

UNIVERSITI MALAYSIA TERENGGANU

CSM3103 – FRONT-END PROGRAMMING

BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS

LAB 5

SEMESTER II 2023/2024

Prepared for:

DR RABIEI BIN MAMAT

Prepared by:

MUHAMMAD NOR IQBAL BIN ABDUL RAUF

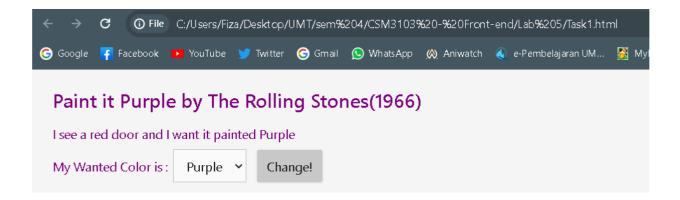
(S67614)

Link Github:

https://github.com/0pSinon/CSM3103-Lab5-S67614-Iqbal-Rauf-

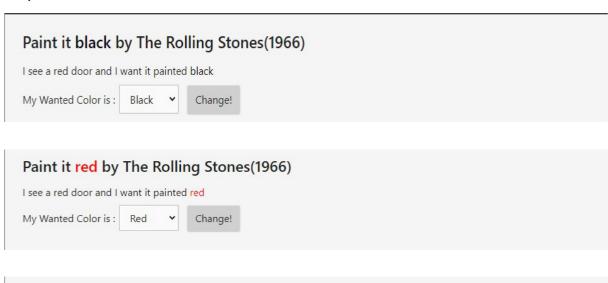
```
<html>
 <head>
  <title>Lab 5 : Task 1</title>
  <meta charset="utf-8">
  <script
   src="https://code.jquery.com/jquery-3.1.1.js"
   integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
   crossorigin="anonymous"></script>
  k rel="stylesheet" href=
   "https://cdnjs.cloudflare.com/ajax/libs/mini.css/2.0.2/mini-default.css">
  <style>
   body { margin: 20px; }
   #color_change { border: 1px solid; }
   .cow_color { font-weight: bold; }
  </style>
  <script>
  $(document).ready(function() {
   var button = $('#button_change');
     $(button).click(function(){
      var input color = $('#input color');
      var input_value = $(input_color).val();
      var element = $('.door_color');
      $(element).html(input_value);
      $('body').css('color', input_value);
   });
  });
  </script>
 </head>
 <body>
  <h2> Paint it <span class="door_color">Black</span> by The Rolling
Stones(1966)</h2>
  I see a red door and I want it painted <span class="door_color">Black</span>
  My Wanted Color is :
   <input id="input_color" value="Purple"></input>
   <button id="button_change">
    Change!
   </button>
```

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



```
<html>
 <head>
  <title>Lab 5 : Task 1 - select colour</title>
  <meta charset="utf-8">
  <script
   src="https://code.jquery.com/jquery-3.1.1.js"
   integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
   crossorigin="anonymous"></script>
  k rel="stylesheet" href=
   "https://cdnjs.cloudflare.com/ajax/libs/mini.css/2.0.2/mini-default.css">
  <stvle>
   body { margin: 20px; }
   #color_change { border: 1px solid; }
   .cow_color { font-weight: bold; }
  </style>
  <script>
  $(document).ready(function() {
    $('#button_change').click(function(){
    var selectedColor = $('#select_color').val();
    $('.door color').html(selectedColor);
    $('.door color').css('color', selectedColor);
   });
  });
  </script>
 </head>
 <body>
  <h2> Paint it <span class="door_color">Black</span> by The Rolling
Stones(1966)</h2>
  I see a red door and I want it painted <span class="door_color">Black</span>
  My Wanted Color is :
     <select id = "select_color">
       <option value ="black">Black</option>
       <option value ="red">Red</option>
       <option value ="green">Green</option>
       <option value ="blue">Blue</option>
       <option value ="purple">Purple</option>
     </select>
   <but><button id="button_change"></br>
     Change!
```









Paint it purple by The Rolling Stones(1966)

