# The eolgrab package

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#### Abstract

This package implements a generic argument grabber to catch an argument that is delimited by the line end.

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## 1 Documentation

The starting point for this package was a feature request of Arno Trautmann in the mailing list texhax<sup>1</sup> [1]. A macro \eolsection should behave like \section, but the argument should be delimited by the line end instead of given in curly braces:

<sup>&</sup>lt;sup>1</sup>Info page for mailing list texhax: http://tug.org/mailman/listinfo/texhax

```
\eolsection My Title
```

Phil Taylor answered this with an implementation for \eolsection. Because this feature could be useful for other macros as well, I answered with an implementation of \eolgrab as general solution [3].

Both formats plain  $T_E X$  and  $L^A T_E X$  are supported by the package, see the example for **\eolsection** below.

```
\eolgrab \{\langle code \rangle\}\ \langle argument \rangle\ \langle EOL \rangle
```

Macro \eolgrab takes two arguments. The first argument is  $\langle code \rangle$ , a classical undelimited TeX macro argument. The second argument is delimited by the line end  $\langle EOL \rangle$ . The macro calls  $\langle code \rangle$  with  $\langle argument \rangle$  as argument in curly braces. Because the catcode of the line end is changed, \eolgrab will not work in the argument of other macros. Macro \eolgrab is made robust if either  $\varepsilon$ -TeX's \protected or IATeX's \DeclareRobustCommand is available.

```
\eolgrabopt \{\langle code \rangle\}\ \langle argument \rangle\ \langle \textit{EOL} \rangle
```

Macro \eolgrabopt passes  $\langle argument \rangle$  as optional argument to  $\langle code \rangle$  if  $\langle argument \rangle$  is not empty.

\eolgrabopt\item foo

becomes to

\item[{foo}]

The curly argument braces are added to support square brackets inside  $\langle argument \rangle$ . If the  $\langle argument \rangle$  is empty:

\eolgrabopt\item

then

\item

is called without optional argument.

## 1.1 Examples

• The line

\eolgrab\section My Title

is equivalent to

\section{My Title}

• The next example uses the star form of \section. Then the command to be called consists of two tokens. Therefore the first argument of \sectional collars needs curly braces:

\eolgrab{\section\*}My Title

becomes

\section\*{My Title}

• Now IATEX's \PackageError is used. This macro has three arguments, the package or class name, the message text and the help text. A standard help text of IATEX is used as given in macro \Qehc. The second argument, the message text is used as argument, delimited by line end:

```
\eolgrab{\PackageError{foobar}}%
Some error message text\MessageBreak%
with several lines
\@ehc
```

In the first two lines of the example, the line end is suppressed by the comment character (percent), thus the argument is delimited by the line end of the third line. The result is:

 $\label{thm:condition} $$ \operatorname{Error}_{\text{oobar}}(Some \ error \ message \ text\\ with \ several \ lines\\ \end{times} $$$ 

• The original request for macro \eolsection, see above, can be implemented easily with the help of \eolgrab. Example for LATeX:

```
\usepackage{eolgrab}
\newcommand*{\eolsection}{\eolgrab\section}
```

Example for plain T<sub>F</sub>X:

```
\input eolgrab.sty\relax
\def\eolsection{\eolgrab\section}
```

And a sophisticated variant for  $\LaTeX$  that also supports the star syntax and the optional argument:

```
\*example-sec\
1
2
        \documentclass{article}
3
        \usepackage{eolgrab}
4
        \makeatletter
        \newcommand*{\eolsection}{%
5
          \@ifstar{%
6
            \eolgrab{\section*}%
7
          }{%
8
9
            \@ifnextchar[{%
              \eoloptsection
10
11
              \eolgrab\section
12
13
            }%
14
         }%
       }
15
        \newcommand*{\eoloptsection}[1][]{%
16
          \eolgrab{\section[{#1}]}%
17
18
       \makeatother
19
        \begin{document}
20
        \tableofcontents
21
        \eolsection Section without star and optional argument
22
23
        \eolsection*Section with star
24
        \eolsection[Short section title]Long section title
25
        \end{document}
        ⟨/example-sec⟩
26
```

