CSCI-759
Topics In Systems:
Public Key Infrastructure and Network Security

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About Project

Research Project

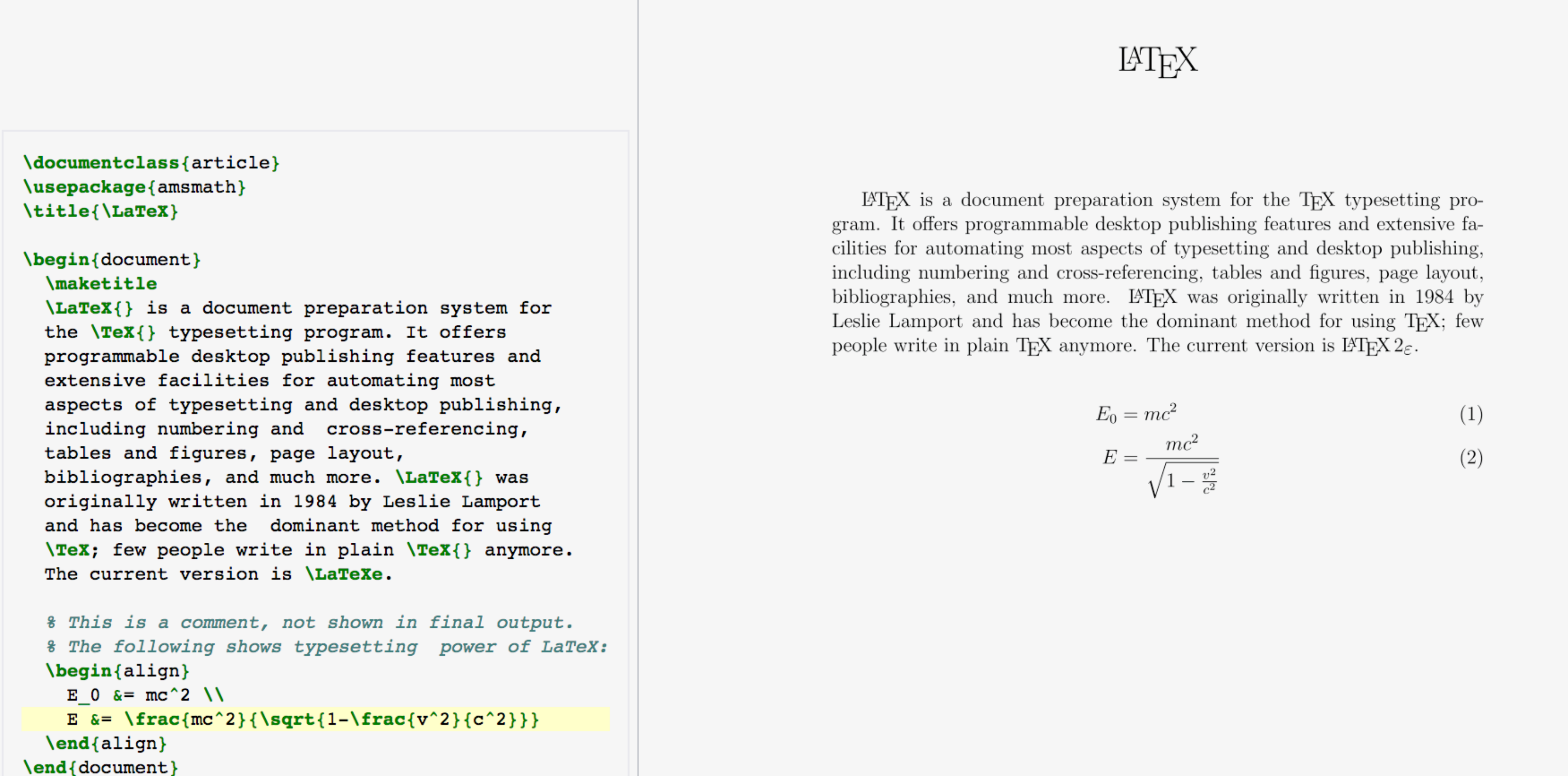
- Students are required to pick the research topic related to the class and perform their own research project
  - Bring your topic and discuss with the professor before ~~02/14~~ -> 2/21
    - Only one student has contacted me so far ;(
    - Mail me to arrange the schedule or visit me during my office hour
      - Bring an idea + action plan
  - Need to submit a short-paper by 04/25
  - Must be written in Latex. The form will be provided.

What topics should I choose?

- It can be any topic as long as it is related with PKI
- Recommend to start brainstorming from the papers that you have read.
  - Marginal improvement?
  - Verifying the system?
  - Applying the idea in different domains?
  - New fresh idea?
- Example:
  - DNSSEC: I think there should be another problem in DNSSEC such as XXX, YYY, ZZZ. Let me see if there actually are. Here’s my methodology and plan.

Latex?

- A document preparing system; it's like a programming language — syntax, compile, debug, and so on.
  - *all* of the papers you have seen are written using Latex



```latex
\documentclass{article}
\usepackage{amsmath}
\title{\LaTeX}

\begin{document}
  \maketitle
  \LaTeX{} is a document preparation system for
  the \TeX{} typesetting program. It offers
  programmable desktop publishing features and
  extensive facilities for automating most
  aspects of typesetting and desktop publishing,
  including numbering and  cross-referencing,
  tables and figures, page layout,
  bibliographies, and much more. \LaTeX{} was
  originally written in 1984 by Leslie Lamport
  and has become the  dominant method for using
  \TeX; few people write in plain \TeX{} anymore.
  The current version is \LaTeXe.

  % This is a comment, not shown in final output.
  % The following shows typesetting  power of LaTeX:
  \begin{align}
    E_0 &= mc^2 \\
    E &= \frac{mc^2}{\sqrt{1-\frac{v^2}{c^2}}}
  \end{align}
\end{document}
```

LaTeX

LaTeX is a document preparation system for the TeX typesetting program. It offers programmable desktop publishing features and extensive facilities for automating most aspects of typesetting and desktop publishing, including numbering and cross-referencing, tables and figures, page layout, bibliographies, and much more. LaTeX was originally written in 1984 by Leslie Lamport and has become the dominant method for using TeX; few people write in plain TeX anymore. The current version is LaTeX 2$_\varepsilon$.

$$E_0 = mc^2 \tag{1}$$

$$E = \frac{mc^2}{\sqrt{1-\frac{v^2}{c^2}}} \tag{2}$$

Sample Form

- Online Latex is available (much easier to use)

- Use this form: https://www.overleaf.com/latex/templates/association-for-computing-machinery-acm-sig-conference-proceedings-template/bmvfhcdnxfty

    - 6 pages limit

- Submission: just give me the url of your document (make sure it is publicly available)

- Plagiarism is strictly prohibited, resulting in automatic “F”