

# Section name references in L<sup>A</sup>T<sub>E</sub>X<sup>\*</sup>

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## Documentation overview for hyperref

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

**Manual** The user documentation is also available as HTML.

**README** 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.

**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 (this file).

**backref.dtx** “Back referencing from bibliographical citations”

**nameref.dtx** “Section name references in L<sup>A</sup>T<sub>E</sub>X”

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<sup>\*</sup>This file has version number v2.31, last revised 2007/05/29.

## 1 Introduction

Cross-referencing to include the *name* of the section, rather than just the number or page. This works by redefining some of the inside L<sup>A</sup>T<sub>E</sub>X macros, so it is vulnerable to future changes.

## 2 History

Sebastian Rahtz, for Lou Burnard, March 15th 1994;  
 SPQR CERN July 1994;  
 Last mod. Sept. 3th MG;  
 Sept. 19th SPQR;  
 April 11th 1995 SPQR (added section formatting hook);  
 April 14th 1995 SPQR (compatibility with hyperref);  
 June 22 1995 SPQR (removed typeout from Sectionformat);  
 September 22 1997 added varioref hacks by Corey Minyard;  
 September 28th changes by David Carlisle.  
 More recent changes are recorded in ChangeLog.

## 3 Implementation

```
1 <*package>
2 \RequirePackage{refcount}[2006/02/12]
```

We redefine `\label` so that it also writes the name of the current section to the .aux file; if the name ends in a dot, we zap it. To allow for the hyperref package, also write fourth and fifth fields (empty by default; used for cross-ref name, and file).

```
3 \def\strip@period#1.\relax#2\@@@{#1}
```

### 3.1 `\label` stuff

Here is tested, whether package showkeys is loaded. But if option final is used, the macros of showkeys are not defined, so we have to check an additional test.

```
4 \newif\ifNR@showkeys
5 \NR@showkeysfalse
6 \@ifpackageloaded{showkeys}{%
7   \begingroup
8     \@ifundefined{SK@@label}{%
9       }{%
10        \global\NR@showkeystrue
11      }%
12   \endgroup
13 }{}

14 \def\label#1{%
15   \@bsphack
16   \begingroup
17     \@onelevel@sanitize\@currentlabelname
18     \edef\@currentlabelname{%
19       \expandafter\strip@period\@currentlabelname\relax.\relax\@@@%
20     }%
```

```

21 \protected@write\@auxout{}\{%
22 \string\newlabel{#1}\{%
23 {\@currentlabel}%
24 {\thepage}%
25 {\@currentlabelname}%
26 {\@currentHref}\}%
27 }%
28 }%
29 \endgroup
30 \esphack
31 }%
32 \ifNR@showkeys
33 \def\label#1{%
34 \bsphack
35 \SK@SK@@label{#1}%
36 \begingroup
37 \@onelevel@sanitize\@currentlabelname
38 \edef\@currentlabelname{%
39 \expandafter\strip@period\@currentlabelname\relax.\relax\@@@%
40 }%
41 \protected@write\@auxout{}\{%
42 \string\newlabel{#1}\{%
43 {\@currentlabel}%
44 {\thepage}%
45 {\@currentlabelname}%
46 {\@currentHref}\}%
47 }%
48 }%
49 \endgroup
50 \esphack
51 }%
52 \fi
53 \let\ltx@label\label

```

Needed for the *subeqnarray* package.

```

54 \@ifundefined{slabel}\{\}%
55 \def\slabel#1{%
56 \bsphack
57 \if@filesw
58 {%
59 \@onelevel@sanitize\@currentlabelname
60 \edef\@currentlabelname{%
61 \expandafter\strip@period\@currentlabelname\relax.\relax\@@@%
62 }%
63 \let\thepage\relax
64 \def\protect{\noexpand\noexpand\noexpand}%
65 \edef\@tempa{%
66 \write\@auxout{%
67 \string\newlabel{#1}\{%
68 {\thesubequation}%
69 {\thepage}%
70 {\@currentlabelname}%
71 {\@currentHref}\}%
72 }%
73 }%
74 }%
75 \expandafter

```

```

76     }%
77     \@tempa
78     \if@nobreak\ifvmode\nobreak\fi\fi
79     \fi
80     \@esphack
81 }%
82 }

```

Overload an AMS L<sup>A</sup>T<sub>E</sub>X command, which uses `\newlabel`. Sigh!

```

83 \def\@writetocindent@{%
84   \begingroup
85   \@for\@tempa:=-1,0,1,2,3\do{%
86     \immediate\write\@auxout{%
87       \string\newlabel{tocindent\@tempa}{%
88         \csname r@tocindent\@tempa\endcsname}{-}{-}{-}%
89     }%
90   }%
91 }%
92 \endgroup
93 }

```

## 3.2 Changes of section macros

Add to the underlying section heading macros so that they note the section name for use by label.

