

Introduction to CS1 Java Programming

cs163: No prior programming experience
cs164: Prior programming experience



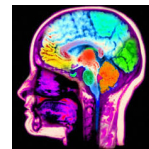
Fall Semester 2016

Introduction to CS1 Java Programming

1

Why Computer Science?

- It's exciting
- It's lucrative
- It's fun (sometimes!)



Fall Semester 2016

Introduction to CS1 Java Programming

2

Instructor

Chris Wilcox



- cs163, Section 001, MWF 12:00 - 12:50pm, Scott 101
- cs163, Section 002, MWF 4:00-4:50pm, Clark A201
- cs164, Section 001, MWF 1:00-1:50pm, Clark A201

Office: COMCS 256

Email: wilcox@cs.colostate.edu

Office hours are posted on syllabus.

Teaching assistants on syllabus.



Fall Semester 2016

Introduction to CS1 Java Programming

3

Curriculum

- C1: Languages, Computers, Operating Systems
- C2: Identifiers, Variables, Expressions, Operators
- C3: Conditionals, Booleans, Logical Operators
- C4: Math Functions, Characters, Strings
- C5: Loops: while, do/while, for
- C6: Methods: Parameters, Return Values
- C7, C8: Single and Multidimensional Arrays
- C9: Objects and Classes
- C12: Exceptions and File Input/Output
- C13: Interfaces
- C18: Recursion
- C20: Lists, Collections, Iterators
- C22, C23: Algorithms, Complexity, Sorting

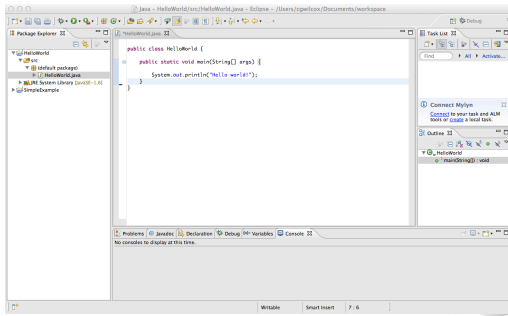


Fall Semester 2016

Introduction to CS1 Java Programming

4

Java Programming

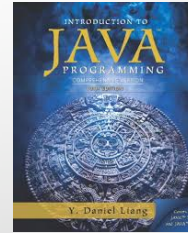


Fall Semester 2016 Introduction to CS1 Java Programming

5

Resources: Java Textbook

Introduction to Java Programming – Daniel Liang, 10th Edition, Revel License



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6

Resources: iClickers

- Register your clicker on Canvas by August 27
- Bring your clicker to every lecture!



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7

Grading Criteria

- Your grade will be based on:
 - In-Class Exams : 50%
 - 1st midterm : 15%
 - 2nd midterm: 15%
 - Final exam : 20%
 - Programming Assignments: 15%
 - Programming Quizzes: 10%
 - Labs: 10%
 - Quizzes (online, Revel): 10%
 - Peer Instruction (in class, iClicker): 5%



Fall Semester 2016 Introduction to CS1 Java Programming

8

Grading Policy

- If you think you have been graded unfairly, visit the cs163/cs164 help desk.
- If you cannot resolve the problem, email the cs163/cs164 address and identify your section.
- All grades and exams are returned within one week of the due date (usually even faster).
- Complaints about grades must be made within two weeks of when the grade is released.

Fall Semester 2016

Introduction to CS1 Java Programming

9

Communications

- Talk with your teaching assistant before or after labs, at help desk, or during lab hours.
- Talk with your instructor before or after lectures or during office hours.
- Email your instructor directly only if privacy is needed (health issue, staff complaint, etc.)
- Do not attach comments to Canvas, use the Piazza bulletin board instead.
 - Piazza is in Canvas modules.
 - Topics for assignments, grading concerns, ...

Fall Semester 2016

Introduction to CS1 Java Programming

10

Late Policy

- Every assignment lists a due date
 - Almost always on Mondays at 6pm
 - Full credit requires meeting this deadline
- Every assignment lists a late date
 - Late submissions have 20% penalty
 - After this deadline, no credit is given
- Exceptions only for emergencies
 - Medical emergencies, family emergencies, with documentation
 - If an emergency happens, email your instructor right away
- Do not miss in-class quizzes!
 - Can submit via email with excused absence
 - Very hard to get right without group help

Fall Semester 2016

Introduction to CS1 Java Programming

11

Getting Help

- Web Sites:
 - www.cs.colostate.edu/~cs163
 - www.cs.colostate.edu/~cs164
- Lectures, Recitations, Lab Hours, Help Desk
- Lab operators (general questions)
- Office Hours (see syllabus)
- Tutors, Friends, Consultants (be careful)
- Online Textbook, Internet

Fall Semester 2016

Introduction to CS1 Java Programming

12

Academic Integrity

- All assignments, labs, quizzes, exams are solo
 - Unless otherwise specified
 - No notes, books, internet, other people
 - You may get help from course instructors and TAs
 - You may discuss concepts with other students, but:
 - Never share code with another student
 - Never copy code from another student
 - Never let anyone else type in code for you
- Know the department academic honesty code!



