

Section name references in L^AT_EX*

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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_EX 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”

☞ **nameref.dtx** “Section name references in L^AT_EX” (this file)

Contents

1 Introduction	2
2 History	2
3 Implementation	2
3.1 \label stuff	2
3.2 Changes of section macros	4
3.2.1 Class beamer	7
3.2.2 Theorems	7
3.3 Referencing stuff	7
3.4 Usage and frontend	9
3.5 Package ifthen support	9
3.6 Compatibility with varioref	10
3.7 Support for listings	12

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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 \LaTeX 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.

The versions before 2009/11/27 v2.32 did not expand the title strings (of `\section`, `\caption`, ...). Then the behaviour switched to expanding, because this allows to remove unwanted macros (`\label`, ...). Despite this method is used in package `titleref` and class `memoir`, the first feedbacks let me conclude that this is not robust enough. Therefore I wrote package `getttitlestring` that uses the non-expanding method as default. It also allows me to use this package in package `zref-titleref`. See the package documentation of package `getttitlestring` how to change the method. It also provides a hook to remove additional unwanted macros, not supported by the package. Example:

```
\usepackage{getttitlestring}
\GetTitleStringDisableCommands{%
  \let\mylabel\@gobble
  \renewcommand\myindex[2]{}%
}
```

3 Implementation

```
1 (*package)
2 \RequirePackage{refcount}[2006/02/12]
3 \RequirePackage{getttitlestring}[2009/12/18]
4 \RequirePackage{itxcmds}[2009/12/12]
```

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).

```
5 \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.

```

6 \newif\ifNR@showkeys
7 \NR@showkeysfalse
8 \@ifpackageloaded{showkeys}{%
9   \begingroup
10  \@ifundefined{SK@@label}{%
11    }{%
12    \global\NR@showkeystrue
13    }%
14  \endgroup
15 }{}

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

55 \let\ltx@label\label

```

Needed for the *subeqnarray* package.

```

56 \@ifundefined{slabel}{}{}%
57 \def\slabel#1{%
58   \@bspack
59   \if@filesw
60     {%

```

```

61 \onelevel@sanitize\@currentlabelname
62 \edef\@currentlabelname{%
63 \expandafter\strip@period\@currentlabelname\relax.\relax\@@@%
64 }%
65 \let\thepage\relax
66 \def\protect{\noexpand\noexpand\noexpand}%
67 \edef\@tempa{%
68 \write\@auxout{%
69 \string\newlabel{#1}{%
70 {\thesubequation}%
71 {\thepage}%
72 {\@currentlabelname}%
73 {\@currentHref}{}}%
74 }%
75 }%
76 }%
77 \expandafter
78 }%
79 \@tempa
80 \if@nobreak\ifvmode\nobreak\fi\fi
81 \fi
82 \esphack
83 }%
84 }

```

Overload an AMS L^AT_EX command, which uses `\newlabel`. Sigh!

```

85 \def\@writetocindent@{%
86 \begingroup
87 \@for\@tempa:=-1,0,1,2,3\do{%
88 \immediate\write\@auxout{%
89 \string\newlabel{tocindent\@tempa}{%
90 \csname r@tocindent\@tempa\endcsname}{}}}%
91 }%
92 }%
93 }%
94 \endgroup
95 }

```

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.

```

96 \def\NR@getttitle#1{%
97 \GetTitleString{#1}%
98 \let\@currentlabelname\GetTitleStringResult
99 }

```

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

```

100 \let\NR@sect\@sect
101 \newcounter{section@level}
102 \def\@sect#1#2#3#4#5#6[#7]#8{%
103 \setcounter{section@level}{#2}%
104 \NR@getttitle{#7}%
105 \NR@sect{#1}{#2}{#3}{#4}{#5}{#6}{#7}{\Sectionformat{#8}{#2}}%

```

```

106 }
and now the unnumbered ones
107 \let\NR@ssect\@ssect
108 \def\@ssect#1#2#3#4#5{%
109 \NR@getttitle{#5}%
110 \NR@ssect{#1}{#2}{#3}{#4}{\Sectionformat{#5}{#1}}%
111 }

```

Support for class memoir.

