Lecture 02: Introduction to C++
January 25th, 2016

Announcements
• Reading
  – Reading/Quiz on Chapter 1 due this morning
  – Next assignment: Chapter 2 for next Monday
  – Some may benefit from reading 9.4, 9.5, 9.7
• Recitations begin this week
  – Unix commands: focus on chmod, tar
• Expect PA1 to be handed out Wednesday
  – Due 1 week from Wednesday

Review
• Last week we talked about
  – Goals of the course
    • Build & maintain large programs
    • Understand what’s “under the hood”
    • Learn C++, learn more about Java
  – Differences between C++ & Java
    • Motivated by goals of the languages
    • C++: Legacy code, access to hardware, machine efficiency
    • Java: Security, portability, programmer efficiency

When do we learn C++?
• Starting today (right now)
• But you don’t learn your 2nd language the way you learned your 1st
• How do you learn another language?
  – Step 1: goals & context language
  – Step 2: summary or list of differences
  – Step 3: dive in – learn by example

Picking an example
• Not too complex
• Similar to your task (if possible)
• Good style
  – The goal is not to write Java in C++
• My example: a complex number class
  – Complex.h
  – Complex.cpp
  – main.cpp