

# jQuery in Drupal

Libraries, Modules, and Themes Oh My

# What's jQuery?

- “Javascript Query”
- Significantly reduces javascript code
- Circumvents browser incompatibilities
- Provides visual effects and wow factor

# jQuery vs. javascript

## Get Elements By Class Name

```
1. document.getElementsByClassName = function(className, parentElement) {
2.   if (Prototype.BrowserFeatures.XPath) {
3.     var q = ".//*[contains(concat(' ', @class, ' '), ' " + className + " ')]";
4.     return document._getElementsByXPath(q, parentElement);
5.   } else {
6.     var children = ($(parentElement) || document.body).getElementsByTagName('*');
7.     var elements = [], child;
8.     for (var i = 0, length = children.length; i < length; i++) {
9.       child = children[i];
10.      if (Element.hasClassName(child, className))
11.        elements.push(Element.extend(child));
12.    }
13.    return elements;
14.  }
15.};
```

# jQuery vs. javascript

## Get Elements By Class Name

1. `$(".classname");`

# jQuery Selectors

- CSS Selectors
  - `$('.title');` by class
  - `$('#main');` by ID
  - `$('.sidebar a, .content a');` child elements; multiple elements
  - `$('input[type=text]);` CSS 3 select by attribute
  - `$('img[src$=.png]);`
  - More at <http://docs.jquery.com/Selectors>

# jQuery Effects

- `$('#h1').hide();`
- `$('#h1').hide('slow');`
- `$('#h1').hide(3000);`
- `$('#h1').fadeOut('slow');`
- `$('#h1').slideUp('slow');`
- More at <http://docs.jquery.com/Effects>

# jQuery Events

- Trigger an action in response to the user
- Most common events:
  - `.click(functionName);`
  - `.change(functionName);`
  - `.toggle(function1, function2);`
  - `.hover(function1, function2);`

# jQuery Events

## Inline

```
$('#a').click(function() {  
    $(this).hide();  
    return false;  
});
```

VS

## Declared

```
$('#a').click(myAction);  
  
function myAction() {  
    $(this).hide();  
    return false;  
};
```

# Libraries and Modules

- Lots and lots of "wrapper" modules
- jCarousel
- Lightbox2/Thickbox/etc.
- jqModal
- Jwitter
- hoverIntent

# Wrapper-wrapper modules

- Plugins
- JQP (jQuery Plugins)
- jQ
- jQuery UI

# Adding JS in a Theme

- Open up theme .info file
- Add:  
`scripts[] = utilities.js`  
`scripts[] = myfunstuff.js`
- Clear Drupal caches at `admin/settings/performance`

# drupal\_add\_js()

- The proper way to add JS files
- Automatically done for you using .info file
- Modules and themes both use this
  - ensures proper cascading order
  - can be aggregated
  - easier to manipulate

# Add a JS file

```
drupal_add_js($data, $type);
```

- \$data is path to js file
- \$type, either 'module' (default) or 'theme'

```
$path = drupal_get_path('module', 'mymodule');  
drupal_add_js($path . '/myjs.js');
```

# Pass PHP Variables to JavaScript

```
drupal_add_js($data, 'setting');
```

- \$data is an array of settings
- \$type = 'setting'

# Pass PHP Variables to JavaScript

```
drupal_add_js($data, 'setting');
```

In your PHP code:

```
$slogan = variable_get('site_slogan', '');  
drupal_add_js(array('slogan' => $slogan), 'setting');
```

In your JavaScript:

```
alert(Drupal.settings.slogan);
```

# \$(document).ready()

- Execute JavaScript when the page has finished loading
- Prevents content hang-ups
- Degrade Gracefully

```
$(document).ready(function() {  
    // Put jQuery in here.  
    $('h1', context).hide();  
});
```

# Drupal Behaviors

- Works automatically on page load and called after AJAX/AHAAH events (context for newly loaded content)

```
Drupal.behaviors.myBehavior = function(context) {  
  // Put jQuery in here.  
  $('h1', context).hide();  
}
```

# Hands-on (Questions?)



flickr.com/photos/mahalie/2312434677/

[visualjquery.com](http://visualjquery.com)

[docs.jquery.com](http://docs.jquery.com)

The 12 year old in the front is teaching the 30 yr olds in the room how to use the programming tool created by the guy in the flannel.