

# The infwarerr package

Heiko Oberdiek\*

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## Abstract

This package provides a complete set of macros for informations, warnings and error messages with support for plain  $\text{\TeX}$ .

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## 1 Documentation

Package infwarerr defines the following set of commands, given as pseudo regular expression:

```
\@(Package|Class)(Info|InfoNoLine|Warning|WarningNoLine|Error)
```

---

\*Please report any issues at <https://github.com/ho-tex/infwarerr/issues>

The first argument is the package or class in question. The second argument contains the message text. `\MessageBreak` is supported. In case of error messages, the third argument contains the help text. Supported are L<sup>A</sup>T<sub>E</sub>X's message texts `\@ehc`:

```
Try typing <return> to proceed
If that doesn't work, type X <return> to quit.
```

and `\@ehd`:

```
You're in trouble here. Try typing <return> to proceed
If that doesn't work, type X <return> to quit.
```

The package is intended for macro writers that want to write code that works for both L<sup>A</sup>T<sub>E</sub>X and plain T<sub>E</sub>X. If L<sup>A</sup>T<sub>E</sub>X is detected, then the macros of this package will only be wrappers for L<sup>A</sup>T<sub>E</sub>X's macros. Otherwise L<sup>A</sup>T<sub>E</sub>X's macros will be mimicked for use with plain T<sub>E</sub>X.

## 2 Implementation

```
1 (*package)
```

### 2.1 Reload check and package identification

Reload check, especially if the package is not used with L<sup>A</sup>T<sub>E</sub>X.

```
2 \begingroup\catcode61\catcode48\catcode32=10\relax%
3 \catcode13=5 % ^M
4 \endlinechar=13 %
5 \catcode35=6 % #
6 \catcode39=12 % '
7 \catcode44=12 % ,
8 \catcode45=12 % -
9 \catcode46=12 % .
10 \catcode58=12 % :
11 \catcode64=11 % @
12 \catcode123=1 % {
13 \catcode125=2 % }
14 \expandafter\let\expandafter\x\csname ver@infwarerr.sty\endcsname
15 \ifx\x\relax % plain-TeX, first loading
16 \else
17 \def\empty{}%
18 \ifx\x\empty % LaTeX, first loading,
19 % variable is initialized, but \ProvidesPackage not yet seen
20 \else
21 \expandafter\ifx\csname PackageInfo\endcsname\relax
22 \def\x#1#2{%
23 \immediate\write-1{Package #1 Info: #2.}%
24 }%
25 \else
26 \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
27 \fi
28 \x{infwarerr}{The package is already loaded}%
29 \aftergroup\endinput
30 \fi
31 \fi
32 \endgroup%
```

Package identification:

```

33 \begingroup\catcode61\catcode48\catcode32=10\relax%
34 \catcode13=5 % ^^M
35 \endlinechar=13 %
36 \catcode35=6 % #
37 \catcode39=12 % '
38 \catcode40=12 % (
39 \catcode41=12 % )
40 \catcode44=12 % ,
41 \catcode45=12 % -
42 \catcode46=12 % .
43 \catcode47=12 % /
44 \catcode58=12 % :
45 \catcode64=11 % @
46 \catcode91=12 % [
47 \catcode93=12 % ]
48 \catcode123=1 % {
49 \catcode125=2 % }
50 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
51 \def\x#1#2#3[#4]{\endgroup
52 \immediate\write-1{Package: #3 #4}%
53 \xdef#1{#4}%
54 }%
55 \else
56 \def\x#1#2[#3]{\endgroup
57 #2[#{#3}]%
58 \ifx#1\@undefined
59 \xdef#1{#3}%
60 \fi
61 \ifx#1\relax
62 \xdef#1{#3}%
63 \fi
64 }%
65 \fi
66 \expandafter\x\csname ver@infwarerr.sty\endcsname
67 \ProvidesPackage{infwarerr}%
68 [2019/12/03 v1.5 Providing info/warning/error messages (H0)]%

