COMP161 - Homework and Lab 1

Spring 2013

Your first lab and homework assignment is simple: complete the *Learn Code the Hard Way* CLI crash course listed on the syllabus.

Homework 1

Due at the start of Lab on 1/21

For this assignment you should have completed the crash course up to the *Pipes and Redirection* section. Here's what I'll be looking for:

1. Flash Cards or Study/Memorization sheet that includes any shortcut/special forms of the commands you encountered in the crash course. These will be checked at the start of lab and left with you.

2. List of questions and hopefully answers. This will be collected at the start of lab.

Note that these are essentially the things Zed tells you to create in the *How to use the book* subsection of the introduction

Text Files

The later sections of the homework ask you to create some text files with a text editor. So that you can focus on the CLI issues, I've created some text files for you to work with. They're in the course home directory so you'll need to copy them to your directory. These files can all be found at */home/comp161/sp13/LctHW-CLI/*:

- *command.txt* An article/story written by Neil Stephenson which discusses some of the history of the Command Line and the early days of computing. You can find this online at `http://www.cryptonomicon.com/beginning.html`. This is a large text file.

- *ex12-short.txt* A short text file with a famous phrase in it.

- *lorem1.txt* Three paragraphs of Lorem Ipsum text. A medium sized text file.

- *lorem2.txt* One sentence of Lorem Ipsum text. A short text file.

Again, *you must copy these files over to the directory you're doing your crash course out of and cannot work with them where they are.*

Lab 1

For lab you should complete the crash course. When you're done, do the following:

1. Create a folder called lab1 in your home directory.

2. In that folder create the following using the crash course commands:

   - A file called *myhome.txt* which lists the contents of everything in your home directory and all its subdirectories (if any exist).
   - A folder called *afold* which contains a folder called *asubfold*

Submit the *lab1* directory using the *handin* command as discussed below.

handin

The command *handin* runs a script which electronically submits your homework on the server. Entering *handin -h* will give you the help text for the command which tells you how to use it. In general, you'll be handing in a folder full of code and text files. As shown in the help text, if you wanted to submit the contents of the folder *tempdir* then you'd enter *handin comp161 lab1 tempdir.*

Getting Ahead

We'll be using the EMACS text editor to develop our programs. EMACS has a built in tutorial that you will eventually be completing. It would be a really good idea to go ahead and get started on it when you finish up the CLI crash course. To launch emacs use the command *emacs*. Once emacs is loaded, use the command *Ctrl-h t* (this means press Ctrl and h at the same time, then release them, then type t and hit enter) to start the tutorial.