LAST WEEK ON IO LAB

We’ll start by going over any questions you had about these.

- Write your first Greasemonkey script.
- Complete the CSS self-test.

You can find links to help with all of these on the course website at http://courses.ischool.berkeley.edu/i290-4/f09/
AJAX AND CROSS-SITE SCRIPTING
Web 2.0 FTW
A bit of history:
HTML in ~1993: basic server client diagram; HTTP requests, GET & POST
DHTML in late 90s and early 2000s: Javascript, modifying the DOM, no refreshes (kind of)
AJAX coined in 2005: Google Suggest, Google Maps (‘05), GMail (‘04)
AJAX WHAT?

Asynchronous Javascript and XMLHttpRequest

AJAX
- Asynchronous (more responsive)
- Javascript (folds in much of DHTML into its aura)
- XMLHttpRequest (as you can see from the name, this is where we get multiple server calls)
XSS
(Cross-site scripting)
XSS: uses an X instead of a C because it's scary! (Also so it doesn’t conflict with CSS—cascading style sheets). XSS means a lot of different script injection attacks.

More generally, we will be using cross-site scripting to refer to the ability to talk to more than one site, which is useful for mashups. This isn't allowed in any browser and here's why: Same-origin policy (also have this for Flash and Java).

2 ways to get around it: (1) Use a server proxy or (2) Run as part of the browser (like Greasemonkey).
Demonstration of Delicious Tag Bar Greasemonkey script.
These are some options for project 1, which is centered around the trail:trail_name step:step_number syntax outlined in lecture 1. Complete options are described at http://courses.ischool.berkeley.edu/i290-4/f09/projects.php
PROJECT I
Due September 22
PROJECT 1
Due September 22
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You can supply a different project option around the theme of ordered trails.
PROJECT REQUIREMENTS

Email npdoty@ischool, ryan@ischool.

1. Location to view your project
2. A description of your project, including implementation and challenges.
3. Due Tuesday, 9/22 by 12:00pm (noon).

Due date is next Tuesday. Turn in project by emailing npdoty@ischool and ryan@ischool. We’ll be demoing project one and discussing next week in class. Extended office hours Friday and Monday.
IN-CLASS EXERCISE
Make something work in 45 minutes
IN-CLASS EXERCISE

• Brainstorm what you want your interface to do and make a drawing. (10 minutes)

• Download the template for your project from the IO Lab Resources page.

• Implement the interface that you drew. (30-40 minutes)
LESSONS FOR PROJECT I

• Make a drawing or sketch of what you want to do.

• When you are writing the JavaScript code, first write comments in plain English describing what you want to do.

• If it doesn’t work, ask questions.
FOR NEXT WEEK

Project 1 is due. Email us with the location of your completed work and a 1 paragraph write-up

Due by 12:00pm (noon) Tuesday, Sept. 22
Be ready to demo and discuss in class.

Install RapidSVN.

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