Remote Login

Important:

Programs will be graded on the CS department machines. Do not assume that if it works remotely, it will work on campus. Always run your program from a CS department computer before submitting.

Logging into a CSU CS department machine will require you to know the machine name that you want to log in to. You can get a list of all the computer in the department here: http://www.cs.colostate.edu/~info/machines . All of the computers in the Linux Lab (CSB 120) are named after vegetables, so if you can't remember one, think of a vegetable and it is likely a computer in the lab.

Mac:

If you are using Mountain Lion or later, XQuarts (the mac X11 client) has been removed by default and you must install it manually. You can install it here: http://xquartz.macosforge.org/landing/

1. Open a terminal (cmd+space and type "terminal").
2. In the terminal type: `ssh -X <your_cs_login>@<cs_machine_name>.cs.colostate.edu`

   Ex: `smith@carrot.cs.colostate.edu`

3. Enter your cs department password.
   (**NOTE**: nothing will show up as you type, this normal just type your password and hit enter).
4. Use this terminal as you would on a campus computer.

Tips:

- The -X (capital X, not lowercase) enables X11 forwarding (this allows you to open windows and use them remotely) and is not necessary if windows are not needed.
- Type `exit` to end your session and return back to your local terminal.
- You can submit your assignments using the regular checkin script:

```
~cs200/bin/checkin PAx AssignmentX.java
```

Windows:

Windows requires a little bit more work to login remotely. Windows users must install a few tools before they can log in remotely.

1. Download and install PuTTY: http://the.earth.li/~sgtatham/putty/latest/x86/putty-0.62-installer.exe
   (**NOTE:** this link may break with updates to PuTTY please refer to the PuTTY website to install the latest version http://www.chiark.greenend.org.uk/~sgtatham/putty/).

2. Download and install Xming : http://sourceforge.net/project/downloading.php?

group_id=156984&filename=Xming-6-9-0-31-setup.exe
(**NOTE:** this link may break with updates to Xming please refer to the Xming website to install the latest version)

- If you do not need X11 forwarding (i.e. you don't need windows) this step is not necessary.

3. Run Xming, there will be no graphical notification to signify that Xming is running. To check, expand your taskbar and look for the Xming icon.

4. Fill out the fields as follows:

   Host name: `<your_cs_login>@<cs_machine_name>.cs.colostate.edu`

   Ex: `johnson@tomato.cs.colostate.edu`

   Port number: `22`
   Connection type: `SSH`

5. In the left-side pane, select `SSH --> X11`
6. Check `enable X11 forwarding` (**NOTE:** skip this if you did not install Xming)
7. Click open
8. In the pop-up terminal type your cs department password (**NOTE**: no characters will appear on screen, just type your password and press enter)
9. You're done! Use this terminal as you would a terminal on the department linux machines

Tips:

- You can save profiles in PuTTY to save you typing each time you log in remotely.
- You can have multiple PuTTY sessions running at the same time.
- You can change the look of your PuTTY terminal in the settings tab before you log in.