Fall Semester 2016

Introduction to CS1 Java Programming

13

Lecture Expectations

- Come to class
 - Attendance predicts success
- Be active, not passive:
 - Take notes, Ask questions
- Be prepared
 - Do reading assignments before the lecture
- Be on time
 - Lectures start and end on time



Fall Semester 2016

Introduction to CS1 Java Programming

14

Lecture Expectations

- Cell phones off or on vibrate-only
 - If you need to answer, leave the room first
- Laptops for note taking or coding!
 - No games, audio, video, inappropriate websites
- Respect your colleagues
 - No snide or rude comments
 - No comments on abilities
 - No extended conversations



Fall Semester 2016

Introduction to CS1 Java Programming

15

Lab Expectations

- Use the Linux Lab – COMSC 120
 - Not the Windows Lab – COMSC 110
 - No uncovered drinks and no food
- Lab operator on duty during day
 - You can ask then general questions
- Treat the lab as a professional workplace
 - No disparaging comments
 - No loud/rude/distracting behavior
 - Professional comportment at all time
 - **No sexual harassment of any sort, not ever!**



Fall Semester 2016

Introduction to CS1 Java Programming

16

Practical Matters

As a student in this class...

- You have CS department email:
 - Your address is eid@cs.colostate.edu
 - Automatically forwarded to CSU email
 - You should read this mail regularly
- You have an account of CS systems:
 - CS systems not the same as ACNS machines
 - Your RamCard provides access to Linux lab
 - Same as the EID that you use to login to RamWeb
 - Password is your CSU ID, you should change it!

Fall Semester 2016

Introduction to CS1 Java Programming

17

Diversity

- Foster a culture of **respect** between students, faculty, and staff in Computer Science.
- Eliminate **discrimination** and **inequality** based on gender, race, age, religion, etc.
- Increase **participation** by groups that have been persistently underrepresented in our field.
- Avoid Title IX **issues** arising sex-based discrimination, sexual harassment and sexual misconduct.
- Provide a **congenial working atmosphere conducive to creative and productive research and teaching.**

Department Code, 5/9/2011

Fall Semester 2016

Introduction to CS1 Java Programming

18

Motivation

A student asks a roommate, "Could you please go shopping for us and buy one carton of milk and, if they have avocados, get six." A short time later, the roommate returns with six cartons of milk. "Why did you buy six cartons of milk?" asks the student. The reply: "They had avocados."

Reader's Digest, September 2013

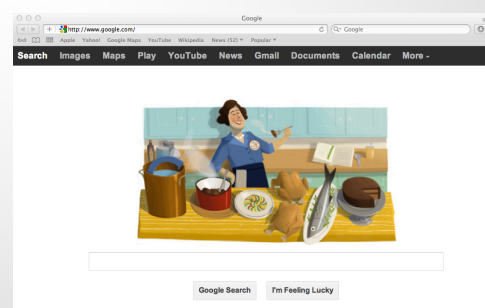
This is exactly what your Java program will do, because computers do what you ask them to do, not what you want them to do!

Fall Semester 2016

Introduction to CS1 Java Programming

19

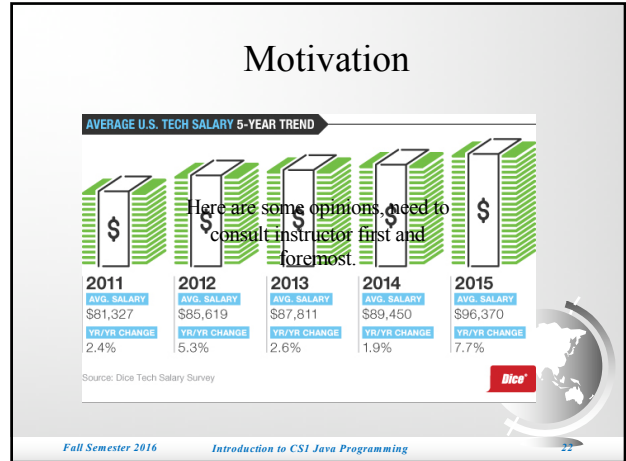
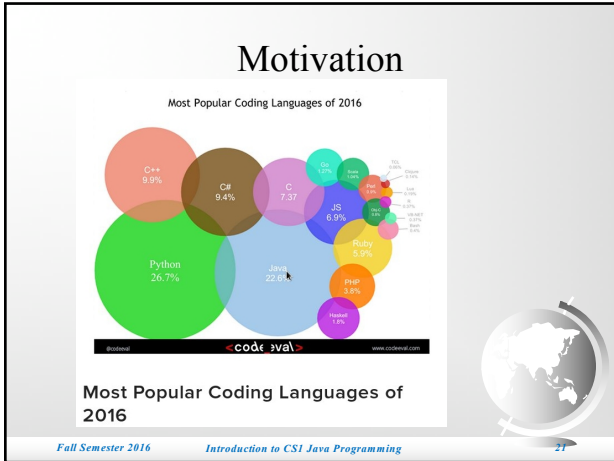
Motivation



Fall Semester 2016

Introduction to CS1 Java Programming

20



Computer Science Department Picnic

Welcome to the 2016-2017 Academic year !

Meet your faculty, department staff, and fellow students in a social setting. Food and drink will be provided.

When: Saturday, September 10th
 Time: 11am – 2pm
 Where: City Park Shelter #7

Fall Semester 2016 Introduction to CS1 Java Programming 23