# Lesson 04 – Event handling with JQuery

# Session 1 Worksheet

Resources: <http://www.w3schools.com/jquery/jquery_ref_events.asp>

<http://www.w3schools.com/jquery/jquery_ref_effects.asp>

# Exercise 1:

Using Netbeans, create a project called C273\_L04ToDoList. Create a new HTML file named **exercise1a.html** to write the jQuery code to change the header text from “Heading 1” to “Hello World” upon clicking the [**Change Heading 1**] button .

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| **1**  **2**  **3**  **4**  **5**  **6**  **7**  **8**  **9**  **10**  **11**  **12**  **13**  **14**  **15**  **16**  **17**  **18**  **19**  **20**  **21**  **22**  **23**  **24**  **25**  **26** | <!DOCTYPE html>  <html>  <head>  <title>Exercise 3</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <script>  $(document).ready(function () {  $("#btn1").click(function () {  $("#heading1").text("Hello World");  });  });  </script>  <style>  .required { color: #FF0000; }  </style>  </head>  <body>  <h1 id="heading1">Heading 1</h1>  <p id="magic">Point your mouse pointer here!!!</p>  <input type="button" id="btn1" value="Change Heading 1">  </body>  </html> |

Line 7 – Link the document to the jQuery library hosted in the Content Delivery Network (CDN) in google.

Line 9 – All jQuery code is inside a document ready event. This is to prevent any jQuery code from running before the document is finished loading (is ready).

Line 11 – $("#btn1") retrieves the element of id “btn1”, which is the <input> element in Line 24. click() method is used handle button clicks to this selector.

Line 12 – $("#heading1") retrieves the element of id “heading1”, which is the <h1> element in Line 22. text() method is used to change the text contents of that selector.

Run it to test out the desired effect.

**TODO:** Copy and paste exercise1a.html to create a duplicate file and rename the duplicate file as **exercise1b.html**. Extend exercise1b.html with jQuery code to do the following:

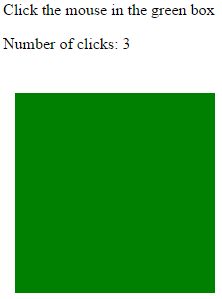
* Change the colour of the paragraph text “Point your mouse pointer here!!!” from black to red (Use the style class “required”), when the mouse is over the text.
* When the mouse is over the button,
  + Replace the text of [Replace] button with “Hello World” and
  + Make the “Heading 1” text disappear and
  + Replace the paragraph text “Point your mouse pointer here!!!” with the fontawesome icon , when the mouse is over the [**Replace with icon**] button

# jQuery Code

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# Exercise 2a:

Create a new HTML file named **exercise2a.html** and write the jQuery code to display the number of clicks in the green box.



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**Hint:**

* Create a global variable “num” and initialise it to 0.
* Create a click() event listener on the selector “.greenbox”,
  + Increase the value of “num” by 1
  + Use the html() method on the selector “#numClicks” to display the value of “num”

**Challenge**: Show total number of left or right clicks. Use a contextmenu() event listener for right click.

# jQuery Code

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# Exercise 2b:

Create a new HTML file named **exercise2b.html** and write the jQuery code to increase or decrease the quantity by 1 depending whether the user clicks “-1” or “+1”.



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| **1**  **2**  **3**  **4**  **5**  **6**  **7**  **8**  **9**  **10**  **11**  **12**  **13**  **14**  **15**  **16**  **17**  **18**  **19**  **20**  **21**  **22**  **23**  **24**  **25**  **26**  **27**  **28**  **29**  **30**  **31**  **32**  **33**  **34**  **35**  **36**  **37**  **38**  **39**  **40**  **41**  **42**  **43**  **44**  **45**  **46**  **47**  **48**  **49**  **50**  **51**  **52**  **53**  **54**  **55**  **56** | <!DOCTYPE html>  <html>  <head>  <title>Exercise 2a</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <style>  input {  font-size: 2.4em;  background-color: transparent;  text-align: center;  border-width: 0;  width: 100%;  margin: 0 0 .1em 0;  color: #fff;  }  label {  display: block;  font-size: .8em;  }  button {  color: #444;  background-color: #B5B198;  border-radius: 6px;  font-weight: bold;  }  .box {  background-color: #444;  color: #C4BE92;  text-align: center;  border-radius: 12px;  padding: .8em .8em 1em;  width: 8em;  margin: 0 auto;  box-shadow: 0px 0px 12px 0px #000;  }  </style>  <script>  $(document).ready(function () {  });  </script>  </head>  <body>  <div class="box">  <label for="qty"><abbr title="Quantity">Qty</abbr></label>  <input id="qty" value="0" />  <button id="down" >-1</button>  <button id="up" >+1</button>  </div>  </body>  </html> |

**Hint:**

* Create a global variable “num” and initialise it to 0.
* Create a click() event listener on the selector “#down”,
  + Decrease the value of “num” by 1
  + Use the val() method on the selector “#qty” to display the value of “num”
* Try repeating the above steps for selector “#up”

# jQuery Code

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# Exercise 2c:

Create a new HTML file named **exercise2c.html** and write the jQuery code to display the selected Pizza Toppings in the text area when the user checks each topping.