#### 1.1.1 Small IATEX document as example

```
27 (*example-ltx)
28 \RequirePackage{eolgrab}
29 \eolgrab\documentclass article
30 \eolgrab\begin document
31 \eolgrab\section Hello World
32 \eolgrab\emph Some text
33 \eolgrab\end document
34 (/example-ltx)
```

#### 1.1.2 LATEX document with environments

```
35 (*example-env)
36 \documentclass{article}
37 \usepackage{eolgrab}
38 \newcommand*{\Begin}{\eolgrab
                                     \begin}
39 \newcommand*{\End }{\eolgrab
                                     \end }
40 \newcommand*{\Item }{\eolgrabopt\item }
41 \Begin document
    \Begin itemize
42
43
      \Item
        first item
44
       \Ttem
45
        second item
46
47
    \End itemize
    \Begin description
48
49
      \Item foo
        is the first syllable of foobar.
50
51
      \Item bar
        is the second syllable of foobar.
    \End description
53
54 \End document
55 (/example-env)
```

#### 1.2 Limitations

Macro \eolgrab needs to catch the line end. If TEX reads a line, then it throws away the line end characters (carriage return, line feed) and removes spaces at the end of the line. Then it adds the character with the character code that is given by \endlinechar at the end of the line. The category code of the inserted character is given by the current value of its \catcode. If \endlinechar is not a valid character code (especially if it is negative), then no character is added.

In plain TEX and LATEX the standard settings of the inserted endline character is the character with code 13 (or ^M in TEX notation) with catcode 5 (end of line). That means the inserted end of line character behaves like a space token. For example, it is removed after macro names. Therefore \eolgrab changes the catcode.

Therefore \eolgrab has some limitations:

- Like other verbatim stuff, the macro \eolgrab cannot be used in the argument of other macros. \eolgrab want to change the catcode of the end of line character. If this character is read before, because it is processed as argument of another macro, the catcode is already set and is not reassigned later if \eolgrab changes the category code for this character code.
- The argument must not contain the end of line character. Otherwise the first end of line character is already taken as delimiter, leaving the rest of the line outside the argument.
- Because \eolgrab is probably mostly used in the line with the delimited argument. Therefore changes of \endlinechar will not affect the current line.

