The **prelim2e** package*

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Abstract
This package allows the marking of (preliminary) versions of a document on the output.

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### 1 Introduction
This package allows the marking of (preliminary) versions of a document. This is done using the command `\PrelimText`, whose expansion is added below the footer of every page of a document (look at the bottom of this page for an example).

### 2 Usage
Simply using this package via `\usepackage{prelim2e}` produces a text in the form of “Preliminary version – June 8, 1999”.

*The version number of this file is v1.22, last revised 1999/06/08.*


3 OPTIONS

The text is produced by the commands \PrelimText and \PrelimWords, which can be changed via \renewcommand or by using options at the \usepackage command (see section 3).

The footer for this documentation was produced by changing \PrelimWords to

\renewcommand{\PrelimWords}{%
 \textsf{prelim2e} package --
 Version \fileversion{} --
 Documentation \LaTeX{}ed%
}

3 Options

The package has the following options:

draft If this option is used a text appears below the normal pagebody. It is the default.

final If this option is used prelim2e produces no text.

english This sets the text to “Preliminary version”. It is the default.

french This sets the text to “Version préliminaire”. It does not use the french or babel package.

german This sets the text to “Vorläufige Version”. It does not use the german or babel package.

time This adds the time at the beginning of the current \LaTeX{} to the text. The time is produced using the \thistime command, which may be provided by the scrtim package[2]. If you don’t use the scrtim package (e.g. by specifying the scrtim option), you must provide it yourself or by some other package.

All other options are passed to the scrtim package if the scrtim option is selected.

4 Required packages

The package requires the following packages:

everysfi[3] It is used to implement the setting of the text below the normal pagebody.

scrtim[2] It is used to typeset the current time and is needed if the scrtim option is selected.
5 Putting more things at the bottom

Another package you might like to use with prelim2e is version[4]. This allows the definition and maintenance of a version number like 3.14159 within \texttt{\LaTeX}, which can be put at the bottom of every page using \texttt{prelime2e}.

6 The implementation

\begin{verbatim}
1 (\*package)

6.1 Initial Code
\begin{verbatim}
6.1 Initial Code
1 if@prelim@draft \if@prelim@draft is used to flag the use of the draft or final option.
2 newif\if@prelim@draft
3 if@prelim@time \if@prelim@time is used to flag the use of the time option.
4 newif\if@prelim@time
5 if@prelim@scrtimes \if@prelim@scrtimes is used to flag the use of the scrtimes option.
6 PrelimWords \PrelimWords holds the language-dependend text used in \PrelimText
7 newcommand\{\PrelimWords\}{}
\end{verbatim}

6.2 Declaration of options

6.2.1 draft option

The draft and final option control the behavior of prelim2e: Only if final is used in \texttt{documentclass} or \texttt{usepackage\{prelim2e\}} text is produced.

\begin{verbatim}
6 \DeclareOption{draft}{@prelim@drafttrue}
7 \DeclareOption{final}{@prelim@draftfalse}
\end{verbatim}

6.2.2 Language options

english, french and german control the content of \texttt{PrelimWords}.

\begin{verbatim}
8 \DeclareOption{english}{% 9 \renewcommand\{PrelimWords\}\{Preliminary version\}}
10 \DeclareOption{french}{% 11 \renewcommand\{PrelimWords\}\{Version pr\'eliminaire\}}
12 \DeclareOption{german}{% 13 \renewcommand\{PrelimWords\}\{Vorl\"aufige Version\}}
\end{verbatim}

6.2.3 Time options

time controls the output of the current time at \texttt{PrelimWords}.

\begin{verbatim}
14 \DeclareOption{time}{@prelim@timetrue}
\end{verbatim}

scrtimes controls the loading of the scrtimes package. It implies time.

\begin{verbatim}
15 \DeclareOption{scrtimes}{@prelim@scrtimes@prelim@timetrue}
\end{verbatim}
\end{verbatim
6.2.4 Other options

