

# LaTeX Description

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## Abstract

TeX is a typesetting computer program created by Donald Knuth, originally for his magnum opus, The Art of Computer Programming. It takes a "plain" text file and converts it into a high-quality document for printing or on-screen viewing. LaTeX is a macro system built on top of TeX that aims to simplify its use and automate many common formatting tasks. It is the de-facto standard for academic journals and books in several fields, such as mathematics and physics, and provides some of the best typography free software has to offer.

## 1 Introduction

LaTeX is a computer program used for making articles, books and math formulas look good. LaTeX is well-suited for expressing mathematical formulas on electronic devices in a more human readable format, by showing them in a way similar to how they would be written by hand.

### 1.1 Uses

LaTeX is used for making mathematical formulas for some articles on Wikipedia, in addition to being used within academic circles.

### 1.2 Process

The writer types their article into a plain text document. A plain text document cannot have styled text, like bold or italic. When the writer wants to write styled text, they use special LaTeX commands that start with a backslash. For example, the command for bold text is **This text is bold**.

After the writer is finished writing the article, they tell LaTeX to read the document. After LaTeX is done, LaTeX makes a file that can be printed. The command **This text is bold** would print as This text is bold.

### 1.3 History

LaTeX was first made in the early 1980s by Leslie Lamport at SRI International, who published its first manual in 1986.[1] The current version is LaTeX2e (styled  $\text{\LaTeX 2}_{\epsilon}$ ), which has been active since 1994.[2]