Lecture 9/17/2015 CS220

Todays Goals

* Version Control and Git Basics
* Packages and Imports
* Inheritance
* Documentation and Comments
* Testing

Git Version Control

* Git is a version control system (VCS) created for a single task:
  + Managing changes to your files. It lets you track every change a software project goes through, as well as where those changes came from. This makes Git an essential tool for managing large projects, but it can also open up a vast array of possibilities for your personal workflow
* Brief History: Local VCS
* Brief History: Centralized VCS
  + Instead of storing project history locally, new CVCs programs stored everything on a server
  + Developers checked out files and saved them back
* Brief History: Distributed VCS
  + Instead of a central server,, every developer has their local copy and changes are merged into one another
  + This is how Git works
* Git Commands
  + git init
  + git status
  + git add
  + git commit
  + girt log
* Package Objects
  + A package can contain classes, objects, and traits, but not the definitions of functions or variables – an unfortunate artifact of the Java Virtual Machine!
* Package Visibility
  + In Java, a class member that isn’t declared as public, private, or protected has package level visibility
  + In Scala, you use qualifiers, which provide a finer-grained level of specifying visibility
    - package com.horstmann.impatient.people
    - class Person{
      * private[people] def description = “A person with name “ + name
      * …
    - }