

```
1. <!--
2.
3. ajax1.html
4.
5. Gets stock quote from quote1.php via Ajax, displaying result with alert().
6.
7. Building Mobile Applications
8. Harvard Summer School
9. David J. Malan
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html lang="en-us">
16.   <head>
17.     <meta charset="utf-8">
18.     <meta name="viewport" content="width=device-width">
19.     <script type="text/javascript">
20.       // 
21.
22.         // an XMLHttpRequest
23.         var xhr = null;
24.
25.         /*
26.          * void
27.          * quote()
28.          *
29.          * Gets a quote.
30.          */
31.         function quote()
32.         {
33.           // instantiate XMLHttpRequest object
34.           try
35.           {
36.             xhr = new XMLHttpRequest();
37.           }
38.           catch (e)
39.           {
40.             xhr = new ActiveXObject("Microsoft.XMLHTTP");
41.           }
42.
43.           // handle old browsers
44.           if (xhr == null)
45.           {
46.             alert("Ajax not supported by your browser!");
47.             return;
48.           }
</pre></div>
```

```
49.
50.     // construct URL
51.     var url = "quotel.php?symbol=" + document.getElementById("symbol").value;
52.
53.     // get quote
54.     xhr.onreadystatechange = handler;
55.     xhr.open("GET", url, true);
56.     xhr.send(null);
57. }
58.
59.
60. /*
61.  * void
62.  * handler()
63.  *
64.  * Handles the Ajax response.
65.  */
66. function handler()
67. {
68.     // only handle loaded requests
69.     if (xhr.readyState == 4)
70.     {
71.         // display response if possible
72.         if (xhr.status == 200)
73.             alert(xhr.responseText);
74.         else
75.             alert("Error with Ajax call!");
76.     }
77. }
78.
79. // ]]>
80. </script>
81. <title>ajax1</title>
82. </head>
83. <body>
84.     <form onsubmit="quote(); return false;">
85.         Symbol: <input autocomplete="off" id="symbol" type="text">
86.         <br><br>
87.         <input type="submit" value="Get Quote">
88.     </form>
89. </body>
90. </html>
```

```
1. <!--
2.
3.  ajax2.html
4.
5.  Gets stock quote from quote1.php via Ajax, embedding result in page itself.
6.
7.  Building Mobile Applications
8.  Harvard Summer School
9.  David J. Malan
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html lang="en-us">
16.   <head>
17.     <meta charset="utf-8">
18.     <meta name="viewport" content="width=device-width">
19.     <script type="text/javascript">
20.       // 
21.
22.         // an XMLHttpRequest
23.         var xhr = null;
24.
25.         /*
26.          * void
27.          * quote()
28.          *
29.          * Gets a quote.
30.          */
31.         function quote()
32.         {
33.           // instantiate XMLHttpRequest object
34.           try
35.           {
36.             xhr = new XMLHttpRequest();
37.           }
38.           catch (e)
39.           {
40.             xhr = new ActiveXObject("Microsoft.XMLHTTP");
41.           }
42.
43.           // handle old browsers
44.           if (xhr == null)
45.           {
46.             alert("Ajax not supported by your browser!");
47.             return;
48.           }</pre></div>
```

```
49.
50.     // construct URL
51.     var url = "quotel.php?symbol=" + document.getElementById("symbol").value;
52.
53.     // get quote
54.     xhr.onreadystatechange = handler;
55.     xhr.open("GET", url, true);
56.     xhr.send(null);
57. }
58.
59.
60. /*
61.  * void
62.  * handler()
63.  *
64.  * Handles the Ajax response.
65.  */
66. function handler()
67. {
68.     // only handle loaded requests
69.     if (xhr.readyState == 4)
70.     {
71.         // embed response in page if possible
72.         if (xhr.status == 200)
73.             document.getElementById("price").innerHTML = xhr.responseText;
74.         else
75.             alert("Error with Ajax call!");
76.     }
77. }
78.