```

112 \ltx@ifundefined{ifheadnameref}{%
113 }{%
114 \ltx@ifundefined{M@ssect}{%
115 }{%
116 \let\NRorg@M@ssect\M@ssect
117 \def\M@ssect#1#2#3#4#5#6[#7][#8]{%
118 \ifheadnameref
119 \NR@getttitle{#8}%
120 \else
121 \NR@getttitle{#7}%
122 \fi
123 \NRorg@M@ssect{#1}{#2}{#3}{#4}{#5}{#6}[#7][#8]}%
124 }%
125 }%
126 }

```

Parts and chapters are treated differently. sigh. \@part and \@spart are \long because of class memoir.

```

127 \let\NR@part\@part
128 \long\def\@part[#1]#2{%
129 \NR@getttitle{#1}%
130 \NR@part[#1]{#2}%
131 }
132 \let\NR@spart\@spart
133 \long\def\@spart#1{%
134 \NR@getttitle{#1}%
135 \NR@spart{#1}%
136 }
137 \let\NR@chapter\@chapter
138 \def\@chapter[#1]#2{%
139 \NR@getttitle{#1}%
140 \NR@chapter[#1]{#2}%
141 }
142 \ifclassloaded{memoir}{%
143 \ltx@ifundefined{ifheadnameref}{%
144 }{%
145 \def\@chapter[#1]#2{%
146 \ltx@ifundefined{ch@pt@c}{%
147 \NR@getttitle{#1}%
148 }{%
149 \ifx\ch@pt@c\ltx@empty
150 \NR@getttitle{#2}%
151 \else
152 \def\NR@temp{#1}%
153 \ifx\NR@temp\ltx@empty
154 \expandafter\NR@getttitle\expandafter{\ch@pt@c}%
155 \else
156 \ifheadnameref

```

```

157         \NR@gettitle{#1}%
158     \else
159         \expandafter\NR@gettitle\expandafter{\ch@pt@c}%
160     \fi
161 \fi
162 \fi
163 }%
164 \NR@chapter{#1}{#2}%
165 }%
166 }%
167 }{}
168 \let\NR@schapter\@schapter
169 \def\@schapter#1{%
170     \NR@gettitle{#1}%
171     \NR@schapter{#1}%
172 }

```

Captions

```

173 \AtBeginDocument{%
174     \@ifpackageloaded{hyperref}{%
175         \@ifpackagelater{hyperref}{2009/12/05}\@gobble\@firstofone
176     }\@firstofone
177     {%
178         \let\NR@@caption\@caption
179         \long\def\@caption#1[#2]{%
180             \NR@gettitle{#2}%
181             \NR@@caption{#1}[{#2}]%
182         }%
183     }%
184 \@ifpackageloaded{longtable}{%
185     \let\NRorg@LT@c@ption\LT@c@ption
186     \def\LT@c@ption#1[#2]#3{%
187         \NRorg@LT@c@ption{#1}[{#2}]{#3}%
188         \def\@tempa{#2}%
189         \ifx\@tempa\@empty
190             \else
191                 \NR@gettitle{#2}%
192             \fi
193         }%
194     }{}%

```

Environment 'description'.

```

195 \ltx@ifundefined{descriptionlabel}{%
196 }{%
197     \let\NRorg@descriptionlabel\descriptionlabel
198     \def\descriptionlabel#1{%
199         \NR@gettitle{#1}%
200         \NRorg@descriptionlabel{#1}%
201     }%
202 }%
203 }

```

Compatibility for package titlesec.

```

204 \AtBeginDocument{%
205     \@ifpackageloaded{titlesec}{%
206         \let\NRorg@ttl@sect@i\ttl@sect@i
207         \def\ttl@sect@i#1#2[#3]#4{%
208             \NR@gettitle{#4}%

```

```

209 \NRorg@ttl@sect@i{#1}{#2}[{#3}]{#4}%
210 }%
211 }{}%
212 }

```

3.2.1 Class beamer

