LaTeX

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About LaTeX

LaTeX, which is pronounced Lah-tech or Lay-tech (to rhyme with blech or Bertolt Brecht), is a document preparation system for high-quality typesetting. It is most often used for medium-to-large technical or scientific documents but it can be used for almost any form of publishing.

LaTeXis not a word processor! Instead, LaTeXencourages authors not to worry too much about the appearance of their documents but to concentrate on getting the right content.

LATEXFeatures

- Typesetting journal articles, technical reports, books, and slide presentations.
- Control over large documents containing sectioning, cross-references, tables and figures.
- Typesetting of complex mathematical formulas.
- Advanced typesetting of mathematics with AMS- LATEX.
- Automatic generation of bibliographies and indexes.
- Multi-lingual typesetting.
- Inclusion of artwork, and process or spot colour.
- Using PostScript or Metafont fonts.

Why use LaTeX

LaTeX does a perfect job at helping writing proper mathematical papers. It provides easiest syntax for mathematical equations, that helps creating a proper organised scientific paper. Also LaTeX is highly customisable. You can create your own themes and apply them in your paper or presentation. Not only that, but LaTeX lets you easily generate graphs. It is commonly used to write IEEE format papers.

unnumbered lists

- Introduction to LaTeX
- Course 2
- Termpapers and presentations with LaTeX
- Beamer class

Mathematical Equations

Mathematical equations can be written in LaTeX as well. Another
useful tool of LaTeX is ability to create boxes Source Code:

```
1  $$\Pr\left[\sum_{i=1}^k X_i > c\right]\leq 2^{-\Omega(c^2k)}$$
2  \linebreak
```

Output:

$$\Pr\left[\sum_{i=1}^k X_i > c\right] \leq 2^{-\Omega(c^2 k)}$$

Tables

You can also create tables in LaTeX

Name	Major	Year
Denisolt Shakhbulatov	Computer Science	Sophomore
Arshit Arora	Computer Science	Sophomore
Mahmoud Saleh	Computer Science	Senior
Amar Waqas	Computer Science	Junior

Quotes

Dr. Anand Santhanakrishnan:
"The good thing about LaTeX is that it is written in ASCII, the user gets a file and compiles it this way the user does not get a virus - REU Summer 2016"

Dr. Cecilia Dong:
"You should be writing your research paper in LaTeX"

Bibliography

- http://www.latex-project.org/about/
- https://www.cs.princeton.edu/courses/archive/spr10/cos433/Latex/guide.pdf

Thank You