

Section name references in L^AT_EX^{*}

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<https://github.com/latex3/hyperref/issues>

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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).

[ChangeLog](#) This file records the version history.

[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 Background and advice for package and class authors

The package redefines the `\label` command to write additionally `\@currentlabelname` to the `.aux` file. This can then be referenced with `\nameref`. Package authors who want to support `nameref` should define this command (locally) in a suitable way. The content should be so that it can be safely written to the `.aux` file. `nameref` itself uses the package `getttitlestring` but this is not required.

`nameref` patches a number of commands (mostly sectioning commands) and environments so that they store `\@currentlabelname`. A class or a package that want to provide native support instead can suppress this patches by defining commands described below. The commands must be defined before the patch is made, in most cases before `nameref` is loaded, sometimes only before `begin document`.

sectioning commands Redefined are

- `\@sect`: beside adding a command that stores the title of a sectioning command (if present the optional argument is used) `nameref` also stores the level number in a counter `section@level` (reason is unknown, only two packages, `e-french` and `pdfscreen` seem to use it), and surrounds the text with `\Sectionformat` (only used by `acmart`, `memoir`, `pdfscreen`, `pdfslide`), a command which takes two argument: the first the text, the second the level.
- `\@ssect`: command to store the title added, `\Sectionformat` is added.
- `\@part`, `\@spart`, `\@chapter`, `\@schapter`: command to store the title added

All the patches excepted the last are disabled if the command `\NR@nopatch@sectioning` is defined (the actual definition is irrelevant, only existence is tested. This currently only suppress the actual patches, the counter, `\Sectionformat` and also the internal copies `\NR@sect` etc are still defined.

captions The following commands are patched

- `\@caption`: command to store the title added. This is done at `begin document`, but only if `hyperref` is not detected. With `hyperref` the patch is done there (and must be disabled in `hyperref`).
This patch can be disabled by defining `\NR@nopatch@caption`
- `\LT@cOption` (from the `longtable` package): command to store the title added.
This patch can be disabled by defining `\NR@nopatch@longtable`

- `\lst@MakeCaption` (from the listings package)
This patch can be disabled by defining `\NR@nopatch@listings`

lists The following command is patched

- `\descriptionlabel`: command to store the label text added. To reference this text the `\label` must be put *inside* the label. This is not compatible with the `enumitem` package as internal formatting commands are written to the `.aux` file too.

This patch can be disabled by defining `\NR@nopatch@lists`

theorems • `\@opargbegintheorem`: command to store the title added.

This patch can be disabled by defining `\NR@nopatch@theorem`

- `\@begintheorem` (if `amsthm` is loaded and if the command has a tested meaning): command to store the title added.

This patch can be disabled by defining `\NR@nopatch@amsthm`

beamer In the beamer class the following commands are patched: `\beamer@section`, `\beamer@subsection`, `\beamer@subsubsection`, `\beamer@descriptionitem` and the template `theorem begin`. If `\NR@nopatch@beamer` is defined nothing is done.

3 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]{}%
}
```

4 Implementation

```

1 (*package)
2 \RequirePackage{refcount}[2006/02/12]
3 \RequirePackage{getttitlestring}[2009/12/18]
4 \ExplSyntaxOn
5 \let\NR@GlobalAppendToMacro\tl_gput_right:Nn
6 \ExplSyntaxOff
7

```

In formats older than 2023-06-01 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).

`\NR@strip@period`

```

8 \def\NR@strip@period#1.\@empty#2\@nil{#1}

```

`\strip@period` Macro `\strip@period` was removed in `nameref` 2012/07/28 v2.41 and reinserted in 2012/07/31 v2.42 for compatibility reasons with package `subfig`.

```

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

10 \def\NR@sanitize@labelname{%
11   \@onelevel@sanitize\@currentlabelname
12   \edef\@currentlabelname{%
13     \expandafter\NR@strip@period\@currentlabelname
14     \@empty.\@empty\@nil
15   }%
16 }

```

4.1 `\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.

`\ifNR@showkeys`

```

17 \newif\ifNR@showkeys
18 \NR@showkeysfalse
19 \@ifpackageloaded{showkeys}{%
20   \begingroup
21     \@ifundefined{SK@@label}{%
22       }{%
23         \global\NR@showkeystrue
24       }%
25   \endgroup
26 }{}

```

`\label@hook` Starting with LaTeX 2023-06-01 it is not longer needed to redefine `\label` as the kernel provides a hook and stores `\@currentlabelname`. But as there are packages like `ntheorem` and `revtex` which overwrites the kernel definition and then break `nameref` and `hyperref` we add a guard. We still support `\label@hook` for now as it is used below in `\slabel` and also in `hyperref`.

