jQuery

JavaScript Made Easy

jQuery in the Wild

- Bank of America
- Intuit
- Google
- NBC
- Slashdot
- Sourceforge
- Warner Bros. Records
- Newsweek

- Trac
- mozdev
- Drupal
- PEAR
- Zend Framework
- WordPress
- SPIP
- Symfony

jQuery Benefits

- From beginner to advanced

- At its core, a simple concept

- Unobtrusive from the ground up

- Small file size(s)

- Easy Plugin API

- Excellent documentation

- Thriving, Smart, Helpful Community

Find Something, Do Something

- $('tbody tr:nth-child(even)') .addClass('alt');

Unobtrusive

Behavior

jquery.js

custom.js

Content

index.html

Presentation

style.css

Designerly Syntax

- CSS

  p { }

  .menu { }

  #content { }

- jQuery

  $('p')

  $('.menu')

  $('#content')

Designerly Syntax

- CSS

  a[rel=nofollow]

  #content > p { }

  tr:nth-child(even) { }

- jQuery

  $('a[rel=nofollow]')

  $('#content > p')

  $('tr:nth-child(even)')

Example

- Get the height of the viewport…

DOM Scripting

```
var x,y;
if (self.innerHeight) { // all except Explorer
  x = self.innerWidth;
  y = self.innerHeight;
}
else if (document.documentElement &&
  document.documentElement.clientHeight) {
   // Explorer 6 Strict Mode
  x = document.documentElement.clientWidth;
  y = document.documentElement.clientHeight;
}
else if (document.body) { // other Explorers
  x = document.body.clientWidth;
  y = document.body.clientHeight;
}
```

jQuery

```
var x = $(window).width();
var y = $(window).height();
```

Example

- Find a *blockquote* with a *cite* attribute
  <blockquote cite="http://cnn.com"> …
- Create a link to the URL of the cite attribute
  source
- Place the link in a new paragraph at the end of the blockquote.

DOM Scripting

```javascript
if (!document.getElementsByTagName) return false;
var quotes = document.getElementsByTagName("blockquote");
for (var i=0; i<quotes.length; i++) {
  var source = quotes[i].getAttribute("cite");
  if (source) {
    var link = document.createElement("a");
    link.setAttribute("href",source);
    var text = document.createTextNode("source");
    link.appendChild(text);
    var para = document.createElement("p");
    para.className = "attribution";
    para.appendChild(link);
    quotes[i].appendChild(para);
  }
}
```

jQuery

```
$('blockquote[cite]').each(function() {
  $('<p class="attribution"></p>')
    .append('<a href="' + $(this).attr('cite') + '">source</a>')
    .appendTo($(this));
});
```

Getting Started

- Referencing Scripts in HTML

- Document Ready

Referencing Scripts
in the <head>

- Typical setup

- jQuery file goes first

```
<head>
<!-- stuff -->
<script
  src="http://ajax.googleapis.com/ajax/libs/jquery/1/jquery.js"
  type="text/javascript"></script>
<script src="custom.js" type="text/javascript"></script>
<!-- more stuff -->
</head>
```

Document Ready

- Binds a function to be executed as soon as the DOM has been **successfully** loaded…

- B*efore* images load

- *After* stylesheets load (for now)

- Usually better than window.onload

Document Ready: Code

```
$(document).ready(function() {
    // Stuff to do as soon as the DOM is ready;
});
```

Document Ready: Varieties

- `$(document).ready(function() {/* */});`

- `$().ready(function() {/* */});`

- `$(function() {/* */});`

- `jQuery(function($) {/* /*});`

Document Ready:

- Multiple document ready functions are fine.
- Scope may be an issue.

```
$(document).ready(function() {
    var mood = 'happy';
});

$(document).ready(function() {
    try {
        alert(mood); // no alert
    } catch(err) {
        alert(err); // "ReferenceError: mood is not

    defined"
    }
});
```

Document Ready:

- Multiple document ready functions are fine.

- Scope may be an issue.

```
$(document).ready(function() {
    var $.mood = 'happy';
});

$(document).ready(function() {
    try {
        alert($.mood); // "happy"
    } catch(err) {
        alert(err); // no alert
    }
});
```

Document Ready:

- When <script> is inside <body> (sometimes)

```
<body>
<!-- more stuff -->
<script src="jquery.js" type="text/javascript"></script>
<script type="text/javascript">
    // no document ready here
</script>
</body>
```

Document Ready
When *Not* to Use

- When images need to be loaded first

```
$(window).bind('load', function() {
     // do something with images
}
```

Documentation

- Official Documentation
  - API: docs.jquery.com
  - FAQ
  - Tutorials
- Tutorial Sites
  - learningjquery.com
  - jqueryminute.com
  - jqueryfordesigners.com
  - many more!
- Books
  - Learning jQuery
  - jQuery in Action
  - more in the works

The Community

- jQuery "evangelism"
- Google Groups
  - jquery-en
  - jquery-dev
  - jquery-ui
- planet.jquery.com
- IRC
  - freenode.net #jquery
- Twitter
  - @jquery, @jquery-ui