Objectives

- Speaker recap
- Final Project Prep

Something is technically wrong.

Thanks for noticing—we're going to fix it up and have things back to normal soon.

Student's Interview

- "You should emphasize showing us good quality thinking over a large range of skills -- i.e. a few well written classes with great test coverage would be more compelling than multiple clients written in multiple programming languages with poor abstractions."

Speaker Follow Up: Sam O'Dell

- Technical writing
- Documentation

Speaker Follow Up

- Google docs
- Internal vs external
- JUnit testing
- Google cloud
- Developer Programs Engineer

Final Project: Tool Exploration and Presentation

- Logistics: teams of three
- Explore a ('hefty') tool
  - Why the tool?
  - Features
  - Complementary tools
  - Alternative tools
- 25-minute presentation of the tool
  - Includes a demo

http://www.cs.wlu.edu/~sprenkle/cs397/project.php

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Tool Options

- **Firebase** – tools for mobile apps, specifically analytics
- **Flask** – Python micro framework for web applications
- **GraphQL** – query language for APIs
- **Hubot** – automate company chats
- **JMeter** – performance testing tool
- **Mocha** – JavaScript testing framework
- **React** – JavaScript library for making user interfaces

Email me with your top 3 choices (in order)
so that I can put you into teams.

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Deliverable: Preliminary Tool Exploration

- Explore tool
  - Find relevant documentation, tutorials, blog posts, etc.
- Organize team
  - Division of labor
    - A lot of overlap in tasks
  - How collaborate?
  - Team deadlines
- Let me know what you need installed on carl.cs.wlu.edu

Deadline: Wed, March 29

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Deliverable: Presentation

- Move past the buzzwords: what is it really?
- Motivation, Problem tool solves
- How does it work?
- What you need to do to get started?
  - Dependencies
- Demo
- What are the opportunities?
  - What does the tool work with?
    - (some of the tools can work together)
  - How can you extend it?
- What are the competitors/alternatives?
  - How do they compare?
- Strengths and limitations of tool

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Deliverable: Wiki Page

- Wiki page about the tool for other students
  - Summary of the presentation topics
  - Best tutorials, sites about tool

Deliverable: Analyses

- Evaluation of Tool
  - Summary of tool
  - Quantitative analysis
  - Qualitative analysis
    - Tradeoffs in adopting the tool
- Team assessment
  - Organization, Collaboration
- Individual reflection

Project Timeline

Objective	Deadline	% of Final Project
Tool preferences (individual)	March 22, 11:15 a.m.	2%
Preliminary Exploration	March 29	4%
Presentation	Last week of classes	49%
Wiki page	Wed of finals week	20%
Analyses (individual) • Tool • Team • Individual reflection	End of Finals Period	25%

Recalibrating Course Grading: Original

- (47%) Individual programming and homework assignments, including but not limited to:
  - Unix tools practice
  - Bash scripts
  - Analyzing and comparing a variety of tools
  - Reading/discussion assignments
- (15%) Quizzes
- (30%) Tool Demonstrations
- (8%) Professionalism: participation and attendance, especially during others' demos

3/20/17

Recalibrating Course Grading: Proposed

- (47%→ 62%) Individual programming and homework assignments, including but not limited to:
  - Unix tools practice
  - Bash scripts
  - Analyzing and comparing a variety of tools
  - Reading/discussion assignments
- (15% → 0%) Quizzes
- (30%) Tool Demonstrations
- (8%) Professionalism: participation and attendance, especially during others' demos

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Recalibrating Course Grading: Decision

- (47%→ 55%) Individual programming and homework assignments, including but not limited to:
  - Unix tools practice
  - Bash scripts
  - Analyzing and comparing a variety of tools
  - Reading/discussion assignments
- (15% → 0%) Quizzes
- (30%) Tool Demonstrations
- (8% → 15%) Professionalism: participation and attendance, especially during others' demos

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Looking Ahead

- Wed: Data

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