EOAS Software Carpentry Workshop

20-21 September 2016

The Big Objective

Become more *productive* by using core computing skills like

- task automation
- version control

which also make your research more *reproducible*.

Welcome

- Materials/Concept from software-carpentry.org
- Snacks/Coffee from the Department

People

- Sponsor: Susan Allen
- Instructors: Doug Latornell, Karina Ramos Musalem, Nancy Soontiens
- Helpers: Idalia Machuca, Cindy Yu, Anna, Keelin

Content/Schedule

- Tuesday Morning: Shell
- Tuesday Afternoon: Version Control with Mercurial
- Wednesday: Programming in Python

Pedagogy

- Learn by Doing
- Instant Feedback (thanks Computers!)
- Learn by Discussing
- Learn by Questioning
- Green Light, Red Light
- Feedback: Etherpad and/or Write on red/green post-its

Resources

- The Workshop web site with Lessons (the textbook) – https://douglatornell.github.io/2016-09-20-ubc/
- Slide decks for each lesson – PDFs linked as "Workshop Slides" on each section's index page
- Command Reminder Pages – Linked from the Syllabus and each section's index page
- Resources links – on each section's index page
- Etherpad at http://pad.software-carpentry.org/2016-09-20-ubc - a collaborative workspace for notes, questions, links, etc.
- Transcripts of the shell commands that the instructors type – https://www.eoas.ubc.ca/~dlatorne/swc/2016-09-20-ubc/history.txt

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Automation for Files and Directories

Getting to Shell

Windows:

- From the Windows Start button/menu:
  - Open the Git group, then click on Git Bash, or
  - Type `git bash` in the "Search programs and files box"

OS/X:

- Use Finder to navigate to the Application folder, then the Utilities folder
- Launch Terminal

Ubuntu:

- Click the Ubuntu search icon at the top of the dock
- Type `terminal`
- Launch Terminal