

Introduction to jQuery

Lab Book

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Document Data jQuery

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Getting Started

Overview

This lab book is a guided tour for learning jQuery. It comprises solved examples and 'To Do' assignments. Follow the steps provided in the solved examples and work out the 'To Do' assignments given.

Setup Checklist for jQuery

Here is what is expected on your machine in order for the lab to work.

Minimum System Requirements

- Intel Pentium 90 or higher (P166 recommended)
- Microsoft Windows XP or above.
- Memory: 256MB of RAM (512MB or more recommended)
- Internet Explorer 9.0 or higher

Please ensure that the following is done:

• A text editor like Notepad, Editplus

Instructions

- For all coding standards refer Appendix A. All lab assignments should refer coding standards.
- Create a directory by your name in drive <drive>. In this directory, create a subdirectory jQuery_assign. For each lab exercise create a directory as lab <lab number>.
- You may also look up the on-line help provided in the http://www.jquery.com.
- The faculty will introduce you to the editor to be used.

Learning More (Bibliography if applicable)

- Visual QuickStart Guide jQuery by Steven Holzner
- jQuery in Action by Bear Bibeault and Yehuda Katz
- Learning jQuery 1.3 by Jonathan Chaffer and Karl Swedberg



Lab 1. jQuery Basics

Goals	 Understand the process of creating a jQuery page and viewing it in a browser window. Understanding Content Delivery Network (CDN) and using the hosted jQuery file from Google or Microsoft
Time	20 minutes

1.1: Creating jQuery Page

Create a web page to display the message box 'Hello World'.

Solution:

Step 1: Download the latest java script file (jquery-1.12.3.min.js) minified version from http://www.jquery.com

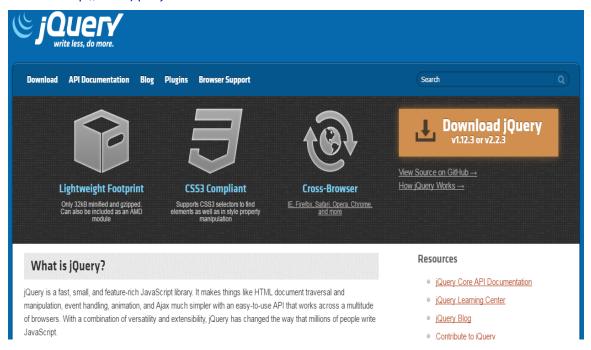


Figure 1: jquery.com

Step 2: Create a folder named scripts under jQueryDemos in C:\ or D:\ and place the downloaded script there.



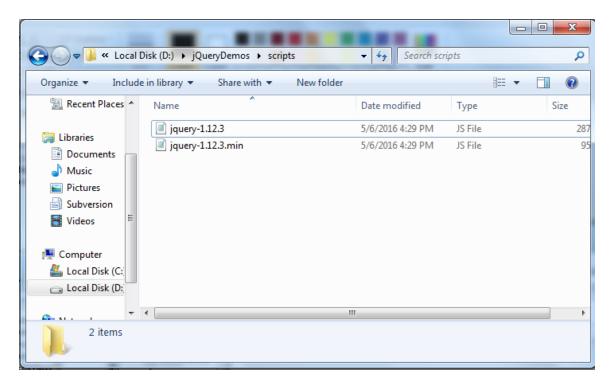


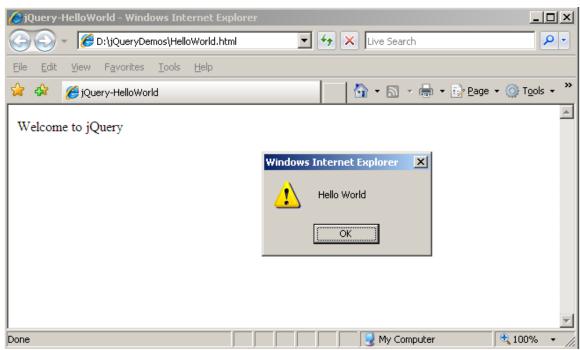
Figure 2: jQuery Folder Structure

Step 3: Open any text editor like notepad and type the following code and save it with .html extension in jQueryDemos folder.

```
*new 4 - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
1 <! DOCTYPE html>
  2 <html>
  3 <head>
  4 <title>jQuery-HelloWorld</title>
  5<script type="text/javascript" src=scripts/jquery-1.12.3.js></script>
  6<script type="text/javascript">
        $ (document) . ready (SayHello);
  8
  9
        function SayHello()
 10
        {
 11
            alert("Hello World");
 12
        }
 13 </script>
 14 </head>
 15 </html>
```

