# Lesson 02 – Introduction to JQuery

# Session 1 Worksheet

# Recap CSS Stylesheet

jQuery typically make changes to a webpage by manipulating the CSS styling of the HTML elements within that webpage. Therefore, it is important to recap on CSS, especially the CSS selectors. Start by looking into the following resource:

<http://www.w3schools.com/css/css_selectors.asp>

Examine the following table and fill in the blanks. The first one is done.

|  |  |
| --- | --- |
| CSS styling | Purpose |
| .stripe1 {  background-color:red;  } | All elements with class "stripe1" will have the background color of red |
| #firstName {  background-color:blue;  } | **All elements with id “firstName” will have the background colour of blue** |
| table {  border: 1px solid gray;  } | **The border of the table will have the colour of gray and 1px solid line** |
| .highlight {  font-weight:bold;  } | **All elements with class "highlight" will have bolded font** |

# jQuery Selectors

**Resources:**

<https://www.w3schools.com/jquery/jquery_ref_selectors.asp>

<https://api.jquery.com/category/selectors/>

<https://www.sitepoint.com/comprehensive-jquery-selectors/>

<http://www.creativebloq.com/javascript/getting-most-out-jquery-selectors-7116911>

**NOTE**: Refer to the **Reference - jQuery selectors.pdf** in LEO Resources when attempting the exercises below.

# Exercise 1a (Basic Selectors):

Consider the following HTML code:

|  |
| --- |
| <h1 id="myHeader">What element I am!</h1>  <div class="abc">this is the div tag with the class abc</div>  <div>  <div class="abc">this is sub one</div>  <div>this is another text</div>  </div> |

Write down the jQuery selector/s to retrieve the following HTML element.

|  |  |
| --- | --- |
| HTML Elements | jQuery selectors |
| <h1 id="myHeader">What element I am!</h1> | **$("h1#myHeader")** |
| <div class="abc">this is the div tag with the class abc</div> | **$("div.abc")** |
| <div><span class="abc">this is sub one</span></div> | **$("span.abc")** |
| <h1 id="myHeader">What element I am!</h1>  <div class="abc">this is the div tag with the class abc</div> | **$("h1#myHeader, div.abc")** |

# Exercise 1b (Index-based Selectors):

Consider the following HTML code:

|  |
| --- |
| <ul id="list">  <li>First Item</li>  <li>Second Item</li>  <li>Third Item</li>  <li>Fourth Item</li>0  </ul>  <div class="red">Red Triangle</div>  <div class="blue">Blue Triangle</div>  <div class="green">Green Triangle</div>  <div class="green">Green Square</div>  <div class="purple">Purple Square</div> |

Write down the jQuery selector/s to retrieve the following HTML element.

|  |  |
| --- | --- |
| HTML Elements | jQuery selectors |
| <div class="green">Green Triangle</div> | **$(".green:first")** |
| <li>Fourth Item</li> | **$("#list :last")** |
| <li>Second Item</li>  <li>Fourth Item</li> | **$("#list li:odd")** |
| <div class="red">Red Triangle</div>  <div class="green">Green Triangle</div>  <div class="purple">Purple Square</div> | **$("div:even")** |
| <li>Second Item</li> | **$("ul li:eq(1)")** |
| <div class="green">Green Square</div>  <div class="purple">Purple Square</div> | **$("ul li:gt(2)")** |
| <div class="red">Red Triangle</div>  <div class="blue">Blue Triangle</div> | **$("ul li:lt(2)")** |

# Exercise 1c (Attribute Selectors):

Consider the following HTML code:

|  |
| --- |
| <div class="red triangle">Red Triangle</div>  <div class="blue triangle">Blue Triangle</div>  <div class="yellow square">Yellow Square</div>  <div class="red circle">Red Circle</div>  <div class="yellow circle">Yellow Circle</div> |

Write down the jQuery selector/s to retrieve the following HTML element.

|  |  |
| --- | --- |
| HTML Elements | jQuery selectors |
| <div class="red triangle">Red Triangle</div> | **$("[class =‘red triangle’]")** |
| <div class="red triangle">Red Triangle</div>  <div class="red circle">Red Circle</div> | **$("[class^=‘red’]")** |
| <div class="red triangle">Red Triangle</div>  <div class="blue triangle">Blue Triangle</div> | **$("[class =$‘triangle’]")** |

# Exercise 1d (Form Selectors):

Consider the following HTML code:

|  |
| --- |
| <p>Customer Name:<input type="text" name="custName" value="John Smith"/>  <p>Phone:<input type="text" name="phone" value="12345678"/>  </p>  <p>Gender  <input type="radio" name="gender" value="M" checked/> Male  <input type="radio" name="gender" value="F" /> Female  </p>  <p>Hobbies  <input type="checkbox" name="hobbies" value="badminton" checked/> Badminton  <input type="checkbox" name="hobbies" value="swimming" checked/> Swimming  <input type="checkbox" name="hobbies" value="basketball" /> Basketball  </p>  <p><input type="submit"/> |

Write down the jQuery selector/s to retrieve the following.

|  |  |
| --- | --- |
| HTML Elements | jQuery selectors |
| Customer Name and Phone | **$(":text")** |
| Customer Name | **$("[name=custName]")** |
| Male and Female | **$(":radio")** |
| Badminton and Swimming | **$(".checkbox:checked")** |