

User Interaction: jQuery

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INF 133 Fall 2014



- jQuery
 - A JavaScript Library
 - Cross-browser
 - Free (beer & speech)
 - It supports
 - manipulating HTML elements (DOM)
 - animations
 - event handling
 - AJAX

- Getting access to jQuery in our code
 - You can't just write JavaScript that calls jQuery
 - You must load it
 - From where?
 - From your own machine
 - <http://jquery.com/>
 - From someone else's machine
 - From Google
 - Why would you do this?
 - <http://code.google.com/apis/libraries/devguide.html>
 - Shortcut



- Loading jQuery is just like loading a remote JavaScript

```
<html>
  <head>
    <script type="text/javascript" src="Step5.js"></script>
  </head>

  <body onload="message()">
    Hello World!
  </body>
</html>
```

- Loading jQuery is just like loading a remote JavaScript

```
<html>
  <head>
    <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.8.2/jquery.min.js"></script>
    <script src="http://ajax.googleapis.com/ajax/libs/jqueryui/1.9.0/jquery-ui.min.js"></script>
  </head>

  <body>
    
  </body>
</html>
```

- With jQuery you select HTML elements in the DOM and perform actions on them
 - Basic syntax is: `$(selector).action()`
 - A dollar sign (\$) is used to define jQuery
 - `$(selector).action() = jQuery(selector).action()`
 - A **selector** to "query (or find)" HTML elements
 - A jQuery **action** to apply to the element(s)

```
<p class="foo">words</p>
```

```
<p id="bar">more words</p>
```

```
<p class="foo">even more words</p>
```

```
<img class="foo"/>
```

- Selection examples:
 - multiple results
 - \$("p").hide()
 - \$(".foo").hide()
 - \$("p.foo").hide()
 - single result
 - \$("#bar").hide()
 - context dependent
 - \$(this).hide()

- Many elaborate selectors possible
 - multiple selectors
 - `$("p,img")`
 - descendant selector
 - `$("p a")`
 - sibling filter (selects the element with `.next` class)
 - `$(".prev + .next")`
 - negation
 - `$("input:not(:checked)")`

Possible Actions:

- **append** content to a DOM element
- **wrap** content around a DOM element
- **toggle** the display of a DOM element
- attach a function that is run when you **hover** over a DOM element
- you can request data via the **ajax** pattern

- Loading jQuery is just like loading a remote JavaScript

```
<html>
  <head>
    <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.8.2/jquery.min.js"></script>
    <script src="http://ajax.googleapis.com/ajax/libs/jqueryui/1.9.0/jquery-ui.min.js"></script>
    <script>
      $(document).ready(
        function() {
          $("img").click(
            function () {
              $(this).hide("blind", { direction: "horizontal" }, 5000);
            }
          );
        }
      );
    </script>
  </head>

  <body>
    
  </body>
</html>
```

Step 7

- Loading jQuery is just like loading a remote JavaScript

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    <script>
      $(document).ready(
        function() {
          $("img").click(
            function () {
              $(this).hide("explode", 5000);
            }
          );
        }
      );
    </script>
  </head>

  <body>
    
  </body>
</html>
```

- Step 8

- Loading jQuery is just like loading a remote JavaScript

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            }
          );
        }
      );
    </script>
  </head>

  <body>
    
    <br/>
    
  </body>
</html>
```

The screenshot shows the jQuery website homepage. At the top, there is a navigation bar with links for jQuery, Plugins, UI, Meetups, Forum, Blog, About, and Donate. Below this is a secondary navigation bar with links for Download, Documentation, Tutorials, Bug Tracker, and Discussion. The main content area features the jQuery logo and tagline "write less, do more." followed by a headline "jQuery is a new kind of JavaScript Library." and a descriptive paragraph. To the right, there is a section titled "GRAB THE LATEST VERSION!" with a "CHOOSE YOUR COMPRESSION LEVEL:" section containing two radio buttons: "PRODUCTION (31KB, Minified and Gzipped)" (selected) and "DEVELOPMENT (229KB, Uncompressed Code)". Below this is a large "Download (jQuery);" button with a download icon and the text "Current Release: v1.6.4".

jQuery

Plugins UI Meetups Forum Blog About Donate

Download Documentation Tutorials Bug Tracker Discussion

jQuery
write less, do more.

jQuery is a new kind of JavaScript Library.

jQuery is a fast and concise JavaScript Library that simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development. jQuery is designed to change the way that you write JavaScript.


✓ [Lightweight Footprint](#) ✓ [CSS3 Compliant](#) ✓ [Cross-browser](#)

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Current Release: **v1.6.4**

WHO'S USING JQUERY? Google DELL IBM NBC CBS NETFLIX Technorati mozilla.org W

LEARN JQUERY NOW!

What does jQuery code look like? Here's the quick and dirty:

```
$("#p.neat").addClass("ohmy").show("slow");
```

RUN CODE

JQUERY RESOURCES

Getting Started With jQuery

- ◆ [How jQuery Works](#)
- ◆ [Tutorials](#)
- ◆ [Using jQuery with other libraries](#)
- ◆ [jQuery Documentation](#)

Developer Resources

- ◆ [Mailing List](#)
- ◆ [Source code / Git](#)
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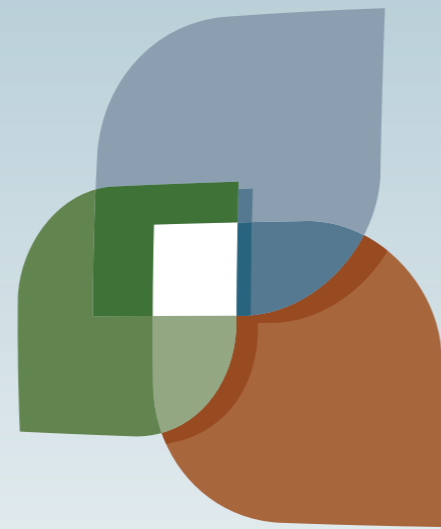
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