Figure 3: Save contents as an .html file





Step 4: Open the file which we have saved, in browser. Output will appear as shown in the following figure:

Figure 4: HelloWorld.html in a browser

1.2: Accessing jQuery Script from CDN

Create a jQuery web page and access the jQuery script from Google

Solution:



Figure 5 Accessing Script from CDN

Step 2: Output will appear as shown in the following figure:

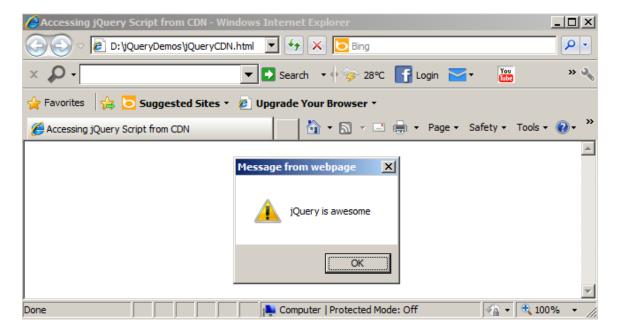


Figure 6 jQueryCDN.html in browser





Lab 2. jQuery Selectors

	 At the end of this lab session, you will be able to perform the following topics using jQuery Selectors: Selecting nodes using Tag Name 	
Goals	 Selecting Nodes by ID Selecting Nodes by Class Name 	
	Selecting Nodes by Attribute Value	
	Selecting Input Nodes	
Time	60 minutes	

2.1: Selecting Nodes using tag name

Create a jQuery web page and select all the paragraphs apply blue background and white foreground to it. Select the paragraphs under div tag and change the text in that paragraph to uppercase. Navigate through all the paragraphs and print the contents within it in a message box

Solution:

```
//Navigating though all paragraph tags and print the contents within it using
//message box
      var collection = $('div,p');
      paragraphs.each(function(){
      alert($(this).html());
       });
});
</script>
</head>
<body>
First Paragraph
Second Paragraph
<div>
First Paragraph - inside div tag 
Second Paragraph - inside div tag 
</div>
</body>
</html>
```

Step 2: Output will appear as shown in the following figure

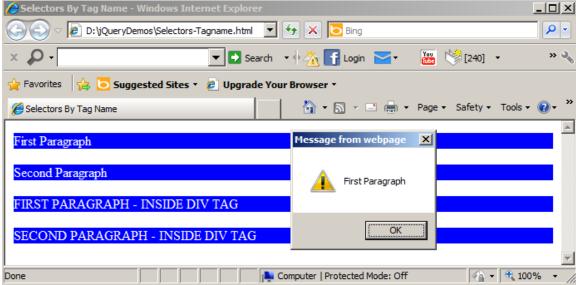


Figure 7 Selectors-TagName.html in browser



2.2: Selecting Nodes by Element ID

Create a jQuery web page to retrieve the contents from one div tag in html format and apply the retrieved content into another div tag in text format

Solution:

```
<html>
<head>
<title>Selectors By ElementID</title>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(document).ready(function()
{
       //Retrieving the content from testDiv in html format
       var data = $('#testDiv').html();
       //Applying the content to targetDiv in text format
       $('#targetDiv').text(data);
});
</script>
</head>
<body>
<div id="testDiv">
<br/>
<br/>b>This is my Test Div text</b>
</div>
<div id="targetDiv" />
</body>
</html>
```

Step 2: Output will appear as shown in the following figure



Figure 8 Selectors-ID.html in browser

2.3: Selecting Nodes by Class Name

Create a jQuery web page to apply styles to the elements that don't match a specific selector

