

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/>

The word "AJAX" is rendered in a large, bold, orange, sans-serif font. The letters are slightly slanted to the right, giving it a dynamic feel. The 'A' has a curved bottom, and the 'X' has a sharp, angular design.

AJAX AND CROSS-SITE SCRIPTING

Web 2.0 FTW



HTML

DHTML

AJAX

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).

LET'S TRY IT!

Demonstration of Delicious Tag Bar Greasemonkey script.

AFRICA AMERICAS ASIA PACIFIC EUROPE MIDDLE EAST



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Adriana Zehbrauskas for The New York Times



Rent Movies From Netflix



FREE TRIAL

New Trail

Existing Trail

PROJECT 1

Due September 22

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>

delicious Home Bookmarks People Tags

Ryan Greenberg's Bookmarks
 Bookmarks | Network | Tags | Subscriptions | Inbox
 Site: http://www.ryangreenberg.com
 See more bookmarks in Popular, Recent, or look up a URL.

ryangreenberg Type a tag Bookmarks 767
 Sorted by Most Recent

25 APR 09 **iButton - Contact Memory, Digital Temperature Data Loggers** 72
 16mm tokens that can serve as access control items, temperature loggers, and other nifty stuff.
 EDIT | DELETE hardware sensor

25 APR 09 **Troys Twitter Script for Greasemonkey** 105
 Cool Twitter Greasemonkey script.
 SHARE | EDIT | DELETE lolaboratory greasemonkey twitter

Transparency is Bunk 33
 Aaron Swartz: "For too long we've been funding transparency projects that we've built it. And they haven't come."
 EDIT | DELETE arency eGovernment sunlight

24 APR 09 **Dive Into Greasemonkey** 4394
 I'm diving...
 EDIT | DELETE books programming javascript firefox greasemonkey lolaboratory for rpdoty

22 APR 09 **XFN - The XHTML Friends Network - Microformats Wiki** 37
 I stand corrected on my thought that rel="friend", etc. are not part of XFN.
 SHARE | EDIT | DELETE lolaboratory for rpdoty

Sinatra 57
 Rapid application development in Rails.
 EDIT | DELETE framework programming rapidprototyping ruby

Create a GUID 56
 Get your globally unique identifier while you can--there's only 3×10^{34} available!
 EDIT | DELETE programming ontology identifier for rpdoty

Open Font Library 825
 "The Open Font Library hosts the cream of non-proprietary typeface designs."
 EDIT | DELETE fonts typefaces design webdesign

21 APR 09 **Dan Meth: Trilogy Meter** 19
 I was working on an infographic like this one posted by Dan Meth.

Search these bookmarks Search

Save a new bookmark
 Edit public profile
 Bulk edit
 Tag options

Tags

Top 10 Tags

design	103
software	91
programming	87
mac	75
article	57
webdesign	50
javascript	48
development	41
tech	36
photography	34

Tag Bundles 5

All Tags 735

202research	2
abandonware	1
accent	1
accessibility	2
activism	1
addresses	1
adobe	2
ads	3
advertising	4
advice	10
age	1
agency	1
aggregator	2
ai	4
airfare	3
airline	2
airplane	1
ajax	2
Alabama	1
albums	1
alignment	2

