

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"  
    src="http://ajax.microsoft.com/ajax/jquery/jquery-1.4.4.min.js"></script>  
</head>
```

```
<head>  
  <script type="text/javascript"  
    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:

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

```
<script type="text/javascript">  
  if (typeof jQuery == 'undefined')  
    document.write(unescape("%3Cscript src='jQuery.js'" +  
                        "type='text/javascript'%3E%3C/script%3E"));  
</script>
```




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

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JQUERY API REFERENCE

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There are a number of [alternative resources](#) for browsing the API.

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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