

# Session 1 : The Programming Environment

## Session Date : 06/27/2016

### Topic Overview

Basic environment setup. File systems and their navigation with the command line. Editing text with Vim. Source control with Git and GitHub.

### Learning Objectives

By the end of the session, students will be able to:

- Compose, edit, and save a text file with the Vim text editor, as well as navigate through a text file
- Copy, move, and create files and directories with the Shell
- Commit text files to version control
- Run a Linux virtual environment on a computer

### Before the Session

Before the session, students should:

- Read through chapters 3, 6, 7, and 8 from “Introduction to Linux” (<https://www.edx.org/course/introduction-linux-linuxfoundationx-lfs101x-0>). If other chapters interest you, feel free to read through them as well.
- Practice touch typing. Your minimum goal should be 50 words per minute. Typing skills will boost your performance both in this course and beyond.
- Prepare to discuss interest in programming
- (optional) Try setting up, and running, a Linux-based OS on a computer

## During the Session

During the session on 06/27/2016 , we will:

- Set up Linux virtual environment
- Introductions, discuss reasons for wanting to program
- Complete vimtutor to learn how to edit text with Vim (due 06/27/2016)
- Complete shell challenges to learn about the operating system (due 06/27/2016)
- Commit edited text to version control to learn the basics of Git

## After the Session

After the session, students should:

- Work through vimtutor one or two more times before next session
- Continue exploring your Linux distribution