148   \BRorg@bibitem{#1}%
149 }
150 \def\BR@backrefprint{%
151   \PackageError{backref}{%
152     \string\backrefprint\space is only available after \string\bibitem
153     \MessageBreak
154     with setting \string\backrefparscanfalse
155   }\@ehc
156 }
157 \let\backrefprint\BR@backrefprint

```

```

158 \def\BR@backref#1{%
159   \newblock
160   \begingroup
161     \csname @safe@activetrue\endcsname
162     \expandafter\providecommand\csname brc@#1\endcsname{0}%
163     \expandafter\providecommand\csname brcd@#1\endcsname{0}%
164     \csname @safe@activesfalse\expandafter\endcsname
165     \expandafter\backref\csname br@#1\expandafter\endcsname
166     \expandafter\backrefalt\csname brc@#1\expandafter\endcsname
167                               \csname brl@#1\expandafter\endcsname
168                               \csname brcd@#1\expandafter\endcsname
169                               \csname brld@#1\endcsname
170   \endgroup
171   \par
172 }
173 \@ifundefined{newblock}{\def\newblock{\par}}{}
174 \providecommand*\backrefalt[4]{}

```

### 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>*:

<code>\br@&lt;label&gt;</code>	list, entries separated by comma without dupes
<code>\brc@&lt;label&gt;</code>	number of citations without dupes
<code>\brl@&lt;label&gt;</code>	backref list without dupes
<code>\brcd@&lt;label&gt;</code>	number of all citations (with dupes)
<code>\brld@&lt;label&gt;</code>	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.

```
175 \def\backcite#1#2{%
176   \@for\x:=#1\do{%
177     \begingroup
178       \csname @safe@activetrue\endcsname
179       \edef\x{\endgroup
180         \def\noexpand\x{\expandafter\@firstofone\x\@empty}}%
181     }%
182   \x
```

Now macro `\x` contains the citation label name.

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

Initialization, fill in the first entry.

```
184     \expandafter\protected@xdef\csname br@\x\endcsname{%
185       \protect\backrefxxx#2%
186     }%
187     \global\expandafter\let\csname brl@\x\expandafter\endcsname
188       \csname br@\x\endcsname
189     \global\expandafter\let\csname brld@\x\expandafter\endcsname
190       \csname br@\x\endcsname
191     \expandafter\gdef\csname brc@\x\endcsname{1}%
192     \expandafter\gdef\csname brcd@\x\endcsname{1}%
193   \else
```

Fill in further entry. But check for dupe first.

```
194     \begingroup
195     \@ifundefined{backrefxxxdupe}{\let\backrefxxx\backrefxxxdupe}%
196     \expandafter\def\expandafter\reserved@a\expandafter{%
197       \backrefxxx#2%
198     }%
199     \let\BRorg@backrefxxx\backrefxxx
200     \global\let\BR@found=N%
201     \long\def\backrefxxx##1##2##3{%
202       \expandafter\def\expandafter\reserved@b\expandafter{%
203         \BRorg@backrefxxx{##1}{##2}{##3}%
204       }%
205       \ifx\reserved@a\reserved@b
206         \global\let\BR@found=Y%
207       \fi
208     }%
209     \setbox\@tempboxa\hbox{\csname br@\x\endcsname}%
210   \endgroup
211   \let\backrefsep\relax
212   \def\backreftwosep{\backrefsep}%
```

```

213 \def\backreflastsep{\backrefsep}%
214 \if N\BR@found
215 \expandafter\protected@xdef\csname br@\x\endcsname{%
216 \csname br@\x\endcsname, %
217 \protect\backrefxxx#2%
218 }%
219 \expandafter\protected@xdef\csname brl@\x\endcsname{%
220 \csname brl@\x\endcsname
221 \ifnum\@nameuse{brc@\x}=1 %
222 \noexpand\backreftwosep
223 \else
224 \noexpand\backreflastsep
225 \fi
226 \protect\backrefxxx#2%
227 }%
228 \count@=\@nameuse{brc@\x}\relax
229 \advance\count@ by 1 %
230 \expandafter\xdef\csname brc@\x\endcsname{\the\count@}%
231 \fi
232 \expandafter\protected@xdef\csname brld@\x\endcsname{%
233 \csname brld@\x\endcsname
234 \ifnum\@nameuse{brcd@\x}=1 %
235 \noexpand\backreftwosep
236 \else
237 \noexpand\backreflastsep
238 \fi
239 \protect\backrefxxx#2%
240 }%
241 \count@=\@nameuse{brcd@\x}\relax
242 \advance\count@ by 1 %
243 \expandafter\xdef\csname brcd@\x\endcsname{\the\count@}%
244 \fi
245 }%
246 }

```

### 3.5 Initialization

