Intro to Linux/Biocluster

HPCBio Workshop materials are licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.

September 4 - Introduction to Linux

Class materials

- Presentation
- Linux cheat sheet
- Getting on a UNIX-based terminal
- Video of class

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](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/](http://www.ee.surrey.ac.uk/Teaching/Unix/)
  - Ryan's Tutorials
    - [http://ryanstutorials.net/linuxtutorial/](http://ryanstutorials.net/linuxtutorial/)

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

September 11 - Introduction to Biocluster

- Class materials
  - Presentation
  - Biocluster help page
  - How to submit a cluster job
  - qsub script generator
  - Video of class