



UNIVERSITI MALAYSIA TERENGGANU

CSM3103

BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS

LAB 5

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Prepared for:

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(K1)**

Lab 5

Task 1

- a. Get the code from <https://frend.odaje.biz/lab5/task1.html>, and evaluate and test the code.
 - i. What is the id of button and input field
Answer:
`<button id="button_change">`
`<input id="input_color" value="Purple"></input>`
 - ii. What happened when you clicked change button and why?
Answer:
Nothing change. Because there is no function for the button
- b. Your mission: when the button is clicked, all occurrences of the word Black to be changed to the text in the input field.

- a. Select the change button

```
var button = $('#button_change');
```

- b. Setting a click listener for button

```
$(button).click(function(){  
    //your next code is here  
});
```

- c. Retrieving and storing the input value

```
//select the input color  
var input_color = $('#input_color');  
  
//select the input value  
var input_value = $(input_color).val();
```

- d. Select all appropriates black text by class selector

```
//select all appropriate black text recognise by class  
var element = $('.door_color');
```

- e. Replace the text with the input value

```
//changed the selected text color to inpiut value color  
$(element).html(input_value);
```

- f. Test and evaluate your code. Comment on the new behaviour of your code
Answer:
The output remains the same result.
- g. Basically, all those id and value in the code can be access directly without using any variables. **Rewrite the code by directly using the jQuery selector**
- h. **Rewrite the code: can refer to task 2 if in doubt**
 - i. **Instead of input field, change it to dropdown which display available color understood by HTML (use select tag)**

ii. Retrieve the value from the select tag

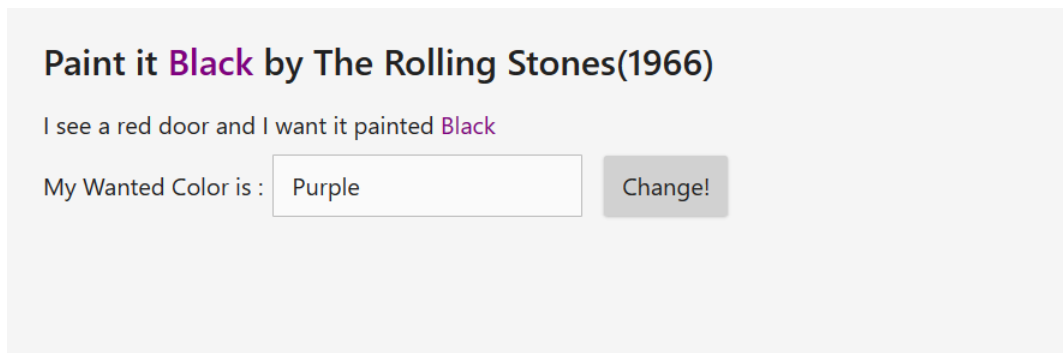
iii. Change the color of all appropriate text to selected color

Code:

```
C: > CSM3103-frontend > Lab5 > Task1 > task1.html > html > body > p
1
2  <html>
3  <head>
4    <title>Lab 5 : Task 1</title>
5    <meta charset="utf-8">
6    <script
7      src="https://code.jquery.com/jquery-3.1.1.js"
8      integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
9      crossorigin="anonymous"></script>
10   <link rel="stylesheet" href=
11     "https://cdnjs.cloudflare.com/ajax/libs/mini.css/2.0.2/mini-default.cs
12   <style>
13     body { margin: 20px; }
14     #color_change { border: 1px solid; }
15     .cow_color { font-weight: bold; }
16   </style>
17
18   <script>
19     $(document).ready(function() {
20       var button = $('#button_change');
21
22       $(button).click(function(){
23
24         var input_color = $('#input_color').val();
25
26         var elements = $('.door_color');
27
28         $(elements).css('color', input_color);
29       });
30
31     });
32   </script>
33 </head>
34 <body>
35
36   <h2> Paint it <span class="door_color">Black</span>
37   by The Rolling Stones(1966)</h2>
```

```
15     .cow_color { font-weight: bold; }
16 </style>
17
18 <script>
19 $(document).ready(function() {
20     var button = $('#button_change');
21
22     $(button).click(function(){
23
24         var input_color = $('#input_color').val();
25
26         var elements = $('#.door_color');
27
28         $(elements).css('color', input_color);
29     });
30
31 });
32 </script>
33 </head>
34 <body>
35
36 <h2> Paint it <span class="door_color">Black</span>
37 | by The Rolling Stones(1966)</h2>
38 <p>I see a red door and
39 | I want it painted <span class="door_color">Black</span>
40 </p>
41
42 <p>My Wanted Color is :
43 | <input id="input_color" value="Purple"></input>
44 | <button id="button_change">
45 | | Change!
46 | </button>
47 </p>
48
49 </body>
50 </html>
```

