



Some Guy

Linux@APP

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# What is L<sup>A</sup>T<sub>E</sub>X?

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<sup>A</sup>T<sub>E</sub>X 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.



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/ You're currently going through a \  
| difficult transition period called |  
\ "Life." /  
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 | | | |



**Questions?**  
*or not*



► this is a Beamer

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

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