# Session 5: More Javascript/jQuery

IML 400

# Presentations

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# Workshop

Let's go over the assignment…

# Document Object Model (DOM)

- Javascript and jQuery (a library we'll be using) works by interacting with the DOM

- DOM – consists of every element on the page

  - Tree Structure

- You can host jQuery locally, or link to it:

```
<script src="http://ajax.googleapis.com/ajax/libs/jquery/2.1.1/jquery.min.js"></script>
```

# Why jQuery?

- JavaScript can be tricky; jQuery is fast for prototyping

- Easier to learn jQuery first

- More visual upfront

- Cross-browser with ease

```
$(document).ready(function()
{
    // jQuery Code Goes Here!
});
```

```
$(document).ready(function()
{
    $('TARGET').anAction
});
```

What can TARGET be?

- HTML Element: `$('div')` or `$('p')`

- Selector: `$('#mySelector')`

- Class: `$('.myClass')`

```
$(document).ready(function() {
    $('div').click(function(){
        alert("Hello World!");
    }
});
```

What can the action be?

- click

- mouseenter

- mouseleave

- fadeTo

- hide

- See Examples 1 & 2

Look at jQuery docs for more examples!

# jQuery UI

- Plugin

- Must be included in addition to jQuery

- You can host jQuery UI locally, or link to it:

```
<script src="http://ajax.googleapis.com/ajax/libs/jqueryui/1.11.1/jquery-ui.min.js"></script>
```

```
$(document).ready(function() {
  $(".content").draggable();
});
```

What's good about jQuery UI?

• Quick!

• Lots of Interaction design built in:

    • draggable()

    • sortable()

• See Example 3 & 4

# jQuery UI – Transitions

- Work by adding/removing CSS classes

  - addClass("CLASS_NAME", duration, callback);

  - removeClass("CLASS_NAME");

  - See Example 5

# jQuery UI – Tabs

- Make sure to link to the stylesheet:

```
<link rel="stylesheet" href="http://ajax.googleapis.com/ajax/libs/jqueryui/1.11.1/themes/smoothness/jquery-ui.css" />
```

- Then just call tabs()…

```
$(function() {
  $( "#tabs" ).tabs();
});
```

See example 6

# Some pointers

- You can load javascript at the bottom of the DOM

  - See Example 6

  - Order Matters

- See jQuery UI for more examples (this will help with homework)

  - http://jqueryui.com

# Implementing Plugins

- Tubular

- ToolTipster

# Other Javascript Libraries

- Processing.js

- Paper.js

- Three.js

# Assignments

http://usc.raphaelarar.com/assignments.html

# Next Week

Workshop: More jQuery Fun
Lecture: Design Thinking