All unused options are passed to the `scrtme` package if the `scrtme` option is selected.

```latex
\DeclareOption*{%
  \if@prelim@scrtme
    \PassOptionsToPackage{\CurrentOption}{scrtme}%
  \fi
}\}
```

6.3 Executing options

The default options are `draft` and `english`.

```latex
\ExecuteOptions{draft,english}
\ProcessOptions\relax
```

6.4 Loading packages

We need the `everyshi` package—and `scrtme`, if the `scrtme` option is specified.

```latex
\RequirePackage{everyshi}[1995/01/25]
\if@prelim@scrtme
  \RequirePackage{scrtme}
\fi
```

6.5 Producing the text

`\PrelimText` produces the text which is put below the page. It can be changed via `\renewcommand`. The style of the text is controlled by `\PrelimTextStyle`. We first have to reset the style and size, otherwise the settings in effect at the point of text where `\output` is called would be used.

```latex
\newcommand{\PrelimText}{%\textnormal{\footnotesize\PrelimTextStyle\PrelimWords\today}\if@prelim@time\ -- \thistime\fi}%
```

`\PrelimTextStyle` controls the style of the text produced by `\PrelimText`. It's default is empty.

```latex
\newcommand{\PrelimTextStyle}{}
```

6.6 Putting the text below the page

We put the text below the page via `\EveryShipout` provided by the `everyshi` package. This is done by `\@Prelim@EveryShipout`. 

\@Prelim@EveryShipout puts the text produced by \PrelimText below the page. To do this we modify \box255: We append a \vbox with height and depth of 0pt and the width of \box255 which contains a \hbox with the width of \box255 in which \PrelimText is centered.

\newcommand{\@Prelim@EveryShipout}{\bgroup
First we save the dimensions of \box255: height, width and depth; and calculate the total height of \box255.
\dimen\z@=\wd\@cclv
\dimen\@ne=\ht\@cclv
\dimen\tw@=\dp\@cclv
\dimen\thr@@=\dimen1
\advance\dimen\thr@@ by \dimen\tw@

Then we set \box255: A \vbox to the total height of \box255. In this a \hbox to the width of \box255 is included, in which \PrelimText is set.
\global\setbox\@cclv\vbox to \dimen\thr@@{%
  \hb@xt\dimen\z@{%
    \box\@cclv
    \hss
  }%
}

To this we append the text produced by \PrelimText. It is put in a \vbox to 0pt in which a \hbox to the width of \box255 is included, in which \PrelimText is set. We have to reset \protect because it is set to \noexpand by the output routine.
\vbox to \z@{%
  \hb@xt\dimen\z@{%
    \let\protect=\relax
    \hfill\PrelimText\hfill
  }%
  \vss
}

Finally we set the dimensions of \box255 to the values they had before \@Prelim@EveryShipout.
\wd\@cclv=\dimen\z@
\ht\@cclv=\dimen\@ne
\dp\@cclv=\dimen\tw@
\egroup
}

6.7 Tieing prelim2e into the system

\@Prelim@EveryShipout is tied into the system via \EveryShipout. But only if the draft option is used.
\if@prelim@draft
\EveryShipout{\@Prelim@EveryShipout}
\fi
(/package)
7 Acknowledgements

The idea of this package is based on prelim.sty[1] for \LaTeX\ 2.09 by Robert Tolksdorf (talk@cs.tu-berlin.de). It provides nearly the same functionality as prelim2e, but in a very dirty way: it uses a modified output routine and does not work with \LaTeX\ 2ε.

The time functionality now uses the scrtim package by Markus Kohm (markus.kohm@ka2.maus.de).

Rowland Bartlett (R.BARTLETT@liverpool-john-moores.ac.uk) brought forth the idea of separating the time option and the scrtim package; and Daniel Courjon (dcourjon@utinam.univ-fcomte.fr) provided the text for the french option.

As usual Rebecca Stiels improved the quality of this documentation.

References

[1] Mats Dahlgren. vrsion — a \LaTeX\ Macro for version Numbering of Files. CTAN:tex-archive/macros/latex/contrib/supported/vrsion/vrsion.dtx. \LaTeX\ 2ε package.


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