

# 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 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 EuroT<sub>E</sub>X 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”

## Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
<b>2</b>	<b>History</b>	<b>2</b>
<b>3</b>	<b>Implementation</b>	<b>2</b>
3.1	\label stuff . . . . .	2
3.2	Changes of section macros . . . . .	4
3.2.1	Class beamer . . . . .	5
3.3	Referencing stuff . . . . .	6
3.4	Usage and frontend . . . . .	7
3.5	Package ifthen support . . . . .	7
3.6	Compatibility with varioref . . . . .	8
3.7	Support for listings . . . . .	10

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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\NRorg@LT@c@ption\LT@c@ption
129     \def\LT@c@ption#1[#2]#3{%
130       \NRorg@LT@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
155           [####1]{% hash-ok
156             \def\@currentlabelname{####1}%
157             \expandafter\@currentlabelname\csname NRorg@beamer@#1\endcsname
158             [{####1}]%
159           }%
160         }%
161       \x
162     }%
163     \NR@PatchBeamer{section}%
164     \NR@PatchBeamer{subsection}%
165     \NR@PatchBeamer{subsubsection}%
166   }{}

```

### 3.3 Referencing stuff

We default the label and hypertext reference to be empty.

```
167 \def\@currentlabelname{}
168 \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:

```
169 \long\def\@firstoffive#1#2#3#4#5{#1}
170 \long\def\@secondoffive#1#2#3#4#5{#2}
171 \long\def\@thirdoffive#1#2#3#4#5{#3}
172 \long\def\@fourthoffive#1#2#3#4#5{#4}
173 \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`.

```
174 \providecommand*\@safe@activetrue{}%
175 \providecommand*\@safe@activesfalse{}%
176 \def\NR@setref#1{%
177   \begingroup
178     \@safe@activetrue
179     \expandafter
180   \endgroup
181   \expandafter\NR@@setref\csname r@#1\endcsname
182 }
183 \def\NR@@setref#1{%
184   \ifx\@undefined#1%
185     \let#1\relax
186   \fi
187   \@setref#1%
188 }
189 \def\T@ref#1{%
190   \NR@setref{#1}\@firstoffive{#1}%
191 }%
192 \def\T@pageref#1{%
193   \NR@setref{#1}\@secondoffive{#1}%
194 }%
195 \ifNR@showkeys
196   \ifx\SK@ref\@empty
197   \else
198     \def\T@ref#1{%
199       \@safe@activetrue
200       \SK@\SK@@ref{#1}%
201       \@safe@activesfalse
202       \NR@setref{#1}\@firstoffive{#1}%
203     }%
204     \def\T@pageref#1{%
205       \@safe@activetrue
206       \SK@\SK@@ref{#1}%
207       \@safe@activesfalse
208       \NR@setref{#1}\@secondoffive{#1}%
209     }%
210   \fi
211 \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`.

```

212 \@ifpackageloaded{hyperref}{%
213 }{%
214   \DeclareRobustCommand{\ref}{\T@ref}%
215   \DeclareRobustCommand{\pageref}{\T@pageref}%
216 }

```

### 3.4 Usage and frontend

Access the (third) name part with `\nameref`;

```

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

```

An extended form which gives title and page number.

```

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

```

The default for `\Sectionformat`

```

239 \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`:

```

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

```

```

251 \def\pageref##1{\getrefbykeydefault{##1}{page}{0}}%
252 }%
253 {}

```

### 3.6 Compatibility with varioref

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

```

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

```



```

303 \else
304 \vref@space
305 \fi
306 \ifx\@tempa\thevpagerefnum
307 #1%
308 \else
309 #2%
310 \is@pos@number\thevpagerefnum{%
311 \is@pos@number\@tempa{%
312 \@tempcnta\@tempa
313 \advance\@tempcnta\@ne
314 }{%
315 \@tempcnta\maxdimen
316 }%
317 \ifnum \thevpagerefnum =\@tempcnta
318 \ifodd\@tempcnta
319 \if@twoside
320 \reftextfaceafter
321 \else
322 \reftextafter
323 \fi
324 \else
325 \reftextafter
326 \fi
327 \else
328 \advance\@tempcnta-2 %
329 \ifnum \thevpagerefnum =\@tempcnta
330 \ifodd\@tempcnta
331 \reftextbefore
332 \else
333 \if@twoside
334 \reftextfacebefore
335 \else
336 \reftextbefore
337 \fi
338 \fi
339 \else
340 \reftextfaraway{#3}%
341 \fi
342 \fi
343 }{%
344 \reftextfaraway{#3}%
345 }%
346 \fi
347 {%
348 \let\@currentlabel\@empty
349 \expandafter\label\expandafter{\the\c@vrcnt @vr}%
350 }%
351 }%
352 \DeclareRobustCommand\vnameref[1]{%
353 \unskip~\nameref{#1}%
354 \@vpageref[\unskip]{#1}%
355 }%
356 \fi
357 }