Solution:

```
<html>
<head>
<title>Selectors using class Name</title>
<style type="text/css">
.blueDiv{background-color:blue; color:white;}
.redDiv{background-color:red; color:white;}
</style>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(function() {
      //Selects divs that do not have the class 'redDiv' using not filter
      var collection = $('div:not(.redDiv)');
      collection.css('border','5px solid green');
      collection.css('padding','5px');
});
</script>
</head>
<body>
<div class="blueDiv">
First BlueDiv - Paragraph.
</div>
<div class="redDiv">
First RedDiv - Paragraph.
</div>
<div class="blueDiv">
Second BlueDiv - Paragraph.
</div>
</body>
</html>
```

Step 2: Output will appear as shown in the following figure

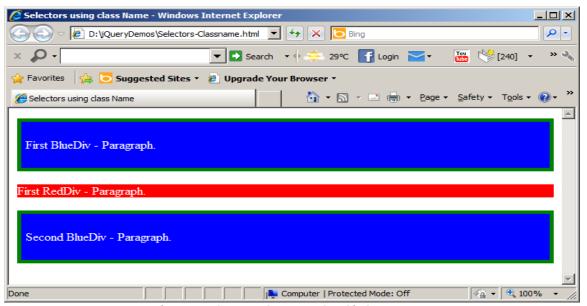


Figure 9 Selectors-Classname.html in browser

2.4: Selecting Nodes by Attribute Value

Create a jQuery web page to select elements based on attributes (input) and attributes values (text) and apply styles to it.

Solution:

```
<html>
<head>
<title>Selectors By Attributes</title>
<style type="text/css">
.applyStyles {color:white;background-color:black;text-transform:uppercase;}
</style>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
     $(function() {
           var textBoxes = $('input[type="text"]');
           textBoxes.addClass("applyStyles");
     });
</script>
</head>
<body>

<span>Name : </span>
<span>City:</span>

</body> </html>
```

Step 2: Output will appear as shown in the following figure



Figure 10 Selectors-attributes.html in browser

2.5: Selecting Form Elements by type

Create a jQuery web page to select the checked radio button and display its index position and value

Solution:

```
<html>
<head>
<title>Input Selectors</title>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(document).ready(function()
      var $radChecked = $(':radio:checked');
      $("#targetDiv").text(")
      .append("<b>Index: </b>" +$radChecked.index() + "<br/>")
      .append("<b>Value: </b>" +$radChecked.val());
});
</script>
</head>
<body>
<input type="radio" name="gender" value="Male">Male
<input type="radio" name="gender" value="Female"</pre>
checked="checked">Female
<div id="targetDiv" />
</body>
</html>
```

Step 2: Output will appear as shown in the following figure

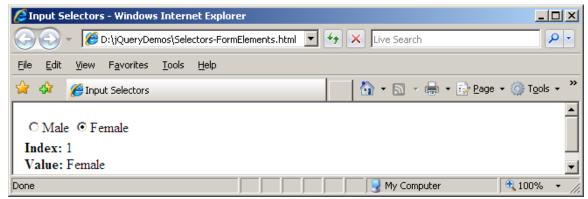
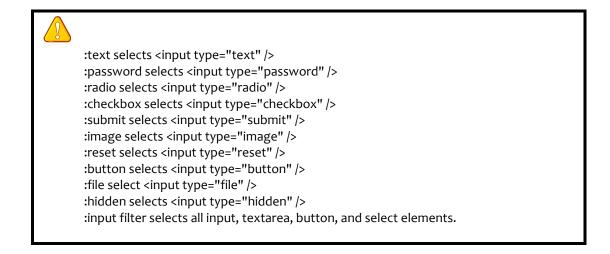


Figure 11 Selectors-FormElements.html in browser



TODO Assignments

Assignment-1: Use the following html code snippet

```
<thead>
State
Capital
</thead>
Andhrapradesh
Hyderabad
Karnataka
Bangalore
Maharashtra
Mumbai
Tamilnadu
Chennai
<div id="StatesDiv"></div>
<div id="CapitalDiv"></div>
```

