

## Mounting the CS Department Filesystem onto your own using FUSE (Mac)

FUSE is a useful way to mount all of your CS Department files on your local Mac file system, so that you can access them and modify files without ssh or scp. While the files are mounted, changes are saved to your department machine filesystem (**no** copying back and forth). Note that mounting files does not give you access to applications installed on department machines, so you will have to use text editors or other applications that you have installed on your local computer. This means that FUSE is going to be the most useful if you've already downloaded the correct java version and configured a text editor (e.g. Atom) and/or Eclipse. For instructions on how to do this, refer to the Working From Home presentation slides.

1. First, download OSXFUSE and SSHFS from this website: <http://osxfuse.github.io/>
2. Open Finder > Preferences and make sure **Connected Servers** under **Show these items on Desktop** is checked.
3. Create the directory in which you would like to place the CS file system. It will hold the same files and directories as your home directory on a department machine. *Note: you must create a new empty directory, otherwise mounting the filesystem might overwrite the contents of the directory!*
4. Run the following command from your terminal:

```
sshfs <login>@ssh.cs.brown.edu:/gpfs/main/home/<login> <path to your local dir>
```

<path to your local dir> is the absolute path to the directory you created in step 3 (hint: navigate to this directory using Terminal and then use `pwd` to obtain the absolute file path) Make sure there is no space between `:` and `/gpfs/...`!

5. Now, if you navigate to the directory you mounted the files in, either in Finder or in Terminal, you should see all of the files that are normally in your home directory over ssh or in the Sunlab. You should also see an OSXFUSE drive on your desktop - open this and you will be in your CS home directory. Right click on the drive and click eject to unmount the filesystem.
6. Your files are mounted until you manually eject the OSXFUSE drive from the desktop or until your computer shuts down/goes to sleep (just like ssh). This means that you must run the above command every time you want to mount the filesystem, so it is helpful to save the command in an easily accessible location from which you can copy and paste it in. Alternatively, set up an alias for the long command, and you will only have to type in your alias to mount the files. [This guide](#) explains how to set up an alias on Mac.

**Disclaimer:** Sunlab Consultants haven't necessarily done this, so they may not be able to help you set it up! Some of your cs15 TAs have, though.