Session 1 : The Programming Environment
Session Date : 06/01/2017

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 06/01/2017 , 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 today)

- Complete (first set of) shell challenges to learn about the operating system (due today)

- 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