CS 2800
LaTeX Tutorial
Mark Reitblatt
LaTeX

- TeX ("tech")
  - Typesetting software
  - Written by Donald Knuth (CS Legend!)
- LaTeX ("luh-tech" or "la-tech", never "latex")
  - Collection of templates/macros on top of TeX
  - Written by Leslie Lamport (Future Turing Award?)
Typesetting vs Word Processing

- LaTeX vs Microsoft Word (OpenOffice, etc)
- Typesetting:
  - Separates composition from formatting
- Word processing:
  - WYSIWYG
  - Catching up to typesetters (but still far behind)
LaTeX Basics

- LaTeX = programming language
  - But for text
  - Turing-complete!
  - Macros instead of functions
    - \textbf{FOO} = typeset “FOO” in boldface
  - Fairly tricky error messages
Live Coding
Installing \LaTeX

• Use a distro (includes lots of packages/add-ons)
• Mac OS X = MacTeX
• Linux = TeXLive
• Windows = MiKTeX or TeXLive
Writing LaTeX

- Use a text editor with LaTeX support
- Emacs, VIM, Eclipse, Nano, Sublime etc
  - May require plugin
- LaTeX specific editors:
  - TeXShop
  - TeXWorks
Problems?

- Ask on Piazza
  - Please don’t email me, use the power of Piazza
- Or come to my office hours
  - W 3:30 - 4:30 (Upson 360)