A Gentle Introduction to Linux

CAMH Computing Skills Workshop 1
Jon Pipitone
http://pipitone.github.io/computing-skills

WIFI

SSID: Transforming_Lives

Username in allcaps, e.g. JON_PIPITONE

In a pinch, use:

SSID: CAMHguest

Username: jon.pipitone@camh.ca

Password: 69303637

Room change: RS Tower T321

Upcoming workshops will be held in:

Russell Street Tower, room T321

Also, more spots available.

Me "Research Methods Specialist" aka computer nerd

- CAMH Research / Translational Imaging-Genetics Lab
- Research: computational anatomy, machine learning
- Sysadmin for lab + assist with SCC

- MSc in Computer Science at U of T

- Volunteer with Software Carpentry: teach computing skills to scientists (software-carpentry.org)

- 5 years as a software developer

Computing is important for science

"Software is as important to modern scientific research as **telescopes and test tubes**."

But,

"Scientists spend an increasing amount of time building and using software. However, most scientists are **never taught how to do this** efficiently."

(Wilson et al., 2014. PLOS Biology)

Agenda

- Introductions: name, job, lab
- Q/A
- What is an OS? What is Linux?
- What is the SCC?
- The Terminal / The Shell / Command line
- SSH: remote access
- How files and folders are organized
- A quick tour of the linux shell

Specialised Computing Cluster

SSH remote access

At CAMH, connect to the SCC:

`ssh test_user@192.168.214.10`

`ssh test_user@scc.pipitone.ca`

`password: scc_user`

Or, if on the guest network:

`ssh camh_user@pipitone.ca`

`password: mostly harmless!`

Resources

SCC wiki

    info2.camh.net/scc

SciNet wiki + courses

    support.scinet.utoronto.ca/wik

Software Carpentry workshops

    software-carpentry.org

CAMH research geeks mailing list:

    bit.do/research-geeks

Workshops website:

    http://pipitone.github.io/computing-skills

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