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 texhax¹ [1]. A macro \eolsection should behave like \section, but the argument should be delimited by the line end instead of given in curly braces:

\eolsection My Title

^{*}Please report any issues at https://github.com/ho-tex/oberdiek/issues

¹Info page for mailing list texhax: https://tug.org/mailman/listinfo/texhax

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 $I A T_E X$ are supported by the package, see the example for **\eolsection** below.

```
\ensuremath{lack} \ensuremath{lack} \ensuremath{\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensuremath}\mbox{\ensurem
```

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 ε -TeX's \protected or Lagrange Yeolgrab is available.

```
\ensuremath{lack}\ensuremath{lack}\ensuremath{\langle code
angle}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath}\ensuremath}\ensuremath{\del{argument}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath
```

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 \eolgrab 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 \@ehc. 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\MessageBreak\ with\ several\ lines}\@$

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

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

Example for plain T_EX :

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

And a sophisticated variant for IATEX 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 LATEX 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
42
    \Begin itemize
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 \langle \text{/example-env} \rangle
```

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.

```
57 \begingroup\catcode61\catcode48\catcode32=10\relax% 58 \catcode13=5 % ^^M
```

```
\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%
     \color= 13=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 [2016/05/16 v1.1 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 % {
     \catcode125=2 % }
128
     \catcode64=11 % @
129
     \def\x{\endgroup
130
       \expandafter\edef\csname eolgrab@AtEnd\endcsname{%
131
132
         \endlinechar=\the\endlinechar\relax
         \catcode13=\the\catcode13\relax
133
134
         \catcode32=\the\catcode32\relax
135
         \catcode35=\the\catcode35\relax
136
         \catcode61=\the\catcode61\relax
137
         \catcode64=\the\catcode64\relax
138
         \catcode123=\the\catcode123\relax
139
         \catcode125=\the\catcode125\relax
       ጉ%
140
    }%
141
142 \x\catcode61\catcode48\catcode32=10\relax%
143 \catcode13=5 % ^^M
144 \endlinechar=13 %
145 \catcode35=6 \% #
146 \catcode64=11 \% 0
147 \catcode123=1 % {
148 \catcode125=2 \% }
149 \def\TMP@EnsureCode#1#2{%
     \edef\eolgrab@AtEnd{%
150
       \eolgrab@AtEnd
151
       \catcode#1=\the\catcode#1\relax
152
153
154
     \catcode#1=#2\relax
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 \edef\eolgrab@AtEnd{\eolgrab@AtEnd\noexpand\endinput}
2.3
      Resources
165 \begingroup\expandafter\expandafter\expandafter\endgroup
166 \expandafter\ifx\csname RequirePackage\endcsname\relax
   \input ltxcmds.sty\relax
167
168
    \input infwarerr.sty\relax
169 \else
     \RequirePackage{ltxcmds}[2010/12/04]%
171
     \RequirePackage{infwarerr}[2010/04/08]%
172 \fi
173 \ltx@IfUndefined{@ifdefinable}{%
174
     \def\eolgrab@ifdefinable#1#2{%
       \t 1{%
175
```

\eolgrab@ifdefinable

```
\@PackageError{eolgrab}{%
             176
                         Command \ltx@backslashchar#1 already defined%
             177
             178
                       }\@ehc
             179
                     }%
             180
                   }%
             181 }{%
             182
                   \def\eolgrab@ifdefinable#1{%
             183
                     \expandafter\@ifdefinable\csname#1\endcsname
                   }%
             184
             185 }
             2.4
                    Macro \eolgrab
    \eolgrab
             186 \eolgrab@ifdefinable{eolgrab}{%
                   \ltx@IfUndefined{protected}{%
                     \ltx@IfUndefined{DeclareRobustCommand}{%
             188
                       \def\eolgrab#1%
             189
                     }{%
             190
                       \newcommand\eolgrab{}%
             191
             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
             203 \eolgrab@ifdefinable{eolgrabopt}{%
                   \ltx@IfUndefined{protected}{%
             204
                     \ltx@IfUndefined{DeclareRobustCommand}{%
             205
             206
                       \def\eolgrabopt#1%
                     }{%
             207
             208
                       \newcommand\eolgrabopt{}%
             209
                       \DeclareRobustCommand*\eolgrabopt
             210
                     }%
             211
                   }{%
                     \protected\def\eolgrabopt#1%
             212
                   }{%
             213
             214
                     \begingroup
                     \endlinechar=13 %
             215
                     \catcode13=\ltx@active
             216
                     \eolgrab@opt{#1}%
             217
             218
                   }%
             219 }
             220 \begingroup
                   \catcode13=\ltx@active %
             222 \ltx@firstofone{\endgroup %
   \eolgrab@
             223
                   \def\eolgrab@#1#2^^M{%
             224
                     \endgroup %
             225
                     #1{#2}%
             226
                  }%
\eolgrab@opt
```

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

3 Installation

3.1 Download

Package. This package is available on CTAN²:

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:pkg/tds). Directories with texmf in their name are usually organized this way.

3.2 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
```

3.3 Package installation

Unpacking. The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain T_EX:

```
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{tabular}{lll} eolgrab.sty & $\to$ tex/generic/oberdiek/eolgrab.sty \\ eolgrab.pdf & $\to$ doc/latex/oberdiek/eolgrab.pdf \\ example/eolgrab-example-ltx.tex & $\to$ doc/latex/oberdiek/example/eolgrab-example-ltx.tex \\ example/eolgrab-example-env.tex & $\to$ doc/latex/oberdiek/example/eolgrab-example-env.tex \\ example/eolgrab-example-sec.tex & $\to$ doc/latex/oberdiek/example/eolgrab-example-sec.tex \\ eolgrab.dtx & $\to$ source/latex/oberdiek/eolgrab.dtx \\ \end{tabular}
```

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.

²CTAN:pkg/eolgrab

3.4 Refresh file name databases

If your T_EX distribution (T_EX Live, MiKT_EX, ...) relies on file name databases, you must refresh these. For example, T_EX Live users run texhash or mktexlsr.

3.5 Some details for the interested

Unpacking with LaTeX. 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 pdfIATEX:

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

4 References

- [1] Arno Trautmann, [texhax] read argument until EOL; mailing list texthax@tug.org, 2011-01-06; https://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; https://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; https://tug.org/pipermail/texhax/2011-January/016526.html.

5 History

[2011/01/12 v1.0]

• First public version.

[2016/05/16 v1.1]

 \bullet Documentation updates.

6 Index

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