Output:



Task 2

- a. Get the code from <https://frend.odaje.biz/lab5/task2.html>, and evaluate and test the code
 - i. What id's that exist in the code above?
Answer:
<div class="container">
<div id="boxes">
<div id="toggles">
 - ii. Open the file inside browser, what have you see in the browser?
Answer:
It shows Toggle Colors, Toggle Rounded Borders, Add a New Box button.
 - iii. Click any button, what happened? Why

Answer:

No result is shown. Because there is no function for the button

b. Your mission:

- i. Click on Toggle Colors button: Toggles the color between white and cardinal
- ii. Click on Toggle Rounded Borders: Toggles the appearance of a border on the boxes
- iii. Click add a new box: adds one new box to the container

c. Implements the following to accomplished your mission

- i. Add outlined class to each <div>. Refer to <div> for box2 as an example. Save and open the file in browser
 - i. What changes have you see?
- ii. Add a click function to button_toggle_color, and implementing change color process

```
//add button_toggle_color click function
$('#button_toggle_colors').click(function(){
    //get box1
    var box1 = $('#box1');
    //check and changed background color of box1
    if($(box1).css('background-color')==colorTeal){
        //remove the color
        $(box1).css('background-color','');
    }else{
        //put back colorTeal as background
        $(box1).css('background-color',colorTeal);
    }
});
```

- iii. Create an event listener for button_toggle_roundedges
- iv. Inside the function add the following code

```
$(".box").each(function(){
    if ($(this).hasClass('round-edge')){
        $(this).removeClass('round-edge');
    }else{
        $(this).addClass('round-edge');
    }
});
```

- v. Based on code in iv, can you modify a code in ii, so it change all box background and returned all to vanilla as well!

vi. Create an event listener for button_add_box.

vii. Inside the function put the following code

i. Create new element using javascript

```
var new_box = document.createElement('div');
```

ii. Get current number of element with class .box

```
var existingBoxes = $(".box").length;
```

iii. With the current number of box create new id for new box

```
var nextBoxId = existingBoxes+1;  
$(new_box).attr("id", "box"+nextBoxId);
```

iv. Add two classes (box and outlined) to new_box

```
$(new_box).addClass("box");  
$(new_box).addClass("outlined");
```

v. Finally, attached new box into box container

```
$("#boxes").append(new_box);
```

viii. Test and evaluate your code

ix. Modify the code above so that when button clicked, it only show one element which selected randomly .

Code:

```

1  <!doctype html>
2  <html>
3  <head>
4    <title>Lab 4: Task 2</title>
5    <meta charset="utf-8">
6    <link rel="stylesheet" href=
7      "https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.c
8    <style>
9      #boxes { margin-top: 50px; float: left; width: 100%; }
10     #toggles { float: left; width: 100%; margin-top: 10px; }
11     #info { float: left; margin-top: 5px; }
12     .box { width: 50px; height: 50px; float: left; }
13     .outlined { border: 2px solid black; }
14     .round-edge { border-radius: 15px; }
15     .teal { background-color: teal; }
16   </style>
17   <script
18     src="https://code.jquery.com/jquery-3.1.1.js"
19     integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
20     crossorigin="anonymous"></script>
21
22   <script>
23
24     $(document).ready(function(){
25       var colorTeal = "rgb(57, 204, 204)";
26
27       $('#button_toggle_colors').click(function(){
28         $(".box").each(function(){
29           if($(this).css('background-color') == colorTeal){
30             $(this).css('background-color', '');
31           } else{
32             $(this).css('background-color', colorTeal);
33           }
34         });
35       });
36     });
37

