



INFORMATION ORGANIZATION LAB

LAST TIME ON IOLAB



git

GIT GUI CLIENTS

- **MAC**

- GitX
- GitTower

- **PC**

- SmartGit
- TortoiseGit

TODAY

- **Project I Tips & More**
 - jQuery
 - Callbacks
 - AJAX
- **Web Standards/Practices & HTML5**
 - Semantic HTML & Accessibility
 - HTML5
- **Open Lab: Group Time / Proj I Q&A**

SOME TIPS FOR PROJECT I

- Make a drawing or sketch of what you want to do.
- Write the HTML first, then the JavaScript.
- 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!

JQUERY: GET AND SET

```
<a id="linkToCal" href="http://berkeley.edu">UC Berkeley</a>
```

```
$( 'a' ).text(); //get
```

```
$( 'a' ).text( 'Hello world' ); //set
```

```
$( 'a' ).attr( 'href' );
```

```
$( 'a' ).attr( 'href', 'http://google.com' );
```

Complete list at <http://api.jquery.com/category/attributes/>

JQUERY: FORMS

```
<input id="name" type="text" value="John">
```

```
$('#name').val();
```

```
$('#name').val('Mary');
```

```
$('#name').attr('value');
```

```
$('#name').attr('value', 'Mary');
```

Complete list at <http://api.jquery.com/category/forms/>
See the documentation for .val() in particular: <http://api.jquery.com/val/>

CALLBACKS AND TIMING

```
function mySandwich(param1, param2, callback) {
    alert('Started eating my sandwich.\n\nIt has: ' + param1 +
', ' + param2);

    $('#sandwich').animate({
        opacity: 0
    }, 5000, function() {
        // Animation complete.
    });

    if (callback && typeof(callback) === "function") {
        callback();
    }
}

mySandwich('ham', 'cheese', function() {
    alert('Finished eating my sandwich.');
```

From: <http://www.impressivewebs.com/callback-functions-javascript/>
Example: <http://jsbin.com/abimob/141/edit>

The word 'AJAX' is rendered in a large, bold, red font with a 3D effect, appearing to be slightly tilted and floating above the main text.

AJAX AND CROSS-SITE SCRIPTING

Web 2.0 FTW

AJAX WHAT?

Asynchronous

Javascript

and

XmlHttpRequest (XHR)

AJAX WHAT?

Asynchronous

Javascript

and

Javascript

AJAX WHAT?

```
$.get('http://gmail.com', function(xml){  
    console.log(xml);  
});
```

Further reading: [http://en.wikipedia.org/wiki/Ajax_\(programming\)](http://en.wikipedia.org/wiki/Ajax_(programming))

XSS

(Cross-site scripting)



Further reading: http://en.wikipedia.org/wiki/Cross-site_scripting

SAME-ORIGIN POLICY

(Alas, no cross-site scripting!)



AJAX

Further reading: http://en.wikipedia.org/wiki/Same_origin_policy

WORKAROUNDS

(Cross-site scripting, yay!)

- Proxy server
 - JSONP

WEB STANDARDS

Semantic HTML & Web Accessibility

SEMANTIC HTML

Meaning, not Presentation

```
<div id='sidebar'>
```

```
<div id='left'>
```

```
<p class='caution'>
```

```
<p class='yellow'>
```

```
<h1>, <h2>, <h3>, etc.
```

```
<span class='bigFont'>
```

SEMANTIC HTML

Meaning, not Presentation

```
<div id='sidebar'>
```

```
<div id='left'>
```

```
<p class='caution'>
```

```
<p class='yellow'>
```

```
<h1>, <h2>, <h3>, etc.
```

```
<span class='bigFont'>
```

HTML



NEW TAGS & FEATURES

- header, footer
- menu, nav
- section, article
- figure
- new input types
- placeholder text
- localStorage
- GeoLocation API
- web video
- web audio
- 3D, graphics, effects
- web sockets

BROWSER SUPPORT

So when can we use all this cool stuff?

Now! (mostly.)

Good places to check:

- <http://caniuse.com/>
- <http://html5readiness.com/>

OPEN LAB

Project | Group Time / Open Q&A

FOR NEXT TIME

HTML5 & CSS3 feature demos & exercises

Homework 1 feedback out today via email

Course Feedback Survey

You can find links to help with all of these on the course website at
<http://courses.ischool.berkeley.edu/290ta-iol/f12>