Homework 1: Introduction to the Shell

Due: Feb 1, 2016 by the beginning of class.

You can use whatever shell/OS you like, but I will assume you have access to a modern GNU userland/flags, and your work will be graded accordingly. As such, you are strongly encouraged to use your Ubuntu VM or Newton.

- 1. (10 pts) Explain briefly in words what the command ls does if you enter it into the terminal? What about # ls (include the leading # symbol)? Briefly, explain the difference.
- 2. (10 pts) For each of the following, determine if there is a difference between the pairs of commands. If there is a difference, briefly explain why (if there is none, simply say so).

```
a. ls -ahl and ls -lahb. ls -ahl and ls -a -h -lc. ls -si and ls --si
```

3. (10 pts) Briefly, in words, what does the following command do?

```
grep -iR "foo" *
```

- 4. (10 pts) Produce valid syntax for a command that takes the list of the first 5 files in your home directory in long listing format and writes this to a new file (overwriting if necessary) called first5.txt. (Hint: ls, head, redirection+pipes. man is your friend).
- 5. (10 pts) Using the date command, give valid syntax to display the alphabetic time zone abbreviation (currently "EST").