

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)

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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 L^AT_EX 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]
```

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).

```
4 \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.

```
5 \newif\ifNR@showkeys
```

```

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

15 \def\label#1{%
16   \bsphack
17   \begingroup
18     \@onelevel@sanitize\@currentlabelname
19     \edef\@currentlabelname{%
20       \expandafter\strip@period\@currentlabelname\relax.\relax\@@%
21     }%
22     \protected@write\@auxout{}{%
23       \string\newlabel{#1}{%
24         {\@currentlabel}%
25         {\thepage}%
26         {\@currentlabelname}%
27         {\@currentHref}{}%
28       }%
29     }%
30   \endgroup
31   \esphack
32 }%

33 \ifNR@showkeys
34   \def\label#1{%
35     \bsphack
36     \SK@\SK@@label{#1}%
37     \begingroup
38       \@onelevel@sanitize\@currentlabelname
39       \edef\@currentlabelname{%
40         \expandafter\strip@period\@currentlabelname\relax.\relax\@@%
41       }%
42       \protected@write\@auxout{}{%
43         \string\newlabel{#1}{%
44           {\@currentlabel}%
45           {\thepage}%
46           {\@currentlabelname}%
47           {\@currentHref}{}%
48         }%
49       }%
50     \endgroup
51     \esphack
52   }%
53 \fi

```

54 \let\ltx@label\label

Needed for the *subeqnarray* package.

```

55 \@ifundefined{slabel}{}{%
56   \def\slabel#1{%
57     \bsphack
58     \if@filesw
59       {%
60         \@onelevel@sanitize\@currentlabelname

```

```

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

```

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

```

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

```

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.

```

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

```

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

```

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

```

and now the unnumbered ones

```
106 \let\NR@ssect\@ssect
107 \def\@ssect#1#2#3#4#5{%
108   \NR@getttitle{#5}%
109   \NR@ssect{#1}{#2}{#3}{#4}{\Sectionformat{#5}{#1}}%
110 }
```

Parts and chapters are treated differently. sigh.

```
111 \let\NR@part\@part
112 \def\@part[#1]#2{%
113   \NR@getttitle{#1}%
114   \NR@part[#{#1}]{#2}%
115 }
116 \let\NR@chapter\@chapter
117 \def\@chapter[#1]#2{%
118   \NR@getttitle{#1}%
119   \NR@chapter[#{#1}]{#2}%
120 }
121 \let\NR@schapter\@schapter
122 \def\@schapter#1{%
123   \NR@getttitle{#1}%
124   \NR@schapter{#1}%
125 }
```

Captions

```
126 \AtBeginDocument{%
127   \@ifpackageloaded{hyperref}{%
128     \ifpackagelater{hyperref}{2009/12/05}\@gobble\@firstofone
129   }\@firstofone
130   {%
131     \let\NR@@caption\@caption
132     \long\def\@caption#1[#2]{%
133       \NR@getttitle{#2}%
134       \NR@@caption{#1}[#{#2}]%
135     }%
136   }%
137 }
138 \AtBeginDocument{%
139   \@ifpackageloaded{longtable}{%
140     \let\NRorg@LT@c@ption\LT@c@ption
141     \def\LT@c@ption#1[#2]#3{%
142       \NRorg@LT@c@ption{#1}[#{#2}]{#3}%
143       \def\@tempa{#2}%
144       \ifx\@tempa\@empty
145         \else
146           \NR@getttitle{#2}%
147         \fi
148       }%
149     }{}%
150 }
```

Compatibility for package titlesec.

```
151 \AtBeginDocument{%
152   \@ifpackageloaded{titlesec}{%
153     \let\NRorg@ttl@sect@i\ttl@sect@i
154     \def\ttl@sect@i#1#2[#3]#4{%
155       \NR@getttitle{#4}%

```

```

156     \NRorg@ttl@sect@i{#1}{#2} [{#3}] {#4}%
157   }%
158 }{}%
159 }

```

3.2.1 Class beamer

```

160 \@ifclassloaded{beamer}{%
161   \def\NR@PatchBeamer#1{%
162     \expandafter\let\csname NRorg@beamer@#1\expandafter\endcsname
163       \csname beamer@#1\endcsname
164     \begingroup
165       \edef\x{\endgroup
166         \long\def\expandafter\noexpand\csname beamer@#1\endcsname
167           [####1]{% hash-ok
168             \noexpand\NR@getttitle{####1}%
169             \expandafter\noexpand\csname NRorg@beamer@#1\endcsname
170             [{####1]}%
171           }%
172         }%
173       \x
174     }%
175     \NR@PatchBeamer{section}%
176     \NR@PatchBeamer{subsection}%
177     \NR@PatchBeamer{subsubsection}%
178 }{}

