LAST WEEK ON IO LAB

Project 2 demonstrations on controlled vocabularies.

Microformats like RelLicense and hCard.

Introduction to Google App Engine.

INFORMATION ORGANIZATION LAB
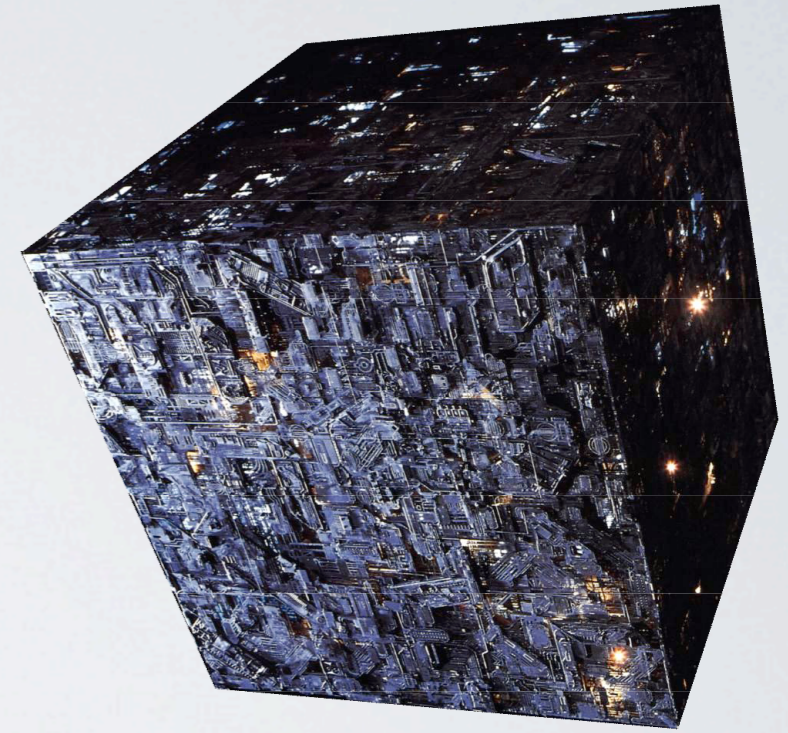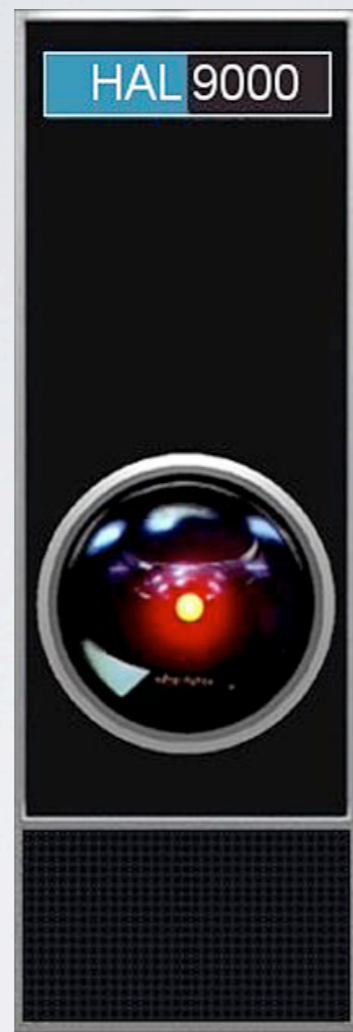
RESOURCES
Now with 50% more columns

The resources section of the course website (at http://courses.ischool.berkeley.edu/i290-4/f09/resources.php) has been reorganized.