79. // ]]>
80. </script>
81. <title>ajax2</title>
82. </head>
83. <body>
84.     <form onsubmit="quote(); return false;">
85.         Symbol: <input autocomplete="off" id="symbol" type="text">
86.         <br>
87.         Price: <span id="price"><b>to be determined</b></span>
88.         <br><br>
89.         <input type="submit" value="Get Quote">
90.     </form>
91. </body>
92. </html>
```

```

1.  <!--
2.
3.  ajax3.html
4.
5.  Gets stock quote from Yahoo Finance via YQL using JSONP.
6.
7.  Building Mobile Applications
8.  Harvard Summer School
9.  David J. Malan
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html lang="en-us">
16.   <head>
17.     <meta charset="utf-8">
18.     <meta name="viewport" content="width=device-width">
19.     <script type="text/javascript">
20.       // <![CDATA[
21.
22.         /*
23.          * void
24.          * quote()
25.          *
26.          * Gets a quote.
27.          */
28.         function quote()
29.         {
30.             // construct URL
31.             var url =
32. "http://query.yahooapis.com/v1/public/yql?q=select%20*%20from%20csv%20where%20columns%20%3D%20'price'%20and%20url%20%3D%20'http%3A%2F%2Fdownlo
33. ad.finance.yahoo.com%2Fd%2Fquotes.csv%3Ff%3Dl%26s%3D" + document.getElementById("symbol").value + "'&format=json&callback=handler";
34.
35.             // get quote via JSONP
36.             var script = document.createElement("script");
37.             script.setAttribute("src", url);
38.             document.getElementsByTagName("head")[0].appendChild(script);
39.
40.         }
41.
42.         /*
43.          * void
44.          * handler(response)
45.          *
46.          * Handles the JSONP response.
47.          */
48.         function handler(response)

```

```
47.     {
48.         if (response.query.count == 1)
49.         {
50.             alert(response.query.results.row.price);
51.         }
52.         else
53.         {
54.             alert("Error in JSONP response!");
55.         }
56.     }
57.
58. // ]]>
59.     </script>
60.     <title>ajax3</title>
61. </head>
62. <body>
63.     <form onsubmit="quote(); return false;">
64.         Symbol: <input autocomplete="off" id="symbol" type="text">
65.         <br><br>
66.         <input type="submit" value="Get Quote">
67.     </form>
68. </body>
69. </html>
```

```
1. <?
2.
3.  /**
4.   * quotel.php
5.   *
6.   * Outputs price of given symbol as text/html.
7.   *
8.   * Building Mobile Applications
9.   * Harvard Summer School
10.  * David J. Malan
11.  */
12.
13.  // get quote
14.  $handle = @fopen("http://download.finance.yahoo.com/d/quotes.csv?s={$_GET["symbol"]}&f=e111", "r");
15.  if ($handle !== FALSE)
16.  {
17.      $data = fgetcsv($handle);
18.      if ($data !== FALSE && $data[0] == "N/A")
19.          print($data[1]);
20.      fclose($handle);
21.  }
22.  ?>
```

```
1. <?
2.
3.     /**
4.      * dump.php
5.      *
6.      * Dumps HTTP requests.
7.      *
8.      * Computer Science 50
9.      * David J. Malan
10.     */
11.
12. ?>
13.
14. <!DOCTYPE html>
15.
16. <html>
17.     <head>
18.         <title>dump</title>
19.     </head>
20.     <body>
21.         <pre><? print_r($_GET); ?></pre>
22.     </body>
23. </html>
```



```
1. <!--
2.
3. form1.html
4.
5. A form without client-side validation.
6.