PROJECT I

Due September 22

delicious Save Bookmark Logged in as: ryangreenberg

URL Required

TITLE Required

NOTES

TAGS 1000 characters left

TRAIL

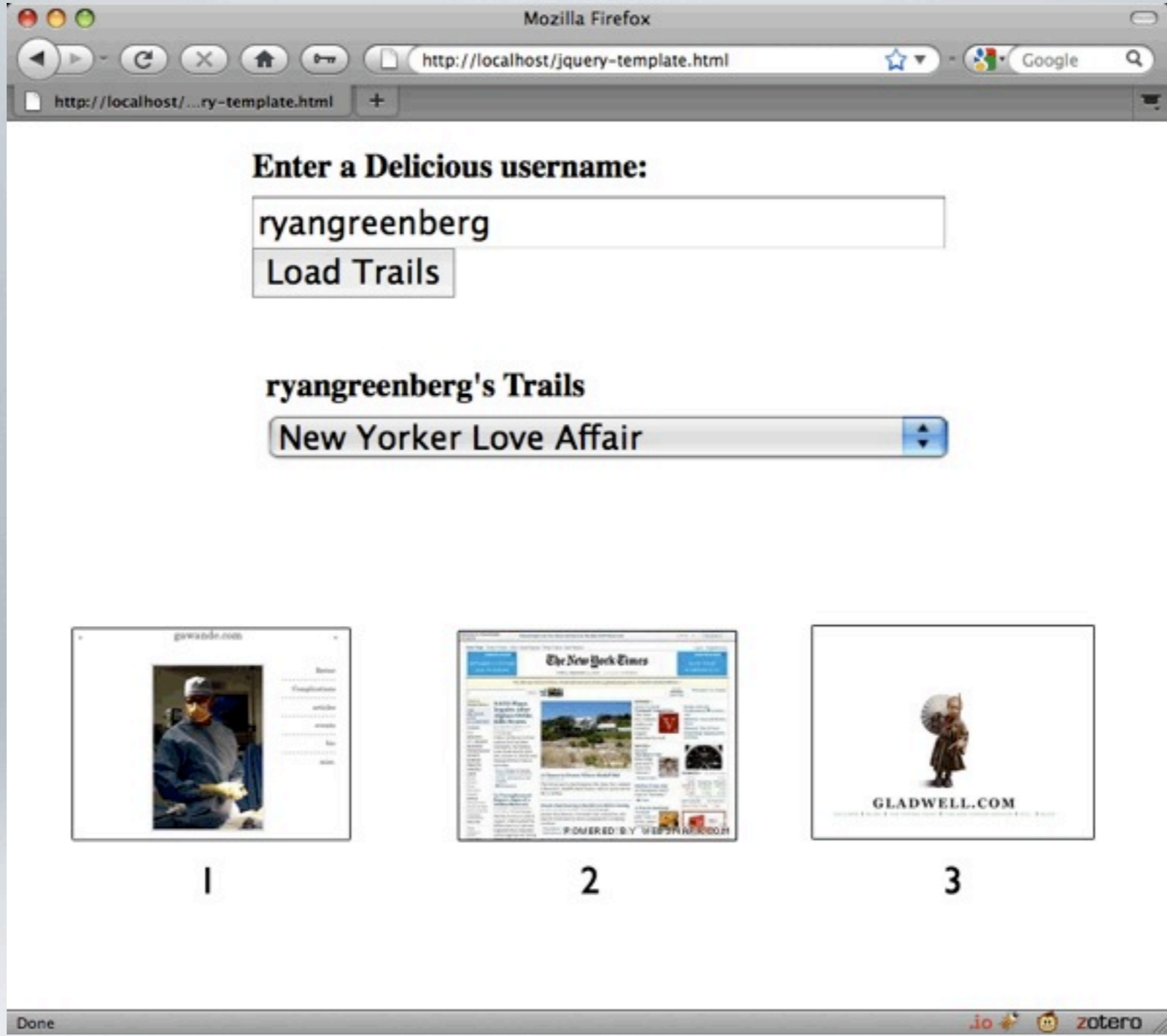
Do Not Share

Tags Sort: Alpha | Frequency

- ▼ Tag Bundles
 - ▼ adjectives
 - funny cool interesting free
 - ▼ design
 - design photography fonts typography photoshop color art
 - typefaces typeface
 - ▼ learning
 - tips tutorial advice howto tutorials
 - ▼ reading
 - article blog nytimes books history essay book essays
 - ▼ tech

PROJECT I

Due September 22



PROJECT I

Due September 22



PROJECT I

Due September 22

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

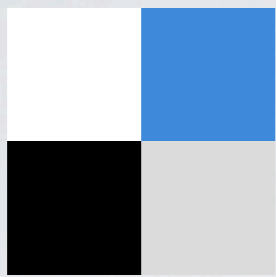
IN-CLASS EXERCISE

- 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.

You can find links to help with all of these on the course website at <http://courses.ischool.berkeley.edu/i290-4/f09/>