TRAC
Subversion Browser & Issue Tracking

http://bit.ly/iolabtrac

Trac interfaces with a Subversion repository and lets you view a timeline of changes and what changed between certain revisions. It also lets you manage tickets to keep track of changes that need to be made.
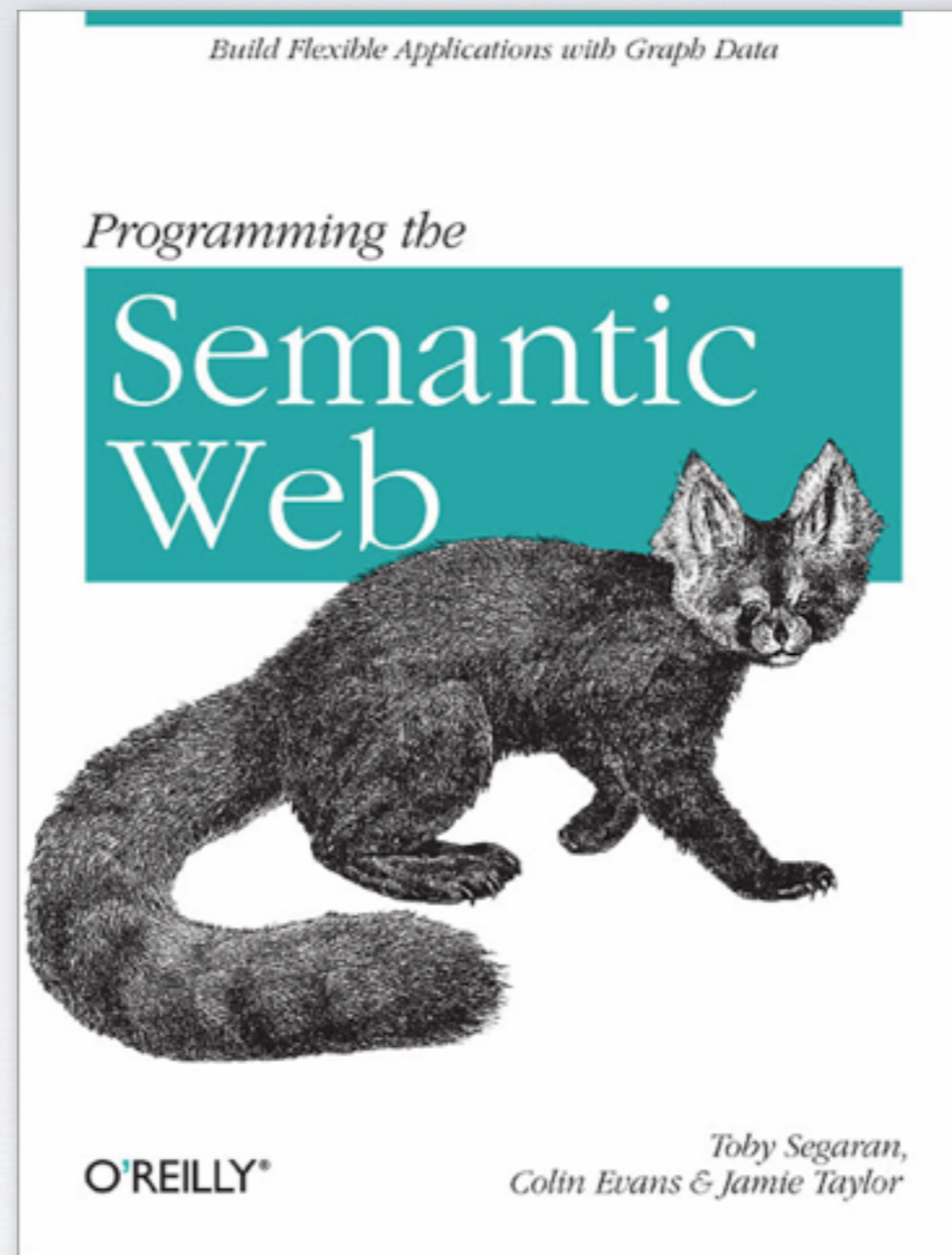
THE SEMANTIC WEB
Information made for machines

The semantic web means a bunch of different things to a different people. Remember reading three articles in 202 from the meta-utopia of an agent browsing the web on your behalf, to ever-so-slightly smarter applications of semantic information.

Build Flexible Applications with Graph Data

Programming the

Semantic Web

O'REILLY®

Toby Segaran,
Colin Evans & Jamie Taylor

http://microformats.org

Semantic Web, Part 1: Microformats. Small bits of semantic information. Agreed upon standards for adding machine readable data to HTML pages. One of the philosophies behind MF: machine data that nobody sees doesn't get properly maintained. We should apply machine identifiers to existing visible data.

HCARD

```html
<div class="vcard">
    <a class="url fn" href="http://ryangreenberg.com">
        Ryan Greenberg</a>
    <a class="email" href="mailto:ryan@ischool.berkeley.edu">
        ryan@ischool.berkeley.edu</a>
    <div class="adr">
        <div class="street-address">2020 Oregon St</div>
        <span class="locality">Berkeley</span>,
        <span class="region">CA</span>
        <span class="postal-code">94703</span>
    </div>
    <div class="tel">510-843-6929</div>
</div>
```

Why class="vCard"? It's an HTML implementation of the vCard standard.
We can easily extract information from hCards on websites by using the names for properties defined in the vCard (and hCard) standard. Examples: http://npdoty.name and http://en.wikipedia.org/wiki/Albert_Einstein. Also see Twitter follower/following pages.