I see a red door and I want it painted purple

My Wanted Color is : Purple 🕶

Change!

```
<!doctype html>
<html>
 <head>
  <title>Lab 5: Task 2</title>
  <meta charset="utf-8">
  k rel="stylesheet" href=
   "https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <style>
   #boxes { margin-top: 50px; float: left; width: 100%; }
   #toggles { float: left; width: 100%; margin-top: 10px; }
   #info { float: left; margin-top: 5px; }
   .box { width: 50px; height: 50px; float: left; }
   .outlined { border: 2px solid black; }
   .round-edge { border-radius: 15px; }
   .teal { background-color: teal; }
  </style>
  <script
   src="https://code.jquery.com/jquery-3.1.1.js"
   integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
   crossorigin="anonymous"></script>
  <script>
  var colorTeal = "rgb(57, 204, 204)";
  $(document).ready(function(){
   var colorTeal = "rgb(57, 204, 204)";
   var originalBackgroundColor = "";
   $('#button_toggle_colors').click(function(){
     // Check the background color of the first box to determine the current state
     var box1 = \$('\#box1');
     if (originalBackgroundColor === "") {
       // Save the original background color if it hasn't been saved yet
       originalBackgroundColor = $(box1).css('background-color');
     }
     // Toggle background color of all boxes
     $('.box').each(function(){
       if ($(this).css('background-color') === colorTeal) {
          $(this).css('background-color', originalBackgroundColor):
       } else {
          $(this).css('background-color', colorTeal);
    });
  });
  $('#button_toggle_roundedges').click(function(){
```

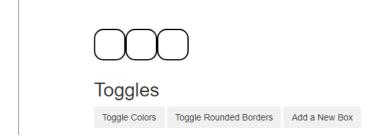
```
$(".box").toggleClass('round-edge');
  });
  $('#button_add_box').click(function(){
     // Create a new box and append it to the boxes container
     var newBox = $('<div class="box outlined"></div>');
     $('#boxes').append(newBox);
  });
});
  var new box = document.createElement('div');
  var existingBoxes = $(".box").length;
  var nextBoxId = existingBoxes+1;
  $(new_box).attr("id","box"+nextBoxId);
  $(new_box).addClass("box");
  $(new_box).addClass("outlined");
  $("#boxes").append(new_box);
  </script>
 </head>
 <body>
  <div class="container">
   <div id="boxes">
     <div id="box1" class="box outlined"></div>
     <div id="box2" class="box outlined"></div>
     <div id="box3" class="box outlined"></div>
    </div>
   <div id="toggles">
     <h2>Toggles</h2>
     <button class="btn" id="button_toggle_colors"
      >Toggle Colors</button>
     <button class="btn" id="button_toggle_roundedges"</pre>
      >Toggle Rounded Borders</button>
     <button class="btn" id="button_add_box"
      >Add a New Box</button>
    </div>
  </div>
 </body>
</html>
```



Toggle colour



Toggle Rounded Borders



Add a New Box



Toggles

Toggle Colors Toggle Rounded Borders Add a New Box

```
<!doctype html>
<html>
 <head>
  <title>Lab 5: Task 2 - Modify</title>
  <meta charset="utf-8">
  k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <style>
   #boxes { margin-top: 50px; float: left; width: 100%; }
   #toggles { float: left; width: 100%; margin-top: 10px; }
   #info { float: left: margin-top: 5px: }
   .box { width: 50px; height: 50px; float: left; }
   .outlined { border: 2px solid black; }
   .round-edge { border-radius: 15px; }
   .teal { background-color: teal; }
  </style>
  <script src="https://code.jquery.com/jquery-3.1.1.js" integrity="sha256-</pre>
16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
crossorigin="anonymous"></script>
  <script>
   $(document).ready(function(){
      var colorTeal = "rgb(57, 204, 204)";
      var originalBackgroundColor = "";
      $('#button_toggle_colors').click(function(){
        // Check the background color of the first box to determine the current state
         var box1 = \$('\#box1');
         if (originalBackgroundColor === "") {
           // Save the original background color if it hasn't been saved yet
           originalBackgroundColor = $(box1).css('background-color');
        }
        // Toggle background color of all boxes
         $('.box').each(function(){
           if ($(this).css('background-color') === colorTeal) {
              $(this).css('background-color', originalBackgroundColor);
           } else {
              $(this).css('background-color', colorTeal);
        });
      });
      $('#button_toggle_roundedges').click(function(){
         $(".box").toggleClass('round-edge');
      });
      $('#button_add_box').click(function(){
         // Hide all existing boxes
```

```
$(".box").hide();
        // Randomly select one box to show
        var randomBoxIndex = Math.floor(Math.random() * $(".box").length);
        $(".box").eq(randomBoxIndex).show();
     });
   });
  </script>
 </head>
 <body>
  <div class="container">
   <div id="boxes">
    <div id="box1" class="box outlined"></div>
    <div id="box2" class="box outlined"></div>
    <div id="box3" class="box outlined"></div>
   </div>
   <div id="toggles">
    <h2>Toggles</h2>
    <button class="btn" id="button_toggle_colors">Toggle Colors</button>
    <button class="btn" id="button_toggle_roundedges">Toggle Rounded
Borders</button>
    <button class="btn" id="button_add_box">Add a New Box</button>
   </div>
  </div>
 </body>
</html>
```