- Retrieve the states from the table and print the states in ordered list
- Retrieve the 4th State's Capital and print it

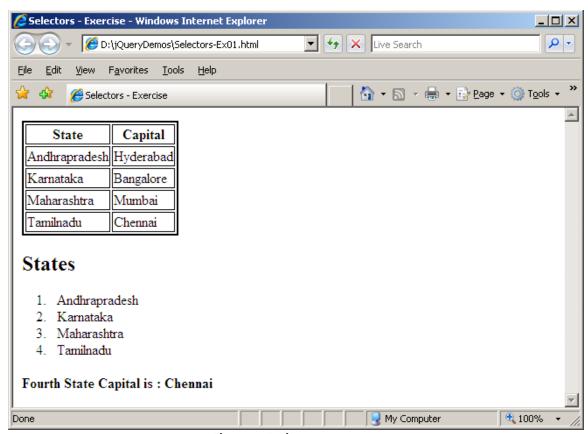


Figure 12 Assignment output

Lab 3. Working with JSON

Goals	 At the end of this lab session, you will be able to Work with JSON Object Using JSON in jQuery 	
Time	20 minutes	

3.1: Working with JSON Object

Create a webpage to store the employee details as JSON Object and retrieve the employee details and print it

Solution:

```
<html>
<head>
<title>JSON Introduction</title>
<script type="text/javascript">
var jsonObject = {"EmployeeID":714709, "Name":"Karthik M",
"Department": "Training", "ISContract": false}
var parsedJson = eval(jsonObject);
var contractEmployee = ""
if(parsedJson.ISContract)
contractEmployee = "Yes";
else
contractEmployee = "No";
var result = "
EmployeeIDName
DepartmentContract Employee"
           +""+parsedJson.EmployeeID+""
           +""+parsedJson.Name+""
           +""+parsedJson.Department+""
           +""+contractEmployee+""
           +"";
document.write(result);
</script>
</head>
<body>
</body>
</html>
```



Step 2: Output will appear as shown in the following figure



Figure 13 JSON-Intro.html in browser

3.2: Working with JSON Object and Array

Create a webpage to illustrate the usage of JSON object and Array types

Solution:

```
<html>
<head>
<title>JSON Array and Object</title>
<script type="text/javascript">
var jsonObject = {"EmployeeID":"714709","Name":"Karthik",
 "office":{
       "company": "Capgemini",
       "city": "Bangalore"
 "Hobbies":["Programming","Music"]
var parsedJson = eval(jsonObject);
var result = "Name : "+parsedJson.Name+"<br/>br/>Company :
"+parsedJson.office.company+"<br/>br/>Hobby :
"+parsedJson.Hobbies[0];
document.write(result);
</script>
</head>
<body>
</body>
</html>
```



Step 2: Output will appear as shown in the following figure



Figure 14 JSON-Array-Object.html in browser

3.3: Using JSON object in jQuery

Create a jQuery webpage to format a div tag with some list of css properties in JSON format.

Solution:

```
<html>
<head>
<title>Using JSON in jQuery</title>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(document).ready(function()
       var collection = $('#targetDiv');
       //using JSON to avoid Method chaining
       collection.css({"border":"5px solid green",
                                      "padding":"10px",
                                      "background-color": "blue",
                                      "color": "white",
                                     "font-size": "24pt",
                                     "font-family": "verdana",
                                     "font-weight": "bold",
                                     "text-transform": "uppercase"
                               });
});
</script>
</head>
```

```
<br/>
<br/>
<br/>
div id="targetDiv"><br/>
Using JSON in jQuery<br/>
</div><br/>
<br/>
<br/>
/body><br/>
</html>
```

Step 2: Output will appear as shown in the following figure



Figure 15 JSON-jQuery.html in browser

Lab 4. Interacting with DOM

Goals	At the end of this lab session, you will be able to
	Perform DOM Manipulations
	Interact with DOM elements using jQuery
Time	30 minutes