If a section heading or the like has a `\label` in it, we need to extract it, or subsequent processing breaks. This is done by the label-writing routine.

First the numbered sections. While we are about it, put in a useful section formatting macro.

```

94 \let\NR@ssect\@ssect
95 \newcounter{section@level}
96 \def\@sect#1#2#3#4#5#6[#7]#8{%
97   \setcounter{section@level}{#2}%
98   \def\@currentlabelname{#7}%
99   \NR@ssect{#1}{#2}{#3}{#4}{#5}{#6}[#7]{\Sectionformat{#8}{#2}}%
100 }

```

and now the unnumbered ones

```

101 \let\NR@ssect\@ssect
102 \def\@ssect#1#2#3#4#5{%
103   \def\@currentlabelname{#5}%
104   \NR@ssect{#1}{#2}{#3}{#4}{\Sectionformat{#5}{#1}}%
105 }

```

Parts and chapters are treated differently. sigh.

```

106 \let\NR@part\@part
107 \def\@part[#1]#2{%
108   \def\@currentlabelname{#1}%
109   \NR@part[#1]{#2}%
110 }
111 \let\NR@chapter\@chapter
112 \def\@chapter[#1]#2{%
113   \def\@currentlabelname{#1}%
114   \NR@chapter[#1]{#2}%
115 }
116 \let\NR@schapter\@schapter
117 \def\@schapter#1{%
118   \def\@currentlabelname{#1}%

```

```

119 \NR@schapter{#1}%
120 }

Captions

121 \let\NR@@caption\@caption
122 \long\def\@caption#1[#2]{%
123   \def\@currentlabelname{#2}%
124   \NR@@caption{#1}[{#2}]%
125 }

126 \AtBeginDocument{%
127   \@ifpackageloaded{longtable}{%
128     \let\NRorgLT@c@ption\LT@c@ption
129     \def\LT@c@ption#1[#2]#3{%
130       \NRorgLT@c@ption{#1}[{#2}]{#3}%
131       \def\@tempa{#2}%
132       \ifx\@tempa\@empty
133         \else
134           \def\@currentlabelname{#2}%
135         \fi
136       }%
137     }{}%
138 }

```

Compatibility for package titlesec.

```

139 \AtBeginDocument{%
140   \@ifpackageloaded{titlesec}{%
141     \let\NRorg@ttl@sect@i\ttl@sect@i
142     \def\ttl@sect@i#1#2[#3]#4{%
143       \def\@currentlabelname{#4}%
144       \NRorg@ttl@sect@i{#1}{#2}[{#3}]{#4}%
145     }%
146   }{}%
147 }

```

### 3.2.1 Class beamer

```

148 \@ifclassloaded{beamer}{%
149   \def\NR@PatchBeamer#1{%
150     \expandafter\let\csname NRorg@beamer@#1\expandafter\endcsname
151       \csname beamer@#1\endcsname
152     \begingroup
153     \edef\x{\endgroup
154       \long\def\expandafter\noexpand\csname beamer@#1\endcsname[####1]{% hash-ok
155         \def\noexpand\@currentlabelname{####1}%
156         \expandafter\noexpand\csname NRorg@beamer@#1\endcsname[####1]%
157       }%
158     }%
159     \x
160   }%
161   \NR@PatchBeamer{section}%
162   \NR@PatchBeamer{subsection}%
163   \NR@PatchBeamer{subsubsection}%
164 }{}

```

## 3.3 Referencing stuff

We default the label and hypertext reference to be empty.

```

165 \def\@currentlabelname{}

```

```
166 \def\@currentHref{}
```

Since the second part of the preserved reference now has five parts (number, page, name, hypertext reference and file), we need extra utility macros:

```
167 \long\def\@firstoffive#1#2#3#4#5{#1}
168 \long\def\@secondoffive#1#2#3#4#5{#2}
169 \long\def\@thirdoffive#1#2#3#4#5{#3}
170 \long\def\@fourthoffive#1#2#3#4#5{#4}
171 \long\def\@fifthoffive#1#2#3#4#5{#5}
```

