Computer Science 48
Computer Science Project

- Instructor: Chandra Krintz
  - Office hours (1-2pm MW HFH 2153)
- TAs: April Cai and Chandana Upadhyaya
  - Office/weekly meeting: CSIL, Section, Class...
- Website: http://www.cs.ucsb.edu/~cs48
  - Tabs at top of page + syllabus
  - All course details/schedule are here!
  - Announcements! Sign up for Piazza there.
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- Pre-requisite: CS 32
- Designed for CS majors
- Basic theme: programming “in the large”
  - Includes working within a group
  - Focus is on object-oriented analysis (OOA) and object-oriented design (OOD)
  - Practice to implement/test large(r) systems
Individual part and group part

- Overlapping parts 1 and 2 – not sequential
- Part 1 – learn about programming projects
  - Includes lectures, reading, exam
    - Development Processes
    - Requirements Analysis
    - Domain Analysis
    - System Design
    - Implementation and Testing
- Part 2 – participate in a programming project
  - Complete several assignments as part of a group ("team")
About the group projects

• **Group sizes:** mostly 5 people (rarely 4 people)
  – Note: groups finalized during the first discussion!

• **Project topic:** your choice, subject to approval

• **Expected complexity:**
  – 20-25 key concepts in the problem domain
    • Note: concepts are classes (and interfaces) in C++, Java, ...
  – Interesting relationships between the concepts
  – Lines of code will be monitored but *not* be "counted"
    • But anticipate at least 5,000 lines of well-written code
    • Progress points depend on on-going contribution
    – NOT waiting until the last minute...
Milestones (see Project tab)

- Weekly progress reports (oral and written via a web form) due 5pm Wednesdays
- Requirements analysis due 5pm Feb 2
- Draft project due 5pm Feb 23
- Midterm in class Feb 28
- Demos in class (last week of classes)
- Final project due 5pm Mar 1 (Monday of finals week)
Requirements and assessment

- You must monitor the course web pages: [http://www.cs.ucsb.edu/~cs48](http://www.cs.ucsb.edu/~cs48)
- **Group project assignment scores** – 50% of grade
  - Scores apply equally to all members of a given group
- **Group project teamwork credit** – 25% of grade
  - Based on recommendations of other team members
- **Exam** – 25% of grade
  - No “final exam” – just a late-quarter midterm
  - Course lecture topics & *assigned readings*!
- **Questions?**
To Do – first week

- Attend mandatory 1st & 2nd discussion sections
  - Note: probably just group/TA meetings instead of discussion sections in future weeks
- Get required textbook, and start reading
  - See Lectures page for reading assignments
  - In general, read ahead of the lectures
- Sign up for Piazza
- Form group & schedule weekly TA meeting
Today: Find Group Members
Checkout/think about available devices
Introduce yourself to the TAs
April Cai and Chandana Upadhyaya

Friday Discussion (Mandatory):
Github Basics + Group Finalization

Next Friday (Mandatory): Github Exercise
Schedule weekly meeting with TA