```

## 2.2 Catcodes

```

69 \begingroup\catcode61\catcode48\catcode32=10\relax%
70 \catcode13=5 % ^^M
71 \endlinechar=13 %
72 \catcode123=1 % {
73 \catcode125=2 % }
74 \catcode64=11 % @
75 \def\x{\endgroup
76 \expandafter\edef\csname InfWarErr@AtEnd\endcsname{%
77 \endlinechar=\the\endlinechar\relax
78 \catcode13=\the\catcode13\relax
79 \catcode32=\the\catcode32\relax
80 \catcode35=\the\catcode35\relax
81 \catcode61=\the\catcode61\relax
82 \catcode64=\the\catcode64\relax
83 \catcode123=\the\catcode123\relax
84 \catcode125=\the\catcode125\relax
85 }%
86 }%
87 \x\catcode61\catcode48\catcode32=10\relax%

```

```

88 \catcode13=5 % ^^M
89 \endlinechar=13 %
90 \catcode35=6 % #
91 \catcode64=11 % @
92 \catcode123=1 % {
93 \catcode125=2 % }
94 \def\TMP@EnsureCode#1#2{%
95   \edef\InfWarErr@AtEnd{%
96     \InfWarErr@AtEnd
97     \catcode#1=\the\catcode#1\relax
98   }%
99   \catcode#1=#2\relax
100 }
101 \TMP@EnsureCode{10}{12}% ^^J
102 \TMP@EnsureCode{39}{12}% '
103 \TMP@EnsureCode{40}{12}% (
104 \TMP@EnsureCode{41}{12}% )
105 \TMP@EnsureCode{44}{12}% ,
106 \TMP@EnsureCode{45}{12}% -
107 \TMP@EnsureCode{46}{12}% .
108 \TMP@EnsureCode{58}{12}% :
109 \TMP@EnsureCode{60}{12}% <
110 \TMP@EnsureCode{62}{12}% >
111 \TMP@EnsureCode{94}{7}% ^
112 \edef\InfWarErr@AtEnd{\InfWarErr@AtEnd\noexpand\endinput}

```

## 2.3 L<sup>A</sup>T<sub>E</sub>X detection

```

113 \begingroup
114   \let\x=Y%
115   \def\check#1{%
116     \@check{Generic}{#1}%
117     \@check{Package}{#1}%
118     \@check{Class}{#1}%
119   }%
120   \def\@check#1#2{%
121     \expandafter\ifx\csname #1#2\endcsname\relax
122       \let\x=N%
123     \fi
124   }%
125   \check{Info}%
126   \check{Warning}%
127   \check{Error}%
128   \@check{Package}{WarningNoLine}%
129   \@check{Class}{WarningNoLine}%
130   \@check{}{@ehc}%
131   \@check{}{@ehd}%
132 \expandafter\endgroup
133 \ifx\x Y%

```

## 2.4 Version for L<sup>A</sup>T<sub>E</sub>X

\@PackageInfo

```
134 \let\@PackageInfo\PackageInfo
```

\@PackageInfoNoLine

```

135 \def\@PackageInfoNoLine#1#2{%
136   \PackageInfo{#1}{#2@gobble}%
137 }%

```

```

\@ClassInfo
138 \let\@ClassInfo\ClassInfo

\@ClassInfoNoLine
139 \def\@ClassInfoNoLine#1#2{%
140 \ClassInfo{#1}{#2\@gobble}%
141 }%

\@PackageWarning
142 \let\@PackageWarning\PackageWarning

\@PackageWarningNoLine
143 \let\@PackageWarningNoLine\PackageWarningNoLine

\@ClassWarning
144 \let\@ClassWarning\ClassWarning

\@ClassWarningNoLine
145 \let\@ClassWarningNoLine\ClassWarningNoLine

\@PackageError
146 \let\@PackageError\PackageError

\@ClassError
147 \let\@ClassError\ClassError

148 \expandafter\InfWarErr@AtEnd
149 \fi%

