

INFORMATION ORGANIZATION LAB

LAST TIME ON IO LAB

Project I Memex

TODAY

PROJECT 2
&
SOFTWARE ENGINEERING

SAMPLE OF HWI NAMES

- AI - Peter Nguyen
- AI_Eungchan Kim
- Assignment I
- assignment I RuiDai
- i290_assignment I
- nkhalawi_hw I
- submit_lab I
- syh_info290ta_a I
- 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

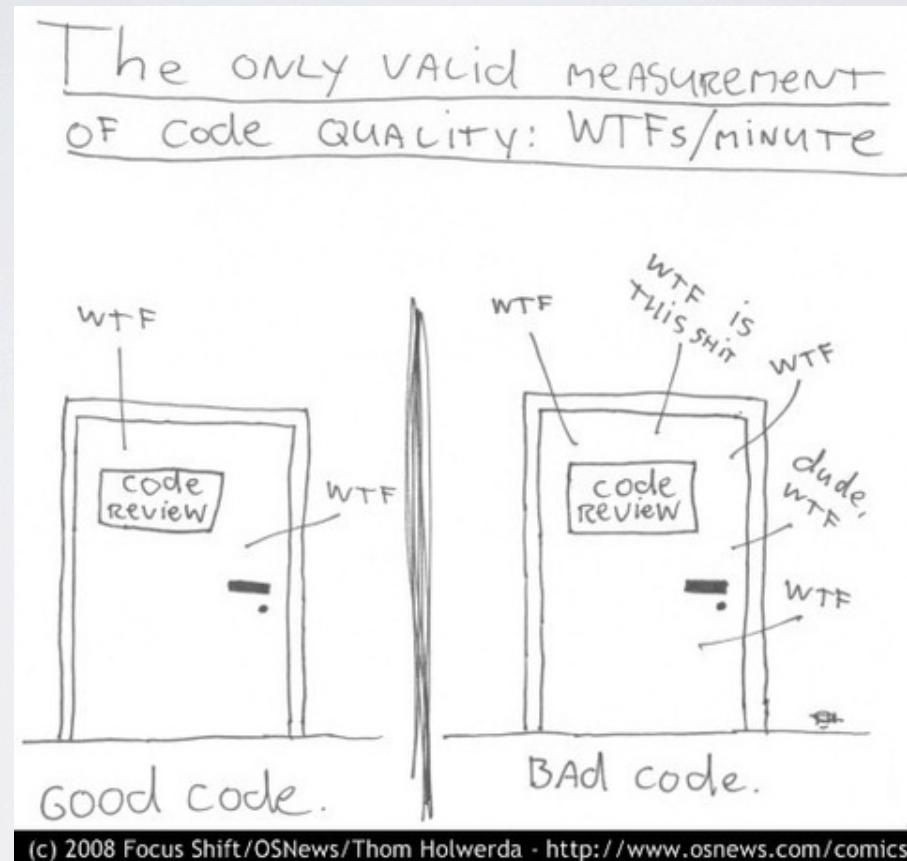
SOFTWARE ENGINEERING

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.

source: http://en.wikipedia.org/wiki/Software_engineering

WRITING GOOD CODE

WHAT IS GOOD CODE?



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

COMMENTS

- You don't need comments if you have good code right?
 - Vocabulary Problem
 - What was I doing?

COMMENTS

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>

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>