```

27 \providecommand*{\label@hook}{}

```

```

28 \NR@GlobalAppendToMacro{\label@hook}{%
29   \NR@sanitize@labelname
30 }
31 \ifl@t@r\fmtversion{2023-06-01}
32 {
33   \def\NR@label@copy#1{\@bsphack
34     \begingroup
35     \UseHookWithArguments{label}{1}{#1}%
36     \protected@write\@auxout{%
37       {\string\newlabel{#1}{\@currentlabel}{\thepage}%
38       {\@currentlabelname}{\@currentHref}{\@kernel@reserved@label@data}}}%
39   \endgroup
40   \@esphack}
41   \ifl@t@r\fmtversion{2026-06-01}
42   {
43     \def\NR@label@copy#1{\@bsphack
44       \begingroup
45       \UseHookWithArguments{label}{1}{#1}%
46       \protected@write\@auxout{\let\label\@gobble@om\let\index\@gobble@som\let\glossary\@gobble@om}%
47       {\string\newlabel{#1}{\@currentlabel}{\thepage}%
48       {\@currentlabelname}{\@currentHref}{\@kernel@reserved@label@data}}}%
49     \endgroup
50     \@esphack
51   }}
52   {}
53   \ifx\label\NR@label@copy
54   \else
55     \PackageWarning{nameref}{The definition of \string\label\space has changed!
56                               \MessageBreak Check your packages!
57                               \MessageBreak Replacing it with the kernel definition}
58     \let\label\NR@label@copy
59     \let\ltx@label\label %for amsmath
60   \fi
61   \AddToHookWithArguments{label}{\def\label@name{#1}\label@hook}
62 }
63 {
64

```

\label

```

65   \def\label#1{%
66     \@bsphack
67     \begingroup
68     \def\label@name{#1}%
69     \label@hook
70     \protected@write\@auxout{%
71       {\string\newlabel{#1}{%
72         {\@currentlabel}%
73         {\thepage}%
74         {\@currentlabelname}%
75         {\@currentHref}{}}%
76       }%
77     }%
78   \endgroup
79   \@esphack

```

```

80    }%
81    \ifNR@showkeys
82      \def\label#1{%
83        \@bsphack
84        \SK@\SK@@label{#1}%
85        \begingroup
86          \def\label@name{#1}%
87          \label@hook
88          \protected@write\@auxout{}\{%
89            \string\newlabel{#1}\{%
90              {\@currentlabel}%
91              {\thepage}%
92              {\@currentlabelname}%
93              {\@currentHref}\}%
94            }%
95          }%
96        \endgroup
97      \@esphack
98    }%
99    \fi
100  }

```

`\ltx@label` Starting with LaTeX 2023-06-01 it is not longer needed to update the `amsmath` command `\ltx@label` as `nameref` no longer changes `\label`

```

101 \ifl@t@r\fmtversion{2023-06-01}
102 {}{\let\ltx@label\label}

```

Needed for the *subeqnarray* package.

```

\slabel
103 \ifundefined{slabel}{}\{%
104   \def\slabel#1{%
105     \@bsphack
106     \if@filesw
107       \begingroup
108         \def\label@name{#1}%
109         \label@hook
110         \let\thepage\relax
111         \def\protect{\noexpand\noexpand\noexpand}%
112         \edef\@tempa{%
113           \write\@auxout{%
114             \string\newlabel{#1}\{%
115               {\thesubequation}%
116               {\thepage}%
117               {\@currentlabelname}%
118               {\@currentHref}\}%
119             }%
120           }%
121         }%
122       \expandafter\endgroup
123     \@tempa
124     \if@nobreak\ifvmode\nobreak\fi\fi
125   \fi
126   \@esphack

```

```

127 }%
128 }

```

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

```

\@writetocindent@
129 \def\@writetocindent@{%
130   \begingroup
131   \@for\@tempa:=-1,0,1,2,3\do{%
132     \immediate\write\@auxout{%
133       \string\newlabel{tocindent\@tempa}{%
134         \csname r@tocindent\@tempa\endcsname}{-}{-}{-}%
135     }%
136   }%
137 }%
138 \endgroup
139 }

```

4.2 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.