We have to redefine `\ref` and `\pageref` to know about extra reference elements. Make them robust, and compatible with Babel. The Babel switch is mimicked if not already defined. Some support for package `showkeys` is implemented. If option `notref` of that package is set, `\SK@ref` has the meaning of `\@empty`.

```
172 \providecommand*\@safe@activestruetrue{}%
173 \providecommand*\@safe@activesfalse{}%
174 \def\NR@setref#1{%
175   \begingroup
176     \@safe@activestruetrue
177     \expandafter
178     \endgroup
179     \expandafter\NR@@setref\csname r@#1\endcsname
180 }
181 \def\NR@@setref#1{%
182   \ifx\@undefined#1%
183     \let#1\relax
184   \fi
185   \@setref#1%
186 }
187 \def\T@ref#1{%
188   \NR@setref{#1}\@firstoffive{#1}%
189 }%
190 \def\T@pageref#1{%
191   \NR@setref{#1}\@secondoffive{#1}%
192 }%
193 \ifNR@showkeys
194   \ifx\SK@ref\@empty
195     \else
196       \def\T@ref#1{%
197         \@safe@activestruetrue
198         \SK@\SK@@ref{#1}%
199         \@safe@activesfalse
200         \NR@setref{#1}\@firstoffive{#1}%
201       }%
202       \def\T@pageref#1{%
203         \@safe@activestruetrue
204         \SK@\SK@@ref{#1}%
205         \@safe@activesfalse
206         \NR@setref{#1}\@secondoffive{#1}%
207       }%
208     \fi
209 \fi
```

Package `hyperref` uses its own definitions of `\ref` and `\pageref` because it extends the syntax by the star form. `\DeclareRobustCommand` is used by `hyperref`. Package `nameref` can be loaded before, after `hyperref` or after `hyperref`'s definitions in `\AtBeginDocument`.

```
210 \ifpackageloaded{hyperref}{%
```

```

211 }{%
212   \DeclareRobustCommand{\ref}{\T@ref}%
213   \DeclareRobustCommand{\pageref}{\T@pageref}%
214 }

```

### 3.4 Usage and frontend

Access the (third) name part with \nameref;

```

215 \def\T@nameref#1{%
216   \begingroup
217     \let\label\@gobble
218     \NR@setref{#1}\@thirdoffive{#1}%
219   \endgroup
220 }%
221 \ifNR@showkeys
222   \ifx\SK@ref\@empty
223   \else
224     \def\T@nameref#1{%
225       \@safe@activetrue
226       \SK@\SK@@ref{#1}%
227       \@safe@activesfalse
228       \begingroup
229         \let\label\@gobble
230         \NR@setref{#1}\@thirdoffive{#1}%
231       \endgroup
232     }%
233   \fi
234 \fi
235 \def\nameref{\protect\T@nameref}

```

An extended form which gives title and page number.

```

236 \def\Nameref#1{'\nameref{#1}' on page~\pageref{#1}}

```

The default for \Sectionformat

```

237 \providecommand\Sectionformat[2]{#1}

```

### 3.5 Package ifthen support

Package ifthen's \isodd does not work with \pageref because of the extra link and the star form. Therefore we need an expandable variant.

Unfortunately there is no hook in \ifthenelse in order to provide expandable versions without link of \ref and \pageref. As possible target I could only find \begingroup:

```

238 \@ifpackageloaded{ifthen}{%
239   \let\NR@Org@ifthenelse@ifthenelse
240   \def@ifthenelse{%
241     \let\begingroup\NR@TE@begingroup
242     \NR@Org@ifthenelse
243   }%
244   \let\NR@Org@begingroup\begingroup
245   \def\NR@TE@begingroup{%
246     \let\begingroup\NR@Org@begingroup
247     \begingroup
248     \def\ref##1{\getrefbykeydefault{##1}{\{}}{??}}%
249     \def\pageref##1{\getrefbykeydefault{##1}{\{page\}{0}}}%
250   }%
251 }{}

