LAST TIME ON IO LAB

Project I
Memex
TODAY

PROJECT 2

&

SOFTWARE ENGINEERING
SAMPLE OF HWI NAMES

• A1 - Peter Nguyen
• A1_Eungchan Kim
• Assignment 1
• assignment 1 RuiDai
• i290_assignment 1
• nkhalawi_hw 1
• submit_lab 1
• syh_info290ta_a 1
• sonali_sharma_Website
METACRAP
Cory Doctorow

• People lie

• People are lazy

• People are stupid

• Mission: Impossible -- know thyself

• Schemas aren’t neutral

• Metrics influence results

• There’s more than one way to describe something
PROJECT 2
Controlled Vocabularies
Software engineering (SE) is the application of a systematic, disciplined, quantifiable approach to the design, development, operation, and maintenance of software, and the study of these approaches; that is, the application of engineering to software.

WRITING GOOD CODE
WHAT IS GOOD CODE?

The only valid measurement of code quality: WTFs/minute

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FORMATTING YOUR CODE

• Indentation
  • tabs vs. spaces / 2 vs. 4 spaces

• Naming Conventions
  • Capitalization, CamelCase

• Bottom Line: agree on a style & be consistent
DOCUMENTING YOUR CODE
You don’t need comments if you have good code right?

Vocabulary Problem

What was I doing?
Though a pain to write, comments are absolutely vital to keeping our code readable. The following rules describe what you should comment and where. But remember: while comments are very important, the best code is self-documenting. Giving sensible names to types and variables is much better than using obscure names that you must then explain through comments.

When writing your comments, **write for your audience**: the next contributor who will need to understand your code. Be generous — the next one may be you!

source: [http://google-styleguide.googlecode.com/svn/trunk/cppguide.xml#Comments](http://google-styleguide.googlecode.com/svn/trunk/cppguide.xml#Comments)
• Preference is to be verbose, but...

  // This is a user’s first name
  var firstName = $("#firstname").val();
COMMENTS

• Descriptive block

// Grab user data
var firstName = $("#firstname").val();
var lastName = $("#lastname").val();
var studentId = $("#studentId").val();

• Use your best judgement
GIT CHECK-IN
CODE REVIEW TIME!
FOR NEXT TIME

Working with API’s (JSON-P, Callbacks)

Have your project groups and ideas by next week!

You can find links to help with all of these on the course website at http://courses.ischool.berkeley.edu/290ta-iol/f12