

**NAME**

`latex`, `pdflatex`, `xelatex`, `lualatex`, `dvilualatex`, `cslatex`, `pdfcslatex`, `platex`, `uplatex`, `lamed` – structured text formatting and typesetting

**SYNOPSIS**

**latex** [*first-line*]

**DESCRIPTION**

This manual page is a mere skeleton.

The  $\text{\LaTeX}$  language is described in the book  *$\text{\LaTeX}$  – A Document Preparation System*.  $\text{\LaTeX}$  is a  $\text{\TeX}$  macro package, not a modification to the  $\text{\TeX}$  source program, so all the capabilities described in `tex(1)` are present.

The  $\text{\LaTeX}$  macros encourage writers to think about the content of their documents, rather than the form. The ideal, very difficult to realize, is to have no formatting commands (like “switch to italic” or “skip 2 picas”) in the document at all; instead, everything is done by specific markup instructions: “emphasize”, “start a section”.

The primary source of documentation for  $\text{\LaTeX}$  is the  $\text{\LaTeX}$  manual referenced below.

**lualatex**, **pdflatex**, **pdfcslatex**, **xelatex** are  $\text{\LaTeX}$  formats based on the respective engines. All output PDF by default.

**platex**, **uplatex** are Japanese  $\text{\LaTeX}$  formats based on e- $\text{\TeX}$  and e-up $\text{\TeX}$  (DVI output).

**lamed** is the Aleph-based  $\text{\LaTeX}$  format (DVI output).

**dvilualatex** is Lua $\text{\TeX}$ -based and outputs DVI.

**cslatex** is cs $\text{\TeX}$ -based (primitives integrated into pdf $\text{\TeX}$ ) and outputs DVI.

On some systems **latex209** and **slitex** may still be available for compatibility with older versions of  $\text{\LaTeX}$ . These should not be used for new texts.

**SEE ALSO**

**amstex(1)**, **luatex(1)**, **pdfTeX(1)**, **ptex(1)**, **tex(1)**, **xetex(1)**.

Leslie Lamport,  *$\text{\LaTeX}$  – A Document Preparation System*, Addison-Wesley, 1985, ISBN 020115790X.

Frank Mittelbach, Michel Goossens, Johannes Braams, David Carlisle, and Chris Rowley, *LaTeX Companion*, Addison-Wesley, 2004, ISBN 0201362996 (2nd edition).

The  $\text{\LaTeX}$  home page is <http://latex-project.org>.

A list of some  $\text{\LaTeX}$  tutorials is at <http://www.tex.ac.uk/cgi-bin/texfaq2html?label=man-latex>.

An unofficial reference manual for  $\text{\LaTeX}$  is at <https://ctan.org/pkg/latex2e-help-texinfo>.