358 \ifundefined{@Refstar}{%
359 \def\T@Ref#1{%

```

```

360 \NR@setref{#1}\NR@MakeUppercaseFirstOfFive{#1}%
361 }%
362 \def\NR@MakeUppercaseFirstOfFive#1#2#3#4#5{%
363 \MakeUppercase#1%
364 }%
365 }{}%
366 \AtBeginDocument{%
367 \ifpackageloaded{varioref}{%
368 \ifundefined{@Refstar}{%
369 \DeclareRobustCommand*\Ref}[1]{%
370 \T@Ref{#1}%
371 }%
372 }{}%
373 }{}%
374 }%

```

### 3.7 Support for listings

```

375 \AtBeginDocument{%
376 \ifpackageloaded{listings}{%
377 \let\NR@Org@lst@MakeCaption\lst@MakeCaption
378 \def\lst@MakeCaption{%
379 \ifx\lst@label\@empty
380 \else
381 \let\@currentlabelname\lst@@caption
382 \fi
383 \NR@Org@lst@MakeCaption
384 }%
385 }{}%
386 }
387 </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	118, 123, 134,	279, 296, 358, 368
\@@@ . . . . .	3, 19, 39, 61	143, 156, 167, 381
\@@vpageref . . . . .	257	\@namedef . 274, 280, 296
\@auxout . . . . .	21, 41, 66, 86	\@empty . . . 132, 196,
\@bsphack . . . . .	15, 34, 56	224, 286, 348, 379
\@caption . . . . .	121, 122	\@esphack . . . 30, 50, 80
\@chapter . . . . .	111, 112	\@fifthoffive . . . . . 173
\@currentHref . . . . .	26, 46, 71, 168	\@firstoffive . . . . .
\@currentlabel . . . . .	23, 43, 286, 348	169, 190, 202
\@currentlabelname . . . . .	17,	\@for . . . . . 85
18, 19, 25, 37,		\@fourthoffive . . . . . 172
38, 39, 45, 59,		\@gobble . . . . . 219, 231
60, 61, 70, 98,		\@ifclassloaded . . . 148
103, 108, 113,		\@ifpackageloaded . . . . .
		6, 127, 140,
		212, 240, 367, 376
		\@ifundefined . . . . .
		8, 54, 273,
		\@onelevel@sanitize . . . . . 17, 37, 59, 261
		\@part . . . . . 106, 107
		\@safe@activesfalse . . . . . 175, 201, 207, 229
		\@safe@activetrue . . . . . 174,
		178, 199, 205, 227
		\@schapter . . . . . 116, 117
		\@secondoffive . . . . .
		170, 193,
		208, 277, 283, 299
		\@sect . . . . . 94, 96
		\@setref . . . . . 187