```

213 \ifclassloaded{beamer}{%
214 \def\NR@PatchBeamer#1{%
215 \expandafter\let\csname NRorg@beamer@#1\expandafter\endcsname
216 \csname beamer@#1\endcsname
217 \begingroup
218 \edef\x{\endgroup
219 \long\def\expandafter\noexpand\csname beamer@#1\endcsname
220 [####1]{% hash-ok
221 \noexpand\NR@getttitle{####1}%
222 \expandafter\noexpand\csname NRorg@beamer@#1\endcsname
223 [{####1]}%
224 }%
225 }%
226 \x
227 }%
228 \NR@PatchBeamer{section}%
229 \NR@PatchBeamer{subsection}%
230 \NR@PatchBeamer{subsubsection}%
231 }{}

```

3.2.2 Theorems

```

232 \ltx@ifundefined{@opargbegintheorem}{}{%
233 \let\NRorg@opargbegintheorem\@opargbegintheorem
234 \def\@opargbegintheorem#1#2#3{%
235 \NR@getttitle{#3}%
236 \NRorg@opargbegintheorem{#1}{#2}{#3}%
237 }%
238 }
239 \AtBeginDocument{%
240 \ifpackageloaded{amsthm}{%
241 \let\NRorg@begintheorem\@begintheorem
242 \begingroup
243 \edef\x{macro:\string#1\string#2[\string#3]}%
244 \@onelevel@sanitize\x
245 \def\y#1->#2\@nil{#1}%
246 \edef\z{\expandafter\y\meaning\@begintheorem->\@nil}%
247 \@onelevel@sanitize\z
248 \expandafter\endgroup
249 \ifx\x\z
250 \def\@begintheorem#1#2[#3]{%
251 \NR@getttitle{#3}%
252 \NRorg@begintheorem{#1}{#2}[#3]}%
253 }%
254 \fi
255 }{}%
256 }

```

3.3 Referencing stuff

We default the label and hypertext reference to be empty.

```

257 \providecommand*{\@currentlabelname}{}

```

```
258 \providecommand*\@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:

```
259 \long\def\@firstoffive#1#2#3#4#5{#1}
260 \long\def\@secondoffive#1#2#3#4#5{#2}
261 \long\def\@thirdoffive#1#2#3#4#5{#3}
262 \long\def\@fourthoffive#1#2#3#4#5{#4}
263 \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`.

```
264 \providecommand*\@safe@activestruetrue{}%
265 \providecommand*\@safe@activestruetruefalse{}%
266 \def\NR@setref#1{%
267   \begingroup
268   \@safe@activestruetrue
269   \expandafter
270   \endgroup
271   \expandafter\NR@@setref\csname r@#1\endcsname
272 }
273 \def\NR@@setref#1{%
274   \ifx\@undefined#1%
275     \let#1\relax
276   \fi
277   \@setref#1%
278 }
279 \def\T@ref#1{%
280   \NR@setref{#1}\@firstoffive{#1}%
281 }%
282 \def\T@pageref#1{%
283   \NR@setref{#1}\@secondoffive{#1}%
284 }%
285 \ifNR@showkeys
286   \ifx\SK@ref\@empty
287     \else
288       \def\T@ref#1{%
289         \@safe@activestruetrue
290         \SK@\SK@@ref{#1}%
291         \@safe@activestruetruefalse
292         \NR@setref{#1}\@firstoffive{#1}%
293       }%
294       \def\T@pageref#1{%
295         \@safe@activestruetrue
296         \SK@\SK@@ref{#1}%
297         \@safe@activestruetruefalse
298         \NR@setref{#1}\@secondoffive{#1}%
299       }%
300     \fi
301   \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`.

```
302 \@ifpackageloaded{hyperref}{%
```

```

303 }{%
304 \DeclareRobustCommand{\ref}{\T@ref}%
305 \DeclareRobustCommand{\pageref}{\T@pageref}%
306 }

