CS061 - Lab 01
Setting up

1 High Level Description

Today all we will do is get you set up with all the systems you'll need for programming the LC-3 and submitting your assignments.

2 Objectives for This Week

1. Installing the Virtual Machine manager and software
2. Creating and managing a VM from a provided image
3. Setting up a GitHub account and linking to a GitHub classroom assignment
4. Do a sample assignment and submit to GitHub

3 Install a Virtual Machine on your laptop

*You are required to bring your laptop to all labs in this class: see the **BCOE laptop policy***
*Note that netbooks and Chromebooks and tablets do **NOT** meet the requirements!!*

In order to maintain a uniform working environment for all students, in your first lab we will have you set up a virtual machine on your laptop, with pre-installed tools for the class.
(Among other things, this will give you early experience with a hugely important technology that you will be needing throughout your career).

Work through the VM Installation guide.
You must complete at least steps 0 through 2 before lab *(but if you feel confident, you can go ahead and complete the full installation before lab).*

4 GitHub and GitHub Classroom

All your assignment and lab specs will be set up in GitHub Classroom, with links to them in a Piazza post - read the **Guide to GitHub** for full details. Study it carefully - you need to master this!
If you don't already have one, sign up ***now*** for a **free GitHub account**.
Now tell us **your GitHub username** *(we can't give you credit for your assignments until you do!)*

5 Finally! The actual Lab 1 instructions!

- Once you have read the GitHub guide, go to Piazza, open the post "GitHub Classroom Lab and Assignment Links" (pinned to the top), and click on the GitHub Lab 1 link; this will set up your private GitHub repo for Lab 1. Now follow the instructions in the Guide and clone it to a local repo in your VM *(it will be called* `lab-1-<your github username>/`*).*

- From within your VM, cd into the local repo you just created and do the exercise *(write a C++ "Hello World" program using the cpp skeleton file in the repo)*.
  Then git pull, add, commit & push it back up to your GitHub repo, as described in the Guide.

- Now show the newly updated GitHub repo to your TA, and you'll be on your way :)