## 2 Implementation

```
56 (*package)
```

#### 2.1 Reload check and package identification

Reload check, especially if the package is not used with LATEX.

```
\endlinechar=13 %
 59
     \catcode35=6 % #
 60
     \catcode39=12 % '
 61
     \catcode44=12 % ,
 62
     \catcode45=12 % -
 63
 64
     \catcode46=12 % .
 65
     \catcode58=12 % :
 66
     \catcode64=11 % @
     \catcode123=1 % {
 67
     \catcode125=2 % }
 68
     \expandafter\let\expandafter\x\csname ver@eolgrab.sty\endcsname
 69
     \ifx\x\relax % plain-TeX, first loading
 70
 71
     \else
       \def\empty{}%
 72
       \ifx\x\empty % LaTeX, first loading,
 73
 74
         % variable is initialized, but \ProvidesPackage not yet seen
 75
         \expandafter\ifx\csname PackageInfo\endcsname\relax
 76
           \def\x#1#2{%}
 77
 78
             \immediate\write-1{Package #1 Info: #2.}%
           }%
 79
         \else
 80
           81
 82
         \x{eolgrab}{The package is already loaded}%
 83
         \aftergroup\endinput
 84
 85
       \fi
     \fi
 86
 87 \endgroup%
Package identification:
 88 \begingroup\catcode61\catcode48\catcode32=10\relax%
     \verb|\catcode13=5 % ^^M|
     \endlinechar=13 %
 90
     \catcode35=6 % #
 91
     \catcode39=12 % '
 92
     \catcode40=12 % (
 93
     \catcode41=12 % )
 94
    \colone{1}{catcode44=12 \% },
 95
     \catcode45=12 % -
 96
     \catcode46=12 % .
 97
    \catcode47=12 % /
 98
    \catcode58=12 % :
 99
100
    \catcode64=11 % @
101
     \catcode91=12 % [
102
     \catcode93=12 % ]
     \catcode123=1 % {
103
     \catcode125=2 % }
104
     \expandafter\ifx\csname ProvidesPackage\endcsname\relax
105
106
       \def\x#1#2#3[#4]{\endgroup
         \immediate\write-1{Package: #3 #4}%
107
         \xdef#1{#4}%
108
109
       }%
110
     \else
       \def \x#1#2[#3] {\endgroup}
111
112
         #2[{#3}]%
         \ifx#1\@undefined
113
           \xdef#1{#3}%
114
         \fi
115
         \fint 1 \leq x
116
           \xdef#1{#3}%
117
         \fi
118
119
       }%
```

```
120 \fi
121 \expandafter\x\csname ver@eolgrab.sty\endcsname
122 \ProvidesPackage{eolgrab}%
123 [2011/01/12 v1.0 Catch arguments delimited by end of line (HO)]%
```

```
2.2
      Catcodes
124 \begingroup\catcode61\catcode48\catcode32=10\relax%
     \catcode13=5 % ^^M
126
     \endlinechar=13 %
127
     \catcode123=1 % {
128
     \catcode125=2 % }
129
     \catcode64=11 % @
     \def\x{\endgroup
130
       \expandafter\edef\csname eolgrab@AtEnd\endcsname{%
131
         \endlinechar=\the\endlinechar\relax
132
         \catcode13=\the\catcode13\relax
133
         \catcode32=\the\catcode32\relax
134
135
         \catcode35=\the\catcode35\relax
         \catcode61=\the\catcode61\relax
136
         \catcode64=\the\catcode64\relax
137
138
         \catcode123=\the\catcode123\relax
139
         \catcode125=\the\catcode125\relax
140
       }%
    }%
141
142 \x \catcode61\catcode48\catcode32=10\relax\%
143 \catcode13=5 % ^^M
144 \endlinechar=13 %
145 \catcode35=6 \% #
146 \catcode64=11 \% @
147 \catcode123=1 % {
148 \catcode125=2 % }
149 \def\TMP@EnsureCode#1#2{%
150
     \edef\eolgrab@AtEnd{%
       \eolgrab@AtEnd
151
       \catcode#1=\the\catcode#1\relax
152
    }%
153
     \color= 1=#2\relax
154
155 }
156 \TMP@EnsureCode{40}{12}% (
157 \TMP@EnsureCode{41}{12}%)
158 \TMP@EnsureCode{42}{12}% *
159 \TMP@EnsureCode\{46\}\{12\}\% .
160 \TMP@EnsureCode{47}{12}% /
161 \TMP@EnsureCode{91}{12}% [
162 \TMP@EnsureCode{93}{12}% ]
163 \TMP@EnsureCode{94}{7}% ^
164 \edgrab@AtEnd{eolgrab@AtEnd\\noexpand\endinput}
2.3
     Resources
165 \begingroup\expandafter\expandafter\expandafter\endgroup
166 \verb|\expandafter\ifx\csname RequirePackage\endcsname\relax|
167
     \input ltxcmds.sty\relax
    \input infwarerr.sty\relax
168
169 \else
    \RequirePackage{ltxcmds}[2010/12/04]%
171
     \RequirePackage{infwarerr}[2010/04/08]%
172 \fi
```