```

```

38     $('#button_toggle_roundedges').click(function(){
39       $(".box").toggleClass("round_edge");
40     });
41
42     $('#button_add_box').click(function(){
43       var newBox = document.createElement('div');
44       var existingBoxes = $(".box").length;
45       var nextBoxId = existingBoxes + 1;
46       $(newBox).attr("id", "box" + nextBoxId);
47       $(newBox).addClass("box");
48       $(newBox).addClass("outlined");
49       $("#boxes").append(newBox);
50     });
51   });
52 </script>
53 </head>
54 <body>
55   <div class="container">
56     <div id="boxes">
57       <div id="box1" class="box outlined"></div>
58       <div id="box2" class="box outlined"></div>
59       <div id="box3" class="box outlined"></div>
60     </div>
61
62     <div id="toggles">
63       <h2>Toggles</h2>
64       <button class="btn" id="button_toggle_colors">
65         >Toggle Colors</button>
66       <button class="btn" id="button_toggle_roundedges">
67         >Toggle Rounded Borders</button>
68       <button class="btn" id="button_add_box">
69         >Add a New Box</button>
70     </div>
71

```

```

42     $('#button_add_box').click(function(){
43         var newBox = document.createElement('div');
44         var existingBoxes = $(".box").length;
45         var nextBoxId = existingBoxes + 1;
46         $(newBox).attr("id", "box" + nextBoxId);
47         $(newBox).addClass("box");
48         $(newBox).addClass("outlined");
49         $("#boxes").append(newBox);
50     });
51 });
52 });
53
54 </script>
55 </head>
56 <body>
57     <div class="container">
58
59         <div id="boxes">
60
61             <div id="box1" class="box outlined"></div>
62             <div id="box2" class="box outlined"></div>
63             <div id="box3" class="box outlined"></div>
64         </div>
65
66         <div id="toggles">
67             <h2>Toggles</h2>
68             <button class="btn" id="button_toggle_colors">
69                 >Toggle Colors</button>
70             <button class="btn" id="button_toggle_roundededges">
71                 >Toggle Rounded Borders</button>
72             <button class="btn" id="button_add_box">
73                 >Add a New Box</button>
74         </div>
75     </div>
76 </body>
77 </html>
78

```

Output:



Toggles

Toggle Colors

Toggle Rounded Borders

Add a New Box



Toggles

Toggle Colors

Toggle Rounded Borders

Add a New Box

Task 3

- a. Get the code <https://frend.odaje.biz/lab5/task3.html>, and evaluate and test the code:

- i. Determine the id's of each element
- ii. Recognise any input element that associated with the form
- iii. Your Task are:
 1. Add DatePicker
 2. Use selectable interaction
 3. Use Sortable widget
 4. Use the tooltip

- b. Inserting the datepicker into a form

- i. In the document ready function add this code

```
$('#date').datepicker();
```

- i. Can you set the date to limit the selectable date range to only include dates from the previous two weeks to the next two weeks.

- c. Using selectable for enrolment type

- i. Comment radiobutton input
- ii. Add the following code

```
<ol id="selectable">
  <li class="ui-widget-content" title="taking 6.813">Undergraduate</li>
  <li class="ui-widget-content" title="taking 6.831">Graduate</li>
</ol>
```

- iii. Add some css in style section

```

#selectable .ui-selecting {
    background: #FECA40; }

#selectable .ui-selected {
    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: 150px; cursor: pointer; }

#selectable li {
    margin: 3px; padding: 0.4em;
    font-size: 1.0em; height: 16px; }

```

- iv. And control the behaviour using jQuery selector

```
$("#selectable").selectable();
```

- v. How can we retrieve the value of the selected item?