```

3.3 Referencing stuff

We default the label and hypertext reference to be empty.

```

179 \def\@currentlabelname{}
180 \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:

```

181 \long\def\@firstoffive#1#2#3#4#5{#1}
182 \long\def\@secondoffive#1#2#3#4#5{#2}
183 \long\def\@thirdoffive#1#2#3#4#5{#3}
184 \long\def\@fourthoffive#1#2#3#4#5{#4}
185 \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`.

```

186 \providecommand*\@safe@activestruel{}%
187 \providecommand*\@safe@activesfalse{}%
188 \def\NR@setref#1{%
189   \begingroup
190     \@safe@activestruel
191     \expandafter
192   \endgroup
193   \expandafter\NR@@setref\csname r@#1\endcsname
194 }
195 \def\NR@@setref#1{%
196   \ifx\@undefined#1%
197     \let#1\relax
198   \fi

```

```

199 \@setref#1%
200 }
201 \def\T@ref#1{%
202   \NR@setref{#1}\@firstoffive{#1}%
203 }%
204 \def\T@pageref#1{%
205   \NR@setref{#1}\@secondoffive{#1}%
206 }%
207 \ifNR@showkeys
208   \ifx\SK@ref\@empty
209   \else
210     \def\T@ref#1{%
211       \@safe@activetrue
212       \SK@\SK@@ref{#1}%
213       \@safe@activesfalse
214       \NR@setref{#1}\@firstoffive{#1}%
215     }%
216     \def\T@pageref#1{%
217       \@safe@activetrue
218       \SK@\SK@@ref{#1}%
219       \@safe@activesfalse
220       \NR@setref{#1}\@secondoffive{#1}%
221     }%
222   \fi
223 \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`.

```

224 \@ifpackageloaded{hyperref}{%
225 }{%
226   \DeclareRobustCommand{\ref}{\T@ref}%
227   \DeclareRobustCommand{\pageref}{\T@pageref}%
228 }

```

3.4 Usage and frontend

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

```

229 \def\T@nameref#1{%
230   \begingroup
231     \let\label\@gobble
232     \NR@setref{#1}\@thirdoffive{#1}%
233   \endgroup
234 }%
235 \ifNR@showkeys
236   \ifx\SK@ref\@empty
237   \else
238     \def\T@nameref#1{%
239       \@safe@activetrue
240       \SK@\SK@@ref{#1}%
241       \@safe@activesfalse
242       \begingroup
243         \let\label\@gobble
244         \NR@setref{#1}\@thirdoffive{#1}%
245       \endgroup
246     }%

```

```

247 \fi
248 \fi
249 \def\nameref{\protect\T@nameref}
An extended form which gives title and page number.
250 \def\Nameref#1{\nameref{#1}' on page~\pageref{#1}}
The default for \Sectionformat
251 \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`:

```

252 \@ifpackageloaded{ifthen}{%
253 \let\NR@Org@ifthenelse\ifthenelse
254 \def\ifthenelse{%
255 \let\begingroup\NR@TE@begingroup
256 \NR@Org@ifthenelse
257 }%
258 \let\NR@Org@begingroup\begingroup
259 \def\NR@TE@begingroup{%
260 \let\begingroup\NR@Org@begingroup
261 \begingroup
262 \def\ref##1{\getrefbykeydefault{##1}{-}{??}}%
263 \def\pageref##1{\getrefbykeydefault{##1}{page}{0}}%
264 }%
265 }{}

