



Some Guy

Linux@APP

February 28, 2018

What is L^AT_EX?

LaTeX is a typesetting system, designed to separate content and formatting.

Types of documents.

- article: For articles in scientific journals, presentations, short reports, program documentation, invitations, ...
- report: For longer reports containing several chapters, small books, thesis.
- book: For real books.
- memoir: It is based on the book class, but it contains lots of packages not imported by default.
- letter: For writing letters.
- beamer: For writing presentations (like this beamer).

starting a Document

L^AT_EX or \LaTeX

% Verbatim enviroment that would

% start a paper or something

<code>\begin{verbatim}</code>	<code>\section{Section}</code>
<code>\documentclass{article}</code>	Hello World!
<code>\title{A paper on how to write papers.}</code>	<code>\subsection{Subsection}</code>
<code>\date{2018-02-22}</code>	Structuring a document is easy!
<code>\author{Andrew Pobrica}</code>	<code>\subsubsection{Subsubsection}</code>
<code>\begin{document}</code>	More text.
<code>\maketitle</code>	<code>\paragraph{Paragraph}</code>
<code>\pagenumbering{gobble}</code>	Some more text.
<code>\newpage</code>	<code>\subparagraph{Subparagraph}</code>
<code>\tableofcontents</code>	Even more text.
<code>\newpage</code>	<code>\section{Another section}</code>
<code>\pagenumbering{arabic}</code>	<code>\end{document}</code>
	<code>\end{verbatim}</code>

#Leibniz formula

```
pi = 0
```

```
x = 0
```

```
iterations = 10000
```

```
try:
```

```
    for x in range(iterations):
```

```
        pi = pi + 2 / ((4*x+1) * (4*x+3))
```

```
    print(pi*4)
```

```
except KeyboardInterrupt:
```

```
    print(x)
```

```
    print(pi*4)
```

$$\sin A \cos B = \frac{1}{2} [\sin(A + B) + \sin(A - B)]$$

$$\sin A \sin B = \frac{1}{2} [\cos(A - B) - \cos(A + B)]$$

$$\cos A \cos B = \frac{1}{2} [\cos(A - B) + \cos(A + B)]$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x + h) - f(x)}{h}$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x + h) - f(x)}{h}$$

```
tlmgr update --list  
tlmgr update --self  
tlmgr update --all  
tlmgr uninstall
```

Fig. 1: I got this off of reddit.



```

-----
/ Many enraged psychiatrists are inciting \
| a weary butcher. The butcher is weary |
| and tired because he has cut meat and |
| steak and lamb for hours and weeks. He |
| does not desire to chant about anything |
| with raving psychiatrists, but he sings |
| about his gingivectomist, he dreams |
| about a single cosmologist, he thinks |
| about his dog. The dog is named |
| Herbert. |
| |
| -- Racter, "The Policeman's Beard is |
\ Half-Constructed" /
-----

```

```

\      ^__^
\      (oo)\_______
          (__)\       )\/\
              ||----w |
              ||     ||

```


Questions?
or not

- ▶ this is a Beamer

- ▶ this is a Beamer
- ▶ Beamer's are PDF's

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- ▶ Beamers are PDF's
- ▶ Each of these things is its own page in the PDF