Answer:

Use <ol id="selectable">

- d. Using sortable for the color input

- i. Comment all input element that related to color selections
- ii. Replace with the following code

```

<ul id="sortable">
    <li class="ui-state-default">#ff0000</li>
    <li class="ui-state-default">#0000ff</li>
    <li class="ui-state-default">#ff00b3</li>
    <li class="ui-state-default">#ded447</li>
    <li class="ui-state-default">#125e18</li>
</ul>

```

- iii. Adding a control to sort the list and disable the selection

```

$("#sortable").sortable();
$("#sortable").disableSelection();

```

- iv. Check your output, now you can drag any color to a new position
- v. Add the following style to your code

```
#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;
}
```

- vi. What do you think this CSS did? You can reverse the step to see the changes after and before the use of CSS

Answer:

To add the styling into the elements of the page

- vii. Add the following span with class before color code in the in (ii) above

```
<span class="ui-icon ui-icon-arrowthick-2-n-s"></span>
```

- e. Adding a Tooltip

- i. Add the following code inside document ready function

```
$(document).tooltip({
  items: '[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_swatch" style="background:' +
          text + '"></div>'
      }
    }
  }
});
```

- ii. Add the following css

```
.color_swatch{ height:50px; width: 50px; }
```

Code:

```

2
3 <!doctype html>
4 <html>
5   <head>
6     <title>Lab 2: Exercise 3</title>
7     <meta charset="utf-8">
8     <script
9       src="https://code.jquery.com/jquery-3.1.1.js"
10      integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
11      crossorigin="anonymous"></script>
12     <script
13       src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"
14       integrity="sha256-T0vest3yCU7pafRw9r+settMBX6JkKN06dqBnpQ8d30="
15       crossorigin="anonymous"></script>
16     <link rel="stylesheet" href=
17       "https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.css">
18     <link rel="stylesheet" href=
19       "https://code.jquery.com/ui/1.12.1/themes/ui-lightness/jquery-ui.css">
20
21     <style>
22       body {
23         margin: 20px;
24       }
25       #name_input {
26         float: left;
27         margin-bottom: 20px;
28         margin-right: 20px;
29       }
30       #date_input {
31         float: left;
32         margin-bottom: 20px;
33       }
34       #year_input {
35         clear: both;
36       }
37       .rank_color {

```

```

37       .rank_color {
38         width: 20px;
39         margin-top: 2px;
40       }
41
42       #sortable{
43         list-style-type: none;
44         margin: 0;
45         padding: 0;
46         width: 150px;
47       }
48
49       #sortable li{
50         margin: 0 3px 3px 3px;
51         padding: 0.4em;
52         padding-left: 1.5em;
53         font-size: 1.0em;
54         height: 12px;
55       }
56
57       #selectable .ui-selecting{
58         background: #FECA40;
59       }
60
61       #selectable .ui-selected{
62         background: #F39814;
63         color: white;
64       }
65
66       #selectable li:before{
67         content: "\2713 ";
68         color: transparent;
69       }
70
71       #selectable li.ui-selecting:before{
72         content: "\2713 ";
73         color: black;

```

```

71     #selectable li.ui-selecting:before{
72         content: "\2713 ";
73         color: black;
74     }
75
76     #selectable li.ui-selecting:before{
77         content: "\2713 ";
78         color: white;
79     }
80
81     #selectable{
82         list-style-type: none;
83         margin: 0;
84         padding: 0;
85         width: 150px;
86         cursor: pointer;
87     }
88
89     #selectable li{
90         margin: 3px;
91         padding: 0.4em;
92         font-size: 1.0em;
93         height: 16px;
94     }
95
96     .color_swatch{
97         width: 20px;
98         height: 20px;
99     }
100
101 </style>
102
103 <script>
104 $(document).ready(function() {
105
106     $('#date').datepicker({
107         minDate: '-2w',

```

```

103 <script>
104 $(document).ready(function() {
105
106     $('#date').datepicker({
107         minDate: '-2w',
108         maxDate: '+2w'
109     });
110
111     $("#selectable").selectable();
112
113     $("#sortable").sortable({
114         update: function(event, ui){
115             var colors = [];
116             $("#sortable li").each(function(){
117                 colors.push($(this).text());
118             });
119             console.log("Sorted colors:", colors);
120         }
121     });
122     $("#sortable").disableSelection();
123 });
124
125 $(document).tooltip({
126     items: '[title], [class]',
127     position: { my: "left center", at: "right center" },
128     content: function() {
129         var element = $(this);
130         if(element.is('[title]')){
131             return element.attr('title');
132         }
133
134         if(element.is('[class]')){
135             console.log('class', element);
136             if(element.hasClass('ui-state-default')){
137                 var texr = element.text();
138                 return "<div class='color_swatch' style='background:' + texr + '></div>";
139             }