7. Building Mobile Applications
8. Harvard Summer School
9. David J. Malan
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html lang="en-us">
16.   <head>
17.     <meta name="viewport" content="width=device-width">
18.     <title>form1</title>
19.   </head>
20.   <body>
21.     <form action="dump.php" method="get">
22.       Email: <input autocomplete="off" name="email" type="text">
23.       <br>
24.       Password: <input name="password1" type="password">
25.       <br>
26.       Password (again): <input name="password2" type="password">
27.       <br>
28.       I agree to the terms and conditions: <input name="agreement" type="checkbox">
29.       <br><br>
30.       <input type="submit" value="Submit">
31.     </form>
32.   </body>
33. </html>
```

```
1. <!--
2.
3. form2.html
4.
5. A form with client-side validation.
6.
7. Building Mobile Applications
8. Harvard Summer School
9. David J. Malan
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html>
16.   <head>
17.     <meta name="viewport" content="width=device-width">
18.     <script type="text/javascript">
19.       // 
20.
21.         function validate()
22.         {
23.           if (document.forms.registration.email.value == "")
24.           {
25.             alert("You must provide an email address.");
26.             return false;
27.           }
28.           else if (document.forms.registration.password1.value == "")
29.           {
30.             alert("You must provide a password.");
31.             return false;
32.           }
33.           else if (document.forms.registration.password1.value != document.forms.registration.password2.value)
34.           {
35.             alert("You must provide the same password twice.");
36.             return false;
37.           }
38.           else if (!document.forms.registration.agreement.checked)
39.           {
40.             alert("You must agree to our terms and conditions.");
41.             return false;
42.           }
43.           return true;
44.         }
45.
46.       // ]]&gt;
47.     &lt;/script&gt;
48.     &lt;title&gt;Form2&lt;/title&gt;</pre></div>
```

```
49. </head>
50. <body>
51.   <form action="dump.php" method="get" name="registration" onsubmit="return validate();">
52.     Email: <input autocomplete="off" name="email" type="text">
53.     <br>
54.     Password: <input name="password1" type="password">
55.     <br>
56.     Password (again): <input name="password2" type="password">
57.     <br>
58.     I agree to the terms and conditions: <input name="agreement" type="checkbox">
59.     <br><br>
60.     <input type="submit" value="Submit">
61.   </form>
62. </body>
63. </html>
```

```
1. body
2. {
3.     background-color: #111;
4.     font-family: Helvetica, sans-serif;
5.     margin: 0;
6. }
7.
8. h1
9. {
10.    background-color: #333;
11.    color: #FFF;
12.    font-size: 18px;
13.    margin: 0;
14.    padding: 6px;
15.    text-align: center;
16. }
17.
18. li a
19. {
20.    border-bottom: 1px #000 solid;
21.    color: #FFF;
22.    display: block;
23.    font-weight: bold;
24.    padding: 10px;
25.    text-decoration: none;
26. }
27.
28. li a:active
29. {
30.    background-color: #000;
31. }
32.
33. ul
34. {
35.    list-style: none;
36.    margin: 0;
37.    padding: 0;
38. }
```

```
1. <!--
2.
3.  home4.html
4.
5.  David J. Malan
6.  Building Dynamic Websites
7.  Harvard Summer School
8.
9.  A scaled homepage for the course that mimics Android's UI.
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html lang="en-us">
16.   <head>
17.     <link href="android.css" rel="stylesheet">
18.     <meta charset="utf-8">
19.     <meta name="viewport" content="width=device-width">
20.     <title>CSCI E-76</title>
21.   </head>
22.   <body>
23.     <h1>CSCI E-76</h1>
24.     <ul>
25.       <li><a href="lectures.html">Lectures</a></li>
26.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
27.     </ul>
28.   </body>
29. </html>
```

```
1.
2. <!DOCTYPE html>
3.
4. <!--
5.
6. lecture0.html
7.
8. David J. Malan
9. Building Dynamic Websites
10. Harvard Summer School
11.
12. Represents a lecture.
13.
14. -->
15.