```

3.4 Usage and frontend

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

```

307 \def\T@nameref#1{%
308 \begingroup
309 \let\label\@gobble
310 \NR@setref{#1}\@thirdoffive{#1}%
311 \endgroup
312 }%
313 \ifNR@showkeys
314 \ifx\SK@ref\@empty
315 \else
316 \def\T@nameref#1{%
317 \@safe@activetrue
318 \SK@\SK@@ref{#1}%
319 \@safe@activesfalse
320 \begingroup
321 \let\label\@gobble
322 \NR@setref{#1}\@thirdoffive{#1}%
323 \endgroup
324 }%
325 \fi
326 \fi
327 %\@ifclassloaded{memoir}{%
328 % \ltx@ifundefined{@mem@titlerefno link}\ltx@secondoftwo{%
329 % \ltx@ifundefined{@mem@titleref}\ltx@secondoftwo\ltx@firstoftwo
330 % }%
331 %}\ltx@secondoftwo
332 %}%
333 % \DeclareRobustCommand*{\nameref}{%
334 % \@ifstar\@mem@titlerefno link\@mem@titleref
335 % }%
336 %}{%
337 \DeclareRobustCommand*{\nameref}{%
338 \@ifstar\T@nameref\T@nameref
339 }%
340 %}

```

An extended form which gives title and page number.

```

341 \def\Name ref#1{'\nameref{#1}' on page-\pageref{#1}}
    The default for \Sectionformat
342 \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`:

```

343 \@ifpackageloaded{ifthen}{%

```

```

344 \let\NR@Org@ifthenelse\ifthenelse
345 \def@ifthenelse{%
346 \let\begin@group\NR@TE@begin@group
347 \NR@Org@ifthenelse
348 }%
349 \let\NR@Org@begin@group\begin@group
350 \def\NR@TE@begin@group{%
351 \let\begin@group\NR@Org@begin@group
352 \begin@group
353 \def\ref##1{\getrefbykeydefault{##1}{-}{-}}%
354 \def\pageref##1{\getrefbykeydefault{##1}{page}{0}}%
355 }%
356 }{}

```

3.6 Compatibility with varioref

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

```

357 \AtBeginDocument{%
358 \ifx\csname @@vpageref\endcsname\relax
359 \else
360 \def\@@vpageref#1[#2]#3{%
361 \begin@group
362 \csname @safe@activetrue\endcsname
363 \edef\x{#3}%
364 \@onelevel@sanitize\x
365 \toks@{%
366 \NR@@vpageref{#1}[#2]}%
367 }%
368 \edef\x{\endgroup
369 \the\toks@{\x}}%
370 }%
371 \x
372 }%
373 \def\NR@@vpageref#1[#2]#3{%
374 \leavevmode\unskip
375 \global\advance\c@vrcnt\@ne
376 \@ifundefined{r@\the\c@vrcnt @vr}%
377 {\@namedef{r@\the\c@vrcnt @vr}{-}{-}{-}{-}}%
378 \edef\@tempa{%
379 \expandafter\expandafter\expandafter
380 \@secondoffive\csname r@\the\c@vrcnt @vr\endcsname
381 }%
382 \@ifundefined{r@\the\c@vrcnt @xvr}%
383 {\@namedef{r@\the\c@vrcnt @xvr}{-}{-}{-}{-}}%
384 \edef\@tempb{%
385 \expandafter\expandafter\expandafter
386 \@secondoffive\csname r@\the\c@vrcnt @xvr\endcsname
387 }%
388 {%
389 \let\@currentlabel\@empty
390 \expandafter\label\expandafter{\the\c@vrcnt @xvr}%
391 }%
392 \ifx\@tempa\@tempb
393 \else
394 \vref@err{%
395 \noexpand\vref at page boundary %

```

```

396     \@tempb-\@tempa\space (may loop)%
397   }%
398 \fi
399 \@ifundefined{r@#3}{\@namedef{r@#3}{{??}{??}{}}{}}{}%
400 \edef\thepagerefnum{%
401   \expandafter\expandafter\expandafter
402   \@secondoffive\csname r@#3\endcsname
403 }%
404 \ifx\vref@space\@undefined
405   \space
406 \else
407   \vref@space
408 \fi
409 \ifx\@tempa\thepagerefnum
410   #1%
411 \else
412   #2%
413   \is@pos@number\thepagerefnum{%
414     \is@pos@number\@tempa{%
415       \@tempcnta\@tempa
416       \advance\@tempcnta\@ne
417     }{%
418       \@tempcnta\maxdimen
419     }%
420     \ifnum \thepagerefnum =\@tempcnta
421       \ifodd\@tempcnta
422         \if@twoside
423           \reftextfaceafter
424         \else
425           \reftextafter
426         \fi
427       \else
428         \reftextafter
429       \fi
430     \else
431       \advance\@tempcnta-2 %
432       \ifnum \thepagerefnum =\@tempcnta
433         \ifodd\@tempcnta
434           \reftextbefore
435         \else
436           \if@twoside
437             \reftextfacebefore
438           \else
439             \reftextbefore
440           \fi
441         \fi
442       \else
443         \reftextfaraway{#3}%
444       \fi
445     \fi
446   }{%
447     \reftextfaraway{#3}%
448   }%
449 \fi
450 {%
451   \let\@currentlabel\@empty
452   \expandafter\label\expandafter{\the\c@vrcnt \@vr}%

```

