

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



Why use jQuery?

How do you locate elements
with a specific class?

How do you apply styles to multiple
elements?



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

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

jQuery Makes Client-Side Dev Fun!



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- Why use jQuery?
- **Getting Started with jQuery**
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Getting Started with jQuery

■ To use jQuery

- Download the jQuery script from <http://jquery.com>
- Need to support IE 6 – 8? Go with jQuery 1.x
- Don't need to support IE 6 – 8? Go with jQuery 2.x
- Reference the script in your web page:

<head>

<script type="text/javascript" src="jquery.js"></script>

</head>

Getting jQuery Code Assistance

- **jQuery/JavaScript Editors:**

- Visual Studio
- Eclipse (with plugins)
- Aptana Studio
- Sublime Text
- WebStorm
- Many more...

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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-[version].js"></script>  
</head>
```

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

```
<script>
  window.jQuery || document.write('<script src="jquery.js"></script>')
</script>
```



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Detecting When a Page has Loaded

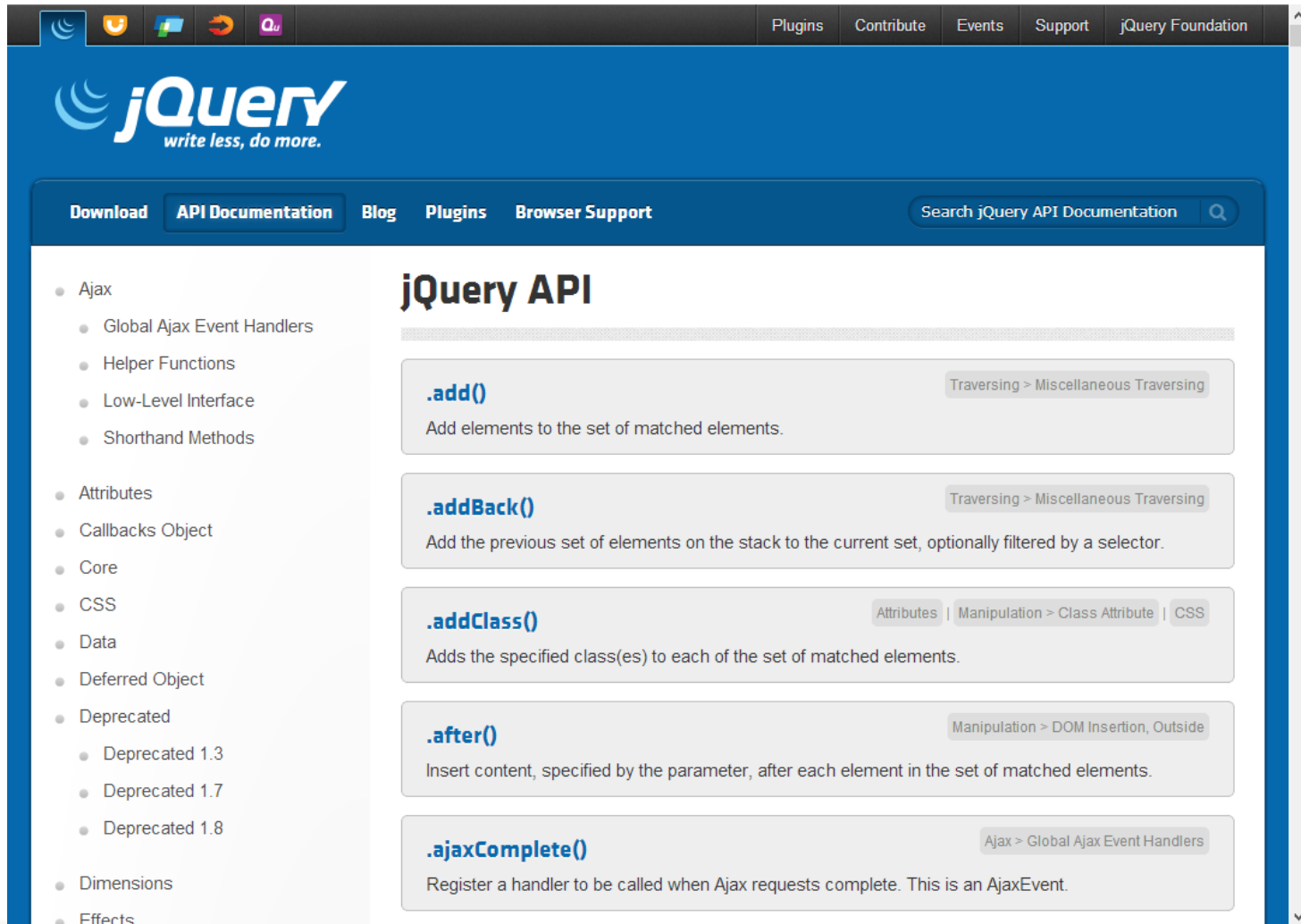
- Use **`$(document).ready()`** to detect when a page has loaded and is ready to use
- Called once DOM hierarchy is loaded (but before all images have loaded)

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

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jQuery Documentation



The screenshot shows the jQuery API Documentation website. At the top, there's a navigation bar with links for Plugins, Contribute, Events, Support, and jQuery Foundation. Below this is the jQuery logo with the tagline "write less, do more.". A secondary navigation bar contains links for Download, API Documentation (which is highlighted), Blog, Plugins, and Browser Support. A search bar is also present on the right side of this bar.

On the left side, there's a sidebar with a list of categories: Ajax, Attributes, Callbacks Object, Core, CSS, Data, Deferred Object, Deprecated, Dimensions, and Effects. The "Ajax" category is expanded, showing sub-items: Global Ajax Event Handlers, Helper Functions, Low-Level Interface, and Shorthand Methods.

The main content area is titled "jQuery API". It lists several methods, each with a description and a breadcrumb trail:

- .add()** (Traversing > Miscellaneous Traversing): Add elements to the set of matched elements.
- .addBack()** (Traversing > Miscellaneous Traversing): Add the previous set of elements on the stack to the current set, optionally filtered by a selector.
- .addClass()** (Attributes | Manipulation > Class Attribute | CSS): Adds the specified class(es) to each of the set of matched elements.
- .after()** (Manipulation > DOM Insertion, Outside): Insert content, specified by the parameter, after each element in the set of matched elements.
- .ajaxComplete()** (Ajax > Global Ajax Event Handlers): Register a handler to be called when Ajax requests complete. This is an AjaxEvent.

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!