```

\NR@getttitle
140 \def\NR@getttitle#1{%
141   \GetTitleString{#1}%
142   \let\@currentlabelname\GetTitleStringResult
143 }

```

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

```

\NR@ssect
144 \let\NR@ssect\@ssect
145 \newcounter{section@level}

\@ssect
146 \ifundefined{NR@nopatch@sectioning}
147 {\def\@ssect#1#2#3#4#5#6[#7]#8{%
148   \setcounter{section@level}{#2}%
149   \NR@getttitle{#7}%
150   \NR@ssect{#1}{#2}{#3}{#4}{#5}{#6}[{#7}]{\Sectionformat{#8}{#2}}%
151 }}{}

```

and now the unnumbered ones

```

\NR@ssect
152 \let\NR@ssect\@ssect

```

\@ssect

```

153 \ifundefined{NR@nopatch@sectioning}
154 {\def\@ssect#1#2#3#4#5{%
155   \NR@getttitle{#5}%
156   \NR@ssect{#1}{#2}{#3}{#4}{\Sectionformat{#5}{#1}}%
157 }}{}

```

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

```

158 \let\NR@part\@part
159 \let\NR@spart\@spart
160 \let\NR@chapter\@chapter
161 \let\NR@schapter\@schapter
162 \ifundefined{NR@nopatch@sectioning}
163 {%
164   \long\def\@part[#1]#2{%
165     \NR@getttitle{#1}%
166     \NR@part[{#1}]{#2}%
167   }
168   \long\def\@spart#1{%
169     \NR@getttitle{#1}%
170     \NR@spart{#1}%
171   }
172   \def\@chapter[#1]#2{%
173     \NR@getttitle{#1}%
174     \NR@chapter[{#1}]{#2}%
175   }
176   \def\@schapter#1{%
177     \NR@getttitle{#1}%
178     \NR@schapter{#1}%
179   }}{}

```

Captions

```

180 \AtBeginDocument{%
181   \@ifpackageloaded{hyperref}{}
182   {%
183     \ifundefined{NR@nopatch@caption}
184     {\let\NR@@caption\@caption
185      \long\def\@caption#1[#2]{%
186        \NR@getttitle{#2}%
187        \NR@@caption{#1}[{#2}]}%
188      }%
189     {}%
190   }%
191   \@ifpackageloaded{longtable}{%
192     \ifundefined{NR@nopatch@longtable}
193     {%
194       \let\NRorg@LT@caption\LT@caption
195       \def\LT@caption#1[#2]#3{%
196         \NRorg@LT@caption{#1}[{#2}]{#3}%
197         \def\@tempa{#2}%
198         \ifx\@tempa\@empty
199           \else

```

```

200         \NR@getttitle{#2}%
201         \fi
202     }%
203 }{}%
204 }{}%

Environment ‘description’.
205 \@ifundefined{descriptionlabel}{%
206 }{%
207     \@ifundefined{NR@nopatch@lists}
208     {\let\NRorg@descriptionlabel\descriptionlabel
209      \def\descriptionlabel#1{%
210          \NR@getttitle{#1}%
211          \NRorg@descriptionlabel{#1}%
212      }%
213     }{}%
214 }%
215 }

```

4.2.1 Theorems

```

216 \@ifundefined{NR@nopatch@theorem}{%
217 \@ifundefined{@opargbegintheorem}{}%
218     \let\NRorg@opargbegintheorem\@opargbegintheorem
219     \def\@opargbegintheorem#1#2#3{%
220         \NR@getttitle{#3}%
221         \NRorg@opargbegintheorem{#1}{#2}{#3}%
222     }%
223 }
224 }{}

225 \@ifundefined{NR@nopatch@amsthm}{%
226 \AtBeginDocument{%
227     \@ifpackageloaded{amsthm}{%
228         \let\NRorg@begintheorem\@begintheorem
229         \begingroup
230             \edef\x{\macro:\string#1\string#2[\string#3]}%
231             \@onelevel@sanitize\x
232             \def\y#1->#2\@nil{#1}%
233             \edef\z{\expandafter\y\meaning\@begintheorem->\@nil}%
234             \@onelevel@sanitize\z
235             \expandafter\endgroup
236             \ifx\x\z
237                 \def\@begintheorem#1#2[#3]{%
238                     \NR@getttitle{#3}%
239                     \NRorg@begintheorem{#1}{#2}[\string#3]}%
240                 }%
241             \fi
242         }{}%
243     }{}

```

4.3 Referencing stuff

We default the label and hypertext reference to be empty.

