COMPSCI 220 Programming Methodology
Week 01 Syllabus: Administration and Introduction to Scala

Overview

Welcome to COMPSCI 220 Programming Methodology! This week we will introduce the course and dive in to the Scala programming language. In particular, we will be orienting you to what this course is about, what you will be learning, course policies, and Scala programming basics. We will also be exploring some of the tools we will be using in this course to program in Scala and complete assignments. We will provide a weekly syllabus such as this one for each week of the semester. We expect that you will follow the tasks, read the assigned readings, review the weekly material, and view the resources within each weekly syllabus.

Tasks

1. Download a free copy of the first 11 chapters of *Scala for the Impatient* (Cay Horstmann).
   https://goo.gl/CsRGaj

2. Download and install Java 8, http://goo.gl/X68FzJ
   a. Accept the license agreement.
   b. Choose the download for your operating system.

3. Download and install Scala 2.11.7, http://goo.gl/E4mV6I

4. Download Typesafe Activator, https://goo.gl/scBy7E
   a. Watch this video to learn the basics of Activator.
      https://youtu.be/phFsLsvzBvY

5. Download and install IntelliJ IDE.
   a. Create a student account for a license, https://goo.gl/n3oI8E
   b. Download the IntelliJ Ultimate Edition, https://goo.gl/yBR7ux
   c. When you run IntelliJ for the first time choose the Scala plugin to install.

Reading

- Scala for the Impatient (46 pages)
  - Chapter 1: The Basics
  - Chapter 2: Control Structures and Functions
  - Chapter 3: Working with Arrays
  - Chapter 4: Maps and Tuples

Material

- Lecture 01: Administration and Scala
- Lecture 02: Arrays, Maps, and Tuples

Resources

- Scala Programming Language, http://goo.gl/UrYl
- Scala Documentation Site, http://goo.gl/3jf3cu
- Scala API Documentation, http://goo.gl/iPJ0gL