<code>\@ssect</code> . . . . .	101, 102	60, 65, 153, 260,	243, 246, 248,
<code>\@tempa</code> . . . . .	65, 77,	265, 275, 281, 297	286, 348, 377, 381
	85, 87, 88, 131,	<code>\else</code> . . . . .	<code>\long</code> . . . . .
	132, 275, 289,	133,	122, 154, 169,
	293, 306, 311, 312	197, 225, 256,	170, 171, 172, 173
<code>\@tempb</code> . . . . .	281, 289, 293	290, 303, 308,	<code>\lst@caption</code> . . . . .
<code>\@tempcnta</code> . . . . .	312,	321, 324, 327,	<code>\lst@label</code> . . . . .
	313, 315, 317,	332, 335, 339, 380	<code>\lst@MakeCaption</code> . .
	318, 328, 329, 330	<code>\endcsname</code> . . . . .	377, 378
<code>\@thirdoffive</code> . . . . .		150, 151, 154,	<code>\LT@caption</code> . . . . .
	171, 220, 232	157, 181, 255,	<code>\ltx@label</code> . . . . .
<code>\@undefined</code> . . . . .	184, 301	259, 277, 283, 299	53
<code>\@vpageref</code> . . . . .	354	<code>\endgroup</code> . . . . .	M
<code>\@writetocindent</code> . . . . .	83	12,	<code>\MakeUppercase</code> . . . . .
		29, 49, 92, 153,	363
		180, 221, 233, 265	<code>\maxdimen</code> . . . . .
		<code>\expandafter</code> . . . . .	315
		. 19, 39, 61, 75,	N
<b>A</b>		150, 154, 157,	<code>\Nameref</code> . . . . .
<code>\advance</code> . . . . .	272, 313, 328	179, 181, 276,	238
<code>\AtBeginDocument</code> . . . . .	126,	282, 287, 298, 349	<code>\nameref</code> . . . . .
	139, 254, 366, 375		237, 238, 353
			<code>\newcounter</code> . . . . .
			95
			<code>\newif</code> . . . . .
			4
			<code>\newlabel</code> . . . . .
			22, 42, 67, 87
<b>B</b>			<code>\nobreak</code> . . . . .
<code>\begingroup</code> . . . . .	7, 16,		78
	36, 84, 152, 177,	<code>\fi</code> . . . . .	<code>\noexpand</code> . . . . .
	218, 230, 243,	52, 78, 79, 135,	64,
	246, 248, 249, 258	186, 210, 211,	154, 156, 157, 292
		235, 236, 295,	<code>\NR@caption</code> . . . . .
		305, 323, 326,	121, 124
		337, 338, 341,	<code>\NR@setref</code> . . . . .
		342, 346, 356, 382	181, 183
			<code>\NR@vpageref</code> . . . . .
			263, 270
			<code>\NR@chapter</code> . . . . .
			111, 114
<b>C</b>			<code>\NR@MakeUppercaseFirstOfFive</code>
<code>\c@vrcnt</code> . . . . .	272, 273,	<b>G</b>	360, 362
	274, 277, 279,	<code>\getrefbykeydefault</code>	
	280, 283, 287, 349	. . . . .	250, 251
<code>\csname</code> . . . . .	88,	<code>\global</code> . . . . .	10, 272
	150, 151, 154,		
	157, 181, 255,		
	259, 277, 283, 299		
		<b>I</b>	
		<code>\if@files</code> . . . . .	57
		<code>\if@nobreak</code> . . . . .	78
		<code>\if@twoside</code> . . . . .	319, 333
		<code>\ifNR@showkeys</code> . . . . .	4, 32, 195, 223
		<code>\ifnum</code> . . . . .	317, 329
		<code>\ifodd</code> . . . . .	318, 330
		<code>\ifthenelse</code> . . . . .	241, 242
		<code>\ifvmode</code> . . . . .	78
		<code>\ifx</code> . . . . .	132, 184,
			196, 224, 255,
			289, 301, 306, 379
		<code>\immediate</code> . . . . .	86
		<code>\is@pos@number</code> . . . . .	310, 311
		<b>L</b>	
		<code>\label</code> . . . . .	14, 33, 53,
			219, 231, 287, 349
		<code>\leavevmode</code> . . . . .	271
		<code>\let</code> . . . . .	53, 63, 94,
			101, 106, 111,
			116, 121, 128,
			141, 150, 185,
			219, 231, 241,
			<b>P</b>
			<code>\pageref</code> . . . . .
			215, 238, 251
			<code>\protect</code> . . . . .
			64, 237
			<code>\protected@write</code> . . . . .
			21, 41

<code>\providecommand</code> . . .	<code>\SK@@label</code> . . . . . 35	<code>\thevpagerefnum</code> 297,
. . . . 174, 175, 239	<code>\SK@@ref</code> . . 200, 206, 228	306, 310, 317, 329
<b>R</b>	<code>\SK@ref</code> . . . . . 196, 224	<code>\toks@</code> . . . . . 262, 266
<code>\Ref</code> . . . . . 369	<code>\slabel</code> . . . . . 55	<code>\ttl@sect@i</code> . . . 141, 142
<code>\ref</code> . . . . . 214, 250	<code>\space</code> . . . . . 293, 302	<b>U</b>
<code>\reftextafter</code> . 322, 325	<code>\string</code> . . 22, 42, 67, 87	<code>\unskip</code> . . . 271, 353, 354
<code>\reftextbefore</code> 331, 336	<code>\strip@period</code> . . . . .	
<code>\reftextfaceafter</code> . 320	. . . . . 3, 19, 39, 61	<b>V</b>
<code>\reftextfacebefore</code> . 334		<code>\vnameref</code> . . . . . 352
<code>\reftextfaraway</code> 340, 344	<b>T</b>	<code>\vref</code> . . . . . 292
<code>\relax</code> . . . . . 3, 19,	<code>\T@nameref</code> 217, 226, 237	<code>\vref@err</code> . . . . . 291
39, 61, 63, 185, 255	<code>\T@pageref</code> 192, 204, 215	<code>\vref@space</code> . . . 301, 304
<code>\RequirePackage</code> . . . . 2	<code>\T@Ref</code> . . . . . 359, 370	
<b>S</b>	<code>\T@ref</code> . . . . 189, 198, 214	<b>W</b>
<code>\Sectionformat</code> . . . .	<code>\the</code> . . . . . 266, 273,	<code>\write</code> . . . . . 66, 86
. . . . . 99, 104, 239	274, 277, 279,	
<code>\setcounter</code> . . . . . 97	280, 283, 287, 349	<b>X</b>
<code>\SK@</code> . . . 35, 200, 206, 228	<code>\thepage</code> . 24, 44, 63, 69	<code>\x</code> . . . 153, 161, 260,
	<code>\thesubequation</code> . . . 68	261, 265, 266, 268