**This document is for operating the Window Mac which is currently dual booting OSX and Ubuntu 16.04 Linux.**

Power On

If the Mac is off, turn it on by pressing the power on by pressing the power button on the left-hand back of the machine.

Boot Manger

When booting into the machine, the reFIND boot manager should load with the options. Navigate through the options using the arrow keys

* To boot into the OSX operating system, navigate to the leftmost white icon.
* To boot into the Linux partition, select the orange icon furthest right.

If the OS is “taking forever” to load, you may have to perform a hard reboot. Press and hold the power button for a few seconds than repeat the “power on” and “boot manager” steps. You may have to repeat this process multiple times,

Login

OSX

* LabUser is the general user for research assistants. Dr. Warlaumont should have given all lab participants the password.
* If you are having trouble installing something or need access to higher privileges, you will need to access the LabAdmin account. Consult Dr. Warlaumont for the password.

Linux

* EoC lab is the only user and shares the same password as OSX LabUser

Linux Windows Managers (WM)

Linux has the option of having different windows managers. The Window Mac has two: unity and i3.

Unity

* Unity is the default windows manager. It is a traditional desktop with icons, a search bar, etc.
* Unity is the easier of the two to work with.
* Unity maybe required to install software that needs specific permissions and those that cannot be installed with the command line alone.
* To log out or shutdown, the top right corner should have a power icon with the options to do so

i3

* i3 is more advanced as there are several things that cannot be done in the traditional way.
* Windows in i3 are finicky to resize as i3 is a tiling windows manager. Windows automatically fill the screen and resize themselves when there are multiple windows open in a single workspace.
* Most navigation is executed with the command (Alt) button followed by some function keys:
  + The Launcher
    - Most programs can be launched by pressing ALT+D then typing in the program. If it does not appear or fails to launch, it may need to be launched from inside the Terminal
  + General window navigation
    - If you are using a mouse, then whichever window the cursor is on is typically the window that is being “accessed”. The cursor must be moved to access a different window
    - If you are using keyboard controls, you can switch between windows by holding ALT and pressing the arrow keys
    - You can move the windows around the workspace by holding ALT+SHIFT and pressing the arrow keys.
    - The mouse cursor can be used to resize windows. You would need to place the cursor between two windows and press to resize. This will automatically resize the two panels being adjusted.
    - To close a window, press ALT+SHIFT+Q
  + Workspaces
    - To move around the 10 workspaces, press ALT+(0-9) for the corresponding workspace.
    - To send a window to another workspace, press ALT+SHIFT+(0-9) for the corresponding workspace.
  + Terminal
    - Press CTL+ALT+ENTER to launch the terminal
    - When typing, you can press TAB to see available commands and/or files that work with a given command
      * TAB can also be used to “autocomplete” expressions in the terminal
    - To see the contents of a directory, type “ls”
      * To see hidden files, type “ls -a”
    - To change directories, type “cd path to directory”
    - To execute a program from the command line:
      * For some programs, you can just type the program name to execute
      * Some programs need to be executed from the directory they are in. most can be executed by typing “./*program name*”