4.1: Iterate Nodes using jQuery

Create a jQuery webpage to iterate through the DOM tree using jQuery

Solution:

```
<html>
<head>
<title>DOM Iterations</title>
<style type="text/css">
.main{background-color:blue;color:white}
.company{background-color:yellow;color:black}
.sales{background-color:crimson;color:white}
.hr{background-color:green;color:white}
.training{background-color:brown;color:white}
</style>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(document).ready(function()
       var main = $("#mainDiv").children();
       var company = $("#company").children();
       $("#targetDiv").append("<h2> MainDiv has "+main.length+"
children</h2>");
       $("#targetDiv").append("<h2> Company has "+company.length+"
children(s)</h2>");
       var result="";
       $(company).each(function(index)
       {
              result+=index+" "+$(this).text()+"<br/>";
       });
       $("#targetDiv").append("<h2>"+result+"</h2>");
});
</script>
</head>
```

```
<body>
<div id="mainDiv" class="main">Main
      <div id="company" class="company">Capgemini
             <div id="sales" class="sales">Sales Team</div>
             <div id="hr" class="hr">HR Team</div>
             <div id="training" class="training">Training</div>
      </div>
</div>
<div id="targetDiv"></div>
</body>
</html>
```

Step 2: Output will appear as shown in the following figure



Figure 16 DOM-Iteration.html in browser

4.2: Sort list items using jQuery

Create a jQuery webpage to sort list items and attach style (change the list item bullet to icon) to the sorted list using jQuery





Solution:

```
<html>
<head>
<title>Sorting list items using jQuery</title>
<style type="text/css">
.java{
list-style-image:url('images/java.png');
</style>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(document).ready(function()
      if(confirm('Are you sure to sort these JEE technologies?'))
             //Applying JavaScript built-in sort() function
             var sortedjava = $('.ilearn menu li').sort(function(o, n) {
             return (0).text() < (n).text() ? -1 : 1;
             });
             //Applying Style
             sortedjava.addClass('java');
             //Removing Node
             $('#sourceDiv').remove();
             //Appending the sorted data in targetDiv
             $('#targetDiv').append(sortedjava);
       }
});
</script>
</head>
<body>
<div id="sourceDiv">
Struts
JSP
Servlets
EJB
RMI
</div>
<div id="targetDiv"></div>
</body>
</html>
```