```

453 }%
454 }%
455 \DeclareRobustCommand\vnameref[1]{%
456   \unskip~\nameref{#1}%
457   \@vpageref[\unskip]{#1}%
458 }%
459 \fi
460 }

461 \@ifundefined{@Refstar}{%
462   \def\T@Ref#1{%
463     \NR@setref{#1}\NR@MakeUppercaseFirstOfFive{#1}%
464   }%
465   \def\NR@MakeUppercaseFirstOfFive#1#2#3#4#5{%
466     \MakeUppercase#1%
467   }%
468 }{}%
469 \AtBeginDocument{%
470   \@ifpackageloaded{varioref}{%
471     \@ifundefined{@Refstar}{%
472       \DeclareRobustCommand*\Ref}[1]{%
473         \T@Ref{#1}%
474       }%
475     }{}%
476   }{}%
477 }%

```

3.7 Support for listings

```

478 \AtBeginDocument{%
479   \@ifpackageloaded{listings}{%
480     \let\NROrg@lst@MakeCaption\lst@MakeCaption
481     \def\lst@MakeCaption{%
482       \ifx\lst@label\@empty
483         \else
484           \let\@currentlabelname\lst@caption
485         \fi
486       \NROrg@lst@MakeCaption
487     }%
488   }{}%
489 }

490 </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	\@caption	178, 179	. . . . .	19, 20,
\@@@	. . . . .	5, 21, 41, 63	\@chapter .	137, 138, 145	21, 27, 39, 40,
\@@vpageref	. . . . .	360	\@currentHref	. . . . .	41, 47, 61, 62,
\@auxout	. . . . .	23, 43, 68, 88	. . . . .	28, 48, 73, 258	63, 72, 98, 257, 484
\@begintheorem	. . . . .	. . . . .	\@currentlabel	. . . . .	\@empty
.	241, 246, 250	. . . . .	. . . . .	25, 45, 389, 451	189, 286,
\@bsphack	. . . . .	17, 36, 58	\@currentlabelname .		314, 389, 451, 482
				\@esphack	32, 52, 82