16. <html lang="en-us">
17.   <head>
18.     <link href="android.css" rel="stylesheet">
19.     <meta charset="utf-8">
20.     <meta name="viewport" content="width=device-width">
21.     <title>Lecture 0</title>
22.   </head>
23.   <body>
24.     <h1>Lecture 0</h1>
25.     <ul>
26.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/lecture0-malan.pdf">Slides</a></li>
27.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
28.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/lecture0.mp4">Video</a></li>
29.     </ul>
30.   </body>
31. </html>
```

```
1.
2. <!DOCTYPE html>
3.
4. <!--
5.
6. lectures.html
7.
8. David J. Malan
9. Building Dynamic Websites
10. Harvard Summer School
11.
12. Links to lectures.
13.
14. -->
15.
16. <html lang="en-us">
17.   <head>
18.     <link href="android.css" rel="stylesheet">
19.     <meta charset="utf-8">
20.     <meta name="viewport" content="width=device-width">
21.     <title>Lectures</title>
22.   </head>
23.   <body>
24.     <h1>Lectures</h1>
25.     <ul>
26.       <li><a href="lecture0.html">Lecture 0</a></li>
27.     </ul>
28.   </body>
29. </html>
```

```
1. <!--
2.
3.  home1.html
4.
5.  David J. Malan
6.  Building Dynamic Websites
7.  Harvard Summer School
8.
9.  An unscaled homepage for the course.
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html lang="en-us">
16.   <head>
17.     <meta charset="utf-8">
18.     <title>CSCI E-76</title>
19.   </head>
20.   <body>
21.     <h1>CSCI E-76</h1>
22.     <ul>
23.       <li><a href="lectures.html">Lectures</a></li>
24.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
25.     </ul>
26.   </body>
27. </html>
```



```
1. <!--
2.
3.  home2.html
4.
5.  David J. Malan
6.  Building Dynamic Websites
7.  Harvard Summer School
8.
9.  A scaled homepage for the course.
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html lang="en-us">
16.   <head>
17.     <meta charset="utf-8">
18.     <meta name="viewport" content="width=device-width">
19.     <title>CSCI E-76</title>
20.   </head>
21.   <body>
22.     <h1>CSCI E-76</h1>
23.     <ul>
24.       <li><a href="lectures.html">Lectures</a></li>
25.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
26.     </ul>
27.   </body>
28. </html>
```

```
1.
2. <!DOCTYPE html>
3.
4. <!--
5.
6. lecture0.html
7.
8. David J. Malan
9. Building Dynamic Websites
10. Harvard Summer School
11.
12. Represents a lecture.
13.
14. -->
15.
16. <html lang="en-us">
17.   <head>
18.     <meta charset="utf-8">
19.     <meta name="viewport" content="width=device-width">
20.     <title>Lecture 0</title>
21.   </head>
22.   <body>
23.     <h1>Lecture 0</h1>
24.     <ul>
25.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/lecture0-malan.pdf">Slides</a></li>
26.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
27.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/lecture0.mp4">Video</a></li>
28.     </ul>
29.   </body>
30. </html>
```

```
1.
2. <!DOCTYPE html>
3.
4. <!--
5.
6. lectures.html
7.
8. David J. Malan
9. Building Dynamic Websites
10. Harvard Summer School
11.
12. Links to lectures.
13.
14. -->
15.
16. <html lang="en-us">
17.   <head>
18.     <meta charset="utf-8">
19.     <meta name="viewport" content="width=device-width">
20.     <title>Lectures</title>
21.   </head>
22.   <body>
23.     <h1>Lectures</h1>
24.     <ul>
25.       <li><a href="lecture0.html">Lecture 0</a></li>
26.     </ul>
27.   </body>
28. </html>
```

```
1. body
2. {
3.     font-family: Helvetica, sans-serif;
4.     margin: 0;
5. }
6.
