

InfPALS - \LaTeX Workshop

InfPALS

University of Edinburgh

March 2019

What is \LaTeX ?

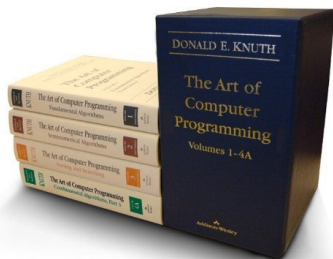
- Typesetting tool commonly used in academia
- **In short:** \LaTeX takes descriptive code and outputs a document file (PDF)
- **Why:** Well, have you ever tried to type a maths formula in Word?
- **Common strengths:**
 - Mathematical Notation
 - Separation of Content and Style
 - Document References (clickable links)
 - Bibliography
 - Highlighting programming code in documents

Pitfall Pronunciation

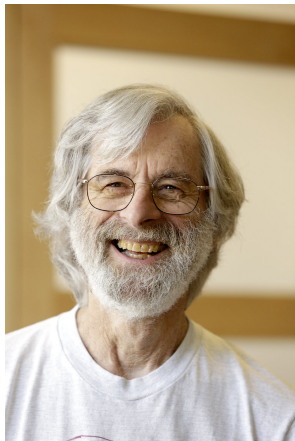
- The X in \LaTeX represent the Greek letter Chi χ
- Pronounce **Latech** with tech as in **technology**

χ \LaTeX

T_EX- The Roots of L^AT_EX



- While writing his book **The Art of Computer Programming** in the 1970s Stanford professor Donald Knuth wasn't satisfied with the typesetting systems available
- He planned to take 6 months out to create his own typesetting system T_EX (ultimately it took him around 10 years)



- In an attempt to make the rather complicated T_EX system more usable computer scientist Leslie Lamport created a now widely used macro package for T_EX known as L^AT_EX



- Online environment for \LaTeX
- “Google Docs for Science”
- Collaboration with UoE
(sign up with university email)
- `www.overleaf.com`

So what are we doing today?

- Warm Up: the basics of \LaTeX
- Activity 1: Lists, Tables and Graphics
- Activity 2: Typesetting Maths and Code
- Activity 3: Macros and BibTeX
- Extension: Build your own template

Let's get to work!

You can find all the materials at:

<https://github.com/pedro-hdt/inf pals-latex>

If you are already comfortable with the basics, feel free to skip ahead.



We will be around to help!