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|  | When the user clicks on the Submit button, the following alert will pop-up    The user confirms by clicking the “OK” button, and the following alert will pop-up. Otherwise, the form will not be submitted.    Upon clicking the “OK” button, it informs that the form is submitted. |

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| **1**  **2**  **3**  **4**  **5**  **6**  **7**  **8**  **9**  **10**  **11**  **12**  **13**  **14**  **15**  **16**  **17**  **18**  **19**  **20**  **21**  **22**  **23**  **24**  **25**  **26**  **27**  **28**  **29**  **30**  **31**  **32**  **33**  **34**  **35**  **36**  **37**  **38**  **39**  **40** | <!DOCTYPE html>  <html>  <head>  <title>Exercise 2c</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <script>  $(document).ready(function () {    });  </script>  </head>  <body>  <div class="container">  <br/>  <form id="pizzaform">  <div class="form-group">  <label>Pick your pizza toppings:</label>  </div>  <div class="checkbox">  <label><input type="checkbox" value="Tomatoes"> Tomatoes</label><br/>  <label><input type="checkbox" value="Salami"> Salami</label><br/>  <label><input type="checkbox" value="Pineapple"> Pineapple</label><br/>  <label><input type="checkbox" value="Canadian bacon"> Canadian bacon</label><br/>  <label><input type="checkbox" value="Anchovies"> Anchovies</label><br/>  <label><input type="checkbox" value="Extra Cheese"> Extra Cheese</label>  </div>  <div class="form-group">  <label for="results">Pizza Toppings:</label>  <textarea id="results" rows="10" cols="20" class="form-control"></textarea>  </div>  <img src="images/PizzaMan.gif" alt=""/><br/><br/>  <input type="submit" class="btn btn-default" value="Submit"/>  </form>  </div>  </body>  </html> |

**Hint:**

* Create a click() event listener on the selector “[type=checkbox]”,
  + Select all the checked option and loop through each one with the each() method.
  + Use the val() method on the current checkbox being selected $(this) in order to retrieve the topping. Concatenate the current topping to a string.
  + Display the toppings on the selector “#results” using the val() method.
* Create a submit() event listener on the selector “#pizzaform”,
  + Use the val() method on the selector “#results” in order to retrieve the existing value in the text area.
  + Call the confirm() method to request for user’s input
    - If yes, call the alert() method with the “Order submitted” message
    - Otherwise, prevent the form from submitting

# jQuery Code

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**Exercise 2d:**

Create a new HTML file named **exercise2d.html** and write the jQuery code to do the following:

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|  | * Click on the “+” icon to hide the “Add New Todo” text field. Click it again to show it. * User fills up the “Add New Todo” text field and hits the “Enter” key to insert the new todo in the list below. * User clicks on the trash icon to remove that item from the list. * User clicks on any list item to cross out that item (i.e. mark as completed) |

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| **1**  **2**  **3**  **4**  **5**  **6**  **7**  **8**  **9**  **10**  **11**  **12**  **13**  **14**  **15**  **16**  **17**  **18**  **19**  **20**  **21**  **22**  **23**  **24**  **25**  **26**  **27**  **28**  **29**  **30**  **31**  **32**  **33**  **34**  **35**  **36**  **37**  **38**  **39**  **40**  **41**  **42**  **43**  **44**  **45**  **46**  **47**  **48**  **49**  **50**  **51**  **52**  **53** | <!DOCTYPE html>  <!--  To change this license header, choose License Headers in Project Properties.  To change this template file, choose Tools | Templates  and open the template in the editor.  -->  <html>  <head>  <title>Exercise 2c</title>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"/>  <script src="js/jquery-3.5.1.min.js" type="text/javascript"></script>  <link href="css/all.min.css" rel="stylesheet" type="text/css"/>  <script>  $(document).ready(function () {  $(".fa-plus").click(function () {  });  $("input[type='text']").keypress(function (event) {  });  $("table").on("click", ".btn-danger", function (event) {  });  $("table").on("click", "tr", function () {  });  });  </script>  <style>  .completed{  }  </style>  </head>  <body>  <div class="container">  <h3 class="bg-info">TODO List <i class="fa fa-plus"></i></h3>  <form class="form-inline" action="#">  <div class="form-group">  <input type="text" id="todo" class="form-control"/>  </div>  </form>  <table id="todolist" class="table table-striped table-bordered">  </table>  </div>  </body>  </html> |

# jQuery Code

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