Step 2: Output will appear as shown in the following figure

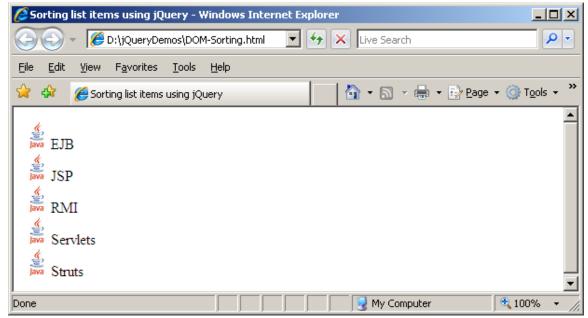


Figure 17 DOM-Sorting.html in browser

Note: Save this image under D:\jQueryDemos\images

Stretched Assignments

Assignment-1: Sort the same list listed above in descending order



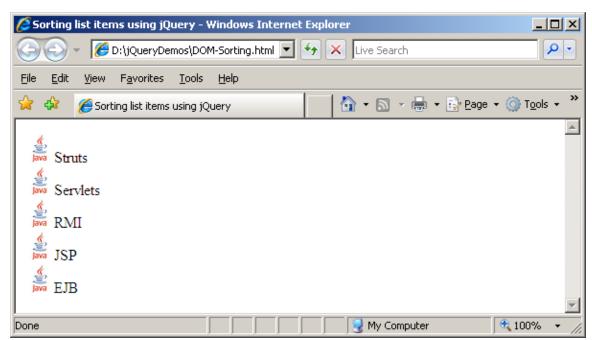


Figure 18 Sorting list items in descending order

TODO Assignments

Assignment-1: Create an unordered list like given below detach mainframe technologies list from last and add it before dotnet technologies

```
HTML Code
                                                 Before Detaching
<div>

    Dotnet Technologies

    CSHARP

   Dotnet Technologies

    ASP.NET

       <u1>

    JEE Technologies

           <1i>CSHARP</1i>
                                                     o RMI
           <1i>ASP.NET</1i>

    Servlet

       </u1>
                                                 • MainFrame Technologies
   o JCL
   class="jee">JEE Technologies
                                                     o COBOL
       <u1>
           <1i>RMI</1i>
                                                 After Detaching
           Servlet
       </u1>

    MainFrame Technologies

   o JCL
   MainFrame Technologies

    COBOL

                                                • Dotnet Technologies
           <1i>JCL</1i>

    CSHARP

           <1i>COBOL</1i>

    ASP.NET

    JEE Technologies

   o RMI
</u1>

    Servlet

</div>
```

Figure 19 DOM Assignment

Lab 5. Handling Events

At the end of this lab session, you will be able to
Handle events in jQuery
Perform animations using jQuery
90 minutes
-

5.1: Adding and Removing Style at runtime using Click Event

Create a jQuery webpage to add and remove style from div tag when a button is clicked

Solution:

```
<html>
<head>
<title>Click Event</title>
<style type="text/css">
.custom{background-color:blue;color:white;font-size:24pt;border:10px solid green}
</style>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(document).ready(function()
       $('#btnAddRemove').click(function(){
              $('#targetDiv').toggleClass('custom');
       });
});
</script>
</head>
<body>
>
<input type="button" id="btnAddRemove" value="Add Style / Remove Style"/>
<div id="targetDiv">
Div tag formatted with CSS Style
</div>
</body>
</html>
```



Step 2: Output will appear as shown in the following figure

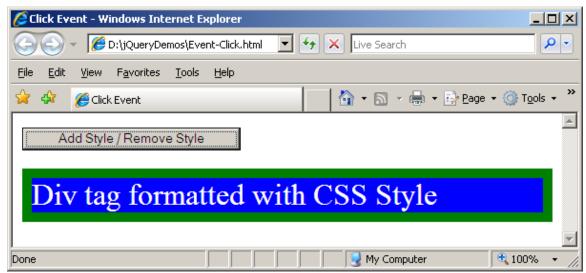


Figure 20 Event-Click.html in browser

5.2: Preventing Cut-Copy-Paste in textbox

Create a jQuery webpage which prevent Cut, Copy, Paste operations in a textbox

Solution:

```
<html>
<head>
<title>Preventing Cut-Copy-Paste</title>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(document).ready(function()
{
               $('input[id="txtSample"]').bind('cut copy paste', function(e) {
                      e.preventDefault();
                      alert('You cannot ' + e.type + ' text!');
               });
});
</script>
</head>
<body>
<div>
Special Textbox : <input id="txtSample" type="text"/>
</div>
</body>
</html>
```



Step 2: Output will appear as shown in the following figure



Figure 21Event-Cut-Copy-Paste.html in browser

5.3: Identifying mouse button

Create a jQuery webpage and identify which mouse button is pressed in the specified target

Solution:

```
case 1:
                              alert('Left mouse button pressed');
                              break;
                      case 2:
                              alert('Middle mouse button pressed');
                              break;
                      case 3:
                              alert('Right mouse button pressed');
                              break;
                      default:
                              alert('You have a strange mouse');
               }
       });
});
</script>
</head>
<body>
<div id="targetDiv" class="custom">
Click here to know which mouse button is pressed
</div>
</body>
</html>
```