```

## 2.5 Version for plain T<sub>E</sub>X

```

\InfWarErr@online
150 \begingroup\expandafter\endgroup
151 \ifcase\expandafter\ifx\csname inputlineno\endcsname\relax
152 0 %
153 \else
154 \ifnum\inputlineno<0 %
155 0 %
156 \else
157 1 %
158 \fi
159 \fi
160 \def\InfWarErr@online{}%
161 \else
162 \def\InfWarErr@online{ on input line \the\inputlineno}%
163 \fi

\InfWarErr@protected
164 \begingroup\expandafter\expandafter\expandafter\endgroup
165 \expandafter\ifx\csname protected\endcsname\relax
166 \def\InfWarErr@protected{}%
167 \else
168 \let\InfWarErr@protected\protected
169 \fi

\InfWarErr@unused
170 \chardef\InfWarErr@unused=16 %

```

\InfWarErr@ehc

```
171 \def\InfWarErr@ehc{%
172   Try typing \space <return> \space to proceed.\MessageBreak
173   If that doesn't work, type \space X <return> \space to quit.%
174 }
```

\InfWarErr@ehd

```
175 \def\InfWarErr@ehd{%
176   You're in trouble here. \space\@ehc
177 }
```

\InfWarErr@GenericInfo

```
178 \InfWarErr@protected\def\InfWarErr@GenericInfo#1#2{%
179   \begingroup
180   \let\on@line\InfWarErr@online
181   \long\def\@gobble##1{%
182     \def\space{ }%
183     \def\@spaces{\space\space\space\space}%
184     \def\MessageBreak{^^J#1}%
185     \newlinechar=10 %
186     \escapechar=92 %
187     \immediate\write-1{#2\on@line.}%
188   \endgroup
189 }
```

\InfWarErr@GenericWarning

```
190 \InfWarErr@protected\def\InfWarErr@GenericWarning#1#2{%
191   \begingroup
192   \let\on@line\InfWarErr@online
193   \long\def\@gobble##1{%
194     \def\space{ }%
195     \def\@spaces{\space\space\space\space}%
196     \def\MessageBreak{^^J#1}%
197     \newlinechar=10 %
198     \escapechar=92 %
199     \immediate\write\InfWarErr@unused{^^J#2\on@line.^^J}%
200   \endgroup
201 }
```

\InfWarErr@GenericError Old TeX versions below 3.141 where ^^J is not working as newline in error message and help texts are not supported.

```
202 \InfWarErr@protected\def\InfWarErr@GenericError#1#2#3#4{%
203   \begingroup
204   \immediate\write\InfWarErr@unused{%
205     \def\space{ }%
206     \def\@spaces{\space\space\space\space}%
207     \let\@ehc\InfWarErr@ehc
208     \let\@ehd\InfWarErr@ehd
209     \let\on@line\InfWarErr@online
210     \def\MessageBreak{^^J}%
211     \newlinechar=10 %
212     \escapechar=92 %
213     \edef\InfWarErr@help{\noexpand\errhelp{#4}}%
214     \InfWarErr@help
215     \def\MessageBreak{^^J#1}%
216     \errmessage{%
217       #2.^^J^^J%
```

```

218     #3^^J%
219     Type \space H <return> \space for immediate help.^^J ...^^J%
220   }%
221 \endgroup
222 }

```

\@PackageInfo

```

223 \def\@PackageInfo#1#2{%
224   \InfWarErr@GenericInfo{%
225     (#1) \@spaces\@spaces\@spaces
226   }{%
227     Package #1 Info: #2%
228   }%
229 }

```

\@PackageInfoNoLine

```

230 \def\@PackageInfoNoLine#1#2{%
231   \@PackageInfo{#1}{#2\@gobble}%
232 }

```

\@ClassInfo

```

233 \def\@ClassInfo#1#2{%
234   \InfWarErr@GenericInfo{%
235     (#1) \space\space\@spaces\@spaces
236   }{%
237     Class #1 Info: #2%
238   }%
239 }