\eolgrab@ifdefinable

```
173 \ltx@IfUndefined{@ifdefinable}{%
174 \def\eolgrab@ifdefinable#1#2{%
```

```
\ltx@ifundefined{#1}{#2}{%
                                     175
                                                                 \@PackageError{eolgrab}{%
                                     176
                                                                      Command \ltx@backslashchar#1 already defined%
                                     177
                                     178
                                      179
                                                          }%
                                      180
                                                    }%
                                     181 }{%
                                     182
                                                     \def\eolgrab@ifdefinable#1{%
                                                           \expandafter\@ifdefinable\csname#1\endcsname
                                     183
                                     184
                                     185 }
                                                      Macro \eolgrab
                                     2.4
        \eolgrab
                                      186 \eolgrab@ifdefinable{eolgrab}{%
                                                     \ltx@IfUndefined{protected}{%
                                      187
                                                          \ltx@IfUndefined{DeclareRobustCommand}{%
                                     188
                                                                 \def\eolgrab#1%
                                     189
                                                          }{%
                                     190
                                     191
                                                                 \newcommand\eolgrab{}%
                                     192
                                                                 \DeclareRobustCommand*\eolgrab
                                     193
                                                          }%
                                     194
                                                    }{%
                                     195
                                                          \protected\def\eolgrab#1%
                                     196
                                                    }{%
                                     197
                                                          \begingroup
                                                          \endlinechar=13 %
                                     198
                                                          \catcode13=\ltx@active
                                     199
                                                          \eolgrab@{#1}%
                                     200
                                                    }%
                                     201
                                     202 }
\eolgrabopt
                                     \ltx@IfUndefined{protected}{%
                                     204
                                                           \ltx@IfUndefined{DeclareRobustCommand}{%
                                     205
                                                                 \def\eolgrabopt#1%
                                     206
                                     207
                                                          }{%
                                                                 \newcommand\eolgrabopt{}%
                                     208
                                                                 \DeclareRobustCommand*\eolgrabopt
                                     209
                                                          }%
                                     210
                                     211
                                                    }{%
                                     212
                                                          \protected\def\eolgrabopt#1%
                                                    }{%
                                     213
                                     214
                                                          \begingroup
                                                          \verb|\endlinechar=13 %|
                                     215
                                                          \catcode13=\ltx@active
                                     216
                                     217
                                                           \eolgrab@opt{#1}%
                                     218
                                                    }%
                                     219 }
                                     220 \begingroup
                                                    \catcode13=\ltx@active %
                                     222 \ltx@firstofone{\endgroup %
     \eolgrab@
                                                     \end{def} $$ \en
                                     223
                                     224
                                                          \endgroup %
                                                          #1{#2}%
                                     225
                                                   }%
                                     226
```

#### \eolgrab@opt

```
\def\eolgrab@opt#1#2^^M{%
227
        \endgroup %
228
229
        \t 0 \text{ if empty}{\#2}{\%}
230
          #1%
231
        }{%
          #1[{#2}]%
232
        }%
233
     }%
234
235 }%
236 \eolgrab@AtEnd%
237 (/package)
```

