

CSCI 4070 & 6070 Introduction Game Programming

[heavy programming focus]

Course Overview



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Short Term Plan

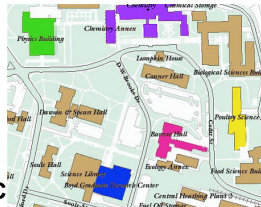
- Today go over expectations and course plan
- Wednesday: History of Games
- Thursday; we will start Part 1 of the Mojang movie
 - » And next Thursday we will watch Part 2: A case study of a successful game.
- Next week (lecture oriented)
 - » Introduction to game programming
 - » Continue : Game programming history
 - » TED talk (Will Wright's Spore Talk – 16 minutes)
 - » Create a simple game. [theme of course: simple/basic tutorials to provide fundamentals for hackathons and projects]

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Administration / Logistics

- Who am I?
 - » Office: Boyd 219C
- Class:
 - » Check Web Page
- maria@cs.uga.edu
- Office Hours: Thursday After C
 - » And by e-mail appointment
- TA: TBD - check class web page for updates... office hours ...



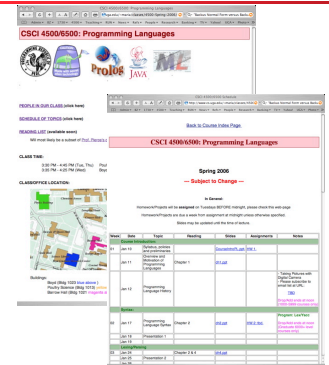
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The 3 Communication Links

1. Web Page (different from image on right), navigate via: www.cs.uga.edu/~maria/
2. Your responsibility
 - » Understand policies, honor code
 - » Work independently on projects & homework
 - » Check page often for updates "refresh" to get latest copy
3. Email list (tentative name)
 - CS-GAME@listserv.uga.edu



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Course Objectives

- Learn about creating games on different platforms, environments
 - » Understand what a game engine provides.
- Learn about using different gaming engines and environments
 - » 2D: HTML5/Canvas
 - Game Engine : ImpactJS (\$99 not free),
 - » 3D Unity (free),
 - » Python/Pygame
- Algorithms:
 - » Path planning,
 - » Intelligent behaviors (tentatively)
 - » Events, Collision and Animation
- Hands on programming (heavy focus).
- Game History



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Course Theme: Gamified Course

- Social Learning
 - » Learn from your peers
 - » Interact with your peers
 - » While maintaining integrity
 - end up with a game that you created not your peers.
- Practice programming
 - » Create a game under different time constraints
 - Within the class
 - Within 12 hours.
 - Within 20 hours
 - 1 week, 2-3 weeks (final project)

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How to get an A? B? C?... F?

- Theory 40%
 - » 2 Exams (10% each) + Final 15% + { Homework, quizzes } 05% = 40%
- Practice 50%
 - » Projects – planning/design
 - » Hackathons –think on your feet (90% if complete it in 10 hours – before midnight)
 - Should raise your grade
 - A+ if you do complete it in class.
- Participation 05%
 - » 100% attendance will **raise** your final grade by **2%**
 - » **Constructive** participation on class list may raise your grade by **½ %**
- Demos: you need 'volunteer' for at least one show and tell.



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How to get an A? B? C?... F?

- See syllabus web page ...
- percentage break down



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Policy on Collaboration

- Assignments/projects/summaries:
 - » Purpose: familiarization of concepts and details of game programming
 - » Work on project independently (people or things)
 - No direct sharing of code
 - No line-by-line assistant
 - No exchange of code snippets
 - » You are encouraged to ask questions of one another, and to respond to other student's questions (and especially on the email list)
- Exams:
 - » (Laptops ARE required – UGA rentals will **not** work)
 - » **No make-up tests** unless absence is due to **serious** illness. Doctor's diagnostic note is required. The final grade will be scaled accordingly.

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Tentative/past projects for class

- Projects using different gaming engines
- HTML5, JavaScript, PyGame, and Unity.
- Class Presentations: Social Media Games: Facebook Game / Case Studies. (Social Media)
- (see cover page of class)

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Games

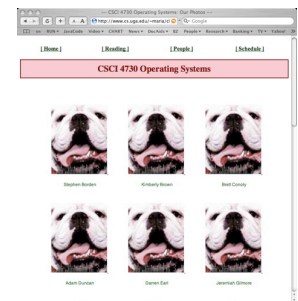
- <http://cobweb.cs.uga.edu/~wah/games/Mario/index.html>
- <http://cobweb.cs.uga.edu/~ja/P2/index.html>
- <http://cobweb.cs.uga.edu/~burghaus/SaveBaseball/>
- Locates of Doge: <http://recursiveoasteroven.elementfx.com/platform/>
- WASD: <http://localhost/~ingrid/WASD/>
- [https://apps.facebook.com/cookie_crumble_game/? \(directed study\)](https://apps.facebook.com/cookie_crumble_game/? (directed study))
- StarCraft: <http://hollums.github.io/games/SCBELdeploy/index.html>
- Pacman: <http://hollums.github.io/games/Pac-Man/pacman.html>
- file:///Users/ingrid/Downloads/impactJSProject/lady_killer/index.html

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Homework 1

- See schedule for details...
- Digital Image -- How to get out of the dog pound (and improve your grade).



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