```

\@ClassInfoNoLine

```

240 \def\@ClassInfoNoLine#1#2{%
241   \@ClassInfo{#1}{#2\@gobble}%
242 }

```

\@PackageWarning

```

243 \def\@PackageWarning#1#2{%
244   \InfWarErr@GenericWarning{%
245     (#1)\@spaces\@spaces\@spaces\@spaces
246   }{%
247     Package #1 Warning: #2%
248   }%
249 }

```

\@PackageWarningNoLine

```

250 \def\@PackageWarningNoLine#1#2{%
251   \@PackageWarning{#1}{#2\@gobble}%
252 }

```

\@ClassWarning

```

253 \def\@ClassWarning#1#2{%
254   \InfWarErr@GenericWarning{%
255     (#1) \space\@spaces\@spaces\@spaces
256   }{%
257     Class #1 Warning: #2%
258   }%
259 }

```

```

\@ClassWarningNoLine
260 \def\@ClassWarningNoLine#1#2{%
261   \@ClassWarning{#1}{#2\@gobble}%
262 }

\@PackageError
263 \def\@PackageError#1#2#3{%
264   \InfWarErr@GenericError{%
265     (#1)\@spaces\@spaces\@spaces\@spaces
266   }{%
267     Package #1 Error: #2%
268   }{%
269     See the #1 package documentation for explanation.%
270   }{#3}%
271 }

\@ClassError
272 \def\@ClassError#1#2#3{%
273   \InfWarErr@GenericError{%
274     (#1) \space\@spaces\@spaces\@spaces
275   }{%
276     Class #1 Error: #2%
277   }{%
278     See the #1 class documentation for explanation.%
279   }{#3}%
280 }

281 \InfWarErr@AtEnd%
282 \</package>

```

## 3 Installation

### 3.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

[CTAN:macros/latex/contrib/infwarerr/infwarerr.dtx](#) The source file.

[CTAN:macros/latex/contrib/infwarerr/infwarerr.pdf](#) Documentation.

**Bundle.** All the packages of the bundle ‘infwarerr’ 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/infwarerr.tds.zip](#)

*TDS* refers to the standard “A Directory Structure for T<sub>E</sub>X Files” ([CTAN:pkg/tds](#)). Directories with `texmf` in their name are usually organized this way.

### 3.2 Bundle installation

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

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

---

<sup>1</sup>[CTAN:pkg/infwarerr](#)

### 3.3 Package installation

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

```
tex infwarerr.dtx
```

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

```
infwarerr.sty → tex/generic/infwarerr/infwarerr.sty
infwarerr.pdf → doc/latex/infwarerr/infwarerr.pdf
infwarerr.dtx → source/latex/infwarerr/infwarerr.dtx
```

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`.

### 3.4 Refresh file name databases

If your `TEX` distribution (`TEX Live`, `mikTEX`, ...) relies on file name databases, you must refresh these. For example, `TEX Live` users run `texhash` or `mktextlsr`.

### 3.5 Some details for the interested

**Unpacking with L<sup>A</sup>T<sub>E</sub>X.** The `.dtx` chooses its action depending on the format:

**plain T<sub>E</sub>X:** Run `docstrip` and extract the files.

**L<sup>A</sup>T<sub>E</sub>X:** Generate the documentation.

If you insist on using L<sup>A</sup>T<sub>E</sub>X for `docstrip` (really, `docstrip` does not need L<sup>A</sup>T<sub>E</sub>X), then inform the `autodetect` routine about your intention:

```
latex \let\install=y\input{infwarerr.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 `pdfLATEX`:

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

## 4 History

[2007/04/26 v1.0]

- First version.

[2007/06/14 v1.1]

- Small fixes.

[2007/09/09 v1.2]

- Catcode section extended.

[2010/04/08 v1.3]

- Ensure `\escapechar=92` (backslash) for infos/warnings/errors.

[2016/05/16 v1.4]

- Documentation updates.

[2019/12/03 v1.5]

- Documentation updates.

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