## 3 Test

## 3.1 Catcode checks for loading

```
238 \langle *test1 \rangle
239 \catcode`\{=1 %
240 \catcode \}=2 %
241 \catcode \#=6 %
242 \catcode \@=11 %
243 \expandafter\ifx\csname count@\endcsname\relax
244 \countdef\count@=255 %
245 \fi
248 \fi
249 \expandafter\ifx\csname @firstofone\endcsname\relax
250 \quad \texttt{\long\def\@firstofone\#1{\#1}\%}
251 \fi
252 \expandafter\ifx\csname loop\endcsname\relax
253 \expandafter\@firstofone
254 \ensuremath{\setminus} else
255 \expandafter\@gobble
256 \fi
257 {%
    \def\loop#1\repeat{%
258
       \def\body{#1}%
259
260
       \iterate
261
    }%
262
     \def\iterate{%
263
       \body
264
         \let\next\iterate
265
       \else
266
         \let\next\relax
267
       \fi
       \next
268
    }%
269
270
     \let\repeat=\fi
271 }%
272 \def\RestoreCatcodes{}
273 \count@=0 %
274 \loop
275
     \edef\RestoreCatcodes{%
276
       \RestoreCatcodes
       \catcode\the\count@=\the\catcode\count@\relax
277
    }%
278
279 \ifnum\count@<255 %
    \advance\count@ 1 %
```

```
281 \repeat
282
283 \def\RangeCatcodeInvalid#1#2{%
     \count@=#1\relax
284
285
     \loop
286
       \catcode\count@=15 %
287
     \ifnum\count@<#2\relax
288
       \advance\count@ 1 %
289
     \repeat
290 }
291 \def\RangeCatcodeCheck#1#2#3{%
     \count@=#1\relax
292
293
     \loop
       \ifnum#3=\catcode\count@
294
       \else
295
296
         \errmessage{%
           Character \the\count@\space
297
           with wrong catcode \the\catcode\count@\space
298
           instead of \number#3%
299
300
         }%
301
       \fi
     \ifnum\count@<#2\relax
302
       \advance\count@ 1 %
303
304
     \repeat
305 }
306 \def\space{ }
307 \expandafter\ifx\csname LoadCommand\endcsname\relax
     \def\LoadCommand{\input eolgrab.sty\relax}%
309 \fi
310 \def\Test{\%}
311
     \RangeCatcodeInvalid{0}{47}%
312
     \RangeCatcodeInvalid{58}{64}%
313
     \RangeCatcodeInvalid{91}{96}%
314
     \RangeCatcodeInvalid{123}{255}%
     \catcode`\@=12 %
315
316
     \catcode`\\=0 %
317
     \catcode`\%=14 %
318
     \LoadCommand
319
     \RangeCatcodeCheck{0}{36}{15}%
     \RangeCatcodeCheck{37}{37}{14}%
320
     321
     322
     \RangeCatcodeCheck{58}{63}{15}%
323
     \RangeCatcodeCheck{64}{64}{12}%
324
325
     \RangeCatcodeCheck{65}{90}{11}%
326
     \RangeCatcodeCheck{91}{91}{15}%
327
     \RangeCatcodeCheck{92}{92}{0}%
328
     \RangeCatcodeCheck{93}{96}{15}%
329
     \RangeCatcodeCheck{97}{122}{11}%
     330
     \RestoreCatcodes
331
332 }
333 \Test
334 \csname @@end\endcsname
335 \end
336 (/test1)
3.2
      Tests for plain TeX
337 (*test2)
338 \neq eolgrab.sty \leq a
339 \catcode`\{=1 %
340 \catcode`\}=2 %
```

```
341 \eolgrab{\immediate\write16}Hello World
342 \def\TestExpected{foo bar}
343 \eolgrab{\def\TestResult}foo bar
345 \ifx\TestExpected\TestResult
     \immediate\write16{* Ok (foo bar)}%
346
347 \else
348
     \errmessage{Test failed (foo bar)}%
349 \fi
350
351 \begingroup
     \def\TestExpected{foobar}%
352
     \endlinechar=-1 %
353
     \eolgrab{\def\TestResult}foo
354
355
     ^^M
356
     \ifx\TestExpected\TestResult
357
       \immediate\write16{* Ok (foobar)}%
358
359
     \else
360
       \errmessage{Test failed (foobar)}%
361
     \fi
362 \endgroup
363
364 \csname @@end\endcsname\end
365 (/test2)
```

## 4 Installation

#### 4.1 Download

Package. This package is available on CTAN<sup>2</sup>:

CTAN:macros/latex/contrib/oberdiek/eolgrab.dtx The source file.

CTAN:macros/latex/contrib/oberdiek/eolgrab.pdf Documentation.

**Bundle.** All the packages of the bundle 'oberdiek' are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

TDS refers to the standard "A Directory Structure for TEX Files" (CTAN:tds/tds.pdf). Directories with texmf in their name are usually organized this way.

#### 4.2 Bundle installation

Unpacking. Unpack the oberdiek.tds.zip in the TDS tree (also known as texmf tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory TDS:scripts/oberdiek/ for scripts that need further installation steps. Package attachfile2 comes with the Perl script pdfatfi.pl that should be installed in such a way that it can be called as pdfatfi. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