Output :							
	Toggles Toggle Colors	Toggle Rounded Borders	Add a New Box	×			_
	Toggles Toggle Colors	Toggle Rounded Borders	Add a New Box	x			_
	Toggles Toggle Colors	Toggle Rounded Borders	Add a New Box	x			
	Toggles Toggle Colors	Toggle Rounded Borders	Add a New Box				

```
<!doctype html>
<html>
 <head>
  <title>Lab 5: Task 3</title>
  <meta charset="utf-8">
  <script
   src="https://code.jquery.com/jquery-3.1.1.js"
   integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
   crossorigin="anonymous"></script>
  <script
   src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"
   integrity="sha256-T0Vest3yCU7pafRw9r+settMBX6JkKN06dqBnpQ8d30="
   crossorigin="anonymous"></script>
  k rel="stylesheet" href=
   "https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.css">
  k rel="stylesheet" href=
   "https://code.jquery.com/ui/1.12.1/themes/ui-lightness/jquery-ui.css">
  <style>
   body {
    margin: 20px;
   #name_input {
    float: left:
    margin-bottom: 20px;
    margin-right: 20px;
   #date_input {
    float: left;
    margin-bottom: 20px;
   #year_input {
    clear:both;
   .rank_color {
    width: 20px;
    margin-top: 2px;
   #selectable .ui-selecting{
    background: #FECA40;
   #selectable .ui-selecting{
    background: #F39814;
    color: white;
   #selectable li:before{
    content: "\2713";
     color:transparent;
```

```
#selectable li.ui-selecting:before{
     content: "\2713";
     color:black;
   #selectable li.ui-selected:before{
     content: "\2713";
     color:white;
   #selectable{
     list-style-type: none;
     margin: 0;
     padding: 0;
     width: 3px;
     cursor: pointer;
   #selectable li{
     margin: 3px;
     padding: 0.4em;
     font-size: 1.0em;
     height: 16px;
   #sortable{
     list-style-type: none;
     margin: 0;
     padding: 0;
     width: 150px;
   #sortable li{
     margin: 0 3px 3px 3px;
     padding: 0.4em;
     padding-left: 1.5em;
     font-size: 1.0em;
     height: 12px;
   }
  </style>
  <script>
  $(document).ready(function() {
$('#date').datepicker();
$("#selectable").selectable();
$("#sortable").sortable();
$("#sortable").disableSelection();
$(document).tooltip({
 item: '[title], [class]',
 position: {my: "left center", at: "right center"},
 content: function(){
  var element = $(this);
  if(element.is('[title]')){
  return element.attr('title');
```

```
if (element.is('[class]')){
   console.log('class', element);
   if (element.hasClass('ui-state-default')){
    var text = element.text();
    return '<div class="color switch" style="background:' + text +'"></div>'
})
});
  </script>
 </head>
 <body>
  <h2>jQuery UI-Survey</h2>
  <h3>General Information</h3>
  <div id="name_input">
   <label for="name">Name:</label>
   <input type="text" id="name">
  </div>
  <div id="date input">
   <label for="date">Date:</label>
   <input type="text" id="date">
  </div>
  <div id="year input">
    <h3>Are you enrolled as an undergraduate or a graduate?</h3>
    <input type="radio" name="enroll_year" id="ugrad" value="ugrad">
    <label for="ugrad">Undergraduate (taking 6.813)</label><br>
    <input type="radio" name="enroll_year" id="grad" value="grad">
    <label for="grad">Graduate (taking 6.831)</label>
    <!-- Step 2: Your HTML here -->
    id="selectable">
     Undergraduate
      Graduate
    </div>
  <div id="color input">
   <!-- Comment out instruction when you finish step 3 -->
    <h3>Rank the colors listed from your most favorite (1)
   to your least favorite (5). Be sure to only use each ranking once.</h3>
   <!-- Comment this part of the form out after step 3 -->
   <input type="text" class="rank_color" id="red">
   <label for="red">#ff0000</label><br/>
   <input type="text" class="rank_color" id="blue">
   <label for="blue">#0000ff</label><br/>
   <input type="text" class="rank_color" id="hot_pink">
   <label for="hot_pink">#ff00b3</label><br/>
   <input type="text" class="rank color" id="mustard">
   <label for="mustard">#ded447</label><br/>
   <input type="text" class="rank_color" id="dark_green">
   <label for="dark_green">#125e18</label><br/>>
```