```

247 \def\@currentHref{}
248 \AtBeginDocument{%
249 \let\BRorg@bibitem\bibitem
250 \let\bibitem\BR@bibitem
251 \let\BRorg@thebibliography\thebibliography
252 \def\thebibliography{%
253 \BR@starttoc
254 \BRorg@thebibliography
255 }%
256 \ifundefined{NAT@parse}{%
257 \global\let\BRorg@citex\@citex
258 \global\let\@citex\BR@citex
259 }{%
260 \ifpackageloaded{hyperref}{%}{%
261 \def\hyper@natlinkstart#1{\Hy@backout{#1}}%
262 }%
263 \PackageInfo{backref}{** backref set up for natbib **}%
264 }%
265 }

```

\BR@starttoc

```

266 \def\BR@starttoc{%
267   \begingroup
268     \makeatletter
269     \@input{\jobname.brf}%
270     \if@filesw
271       \@ifundefined{tf@brf}{%
272         \expandafter\newwrite\csname tf@brf\endcsname
273       }{}%
274       \@ifundefined{tf@brf@open}{%
275         \BR@RerunFileCheck
276         \immediate\openout\csname tf@brf\endcsname\jobname.brf\relax
277         \gdef\tf@brf@open{%
278           }{}%
279         \fi
280         \nobreakfalse
281       \endgroup
282 }

```

### 3.6 Collecting back cite informations

\BR@citex

```

283 \def\BR@citex[#1]#2{%
284   \BRorg@citex[{#1}]{#2}%
285   \ifBR@verbose
286     \PackageInfo{backref}{back cite \string'#2\string'}%
287   \fi
288   \Hy@backout{#2}%
289 }

```

Grr. for chicago.sty

```

290 \@ifpackageloaded{chicago}{%
291   \let\BRorg@citedatax\@citedatax
292   \def\@citedatax[#1]#2{%
293     \BRorg@citedatax[{#1}]{#2}%
294     \Hy@backout{#2}%
295   }%
296 }{}

```

\Hy@backout

```

297 \def\Hy@backout#1{%
298   \@bsphack
299   \ifx\@empty\@currentlabel
300     \protected@write\@auxout{}{%
301       \string\@writefile{brf}{%
302         \string\backcite{#1}{\thepage}{(document)}{Doc-Start}}%
303     }%
304   }%
305   \else
306     \protected@write\@auxout{}{%
307       \string\@writefile{brf}{%
308         \string\backcite{#1}{\thepage}{\@currentlabel}{\@currentHref}}%
309     }%
310   }%
311   \fi
312   \@esphack
313 }

```

### 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).

```

314 \RequirePackage{rerunfilecheck}[2009/12/10]
315 \def\BR@RerunFileCheck{%
316   \RerunFileCheck{\jobname.brf}{%
317     \ifundefined{tf@brf@open}{%
318       }{%
319         \immediate\closeout{tf@brf
320       }%
321     }{%
322       Rerun to get bibliographicls references right%
323     }%
324 }
325 \</package>

```

## 4 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.

Symbols			
\'	49, 56	\_	14, 18
\@auxout	300, 306		
\@bsphack	298	<b>A</b>	
\@citedatax	291, 292	\advance	229, 242
\@citex	257, 258	\AtBeginDocument	248
\@currentHref	247, 308	<b>B</b>	
\@currentlabel	299, 308	\backcite	175, 302, 308
\@ehc	155	\backref	14, 18, 22, 25, 165
\@empty	73, 180, 299	\backrefafrikaans	62
\@esphack	312	\backrefalt	166, 174
\@firstofone	180	\backrefbrazil	55
\@for	176	\backrefenglish	27, 118
\@ifnextchar	125, 128	\backreffrench	41
\@ifpackageloaded	260, 290	\backrefgerman	34
\@ifundefined	3, 173, 195, 256, 271, 274, 317	\backreflastsep	32, 39, 46, 53, 60, 67, 213, 224, 237
\@input	269	\backrefpagesname	14, 28, 35, 42, 49, 56, 63
\@nameuse	221, 228, 234, 241	\backrefparscanfalse	3, 154
\@nobreakfalse	280	\backrefparscantrue	3, 122
\@tempboxa	209	\backrefprint	133, 138, 150, 157
\@temptokena	71, 76, 79, 81	\BR@bibitem	123, 250
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