<code>\@fifthoffive</code>	263	<code>\AtBeginDocument</code>	173, 204, 239, 357, 469, 478	<code>\endgroup</code>	14, 31, 51, 94, 218, 248, 270, 311, 323, 368
<code>\@firstoffive</code> 259, 280, 292				<code>\expandafter</code>	21, 41, 63, 77, 154, 159, 215, 219, 222, 246, 248, 269, 271, 379, 385, 390, 401, 452
<code>\@firstofone</code>	175, 176				
<code>\@for</code>	87	B			
<code>\@fourthoffive</code>	262	<code>\begingroup</code>	9, 18, 38, 86, 217, 242, 267, 308, 320, 346, 349, 351, 352, 361		
<code>\@gobble</code>	175, 309, 321				
<code>\@ifclassloaded</code>	142, 213, 327				
<code>\@ifpackagelater</code>	175				
<code>\@ifpackageloaded</code>	8, 174, 184, 205, 240, 302, 343, 470, 479	C			
<code>\@ifstar</code>	334, 338	<code>\c@vrcnt</code>	375, 376, 377, 380, 382, 383, 386, 390, 452	<code>\fi</code>	54, 80, 81, 122, 160, 161, 162, 192, 254, 276, 300, 301, 325, 326, 398, 408, 426, 429, 440, 441, 444, 445, 449, 459, 485
<code>\@ifundefined</code>	10, 56, 376, 382, 399, 461, 471	<code>\ch@pt@c</code>	149, 154, 159		
<code>\@mem@titleref</code>	334	<code>\csname</code>	90, 215, 216, 219, 222, 271, 358, 362, 380, 386, 402		
<code>\@mem@titleref@nolink</code> 334					
<code>\@namedef</code> . 377, 383, 399		D		G	
<code>\@one</code>	375, 416	<code>\DeclareRobustCommand</code>	304, 305, 333, 337, 455, 472	<code>\getrefbykeydefault</code>	353, 354
<code>\@nil</code>	245, 246	<code>\def</code> 5, 16, 35, 57, 66, 85, 96, 102, 108, 117, 128, 133, 138, 145, 152, 169, 179, 186, 188, 198, 207, 214, 219, 234, 245, 250, 259, 260, 261, 262, 263, 266, 273, 279, 282, 288, 294, 307, 316, 341, 345, 350, 353, 354, 360, 373, 462, 465, 481		<code>\getTitleString</code>	97
<code>\@onelevel@sanitize</code>	19, 39, 61, 244, 247, 364	<code>\descriptionlabel</code> 197, 198		<code>\getTitleStringResult</code> 98	
<code>\@opargbegintheorem</code>	233, 234	<code>\do</code>	87	<code>\global</code>	12, 375
<code>\@part</code>	127, 128				
<code>\@safe@activesfalse</code>	265, 291, 297, 319	E		I	
<code>\@safe@activestrue</code>	264, 268, 289, 295, 317	<code>\edef</code>	20, 40, 62, 67, 218, 243, 246, 363, 368, 378, 384, 400	<code>\if@filesw</code>	59
<code>\@schapter</code>	168, 169	<code>\else</code>	120, 151, 155, 158, 190, 287, 315, 359, 393, 406, 411, 424, 427, 430, 435, 438, 442, 483	<code>\if@nobreak</code>	80
<code>\@secondoffive</code>	260, 283, 298, 380, 386, 402	<code>\endscename</code>	90, 215, 216, 219, 222, 271, 358, 362, 380, 386, 402	<code>\if@twoside</code>	422, 436
<code>\@sect</code>	100, 102			<code>\ifheadnameref</code> 118, 156	
<code>\@setref</code>	277			<code>\ifNR@showkeys</code>	6, 34, 285, 313
<code>\@spart</code>	132, 133			<code>\ifnum</code>	420, 432
<code>\@ssect</code>	107, 108			<code>\ifodd</code>	421, 433
<code>\@tempa</code>	67, 79, 87, 89, 90, 188, 189, 378, 392, 396, 409, 414, 415			<code>\ifthenelse</code>	344, 345
<code>\@tempb</code>	384, 392, 396			<code>\ifvmode</code>	80
<code>\@tempcnta</code>	415, 416, 418, 420, 421, 431, 432, 433			<code>\ifx</code>	149, 153, 189, 249, 274, 286, 314, 358, 392, 404, 409, 482
<code>\@thirdoffive</code> 261, 310, 322				<code>\immediate</code>	88
<code>\@undefined</code>	274, 404			<code>\is@pos@number</code> 413, 414	
<code>\@vpageref</code>	457				
<code>\@writetocindents@</code>	85			L	
				<code>\label</code>	16, 35, 55, 309, 321, 390, 452
A				<code>\leavevmode</code>	374
<code>\advance</code>	375, 416, 431			<code>\let</code>	55, 65, 98, 100, 107, 116, 127, 132, 137, 168, 178, 185, 197, 206, 215, 233, 241, 275, 309, 321, 344, 346, 349, 351, 389, 451, 480, 484

