

Introduction to \LaTeX

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What is L^AT_EX

From Wikipedia, the free encyclopedia

LaTeX (lah-tekh, lah-tek or lay-tek, a shortening of Lamport TeX) is a document preparation system. When writing, the writer uses plain text in markup tagging conventions to define the general structure of a document (such as article, book, and letter), to stylise text throughout a document (such as bold and italic), and to add citations and cross-references. A TeX distribution such as TeX Live or MikTeX is used to produce an output file (such as PDF or DVI) suitable for printing or digital distribution. Within the typesetting system, its name is stylised as L^AT_EX.

Installation of \LaTeX

Windows

Download TeXLive on the following website

<http://mirror.hust.edu.cn/CTAN/systems/texlive/Images/>

Linux

For example, on Ubuntu (or Debian), Enter the command

`sudo apt-get install texlive-full`

MacOS

Download MacTeX on the following website

<http://tug.org/mactex/mactex-download.html>

Selection of IDEs

There are various IDEs recommended that support \LaTeX , for example

Texmaker

<http://www.xm1math.net/texmaker/>

Sublime Text

<http://www.sublimetext.com/>

Tex Studio

<http://www.texstudio.org/>

They all have cross-platform support for Windows, Linux and MacOS.

Documentation on your computer

If you've installed a full version of TeXLive (as strongly recommended), the \LaTeX documentation about all you want to is in front of you.

Open the command line and input the command

`texdoc docname`

For example, you can use the following types for the `docname`

`tex` A documentation about `TeX`

`article` A documentation about documentclass `article`

`beamer` A documentation about documentclass `beamer`

`pgf` A documentation about `TikZ` and `PGF` (used to draw graphs)

Just try to `texdoc` about all new things then you will be an expert in \LaTeX .