Introduction to Linux & Biocluster

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March 16 - Introduction to Linux

Date: March 16th, 2015, 9 am – 1 pm
Instructors: Jessica Kirkpatrick, Jenny Drnevich (HPCBio)
Location: 607 IGB

Class materials
- Presentation
- Linux cheat sheet
- Getting on a UNIX-based terminal
- Linux commands appendix
- Video of class (Sound is not the best, see last year's video for better quality)

Linux resources
- Beginner self-guided tutorials for extra practice
  - Tutorial from the book UNIX and Perl to the RESCUE!
    - Parts 1 and 2 cover UNIX
    - http://korflab.ucdavis.edu/Unix_and_Perl/current.html#part1
  - SIB tutorial
    - If it asks you to log in, just log in as a "guest user"
    - Click on "UNIX elearning module" at the bottom to get started
  - University of Surrey tutorial
    - http://www.ee.surrey.ac.uk/Teaching/Unix/
  - Ryan's Tutorials
    - http://ryanstutorials.net/linuxtutorial/
  - Coursera course on Command Line Tools for Genomic Data Science
    - https://www.coursera.org/learn/genomic-tools/
    - registration ends March 19th

- Books
  - UNIX and Perl to the RESCUE! by Keith Bradnam & Ian Knorff
  - Developing Bioinformatics Computer Skills by Cynthia Gibas & Per Jambeck
  - Linux Pocket Guide by Danial J. Barrett

March 18 - Introduction to Biocluster

Date: March 18th, 2015, 9 am – 1 pm
Instructors: David Slater (CNRG), Jenny Drnevich, Jessica Kirkpatrick (HPCBio)
Location: 607 IGB

Class materials
- Beginning slide
- Presentation
- Ending slides
- Biocluster help page
- How to submit a cluster job
- qsub script generator
- Video of class
• *Beginning Shell Scripting* by Eric Foster-Johnson, John C. Welch, & Micah Anderson
• *Learning the bash Shell* by Cameron Newham
• *bash Cookbook* by Carl Albing, JP Vossen, & Cameron Newham

### Software

- **PuTTY**: Allows remote access from a Windows computer to a Linux based terminal.
  - [http://www.putty.org/](http://www.putty.org/)
- Mac already has a UNIX-based terminal pre-installed. You can find it in Applications -> Utilities -> Terminal