

# 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, Katerena Kuksenok, Jie Liu, Idalia Machuca, 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://douglatonell.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/2014-09-25-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