























GSI: Nicholas Kong

Ph.D. Student in EECS Started Aug. 2008

Work in HCI, InfoVis Collaborative visual analytics Perception/cognition of displays





















Who Builds Interfaces?

Ideally a team of specialists

- graphic designers
- interaction / interface designers
- technical writers
- marketers
- test engineers
- software engineers
- customers

Some engineers become very good at user-centered design, but its not for all engineers.



Building Successful Interfaces

- Task analysis & contextual inquiry
- Rapid prototyping
- Evaluation
- Iteration

Task Analysis & Contextual Inquiry

<text>













Teams

Each of you will individually propose an interface idea

- Fixing something you don't like or a new idea
- Novelty and creativity will be considered

Groups

- 4 or 5 students to a team
- Work with students with different skills/interests

Cumulative

- Apply several HCI methods to a single interface













Problem Solving: Labeling Images The ESP Game The act of playing a fun 2:05 0090 The ESP Game game solves difficult Taboo Words Guesses problems USO BANNER PEOPLE ESP Game: play game to WHITE label images BLACK Pass Type your next guess: Luis Von Ahn at CMU Yourpartser has Flag http://www.gwap.com/





Suggested Platforms

Adobe Flash

- We have free licenses for the semester!
- Runs on almost any platform (Flash Lite for phones)
- Good for prototyping as well as developing.
- Good outcomes in earlier offerings of CS160.

XNA: Microsoft's game platform for PC and Xbox.

- Free dev tools for Vis Studio 2005 (XNA Game Studio 2.0).
- Good hardware support: PC and Xbox game consoles, Wii remotes



Course Mechanics

TAs, Office Hours, Sections

Teaching Assistant

- Nicholas Kong: EECS grad student

Office Hours

- Maneesh: T I-3pm in 635 Soda Hall
- Jeff: MW 11-12noon in 6th floor alcove Soda Hall
- Nick: F 1:30-3:30pm in 283E Soda Hall
- Also by appointment

Sections

- W I-2pm 320 Soda, W 2-3pm 320 Soda, Th I-2pm 320 Soda
- You must attend to get full credit for design assignments
- No section this week

Reaching Us

Email: cs160@imail.eecs.berkeley.edu

- Mail sent here will get the fastest response
- Please avoid mailing us directly



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Design Assignments

Design Assignments

Weekly individual assignments

- Focus on sketching and initial interface designs
- Stretch your visual communication and design abilities
 Logistics
 - Sketches should be uploaded to wiki before M class
 - Assignments discussed in section
 - Submit hardcopy of sketches at the end of section

Grading (10 points)

- 6 pts for completing the assignment
- 4 pts for quality of work
- Participation in section graded separately

Design Assignment #I

Play & Analyze a Game (due before class M Jan 26): 10 pts

- Choose a game
 - Any medium (video game, card game, board game)
 - Pick carefully

– Play it!

- Get your friends together if necessary
- Analyze the game's "user interface"
 - Identify at least 3 positive aspects and 1 negative aspect
- Produce 5 sketches:
 - I sketch describing the game and how it is played
 - 3 sketches describing positive aspects of the game interface
 - I sketch describing a negative aspect of the game interface



Readings

Readings are very important to the class

- Make sure you do the reading before class
- Midterm will include things only covered in readings

Most readings will be posted on wiki

- Some require username/password: cs160/cs160Readings

Online reading discussions (ongoing assignment)

- Must post one substantial comment per lecture
- We will **not** accept late comment
- Will be the major factor in you class participation grade



Schedule of Assignments

- Create Wiki Account (Design) (1/26)
- Course Petition (Design) (1/26)
- Play and Analyze a Game (Design) (1/26)
- Individual Project Proposal (Project) (2/2)
- Design Assignment I (Design) (2/9)
 Group Brainstorm (Project) (2/9)
- Design Assignment 2 (Design) (2/17)
- Contextual Inquiry and Task Analysis (Project) (2/18)
- Design Assignment 3 (Design) (2/23)
- Individual Coding Project (Design) (individual) (3/2)
- Design Assignment 4 (Design) (3/9)
- Low-Fidelity Prototype (Project) (3/11)
- Plan a User Study (Design) (3/16)
- Interactive Prototype (Project) (4/6)
 Toom Assessment (Project) (4/13)
- Team Assessment (Project) (4/13)
 Pilot Usability Study (Project) (4/20)
- Final Presentation and Report (Project) (5/4)
- Final Team Assessment (Project) (5/11)

Some weeks lighter than others (plan accordingly) Most assignments turned in through the wiki Mix of design and project assignments



Assessment

Goal of cs160 is to teach you to design and evaluate interfaces

- There is often more than one good design
- But, there are also lots and lots of poor designs
- Be critical of your own work (point out pros and cons)
- As in many design disciplines, grading will be qualitative

Specific assessment guidelines will be given in each assignment

Good **communication** expected in oral & written presentations

Groups self-assess participation

- Should monitor it throughout the project
- Meet with us as soon as problems emerge

