

CSE 125: Spring 2014

Instructor

- Geoff Voelker (voelker@cs.ucsd.edu)
- CSE 3108
- Hours: Mon 3-4pm
 - » By email, also drop by

TA

- Thinh Nguyen (thn024@ucsd.edu)
- 2013 veteran (DustBusters)



History

- This course is modeled after a UW course
 - Created by John Zahorjan (UW prof) and Dennis Cannady (MS program manager (VisualBasic))
 - Dennis was the original inspiration for the goal & style of the course, John chose games
 - I was the TA for the first two classes ('97, '98)
 - » (>15 years already...sigh)

UCSD

- Have taught a version at UCSD since 2001
- Projects are on the Web (for those hosted here at UCSD)
- You are the 14th class!

Software System Design and Implementation

- Why isn't this course titled, "Game Design ..."?
 - There are many other factors to game design that we will not touch on (e.g., AI, playability, etc.)
 - » More on this later
- By the end of the course, you'll hopefully realize that what you learned in doing the project will apply to any large software project that:
 - Is distributed, has performance constraints, has real-time constraints, has actual users other than the developers, etc.
 - The game provides great motivation
- Another perspective: This course is an opportunity to apply everything you've learned in the major

Class Format

- Lectures
 - First week: Intro + tips and techniques
- Group meetings
 - Once a week meetings (30 mins) with us in lab
 - Groups and individuals will submit progress reports
 - We will discuss progress, problems, plans, changes
 - We can fit schedules
 - » Try to use class periods
 - » Try to be contiguous across groups
 - » We'll organize by email
- Guest lectures
 - From local games companies during lecture slots
 - (Disney Interactive, April 17th)

Class Sketch

•	Specification, schedule, milestones: 1.5 weeks	(1-2)
•	Preliminary development: 2 weeks	(3-4)
•	Project development: 4 weeks	(4-8)
•	Spec freeze, alpha testing: 1 week	(9)
•	Beta testing: 1 week	(10)
	 Ship at end of beta testing 	
	 Demo at seminar 	
•	Review document: 1 week	(11)
	 Due during Finals week 	
•	Guest lectures sprinkled in	

Your "Final"

- We will have a seminar, open to the public, where each team will demo their game
 - Four players drawn from the group and the crowd
 - Makes you look like totally awesome cool hackers
 - ◆ But it's also "for real" → everyone will be watching!
 - » (Last thing you want is a blue screen of death…)
- Friday afternoon of last week of class
 - Afternoon of Friday, June 6 (4–5:30pm)
 - » Reserve this date now
 - Invite your family and friends!
- Written project report due at end of finals week
 - Low key, hard part is already over with

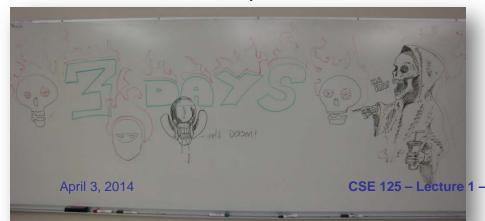


Facilities and Platforms

- Class lab: EBU3B B220
 - (10) P4 3.2 GHz w/ 2 GB RAM aging, but workable
 - (20) Core2 Duo 3.16GHz w/ 4GB RAM
 - All have GeForce 8600GT 512MB video cards
 - » We'll demo on i7quad-core, GeForce 460s @ 1600x1200
 - » Available last 2-3 weeks for development
 - Windows 7, Visual Studio, svn
 - » C++ by default, but can use any language by group agreement
 - Maya, 3D Studio Max, MilkShape3D
 - DirectX June 2010 (should be latest version)
- You should be able to work from home, too
 - Win7, Visual Studio from MS
 - Note: MS software for personal use, NOT for resale

Lab Use

- Consider the lab your home
 - But don't move out of your apartment (yes, it's happened...)
- Lab is dedicated for CSE 125
 - Front door locked (but fire door in back is not)
 - Only CSE 125 accounts active on machines
- Locked cabinet, only accessible by folks in the class
 - Store books, controllers, etc.
 - Please lock up





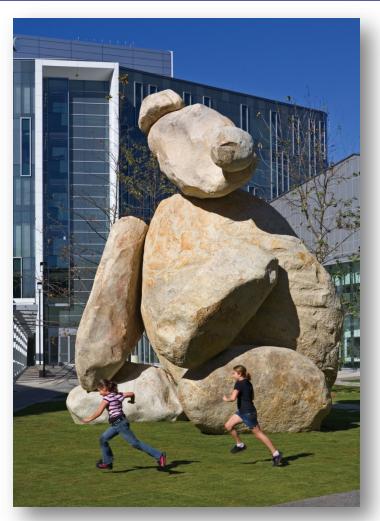
Books and Controllers

- Many books in the lab locker
 - List is on course Web site
- Hardware
 - Logitech and Xbox360 controllers (force feedback)
 - Portable speakers
 - » But expect to use headphones much of the time
 - Microphone
- I can always buy more
 - Let me know if there are some we should get

Art

- You already have skillz, or ...
- Troll the Web
 - There is artwork for many games out there
 - Usually in some kind of "standard" format
 - » Produced from modeling software
 - Can usually load directly into game using DirectX functions
 - If not, look at the code in the game editors to help figure out how to manipulate
- Find an artistic friend
 - Seriously...has happened successfully in the past

Speaking of Art...







Intellectual Property

- Speaking of trolling the Web...
- Many things are posted as "use freely"
- But if it isn't
 - Ask before using...just takes an email, and people are usually flattered to have their stuff used
- Also, note that you own the copyright on the code that you write – not UCSD
 - Because you pay for your education
 - Not the same for grad students, staff, or faculty
- You can do whatever you want with your project

Group Web Pages

- Each group will maintain Web pages for the project
 - Schedule, milestones, comments, pictures, blatherings, etc.
- Think of your group Web page as a living design document for your project
- More to come
 - Once we get the groups established

Collaboration and Competition



- Everyone is in this together
- I want you to help each other out, even among groups
 - Especially solving bugs
 - Share code tips
 - » E.g., this is how I created a frame buffer with these properties...
 - But not classes, modules, or files
 - » Each group has to develop
- How?
 - Email (there will be a class list)
 - In the lab the lab is there for your exclusive use
- Use the lab!
 - Repeat: Use the lab!

Grading

- A non-goal of the course is to worry about grades
 - Everyone can get an A in the class...
 - ...as long as you contribute and collaborate
- We will be meeting with each group weekly
 - We will be able to determine whether you are a functioning and contributing group member
- Marital problems
 - Come to me if your group is having "issues"
 - » The earlier, the better
 - We will solve these problems as a group
 - Working to support a group, engaging, and compromising are all part of your grade – do not compartmentalize

Going Forward...

- Outside of class
 - Meet with your groups
 - Start discussing what you want your project to be
 - Look at the projects that have been done in the past
 - More details online
- Thu: Thinh's survival lecture
- Fri: Project architecture (11am?)
- Tue: Discuss games in group mtgs
- And the countdown begins...



Questions

Any questions?

Groups

- Form groups of 6
 - Choose team members
 - » Primary constraint: Need graphics folks on each group
 - Choose a team name
- Work in pairs!

