LaTeX

lay-teck

Some Guy

Linux@APP

02/21/2018

What is LaTeX?

LaTeX is a typesetting system, desgned to prevent the document writer from screwing everything up. Latex is acutaly a collection of macros built ontop of TeX to make it useable for document writers, LaTeX. Instead of visually formatting your text, you enter your document text intertwined with LaTeX commands in a text file. You then run TeX to produce formatted output, such as a PDF file. Thus, in contrast to standard word processors, your document is a separate file that does not pretend to be a representation of the final typeset output, and so can be easily edited and manipulated.

Types of documents.

article:	For articles in scientific journals, presentations, short reports, program documentation, invitations, ...
IEEEtran:	For articles with the IEEE Transactions format.
proc:	A class for proceedings based on the article class.
report:	For longer reports containing several chapters, small books, thesis.
book:	For real books.
slides:	For slides. The class uses big sans serif letters.
memoir:	For changing sensibly the output of the document. It is based on the book class, but you can create any kind of document with it.
letter:	For writing letters.
beamer:	For writing presentations.

A frame

Framy stuff.
LaTeX or \LaTeX

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

```python
#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)
```

```
tlmgr update –list
tlmgr update –self
tlmgr update –all
tlmgr uninstall
```


Fig. 1: I got this off of reddit.

```
 ------------------------------------------
/ The Least Perceptive Literary Critic    \
|                                          |
| The most important critic in our field   |
| of study is Lord Halifax. A most         |
| individual judge of poetry, he once      |
| invited Alexander Pope round to give a   |
| public reading of his latest poem.       |
|                                          |
| Pope, the leading poet of his day, was   |
| greatly surprised when Lord Halifax      |
| stopped him four or five times and       |
| said, "I beg your pardon, Mr. Pope, but  |
| there is something in that passage that  |
| does not quite please me."               |
|                                          |
| Pope was rendered speechless, as this    |
| fine critic suggested sizeable and       |
| unwise emendations to his latest         |
| masterpiece. "Be so good as to mark the  |
```

`\LaTeX`