jQuery Fundamentals

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Pre-Reqs

- Experience working with JavaScript
- Good understanding of HTML
- Experience working with CSS



Agenda

- Why use jQuery?
- Referencing a jQuery script
- Using a Content Delivery Network (CDN)
- Using the jQuery Ready Function
- jQuery Documentation



Getting Started with jQuery

What is jQuery?

- JavaScript Library (single file)
- Cross-browser support
- Select HTML elements
- Handle events
- Animate HTML elements
- Make Ajax calls
- 1000's of plugins available





Why use jQuery?

How do you locate elements with a specific class?

How do you apply styles to multiple elements?



How do you handle events in a cross-browser manner?

How many hours have you spent dealing with cross-browser issues



jQuery Makes Client-Side Dev Fun!





Getting Started with jQuery

- To use jQuery
 - Download the jQuery script from http://jquery.com
 - Reference the script in your web page:

```
<head>
<script type="text/javascript" src="jquery-1.4.4.min.js"></script>
</head>
```



Getting jQuery Code Assistance

- Visual Studio 2008/2010 provides jQuery Intellisense
 - Place jQuery-vsdoc.js file into the same path as the jquery.js file
 - http://appendto.com/community/jquery-vsdoc

Other IDEs:

- Eclipse (with plugins) http://www.eclipse.org/
- Aptana Studio http://aptana.com



Using a Content Delivery Network (CDN)

• Alternatively, you can use the Microsoft or Google CDN:

```
<head>
 <script type="text/javascript"</pre>
  src="http://ajax.microsoft.com/ajax/jquery/jquery-1.4.4.min.js"></script>
</head>
<head>
 <script type="text/javascript"</pre>
   src="http://ajax.googleapis.com/ajax/libs/jquery/1.4.4/jquery.min.js">
 </script>
</head>
```



What if the CDN is Down?

If there was a problem with the CDN you can load the script locally:



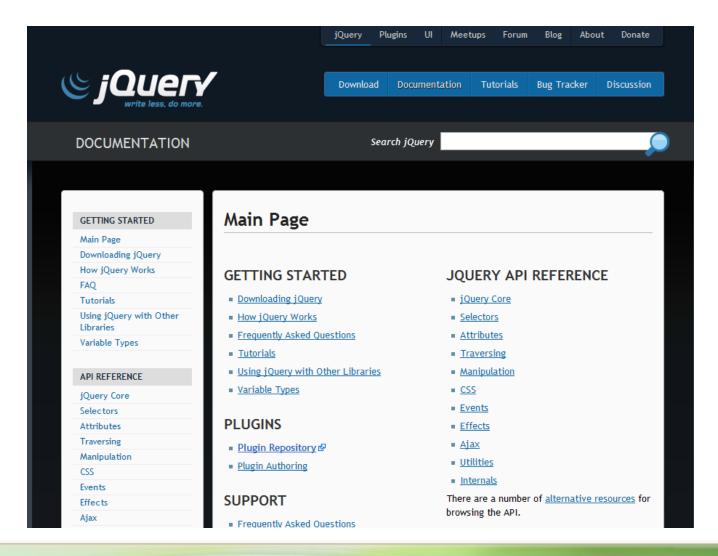
Detecting When a Page has Loaded

- Use \$(document).ready() to detect when a page has loaded and is ready to use
- Called once DOM hierarchy is loaded (but before all images have loaded)

```
<script type="text/javascript">
    $(document).ready(function(){
         //Perform action here
    });
</script>
```



jQuery Documentation





Summary

- jQuery is a cross-browser JavaScript library
- Available at http://jquery.com
- Provides a robust (and fun) way to manipulate DOM elements
- The ready() function detects when the DOM hierarchy is loaded
- Get to know the jQuery documentation!



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