Step 2: Output will appear as shown in the following figure

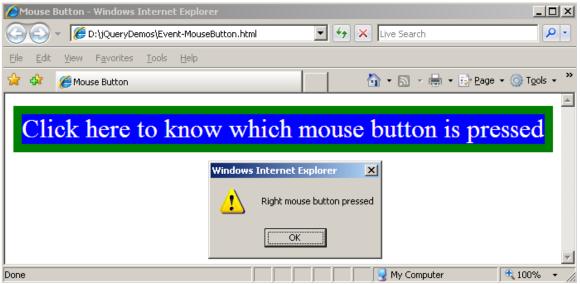


Figure 22 Event-MouseButton.html in browser



5.4: Limiting number of characters in textarea

Create a jQuery webpage which limits the number of character in textarea

Solution:

```
<html>
<head>
<title>Limiting number of characters in textarea</title>
<style type="text/css">
.custom{background-color:red}
</style>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(document).ready(function()
{
       var limit = 25;
       var $tb = (\#comments');
       $tb.keyup(function(e) {
               var len = $(this).val().length;
               if (len > limit)
                      this.value = this.value.substring(0, limit);
               else
                      $('#charLeft').text(limit - len + " characters left");
       });
});
</script>
</head>
<body>
<div>
<h2>Type into this textbox which accepts 25 characters overall</h2>
<textarea id="comments" rows="5" cols="40"></textarea>
<br/>br/>
<span id="charLeft"></span>
</div>
</body>
</html>
```

Step 2: Output will appear as shown in the following figure

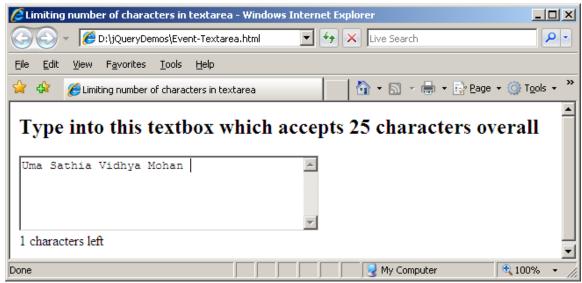


Figure 23 Event-Text area. html

5.5: Check/Uncheck all checkboxes at once

Create a jQuery webpage which Check/Uncheck all checkboxes at once

Solution:

```
<html>
<head>
<title>Check/Uncheck all checkboxes at once</title>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(document).ready(function()
       var $chkBox = $("input:checkbox[id$=chkAll]");
       var $tblChkBox = $("table.chk input:checkbox");
       $chkBox.click(function() {
              $tblChkBox.attr('checked', $chkBox.is(':checked'));
       });
       // Unchecks chkAll when a checked CheckBox in cbList is unchecked
       $tblChkBox.click(function(e) {
              if (!$(this)[0].checked) {
                      $chkBox.attr("checked", false);
       });
});
</script></head>
```

```
<body>
<div class="smallDiv">
<h2>Check/Uncheck all checkboxes at once</h2><br/>br/>
<span title="Click here to check/uncheck all checkboxes at once">
<input id="chkAll" type="checkbox" name="chkAll" /><label>Do All</label>
</span>
<br/>/><hr/>
<input id="cbList0" type="checkbox" name="cbList0" /><label>Option
One</label>

<input id="cbList1" type="checkbox" name="cbList1" /><label>Option
Two</label>
<input id="cbList2" type="checkbox" name="cbList2" /><label>Option
Three</label>
<input id="cbList3" type="checkbox" name="cbList3" /><label>Option
Four</label> 
</div>
</body>
</html>
```

Step 2: Output will appear as shown in the following figure

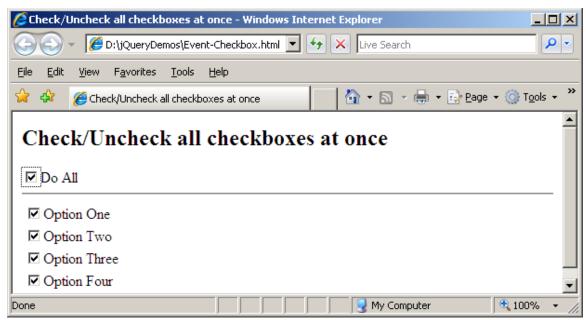


Figure 24 Event-Checkbox.html in browser

5.6: Event Triggering

Create a jQuery webpage which illustrates Event triggering (Invoke the second button Click event when the first button is clicked)

Solution:

```
<html>
<head>
<title>Event Trigger</title>
<script type="text/javascript" src="scripts/jquery-1.12.3.min.js"></script>
<script type="text/javascript">
$(document).ready(function()
       $('#btnSecond').click(function(){
              alert('Second Button Clicked');
       });
       $('#btnFirst').click(function(){
              $('#btnSecond').trigger("click");
       });
});
</script>
</head>
<body><div>
<input id="btnFirst" type="button" value="First" />
<input id="btnSecond" type="button" value="Second" />
</div></body>
</html>
```

