

INTRO TO JQUERY

Software Engineering
CS 130

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Content adapted from Essentials of Software
Engineering 3rd edition by Tsui, Karam, Bernal
Jones and Bartlett Learning

A decorative graphic in the bottom right corner of the slide. It features a stylized, semi-circular shape with a grid pattern inside, and several circles of varying sizes scattered around it, all in a light blue color that blends with the background.

- 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

```
<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("explode", 5000);
            }
          );
        }
      );
    </script>
  </head>

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

- Step 8

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

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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](#)

GRAB THE LATEST VERSION!

CHOOSE YOUR COMPRESSION LEVEL:

☒ PRODUCTION (31KB, Minified and Gzipped)
☐ DEVELOPMENT (229KB, Uncompressed Code)

 **Download (jQuery);**

Current Release: **v1.6.4**

WHO'S USING JQUERY?

Google         

LEARN JQUERY NOW!

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

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

[RUN CODE](#)

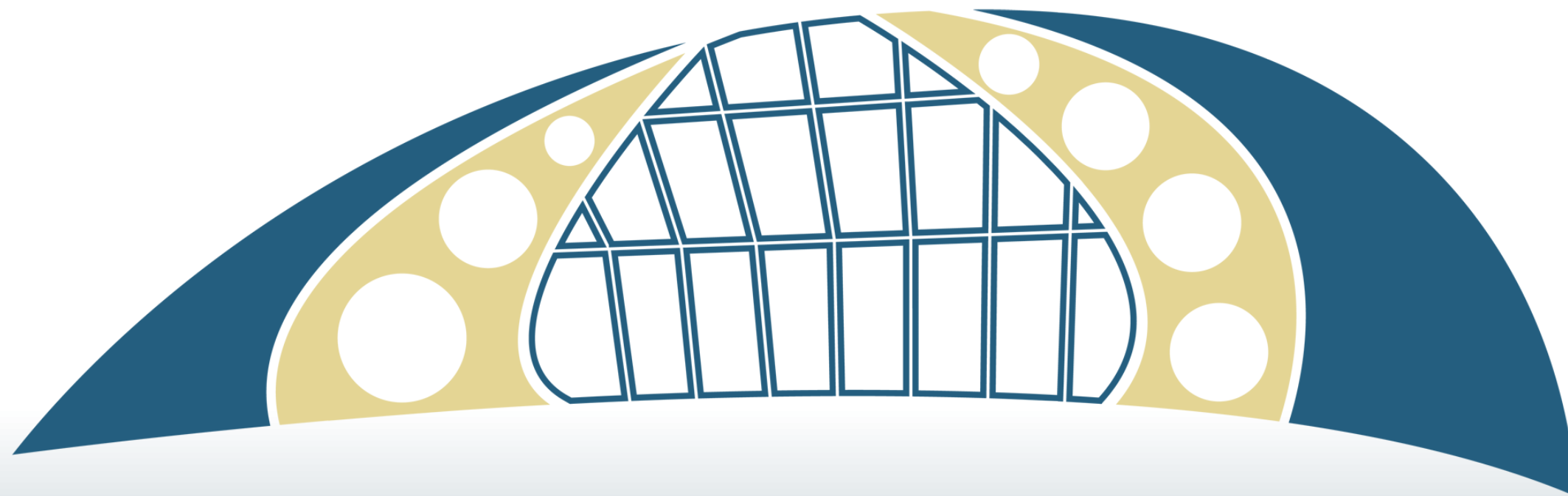
JQUERY RESOURCES

Getting Started With jQuery

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

Developer Resources

- ◆ [Mailing List](#)
- ◆ [Source code / Git](#)
- ◆ [Plugin Authoring](#)
- ◆ [Submit a New Bug Report](#)



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