 $<sup>^2</sup>$ ftp://ftp.ctan.org/tex-archive/

## 4.3 Package installation

**Unpacking.** The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain T<sub>F</sub>X:

```
tex eolgrab.dtx
```

**TDS.** Now the different files must be moved into the different directories in your installation TDS tree (also known as texmf tree):

```
 \begin{array}{lll} \mbox{eolgrab.sty} & \rightarrow \mbox{tex/generic/oberdiek/eolgrab.sty} \\ \mbox{eolgrab.pdf} & \rightarrow \mbox{doc/latex/oberdiek/eolgrab.pdf} \\ \mbox{example/eolgrab-example-ltx.tex} & \rightarrow \mbox{doc/latex/oberdiek/example/eolgrab-example-ltx.tex} \\ \mbox{example/eolgrab-example-env.tex} & \rightarrow \mbox{doc/latex/oberdiek/example/eolgrab-example-env.tex} \\ \mbox{example/eolgrab-example-sec.tex} & \rightarrow \mbox{doc/latex/oberdiek/example/eolgrab-example-sec.tex} \\ \mbox{test/eolgrab-test1.tex} & \rightarrow \mbox{doc/latex/oberdiek/test/eolgrab-test2.tex} \\ \mbox{eolgrab.dtx} & \rightarrow \mbox{source/latex/oberdiek/eolgrab.dtx} \\ \end{array}
```

If you have a docstrip.cfg that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

## 4.4 Refresh file name databases

If your T<sub>E</sub>X distribution (teT<sub>E</sub>X, mikT<sub>E</sub>X, ...) relies on file name databases, you must refresh these. For example, teT<sub>E</sub>X users run texhash or mktexlsr.

#### 4.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the .dtx source file. It can be extracted by AcrobatReader 6 or higher. Another option is pdftk, e.g. unpack the file into the current directory:

```
pdftk eolgrab.pdf unpack_files output .
```

Unpacking with IATEX. The .dtx chooses its action depending on the format:

plain TEX: Run docstrip and extract the files.

LATEX: Generate the documentation.

If you insist on using LATEX for docstrip (really, docstrip does not need LATEX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{eolgrab.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the .dtx or the .drv to generate the documentation. The process can be configured by the configuration file ltxdoc.cfg. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfIAT<sub>F</sub>X:

```
pdflatex eolgrab.dtx
makeindex -s gind.ist eolgrab.idx
pdflatex eolgrab.dtx
makeindex -s gind.ist eolgrab.idx
pdflatex eolgrab.dtx
```

## 5 Catalogue

The following XML file can be used as source for the TEX Catalogue. The elements caption and description are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is eolgrab.xml.

```
366 (*catalogue)
367 <?xml version='1.0' encoding='us-ascii'?>
368 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
369 <entry datestamp='$Date$' modifier='$Author$' id='eolgrab'>
     <name>eolgrab</name>
     <caption>Catch arguments delimited by end of line.</caption>
371
    <authorref id='auth:oberdiek'/>
372
    <copyright owner='Heiko Oberdiek' year='2011'/>
373
374
    <license type='lppl1.3'/>
375
    <version number='1.0'/>
    <description>
376
      The package defines the command \t \sim \ that reads an
377
       string terminated by end of line, and then calls a macro with that
378
       string as argument. Thus
379
       \eolgrab\section My title is equivalent to
380
381
       \section{My title}
382
       383
       A second command <tt>\eolgrabopt</tt> provides the string as an
384
       optional argument (which is useful for <tt>\item</tt>, for example).
385
       The package is part of the  refid='oberdiek'>oberdiek
386
387
     </description>
     <documentation details='Package documentation'</pre>
388
         href='ctan:/macros/latex/contrib/oberdiek/eolgrab.pdf'/>
389
     <ctan file='true' path='/macros/latex/contrib/oberdiek/eolgrab.dtx'/>
390
     <miktex location='oberdiek'/>
391
    <texlive location='oberdiek'/>
393 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
394 </entry>
395 (/catalogue)
```

## 6 References

- [1] Arno Trautmann, [texhax] read argument until EOL; mailing list texthax@tug.org, 2011-01-06; http://tug.org/pipermail/texhax/2011-January/016517.html.
- [2] Philip Taylor, Re: [texhax] read argument until EOL; mailing list texhax@tug.org, 2011-01-06; http://tug.org/pipermail/texhax/2011-January/016519.html.
- [3] Heiko Oberdiek, Re: [texhax] read argument until EOL; mailing list texhax@tug.org, 2011-01-06; http://tug.org/pipermail/texhax/2011-January/016526.html.

## 7 History

## [2011/01/12 v1.0]

First public version.

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