```

3.6 Compatibility with varioref

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

```

266 \AtBeginDocument{%
267 \ifx\csname @vpageref\endcsname\relax
268 \else
269 \def\@vpageref#1[#2]#3{%
270 \begingroup
271 \csname @safe@activestrue\endcsname
272 \edef\x{#3}%
273 \@onelevel@sanitize\x
274 \toks@{%
275 \NR@vpageref{#1}[[#2]]%
276 }%
277 \edef\x{\endgroup
278 \the\toks@{\x}}%
279 }%
280 \x
281 }%
282 \def\NR@vpageref#1[#2]#3{%
283 \leavevmode\unskip
284 \global\advance\c@vrcnt\@ne
285 \@ifundefined{r@\the\c@vrcnt @vr}{%
286 {\@namedef{r@\the\c@vrcnt @vr}{??}{??}{-}{-}}{}%

```



```

287 \edef\@tempa{%
288   \expandafter\expandafter\expandafter
289   \@secondoffive\csname r@the\c@vrcnt @vr\endcsname
290 }%
291 \@ifundefined{r@the\c@vrcnt @xvr}%
292   {\@namedef{r@the\c@vrcnt @xvr}{{??}{??}{-}{-}}}%
293 \edef\@tempb{%
294   \expandafter\expandafter\expandafter
295   \@secondoffive\csname r@the\c@vrcnt @xvr\endcsname
296 }%
297 {%
298   \let\@currentlabel\@empty
299   \expandafter\label\expandafter{\the\c@vrcnt @xvr}%
300 }%
301 \ifx\@tempa\@tempb
302 \else
303   \vref@err{%
304     \noexpand\vref at page boundary %
305     \@tempb-\@tempa\space (may loop)%
306   }%
307 \fi
308 \@ifundefined{r@#3}{\@namedef{r@#3}{{??}{??}{-}{-}}}%
309 \edef\thevpagerefnum{%
310   \expandafter\expandafter\expandafter
311   \@secondoffive\csname r@#3\endcsname
312 }%
313 \ifx\vref@space\@undefined
314   \space
315 \else
316   \vref@space
317 \fi
318 \ifx\@tempa\thevpagerefnum
319   #1%
320 \else
321   #2%
322   \is@pos@number\thevpagerefnum{%
323     \is@pos@number\@tempa{%
324       \@tempcnta\@tempa
325       \advance\@tempcnta\@ne
326     }{%
327       \@tempcnta\maxdimen
328     }%
329     \ifnum \thevpagerefnum =\@tempcnta
330       \ifodd\@tempcnta
331         \if@twoside
332           \reftextfaceafter
333         \else
334           \reftextafter
335         \fi
336       \else
337         \reftextafter
338       \fi
339     \else
340       \advance\@tempcnta-2 %
341       \ifnum \thevpagerefnum =\@tempcnta
342         \ifodd\@tempcnta
343           \reftextbefore

```

```

344         \else
345             \if@twoside
346                 \reftextfacebefore
347             \else
348                 \reftextbefore
349             \fi
350         \fi
351     \else
352         \reftextfaraway{#3}%
353     \fi
354 \fi
355 }{%
356     \reftextfaraway{#3}%
357 }%
358 \fi
359 {%
360     \let\@currentlabel\@empty
361     \expandafter\label\expandafter{\the\c@vrcnt @vr}%
362 }%
363 }%
364 \DeclareRobustCommand\vnameref[1]{%
365     \unskip~\nameref{#1}%
366     \@vpageref[\unskip]{#1}%
367 }%
368 \fi
369 }

370 \@ifundefined{@Refstar}{%
371     \def\T@Ref#1{%
372         \NR@setref{#1}\NR@MakeUppercaseFirstOfFive{#1}%
373     }%
374     \def\NR@MakeUppercaseFirstOfFive#1#2#3#4#5{%
375         \MakeUppercase#1%
376     }%
377 }{}%
378 \AtBeginDocument{%
379     \@ifpackageloaded{varioref}{%
380         \@ifundefined{@Refstar}{%
381             \DeclareRobustCommand*\{Ref}[1]{%
382                 \T@Ref{#1}%
383             }%
384         }{}%
385     }{}%
386 }%

```

3.7 Support for listings

```

387 \AtBeginDocument{%
388     \@ifpackageloaded{listings}{%
389         \let\NR@Org@lst@MakeCaption\lst@MakeCaption
390         \def\lst@MakeCaption{%
391             \ifx\lst@label\@empty
392             \else
393                 \let\@currentlabelname\lst@@caption
394             \fi
395             \NR@Org@lst@MakeCaption
396         }%
397     }{}%

```

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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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