```

244 \providecommand*{\@currentlabelname}{}
245 \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:

```
\@firstoffive
246 \long\def\@firstoffive#1#2#3#4#5{#1}

\@secondoffive
247 \long\def\@secondoffive#1#2#3#4#5{#2}

\@thirdoffive
248 \long\def\@thirdoffive#1#2#3#4#5{#3}

\@fourthoffive
249 \long\def\@fourthoffive#1#2#3#4#5{#4}

\@fifthoffive
250 \long\def\@fifthoffive#1#2#3#4#5{#5}
```

We have to redefine `\ref`, `\Ref` and `\pageref` to know about extra reference elements. Make them robust, and compatible with Babel. We also define starred versions so that it doesn't depend on `hyperref` if they are defined or not. We use the same internal names as `hyperref`. 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`.

```
\@safe@activetrue
251 \providecommand*\@safe@activetrue{}%

\@safe@activesfalse
252 \providecommand*\@safe@activesfalse{}%

\NR@ref@showkeys
253 \newcommand\NR@ref@showkeys[1]{}%

\NR@setref
254 \def\NR@setref#1{%
255   \begingroup
256     \@safe@activetrue
257     \expandafter
258   \endgroup
259   \expandafter\NR@@setref\csname r@#1\endcsname
260 }

\NR@@setref
261 \def\NR@@setref#1{%
262   \ifx\@undefined#1%
263     \let#1\relax
264   \fi
265   \@setref#1%
266 }
```

```

\T@ref
267 \def\T@ref#1{%
268   \NR@ref@showkeys{#1}%
269   \NR@setref{#1}\@firstoffive{#1}%
270 }%

\@refstar
271 \def\@refstar#1{%
272   \NR@ref@showkeys{#1}%
273   \NR@setref{#1}\@firstoffive{#1}%
274 }%

\T@pageref
275 \def\T@pageref#1{%
276   \NR@ref@showkeys{#1}%
277   \NR@setref{#1}\@secondoffive{#1}%
278 }%

\@pagerefstar
279 \def\@pagerefstar#1{%
280   \NR@ref@showkeys{#1}%
281   \NR@setref{#1}\@secondoffive{#1}%
282 }%

\T@Ref
283 \def\T@Ref#1{%
284   \NR@ref@showkeys{#1}%
285   \NR@setref{#1}\NR@MakeUppercaseFirstOfFive{#1}%
286   }%
287 \def\NR@MakeUppercaseFirstOfFive#1#2#3#4#5{%
288   \MakeUppercase#1%
289   }%

\@Refstar
290 \def\@Refstar#1{%
291   \NR@ref@showkeys{#1}%
292   \NR@setref{#1}\NR@MakeUppercaseFirstOfFive{#1}%
293   }%

294 \ifNR@showkeys
295   \ifx\SK@ref\@empty
296   \else
297     \renewcommand\NR@ref@showkeys[1]{%
298       \@safe@activetrue
299       \SK@\SK@@ref{#1}%
300       \@safe@activesfalse}
301   \fi
302 \fi

Package hyperref uses the same definitions of \ref, \Ref and \pageref but has to
redefine the non-starred command to add the hyperlink support. \DeclareRobustCommand
is used by hyperref. Package nameref can be loaded before, after hyperref or after
hyperref's definitions in \AtBeginDocument. We have to postpone the definition
to \AtBeginDocument to avoid that showkeys overwrites them again.
303 \AddToHook{begindocument}{%

```

```

\ref
304 \DeclareDocumentCommand\ref{s}
305 {\IfBooleanTF{#1}{\@refstar}{\T@ref}}%

\pageref
306 \DeclareDocumentCommand\pageref{s}
307 {\IfBooleanTF{#1}{\@pagerefstar}{\T@pageref}}%

\Ref
308 \DeclareDocumentCommand\Ref{s}
309 {\IfBooleanTF{#1}{\@Refstar}{\T@Ref}}%

310 }
311 \DeclareHookRule{begindocument}{showkeys}{before}{nameref}