7. h1
8. {
9.     background-color: #7C92AE;
10.    background-image: -webkit-gradient(linear, 0% 0%, 0% 100%, from(#ABB9CB), color-stop(0.5, #8C9FB8), color-stop(0.51, #7C92AE), to(#6C85A4));
11.    color: #FFF;
12.    font-size: 18px;
13.    margin: 0;
14.    padding: 6px;
15.    text-align: center;
16. }
17.
18. li a
19. {
20.    border-bottom: 1px #CCC solid;
21.    color: #000;
22.    display: block;
23.    font-weight: bold;
24.    padding: 10px;
25.    text-decoration: none;
26. }
27.
28. ul
29. {
30.    list-style: none;
31.    margin: 0;
32.    padding: 0;
33. }
```

```
1. <!--
2.
3.  ios.html
4.
5.  David J. Malan
6.  Building Dynamic Websites
7.  Harvard Summer School
8.
9.  A scaled homepage for the course that mimics iOS's UI.
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html lang="en-us">
16.   <head>
17.     <link href="ios.css" rel="stylesheet">
18.     <meta charset="utf-8">
19.     <meta name="viewport" content="width=device-width">
20.     <title>CSCI E-76</title>
21.   </head>
22.   <body>
23.     <h1>CSCI E-76</h1>
24.     <ul>
25.       <li><a href="lectures.html">Lectures</a></li>
26.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
27.     </ul>
28.   </body>
29. </html>
```

```
1.
2. <!DOCTYPE html>
3.
4. <!--
5.
6. lecture0.html
7.
8. David J. Malan
9. Building Dynamic Websites
10. Harvard Summer School
11.
12. Represents a lecture.
13.
14. -->
15.
16. <html lang="en-us">
17.   <head>
18.     <link href="ios.css" rel="stylesheet">
19.     <meta charset="utf-8">
20.     <meta name="viewport" content="width=device-width">
21.     <title>Lecture 0</title>
22.   </head>
23.   <body>
24.     <h1>Lecture 0</h1>
25.     <ul>
26.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/lecture0-malan.pdf">Slides</a></li>
27.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
28.       <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/lecture0.mp4">Video</a></li>
29.     </ul>
30.   </body>
31. </html>
```

```
1.
2. <!DOCTYPE html>
3.
4. <!--
5.
6. lectures.html
7.
8. David J. Malan
9. Building Dynamic Websites
10. Harvard Summer School
11.
12. Links to lectures.
13.
14. -->
15.
16. <html lang="en-us">
17.   <head>
18.     <link href="ios.css" rel="stylesheet">
19.     <meta charset="utf-8">
20.     <meta name="viewport" content="width=device-width">
21.     <title>Lectures</title>
22.   </head>
23.   <body>
24.     <h1>Lectures</h1>
25.     <ul>
26.       <li><a href="lecture0.html">Lecture 0</a></li>
27.     </ul>
28.   </body>
29. </html>
```

```
1. <!--
2.
3.  jqmobile.html
4.
5.  David J. Malan
6.  Building Dynamic Websites
7.  Harvard Summer School
8.
9.  Demonstrates jQuery Mobile.
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html lang="en-us">
16.   <head>
17.     <link rel="stylesheet" href="http://code.jquery.com/mobile/1.0b1/jquery.mobile-1.0b1.min.css" />
18.     <meta charset="utf-8">
19.     <script type="text/javascript" src="http://code.jquery.com/jquery-1.6.1.min.js"></script>
20.     <script type="text/javascript" src="http://code.jquery.com/mobile/1.0b1/jquery.mobile-1.0b1.min.js"></script>
21.     <title>CSCI E-76</title>
22.   </head>
23.   <body>
24.
25.     <div data-role="page" id="menu">
26.
27.       <div data-role="header" data-theme="b">
28.         <h1>CSCI E-76</h1>
29.       </div>
30.
