

A Sample Document

Wikipedians

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This tiny sample showcases \TeX and \LaTeX for wikipedia. More comprehensive examples, such as Lamport's `sample.tex` (see[1]) are available with any standard \TeX distribution, or via www.tug.org. Only \TeX nicians need [2].

1 Document, section and paragraphs

A \LaTeX source file begins with a class declaration, followed by a preamble section, and the body of a document. The preamble contains setting and definitions. The body can contain sections, subsections, paragraphs, lists, equations, footnotes¹, figures and tables, and also commands for automatically-generated structures such as a table of contents, bibliography, index and glossary.

Command such as “`\section`” introduce a new section, whilst an empty line delimits paragraphs. Other surplus white space is usually ignored.

2 Features

Both \TeX and \LaTeX allow for accents, and excel at typesetting mathematical equation, both in-line or display on a line by itself. For instance, an article on quadratics may need

$$ax^2 + bx + c = 0 \Rightarrow x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a},$$

or an article on complex analysis may include $e^{i\theta} = \cos \theta + i \sin \theta$.

References

- [1] Leslie Lamport, \LaTeX User's Guide and Reference Manual, second edition, Addison-Wesley, 1994.
- [2] Frank Mittelbach, and Michel Goossens, The \LaTeX Companion, second edition, Addison-Wesley, 2004.

¹This is a footnote.