```

### 3.6 Compatibility with varioref

[This section was derived by Corey Minyard [minyard@acm.org](mailto:minyard@acm.org) from the varioref package]

```

252 \AtBeginDocument{%
253   \ifx\csname @@vpageref\endcsname\relax
254   \else
255     \def\@@vpageref#1[#2]#3{%
256       \begingroup
257         \csname @safe@activetrue\endcsname
258         \edef\x{#3}%
259         \@onelevel@sanitize\x
260         \toks@{%
261           \NR@@vpageref{#1}[{#2}]%
262         }%
263         \edef\x{\endgroup
264           \the\toks@\x}%
265       }%
266     \x
267   }%
268   \def\NR@@vpageref#1[#2]#3{%
269     \leavevmode\unskip
270     \global\advance\c@vrcnt\@ne
271     \@ifundefined{r@the\c@vrcnt @vr}%
272       {\@namedef{r@the\c@vrcnt @vr}{??}{??}{-}{-}}{}%
273     \edef\@tempa{%
274       \expandafter\expandafter\expandafter
275       \@secondoffive\csname r@the\c@vrcnt @vr\endcsname
276     }%
277     \@ifundefined{r@the\c@vrcnt @xvr}%
278       {\@namedef{r@the\c@vrcnt @xvr}{??}{??}{-}{-}}{}%
279     \edef\@tempb{%
280       \expandafter\expandafter\expandafter
281       \@secondoffive\csname r@the\c@vrcnt @xvr\endcsname
282     }%
283     {%
284       \let\@currentlabel\@empty
285       \expandafter\label\expandafter{\the\c@vrcnt @xvr}%
286     }%
287     \ifx\@tempa\@tempb
288     \else
289       \vref@err{%
290         \noexpand\vref at page boundary %
291         \@tempb-\@tempa\space (may loop)%
292       }%
293     \fi
294     \@ifundefined{r@#3}{\@namedef{r@#3}{??}{??}{-}{-}}{}%
295     \edef\thevpagerefnum{%
296       \expandafter\expandafter\expandafter
297       \@secondoffive\csname r@#3\endcsname
298     }%
299     \ifx\vref@space\@undefined
300       \space
301     \else
302       \vref@space
303     \fi
304     \ifx\@tempa\thevpagerefnum

```



```

305     #1%
306 \else
307     #2%
308     \is@pos@number\thevpagerefnum{%
309         \is@pos@number\@tempa{%
310             \@tempcnta\@tempa
311             \advance\@tempcnta\@ne
312         }{%
313             \@tempcnta\maxdimen
314         }%
315         \ifnum \thevpagerefnum =\@tempcnta
316             \ifodd\@tempcnta
317                 \if@twoside
318                     \reftextfaceafter
319                 \else
320                     \reftextafter
321                 \fi
322             \else
323                 \reftextafter
324             \fi
325         \else
326             \advance\@tempcnta-2 %
327             \ifnum \thevpagerefnum =\@tempcnta
328                 \ifodd\@tempcnta
329                     \reftextbefore
330                 \else
331                     \if@twoside
332                         \reftextfacebefore
333                     \else
334                         \reftextbefore
335                     \fi
336                 \fi
337             \else
338                 \reftextfaraway{#3}%
339             \fi
340         \fi
341     }{%
342         \reftextfaraway{#3}%
343     }%
344 \fi
345 {%
346     \let\@currentlabel\@empty
347     \expandafter\label\expandafter{\the\c@vrcnt @vr}%
348 }%
349 }%
350 \DeclareRobustCommand\vnameref[1]{%
351     \unskip~\nameref{#1}%
352     \@vpageref[\unskip]{#1}%
353 }%
354 \fi
355 }

356 \@ifundefined{@Refstar}{%
357     \def\T@Ref#1{%
358         \NR@setref{#1}\NR@MakeUppercaseFirstOfFive{#1}%
359     }%
360     \def\NR@MakeUppercaseFirstOfFive#1#2#3#4#5{%
361         \MakeUppercase#1%

```

```

362 }%
363 }{}%
364 \AtBeginDocument{%
365   \@ifpackageloaded{varioref}{%
366     \ifundefined{@Refstar}{%
367       \DeclareRobustCommand*{\Ref}[1]{%
368         \T@Ref{#1}%
369       }%
370     }{}%
371   }{}%
372 }%

```

### 3.7 Support for listings

```

373 \AtBeginDocument{%
374   \@ifpackageloaded{listings}{%
375     \let\NR@Org@lst@MakeCaption\lst@MakeCaption
376     \def\lst@MakeCaption{%
377       \ifx\lst@label\@empty
378       \else
379         \let\@currentlabelname\lst@@caption
380       \fi
381       \NR@Org@lst@MakeCaption
382     }%
383   }{}%
384 }
385 \end{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.

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