Step 2: Output will appear as shown in the following figure

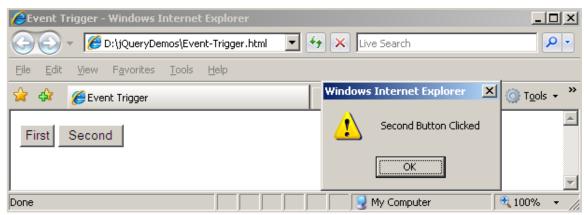


Figure 25 Event-Trigger.html in browser

TODO Assignments

Assignment-1: Create a jQuery webpage to Change the URL of a Hyperlink from google.com to bing.com and disable the button once it is clicked

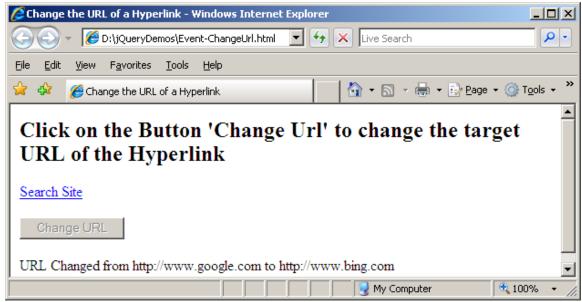


Figure 26 Assignment Output

Appendices

Appendix A: Coding Best Practices

Assign selectors to local variables instead of overusing it

```
$('#button').click(function()
{
          $('#label').method();
          $('#label').method2();
}
```

```
$('#button').click(function()
{
     var $label = $('#label');
     $label.method();
     $label.method2();
}
```

Best way is using chaining

```
$('#button').click(function()
{
      $('#label').method().method2();
}
```

All variables that are used to store/cache jQuery objects should have a name prefixed with a '\$'.

```
var $MyTable = $("#MyTable");
```

Manipulation of the Document Object Model (DOM) can be costly and inefficient, regardless of whether it is undertaken through jQuery or JavaScript.

```
var $myList = $("#myList");
```



```
for (i=0; i<1000; i++){
    $myList.append("This is list item " + i);
}
```

This code adds 1000 lines to an HTML list. This is done with 1000 successive calls to the .append() method, and hence, 1000 manipulations to the DOM. Code needs to be rewritten as given below

```
var $myList = $("#myList");
var li = "";
for (i=0; i<1000; i++){
    li += "<li>This is list item " + i + "
}
$myList.append(li);
```

Declare the styles in a class within a CSS StyleSheet file and use .addClass(), .removeClass() or .toggleClass() upon your selecteded object(s). For example, avoid this type of declaration:

```
$("#MyTR").css({
  "background-color":"gray"
});
```

Use instead:

```
$("#MyTR").addClass("HighlightRow");

/*In CSS File:*/
.HighlightRow
{
  background-color:gray;
}
```

Use #ID selector wherever possible. It is the fastest. Ensure slower selectors are optimized for performance – Combine them with faster selectors where possible.

//Inefficient: scans DOM for all elements with oddrows class



```
$(".oddRows");

//More efficient: Searches only  with oddrows class
$("tr.oddRows");

//More efficient: searches descendents of #MyTable
$("#MyTable tr.oddRows");

//Best: searches immediate children
$("#MyTable>tbody>tr.oddRows");
```

Don't use bare class selectors, like given below, this will end up looking at every single element to see if it has a class of "button".

```
$('.button').click(function() { /* do something */ });
//Instead use this
$('span.button').click(function() { /* do something */ });
```

Return 'false' to prevent default behavior

```
//use this

$('popup').click(function(){
    // Launch popup code
    return false;
});

//instead of this

$('popup').click(function(){
    // Launch popup code
});
```

While using \$.ajax function for Ajax requests to server, you should avoid using the complete event to process response data. It will fire whether the request was successful or not. Rather than complete, use success.

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