

**Matt Boutell**  
**Olin 167**

Don't plug in your laptop just yet...

And think of something memorable  
about yourself as a matter of  
introduction...

# Course Introduction

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CSSE 221

Fundamentals of Software Development Honors

Rose-Hulman Institute of Technology

# The Key Players

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- You: roll call.
  - Nicknames, correct pronunciation, something interesting?
- Me: Matt Boutell
- The course assistants:
  - Jimmy Theis (sect 1)
  - Andrew Siegle (sect 2)



# Life outside of Rose

# Intro to the course

- OO software development in Java.
- 18 chapters! (1-16.4, 18, 20)
- Lots of programming, including:
  - Each week structured around a prog. assignment
  - 1 bigger team project
- Researching and presenting course material to classmates
- Intro to C

	Topic	Project	Indep
1	Interfaces	BigRational	
2	Inher & Poly	BallWorlds	Research
3	GUI	Fifteen	Research
4	Lists	VectorGraphics	Demo
5	Data Structs	Markov	Demo
6	Simulation	Simulation	
7	Threads	Simulation	Present
8	Sorting	Simulation	Present
9	C Basics	C Projects	
10	Linked Lists	Linked Lists	

# Diversity

Majors

Programming backgrounds

At the end of the course...

Major	Count
CS	11
CpE	6
EE	6
SE	5
ME	5
CHE	5
MA	1

# Course Mechanics: Syllabus

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- Office: where and when?
- Extra help: Moench F217, at least Sun-Thurs 7-9 pm
- What email address should you use for the fastest response to your questions in this course?
- List two electronic distractions, mentioned on the Syllabus, that you should avoid in class.
- If you use someone else's ideas in work that you turn in for this course, what are the two things that you have to do, according to the Syllabus?
- After two unexcused absences in this course, what do you have to do?
- Is there a “Late Day Bank Account” for this course?

# Course Mechanics: Angel

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- Subscribe to forums
- Look at Schedule together
- Homework 1 due when?
- Projects folder

# Today's content: Eclipse and SVN

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- Subversion (SVN) is used for version control.
  - Backups
  - Working together
  - *Collaborative Poetry* Exercise
- Eclipse is our Integrated Development Environment (IDE)
  - Easy to write code in both Java and C.
  - *Hello World* from scratch
  - *JavaEyes* modifications



# Benefits of Version Control

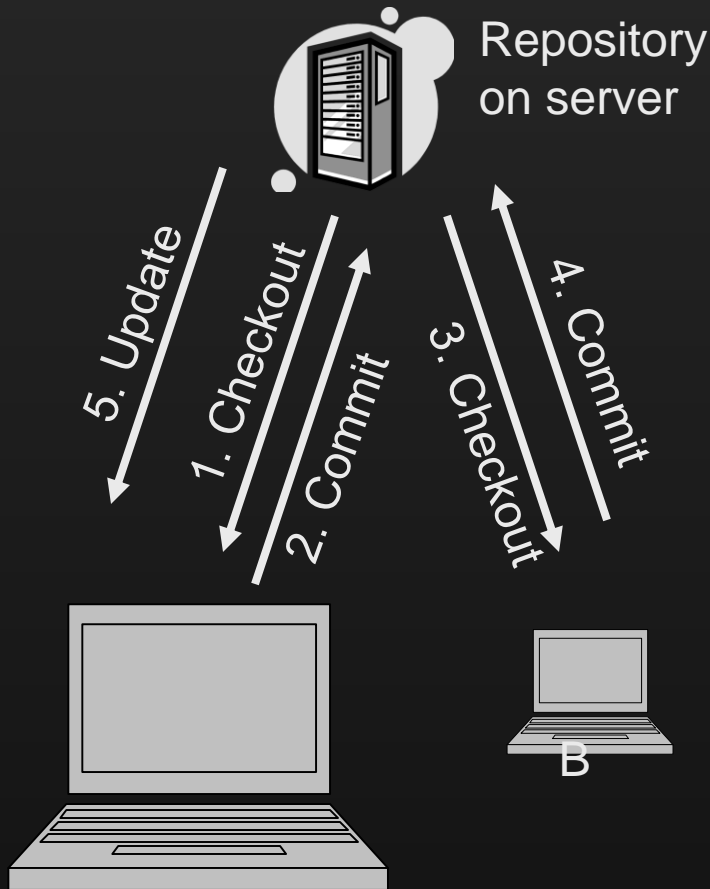
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- Server
- Saves emailing
- Backup
- Rollback
- Turn in

# Using Version Control

## 1: The instructor provides starting code

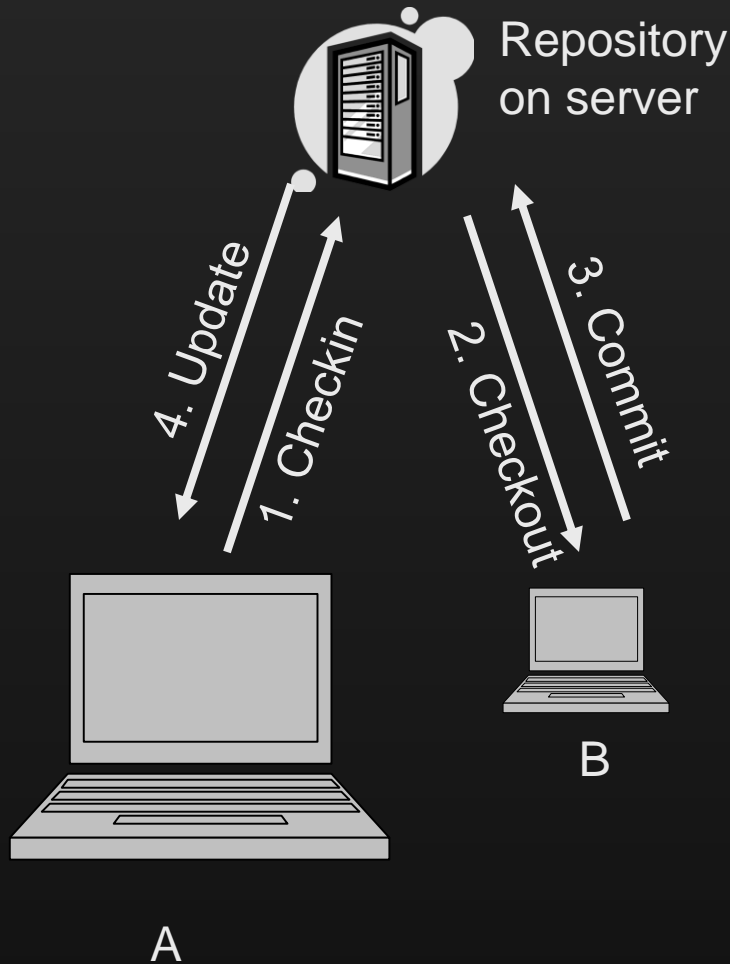
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1. A checks-out the project from the repository.
2. A commits any changes (so that the repository stays current).
3. B checks out the project from the repository (getting the most current version).
4. B commits any changes (so that the repository stays current).
5. A updates her local copy.

# Using Version Control

## 2: The students create the code from scratch



1. A creates the project and checks it into (team>share) the repository.
2. B checks out the project from the repository.
3. B commits any changes (so that the repository stays current).
4. A updates her local copy.

# On to the exercises!

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- Collaborative Poetry
    - break--
  - Hello World
  - Start Java Eyes
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- Finish all as part of the homework, due Monday when you arrive at class.