WIKIPEDIA MICROFORMATS

+

http://en.wikipedia.org/wiki/Wikipedia:WikiProject_Microformats

Effort lead by Andy Mabbett to incorporate Microformats into Wikipedia templates. http://en.wikipedia.org/wiki/Wikipedia:WikiProject_Microformats

XFN
XHTML Friends Network

Nick
Caitlin
Beyoncé
Michael

```
<a rel="friend co-worker met" href="http://npdoty.name">Nick</a>
<a rel="sweetheart friend" href="http://caitlin.com">Caitlin</a>
<a rel="crush" href="http://www.beyonceonline.com">Beyoncé</a>
<a rel="archenemy" href="http://e.ntangled.net">Michael</a>
```

What does this remind you of? Nick talked about a different standard a couple weeks ago, and you read about it in Programming the Semantic Web.
Limitations: small vocabulary.
http://gmpg.org/xfn/11

XFN
XHTML Friends Network

rel="me"

RelMe: http://socialgraph-resources.googlecode.com/svn/trunk/samples/exploreapi.html
http://socialgraph-resources.googlecode.com/svn/trunk/samples/findyours.html

RDF & OWL

There are a couple of downsides to Microformats. First, a community has to agree on a standard, which can take time. And then many of these microformats are special cases that require special-case code.

The solution is more complex than microformats, and it's something that you may remember from recent (or not so recent) 202 classes: RDF, OWL, and triples.

TRIPLES
Subject-predicate-object

OVERVIEW OF PROJECT 3 IDEAS

http://courses.ischool.berkeley.edu/i290-4/f09/projects.php#assignment-3
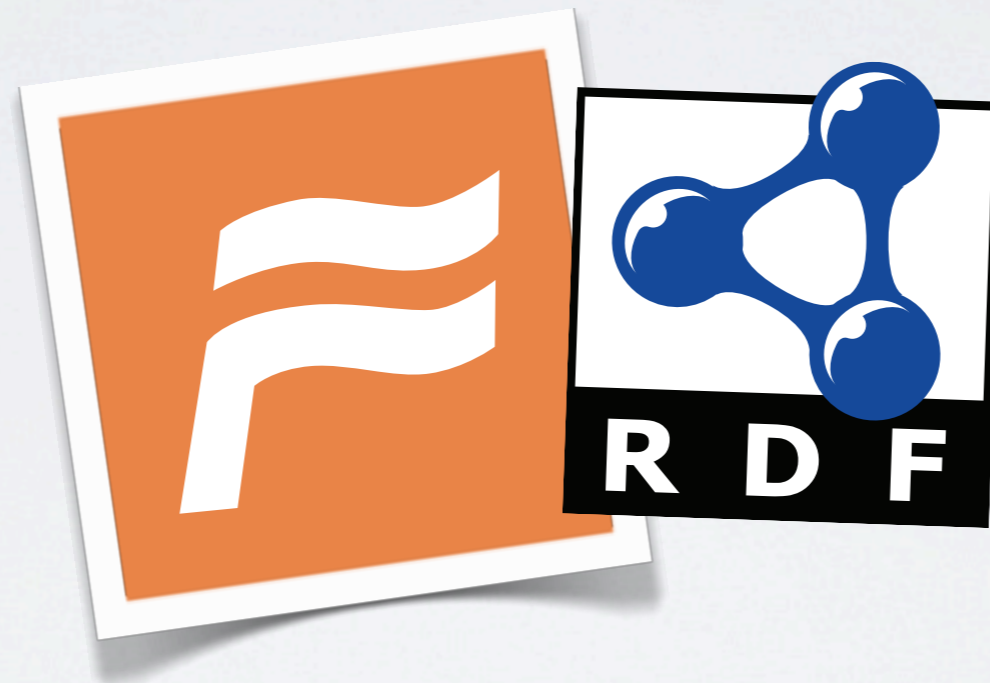
TRIPLE STORE + QUERIES

CREATE OR CONSUME

ISCHOOL + FOAF
ISCHOOL + MICROFORMATS

FREEBASE + RDF

When browsing Wikipedia, shows other things at the same location.
Write a Greasemonkey script so that, when browsing people, show interesting Freebase information about the people.

Anything interesting involving a microformat. Look at the Microformats Wiki for more information: http://microformats.org

FOR NEXT WEEK

Decide on an idea for **project 3**, coordinating with other groups if necessary.