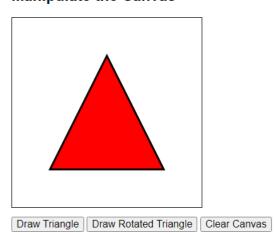
jQuery UI-Survey				
General Information				
Name:	Date:			
Are you enrolled as an u	undergraduate or a ç	graduate?		
Undergraduate (taking 6.81Graduate (taking 6.831)	3)			
Undergraduate				
Graduate				
Rank the colors listed fr	om your most favor	ite (1) to your le	east favorite (5). Be	sure to only use each
ranking once.				
#ff0000				
#0000ff				
#ff00b3				
#ded447				
#125e18				
‡				
#ff0000				
#0000ff				
#ff00b3				
#ded447				
#125e18				

```
<!doctype html>
<html>
 <head>
  <title>Lab 5: Task 4</title>
  <meta charset="utf-8">
  <script
   src="https://code.jquery.com/jquery-3.1.1.js"
   integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
   crossorigin="anonymous"></script>
  <script
   src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"
   integrity="sha256-T0Vest3yCU7pafRw9r+settMBX6JkKN06dqBnpQ8d30="
   crossorigin="anonymous"></script>
  <link rel="stylesheet" href=</pre>
   "https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.css">
  <link rel="stylesheet" href=</pre>
   "https://code.jquery.com/ui/1.12.1/themes/ui-lightness/jquery-ui.css">
   <style>
     body { margin: 20px; }
     #container { display: block; }
     #draw_buttons { float: left; width: 100%; margin-top: 10px; }
   </style>
  <script>
  $(document).ready(function() {
   /* Step 1: Your code goes here */
   var canvas = document.getElementById("myCanvas");
   var ctxt = canvas.getContext('2d');
   /* Step 2: Your js code goes here */
   $("#button_draw_triangle").click(function() {
     ctxt.fillStyle = '#f00';
     ctxt.strokeStyle = '#000';
     ctxt.lineWidth = 3:
     ctxt.beginPath();
     ctxt.moveTo(60, 240);
     ctxt.lineTo(240, 240);
     ctxt.lineTo(150, 60);
     ctxt.closePath();
     ctxt.fill();
     ctxt.stroke();
   /* Step 3: Your js code goes here */
   $("#button_draw_rotated_triangle").click(function() {
     ctxt.translate(canvas.width / 2, canvas.height / 2);
     ctxt.rotate(Math.PI / 4);
```

```
ctxt.beginPath();
    ctxt.moveTo(-90, 90);
    ctxt.lineTo(90, 90);
    ctxt.lineTo(0, -90);
    ctxt.closePath();
    ctxt.fill();
    ctxt.stroke();
   /* Step 4: Your js code goes here */
   $("#button_clear_canvas").click(function() {
    /* Clear canvas and reset transformations */
    ctxt.clearRect(0, 0, canvas.width, canvas.height);
    ctxt.setTransform(1, 0, 0, 1, 0, 0); // Reset transformation matrix
   });
  });
  </script>
 </head>
 <body>
  <h2>Manipulate the Canvas</h2>
  <canvas id="myCanvas"
   width="300" height="300"
   style="border:1px solid #000000;"></canvas>
  <div id="draw_buttons">
   <button id="button_draw_triangle">Draw Triangle/button>
   <button id="button_draw_rotated_triangle">Draw Rotated Triangle</button>
   <button id="button_clear_canvas">Clear Canvas/button>
  </div>
 </body>
</html>
```

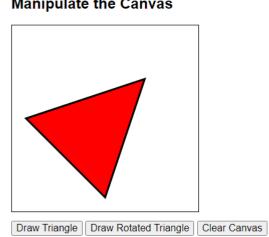
Draw Triangle

Manipulate the Canvas



Draw Rotated Triangle

Manipulate the Canvas



Clear Canvas

Manipulate the Canvas
Draw Triangle Draw Rotated Triangle