LAST WEEK ON IO LAB

Project 1 presentations on Delicious Memex.

Install a Subversion client. Command line, TortoiseSVN on Windows, or Versions on OS X.

ASSIGNMENT I FEEDBACK
MODULAR CODE

1. Reuse code
2. Improve readability
REGULAR EXPRESSIONS

trail:from_memex_to_the_web step:13

if (tag.slice(0, 5) == "trail:"),
  var trailName = tag.slice(6)

if (tag.indexOf("step:")) === 0
  var tagStep = tag.split(":")
  var stepNum = tagStep[1]

if (tag.match(/\^trail:(.+)$/))
  var trailName = tag.match(/\^trail:(.+)$/)[1]

if (tag.match(/\^step:(\d+)$/))
  var stepNum = tag.match(/\^step:(\d+)$/)[1];
REGULAR EXPRESSIONS

trail:from_memex_to_the_web step:13

var trailPattern = /^trail:(.+)$/
var stepPattern = /^step:(\d+)$/

if (tag.match(trailPattern))
    var trailName = tag.match(trailPattern)[1]

if (tag.match(stepPattern))
    var stepNum = tag.match(stepPattern)[1]
REGULAR EXPRESSIONS

trail:from_memex_to_the_web step:13

```javascript
var trailPattern = /^trail:(.+)$/
var stepPattern = /^step:(\d+)$/

if (tag.match(trailPattern))
    var matches = tag.match(trailPattern)
    var trailName = matches[1]

if (tag.match(stepPattern))
    var matches = tag.match(stepPattern)
    var stepNum = matches[1]
```
NAMING CONVENTIONS

Underscores, camels, and dashes in variable names

**CSS**

```html
<div class="blog-entry">
<ul id="flickr-photos">
```

**JavaScript**

```javascript
var blogEntry = $('.blog-entry');
var flickrPhotos = $('#flickr-photos');
```

**Other Languages**

```plaintext
blog_entry
flickr_photos
```
JavaScript Conventions

Prefer literals to objects.

```javascript
var s = new String();
var a = new Array();
var o = new Object();
var re = new RegExp();

var s = "";
var a = [];
var o = {};
var re = /…/;
```

JavaScript: The Good Parts. “3.1 Object Literals”, “6.1 Array Literals”, “B.10 Typed Wrappers”
http://proquest.safaribooksonline.com/9780596517748/object_literals
http://proquest.safaribooksonline.com/9780596517748/array_literals
http://proquest.safaribooksonline.com/9780596517748/typed_wrappers
VERSION CONTROL

Time Machine

Google Docs
VERSION CONTROL

CENTRALIZED VERSION CONTROL

CVS

DISTRIBUTED VERSION CONTROL

+++ git

Mercurial

Bazaar

Subversion
TYPICAL FIRST USAGE

Check Out

Change

Commit

WORKING COPY
TYPICAL FIRST USAGE

REPOSITORY

Check Out

Change

Commit

WORKING COPY
CONTINUED USAGE

REPOSITORY

Update
Make Changes
Update
Commit

Ultrices lacus tincidunt nulla. Accumsan augue cursus praesent ultricies. Duis morbi vitae elementum elit sed quis tortu...
• **repository** The central place where versioned files are stored.

• **working copy** A copy of the repository where changes are made.

• **revision** A set of changes to the repository, or all the files in the repository at a point in time.

• **changes** Modifying file content, adding files, renaming files, deleting files.
VERSION CONTROL VERBS

• **checkout** Create a working copy from a repository.

• **update** Move any changes in the repository to the working copy.

• **commit** Move changes in the working copy to the repository.

• **add, remove, rename** Schedule a file in the working copy to be added, removed, or renamed to the repository.

• **revert** Undo all the changes in the working copy and replace with the file in the repository.
SUBVERSION TIPS

• Always update before you commit.

• You must use the **svn add** command to add files in your working copy to the repository.

• You have to use **svn remove** and **svn rename** on files.

• Write something meaningful for your commit message.

• Commit often, but remember that commit is not save.
SUBVERSION CLIENTS

ALL PLATFORMS
Command Line

MacOS X
Versions
svn

WINDOWS
TortoiseSVN

ALL TOGETHER NOW

Command line

svn checkout https://svn.ischool.berkeley.edu/iolab10/

Versions

1. Click “New Repository Bookmark”
2. Enter URL, I School username and password.
3. Select repository in sidebar and go to Action > Checkout to create a working copy.

TortoiseSVN
Vocabulary control is the **sine qua non** of information organization.
scheme://user:pass@domain:port/path#fragment

http://www.example.com
ftp://warez4eva.org
http://courses.ischool.berkeley.edu/i290-iol/f10/
http://www.w3.org/1999/xhtml/

URI, URL, URN
Uniform Resource ________

VS.


<link rel="canonical"/>
http://ischool.berkeley.edu

VS.

![bit.ly logo](image)
![trim logo](image)
![TinyURL.com logo](image)
http://ischool.berkeley.edu

VS.

<link rev="canonical"/>
Metadata data model

Subject-predicate-object triples

URIs for everything!
<foaf:Person rdf:nodeID="me">
  <foaf:title>Dr.</foaf:title>
  <foaf:givenName>Erik</foaf:givenName>
  <foaf:family_name>Wilde</foaf:family_name>
  <foaf:nick>dret</foaf:nick>
  <foaf:homepage rdf:resource="http://dret.net/netdret/"></foaf:homepage>
  <foaf:weblog>http://dret.typepad.com/</foaf:weblog>
  <foaf:phone rdf:resource="tel:+1-510-6432253"/>
  <foaf:workplaceHomepage rdf:resource="http://ischool.berkeley.edu/"/>
  <foaf:knows rdf:nodeID="friend1"/>
  <foaf:knows rdf:nodeID="friend2"/>
  <foaf:holdsAccount rdf:resource="http://del.icio.us/dret"/>
</foaf:Person>

<foaf:Person rdf:nodeID="friend1">
  <foaf:name>seung-hyun rhee</foaf:name>
</foaf:Person>

**FOAF: FRIEND OF A FRIEND**

RDF in the wild
FREEBASE: HARRISON FORD

RDF in the wild
Awesome Ninja Skills

I has dem

JQUERY AUTOCOMPLETE
GRADING
FOR NEXT WEEK

Thursday Lab. SVN, lingering questions, project team meetings.

No class next week!
FOR NEXT WEEK

Thursday Lab
SVN lingering questions project team meetings

No class next week.