EOAS Software Carpentry Workshop

22-25 September 2015

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 and the Mozilla Science Lab
- Snacks/Coffee from the Department

People

- Instructors: Doug Latornell, Karina Ramos Musalem, Nancy Soontiens
- Helpers: Jordan Aaron, Julia Gustavsen, Tereza Jarnikova, Katerena Kuksenok, Jie Liu, Idalia Machuca, Elise Olson, Katharina Unglert, Cindy Yu

Content/Schedule

- Tuesday: Shell
- Wednesday: Version Control with Mercurial
- Thursday: Programming in Python
- Friday: Programming in Python (cont'd)

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/2015-09-22-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 https://etherpad.mozilla.org/RCWyhBJImc a collaborative workspace for notes, questions, links, etc.
- Transcripts of the shell commands that the instructors type http://eoas.ubc.ca/~dlatorne/swc/2014-09-25ubc/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