31.       <div data-role="content">
32.         <ul data-role="listview" data-theme="c">
33.           <li><a href="#lectures">Lectures</a></li>
34.           <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
35.         </ul>
36.       </div>
37.
38.     </div>
39.
40.     <div data-role="page" id="lectures">
41.
42.       <div data-role="header" data-theme="b">
43.         <h1>Lectures</h1>
44.       </div>
45.
46.       <div data-role="content">
47.         <ul data-role="listview" data-theme="c">
48.           <li><a href="#lecture0">Lecture 0</a></li>
```



```
49.         </ul>
50.     </div>
51.
52. </div>
53.
54. <div data-role="page" id="lecture0">
55.
56.     <div data-role="header" data-theme="b">
57.         <h1>Lecture 0</h1>
58.     </div>
59.
60.     <div data-role="content">
61.         <ul data-role="listview" data-theme="c">
62.             <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/lecture0-malan.pdf">Slides</a></li>
63.             <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf">Slides</a></li>
64.             <li><a href="http://cdn.cs76.net/2011/summer/lectures/0/lecture0.mp4">Video</a></li>
65.         </ul>
66.     </div>
67.
68. </div>
69.
70. </body>
71. </html>
```

```
1. <!--
2.
3. jqtouch.html
4.
5. David J. Malan
6. Building Dynamic Websites
7. Harvard Summer School
8.
9. Demonstrates jQTouch.
10.
11. -->
12.
13. <!DOCTYPE html>
14.
15. <html lang="en-us">
16.   <head>
17.     <meta charset="utf-8">
18.     <script type="text/javascript" src="http://www.google.com/jsapi"></script>
19.     <script type="text/javascript"> google.load("jquery", "1.6.1"); </script>
20.     <script src="senchalabs-jQTouch-9ef89fe/jqtouch/jqtouch.js" type="application/x-javascript" charset="utf-8"></script>
21.     <script type="text/javascript">
22.       // <![CDATA[
23.
24.         var jQT = $.jQTouch();
25.
26.       // ]]>
27.     </script>
28.     <style type="text/css" media="screen">@import "senchalabs-jQTouch-d849076/jqtouch/jqtouch.css";</style>
29.     <style type="text/css" media="screen">@import "senchalabs-jQTouch-d849076/themes/jqt/theme.css";</style>
30.     <title>CSCI E-76</title>
31.   </head>
32.   <body>
33.
34.     <div id="menu">
35.
36.       <div class="toolbar">
37.         <h1>CSCI E-76</h1>
38.       </div>
39.
40.       <ul class="edgetoedge">
41.         <li class="arrow"><a href="#lectures">Lectures</a></li>
42.         <li class="arrow"><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf">Syllabus</a></li>
43.       </ul>
44.
45.     </div>
46.
47.     <div id="lectures">
48.
```

```
49.     <div class="toolbar">
50.         <h1>Lectures</h1>
51.         <a class="button back" href="#">Back</a>
52.     </div>
53.
54.     <ul class="edgetoedge">
55.         <li class="arrow"><a href="#lecture0">Lecture 0</a></li>
56.         <a class="button back" href="#">Back</a>
57.     </ul>
58.
59. </div>
60.
61. <div id="lecture0">
62.
63.     <div class="toolbar">
64.         <h1>Lecture 0</h1>
65.     </div>
66.
67.     <ul class="edgetoedge">
68.         <li class="arrow"><a href="http://cdn.cs76.net/2011/summer/lectures/0/lecture0-malan.pdf" target="_blank">Slides</a></li>
69.         <li class="arrow"><a href="http://cdn.cs76.net/2011/summer/lectures/0/syllabus.pdf" target="_blank">Slides</a></li>
70.         <li class="arrow"><a href="http://cdn.cs76.net/2011/summer/lectures/0/lecture0.mp4" target="_blank">Video</a></li>
71.     </ul>
72.
73. </div>
74.
75. </body>
76. </html>
```