```

4.4 Usage and frontend

Access the (third) name part with \nameref;

```

\T@nameref
312 \def\T@nameref#1{%
313   \NR@ref@showkeys{#1}%
314   \begingroup
315     \let\label@gobble
316     \NR@setref{#1}\@thirdoffive{#1}%
317   \endgroup
318 }%

\@namerefstar
319 \def\@namerefstar#1{%
320   \NR@ref@showkeys{#1}%
321   \begingroup
322     \let\label@gobble
323     \NR@setref{#1}\@thirdoffive{#1}%
324   \endgroup
325 }%

\nameref
326 \@ifundefined{nameref}
327 {
328   \NewDocumentCommand\nameref{s}
329   {\IfBooleanTF{#1}{\@namerefstar}{\T@nameref}}
330 }
331 {
332   \PackageWarning{nameref}{Redefining \string\nameref}
333   \RenewDocumentCommand\nameref{s}
334   {\IfBooleanTF{#1}{\@namerefstar}{\T@nameref}}
335 }

\Nameref An extended form which gives title and page number. Not really useful, quotes
are english, and no starred version. varioref can do that better. Remove??
336 \def\Nameref#1{'\nameref{#1}' on page~\pageref{#1}}

\Sectionformat The default for \Sectionformat
337 \providecommand\Sectionformat[2]{#1}

```

4.5 Compatibility with varioref

[This section was derived by Corey Minyard minyard@acm.org from the `varioref` package] Changed in 2019-09-12 by Frank Mittelbach to adapt to changes in `varioref`

```
338 \AtBeginDocument{%
339   \ifx\csname @@vpageref\endcsname\relax
340   \else
This requires a varioref newer than 2019-09-12
341   \let\NR@@vpageref\@@vpageref
342   \def\@@vpageref#1[#2]#3{%
343     \begingroup
344       \csname @safe@activetrue\endcsname
345       \edef\x{#3}%
346       \@onelevel@sanitize\x
347       \toks@{%
348         \NR@@vpageref{#1}[{#2}]%
349       }%
350       \edef\x{\endgroup
351         \the\toks@\x}%
352     }%
353   \x
354 }%
355 \DeclareRobustCommand\vnameref[1]{%
356   \unskip~\nameref{#1} %
357   \@vpageref[\unskip]{#1}%
358 }%
359 \fi
360 }
```

4.6 Support for package listings

```
361 \AtBeginDocument{%
362   \@ifpackageloaded{listings}{%
363     \@ifundefined{NR@nopatch@listings}
364     {%
365       \let\NR@org@lst@MakeCaption\lst@MakeCaption
366       \def\lst@MakeCaption{%
367         \ifx\lst@label\@empty
368         \else
369           \let\@currentlabelname\lst@@caption
370         \fi
371       \NR@org@lst@MakeCaption
372     }%
373   }{}%
374 }{}%
375 }
376 \end{package}
```

5 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		
\@@@ 9	\@opargbegintheorem 218, 219	65, 68, 82, 86, 104, 108, 111,
\@vpageref . . 341, 342	\@pagerefstar . 279, 307	129, 140, 147,
\@Refstar 290, 309	\@part 158, 164	154, 164, 168,
\@auxout 36, 46, 70, 88, 113, 132	\@refstar 271, 305	172, 176, 185,
\@begintheorem 228, 233, 237	\@safe@activesfalse 252, 300	195, 197, 209,
\@bsphack 33, 43, 66, 83, 105	\@safe@activetrue 251, 256, 298	219, 232, 237,
\@caption 184, 185	\@schapter . . . 161, 176	246, 247, 248,
\@chapter 160, 172	\@secondoffive 247, 277, 281	249, 250, 254,
\@currentHref . . . 38, 48, 75, 93, 118, 245	\@sect 144, 146	261, 267, 271,
\@currentlabel 37, 47, 72, 90	\@setref 265	275, 279, 283,
\@currentlabelname 11, 12, 13, 38, 48, 74, 92, 117, 142, 244, 369	\@spart 159, 168	287, 290, 312,
\@empty 8, 14, 198, 295, 367	\@ssect 152, 153	319, 336, 342, 366
\@esphack 40, 50, 79, 97, 126	\@tempa 112, 123, 131, 133, 134, 197, 198	\descriptionlabel 208, 209
\@fifthoffive 250	\@thirdoffive 248, 316, 323	\do 131
\@firstoffive 246, 269, 273	\@undefined 262	
\@for 131	\@vpageref 357	E
\@fourthoffive 249	\@writetocindents@ 129	\edef 12, 112, 230, 233, 345, 350
\@gobble 315, 322		\else 54,
\@gobble@om 46	A	199, 296, 340, 368
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