

# The xprintlen package<sup>\*</sup>

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## 1 Requirements

xprintlen requires the package fp to be available and reasonably up to date on your system.

## 2 Installation

Put the .sty file into the folder TEXMF/tex/latex/xprintlen, and put other files into another folder TEXMF/doc/latex/xprintlen.

## 3 Usage

This package defines a command, `\printlen`, to print lengths in a variety of units. It supports all the units that  $\TeX$  supports, and its calculation depends on the package fp.

`\printlen` receives three parameters, while the first two parameters are the optionals. The first (optional) parameter sets the length of significant digits, whose default value is 2, stored in the macro `\defaultsignificant`. The second (optional) parameter sets the unit to be print, and the default value of it is mm, stored in the macro `\defaultunit`. The third parameter of the command, also the only mandatory parameter, is the length that will be calculated.

You can redefine the two macros to revise the default length of significant digits and/or the default unit.

## 4 Example

The following lines will produce:

```
\documentclass{article}
\usepackage{xprintlen}
\newlength{\testlen}
\setlength{\testlen}{3.1415926cm}
\begin{document}
\obeylines
\printlen{\testlen}
\printlen[5]{\testlen}
\printlen[5][pt]{\testlen}
\end{document}
```

31.42 mm

31.41603 mm

89.38678 pt

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<sup>\*</sup>This manual corresponds to xprintlen.sty v1.0, dated 2014/12/25

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## 5 Change log

### Version 1.0, 2014/12/25

- The first public release.