

# **Open Source: Tools for Physics**

**Seminar 4** 

**Introduction to LaTeX and GNU Emacs** 

#### About Me

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... and GNU/Linux enthusiast!

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We have used bash scripting and Python for performing a simulation for verifying the law of large numbers and the central limit theorem.

# The next step

We have used bash scripting and Python for performing a simulation for verifying the law of large numbers and the central limit theorem. Now it is time to write a report.

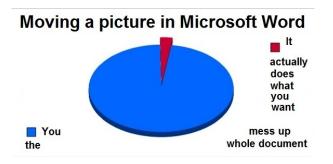
### Why ETEX?

- Simple to learn and to use
- Plain text files: can be easily shared, versioned with git and there won't be any compatibility issue (ever!)
- The quality is professional
- It is Open Source: it will be supported forever

### **Appetizer**

- Excellent referencing system
- Simple sectioning system
- Consistency of the layout
- Logical structure of the document (eg: one file per chapter)
- Easily produce PDFs with hyperlinks, table of contents, indices, etc
- Painless formulas

## Forget wandering images!



# A workflow nobody actually uses

- Write the . tex document with an editor
- Compile via command line with pdflatex
- Check out the output with a PDF reader

### What people actually do

- Write the . tex document in a LTFX editor
- Press the magic button to compile the document
- Check the output with a side by side view with the source code
- Ignore the existence of the command line

# Suggested editors

- OverLeaf (Beginners, collaborative)
- TeXStudio (Visual, beginners)
- GNU Emacs (Master race)

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