<code>\long</code>	128, 133, 179, 219, 259, 260, 261, 262, 263	<code>\NR@schapter</code> .	168, 171	S	
<code>\lst@caption</code>	484	<code>\NR@sect</code>	100, 105	<code>\Sectionformat</code>	105, 110, 342
<code>\lst@label</code>	482	<code>\NR@setref</code>	266, 280, 283, 292, 298, 310, 322, 463	<code>\setcounter</code>	103
<code>\lst@MakeCaption</code>	480, 481	<code>\NR@showkeyfalse</code>	7	<code>\SK@</code>	37, 290, 296, 318
<code>\LT@c@ption</code>	185, 186	<code>\NR@showkeystrue</code>	12	<code>\SK@@label</code>	37
<code>\ltx@empty</code>	149, 153	<code>\NR@spart</code>	132, 135	<code>\SK@@ref</code>	290, 296, 318
<code>\ltx@firstoftwo</code>	329	<code>\NR@ssect</code>	107, 110	<code>\SK@ref</code>	286, 314
<code>\ltx@ifUndefined</code>	112, 114, 143, 146, 195, 232, 328, 329	<code>\NR@TE@begingroup</code>	346, 350	<code>\slabel</code>	57
<code>\ltx@label</code>	55	<code>\NR@temp</code>	152, 153	<code>\space</code>	396, 405
<code>\ltx@secondoftwo</code>	328, 329, 331	<code>\NR@Org@begingroup</code>	349, 351	<code>\string</code>	24, 44, 69, 89, 243
M		<code>\NR@Org@begintheorem</code>	241, 252	<code>\strip@period</code>	5, 21, 41, 63
<code>\M@sect</code>	116, 117	<code>\NR@Org@descriptionlabel</code>	197, 200	T	
<code>\MakeUppercase</code>	466	<code>\NR@Org@ifthenelse</code>	344, 347	<code>\T@nameref</code>	307, 316, 338
<code>\maxdimen</code>	418	<code>\NR@Org@lst@MakeCaption</code>	480, 486	<code>\T@pageref</code>	282, 294, 305
<code>\meaning</code>	246	<code>\NR@Org@LT@c@ption</code>	185, 187	<code>\T@Ref</code>	462, 473
N		<code>\NR@Org@M@sect</code>	116, 123	<code>\T@ref</code>	279, 288, 304
<code>\Nameref</code>	341	<code>\NR@Org@opargbegintheorem</code>	233, 236	<code>\the</code>	369, 376, 377, 380, 382, 383, 386, 390, 452
<code>\nameref</code>	333, 337, 341, 456	<code>\NR@Org@ttl@sect@i</code>	206, 209	<code>\thepage</code>	26, 46, 65, 71
<code>\newcounter</code>	101	P		<code>\thesubequation</code>	70
<code>\newif</code>	6	<code>\pageref</code>	305, 341, 354	<code>\thevpagerefnum</code>	400, 409, 413, 420, 432
<code>\newlabel</code>	24, 44, 69, 89	<code>\protect</code>	66	<code>\toks@</code>	365, 369
<code>\nobreak</code>	80	<code>\protected@write</code>	23, 43	<code>\ttl@sect@i</code>	206, 207
<code>\noexpand</code>	66, 219, 221, 222, 395	<code>\providecommand</code>	257, 258, 264, 265, 342	U	
<code>\NR@@caption</code>	178, 181	R		<code>\unskip</code>	374, 456, 457
<code>\NR@@setref</code>	271, 273	<code>\Ref</code>	472	V	
<code>\NR@@vpageref</code>	366, 373	<code>\ref</code>	304, 353	<code>\vnameref</code>	455
<code>\NR@chapter</code>	137, 140, 164	<code>\ref@textafter</code>	425, 428	<code>\vref</code>	395
<code>\NR@getttitle</code>	96, 104, 109, 119, 121, 129, 134, 139, 147, 150, 154, 157, 159, 170, 180, 191, 199, 208, 221, 235, 251	<code>\ref@textbefore</code>	434, 439	<code>\vref@err</code>	394
<code>\NR@MakeUppercaseFirstOfFive</code>	463, 465	<code>\ref@textfaceafter</code>	423	<code>\vref@space</code>	404, 407
<code>\NR@part</code>	127, 130	<code>\ref@textfacebefore</code>	437	W	
<code>\NR@PatchBeamer</code>	214, 228, 229, 230	<code>\ref@textfaraway</code>	443, 447	<code>\write</code>	68, 88
		<code>\relax</code>	5, 21, 41, 63, 65, 275, 358	X	
		<code>\RequirePackage</code>	2, 3, 4	<code>\x</code>	218, 226, 243, 244, 249, 363, 364, 368, 369, 371