Required Commands

Mathematical notation

Tables

Module 9: Creating documents with LATEX

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Overview

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Overview

LATEX(http://latex-project.org) is a typesetting system for producing scientific and technical documents, that behaves like a programming language such as HTML.

Availability

LATEX is available for free for all systems (http://latex-project.org/ftp.html) and can also be accessed through the cloud, for example by using https://www.sharelatex.com.

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Overview

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Help!

For comprehensive and accessible documentation, see https://www.sharelatex.com/learn

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LATEX has commands for formatting and displaying text and environments that create blocks of texts (such as tables) that consist of pairs of tags

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In any document, a command such as

\documentclass{article}

defines the class while the commands

\begin{document}

. . .

\end{document}

defines the environment that is the document.

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Mathematical Notation

LATEX makes it very easy to use mathematical notation:

Command	Output
\mu	μ
\sigma	σ
x^2	x^2
n_i	n _i
\frac{1}{2}	$\frac{1}{2}$

Inline mathematical notation must be enclosed within \$ signs.

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In some cases, mathematical environments are created. For example,

\[
$$ax^2 + bx^2 + c = 0$$
 \]

produces the output

$$ax^2 + bx^2 + c = 0$$

To number an equation, use an equation environment specified by

\begin{equation}

. . .

\end{equation}

Tables

What is LATEX?

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In order to create the table

Name	Age
Joe	21
Amy	19
Bill	19

we use the LATEX code

\begin{center}
\begin{tabular}{c|c}
Name & Age\\hline
Joe & 21\\
Amy & 19\\
Bill & 19\\
\end{tabular}
\end{center}