```

```

134         if(element.is('[class]')){
135             console.log('class', element);
136             if(element.hasClass('ui-state-default')){
137                 var texr = element.text();
138                 return $('<div class="color_swatch" style="background:' + text + '"></div>');
139             }
140         }
141     }
142 });
143
144 </script>
145 </head>
146 <body>
147     <h2>jQuery UI-Survey</h2>
148     <h3>General Information</h3>
149     <div id="name_input">
150         <label for="name">Name:</label>
151         <input type="text" id="name">
152     </div>
153     <div id="date_input">
154         <label for="date">Date:</label>
155         <input type="text" id="date">
156     </div>
157     <div id="year_input">
158         <h3>Are you enrolled as an undergraduate or a graduate?</h3>
159
160         <ol id="selectable">
161             <li class="ui-widget-content" title="taking 6.813">Undergraduate</li>
162             <li class="ui-widget-content" title="taking 6.831">Graduate</li>
163         </ol>
164     </div>
165
166     <div id="color_input">
167
168         <h3>Rank the colors listed from your most favorite (1)
169         to your least favorite (5). Be sure to only use each ranking once.</h3>
170
171

```

```

147     <h2>jQuery UI-Survey</h2>
148     <h3>General Information</h3>
149     <div id="name_input">
150         <label for="name">Name:</label>
151         <input type="text" id="name">
152     </div>
153     <div id="date_input">
154         <label for="date">Date:</label>
155         <input type="text" id="date">
156     </div>
157     <div id="year_input">
158         <h3>Are you enrolled as an undergraduate or a graduate?</h3>
159
160         <ol id="selectable">
161             <li class="ui-widget-content" title="taking 6.813">Undergraduate</li>
162             <li class="ui-widget-content" title="taking 6.831">Graduate</li>
163         </ol>
164     </div>
165
166     <div id="color_input">
167
168         <h3>Rank the colors listed from your most favorite (1)
169         to your least favorite (5). Be sure to only use each ranking once.</h3>
170
171
172         <ul id="sortable">
173             <li class="ui-state-default"><span class="ui-icon ui-icon-arrowthick-2-n-s"></span>#ff0000</li>
174             <li class="ui-state-default"><span class="ui-icon ui-icon-arrowthick-2-n-s"></span>#0000ff</li>
175             <li class="ui-state-default"><span class="ui-icon ui-icon-arrowthick-2-n-s"></span>#ff00b3</li>
176             <li class="ui-state-default"><span class="ui-icon ui-icon-arrowthick-2-n-s"></span>#ded447</li>
177             <li class="ui-state-default"><span class="ui-icon ui-icon-arrowthick-2-n-s"></span>#125e18</li>
178         </ul>
179     </div>
180
181 </body>
182 </html>
183

```

Output:

jQuery UI-Survey

General Information

Name: Date:

Are you enrolled as an undergraduate or graduate?

May 2024

Su	Mo	Tu	We	Th	Fr	Sa
			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	

Rank the colors listed from your most favorite (1) to your least favorite (5).
Be sure to only use each ranking once.

jQuery UI-Survey

General Information

Name: Date:

jQuery UI-Survey

General Information

Name: Date:

Are you enrolled as an undergraduate or a graduate?

Rank the colors listed from your most favorite (1) to your least favorite (5).
Be sure to only use each ranking once.

jQuery UI-Survey

General Information

Name: Date:

Are you enrolled as an undergraduate or a graduate?

☐ Undergraduate

☒ Graduate

**Rank the colors listed from your most favorite (1) to your least favorite (5).
Be sure to only use each ranking once.**

⤴ #125e18

⤴ #0000ff

⤴ #ded447

⤴ #ff00b3

⤴ #ff0000

Task 4

- a. Get the code from <https://frend.odaje.biz/lab5/task3.html>, and evaluate and test the code.
- b. Getting the context of the canvas

- a. Add the following code:

```
var canvas = document.getElementById("myCanvas");  
var ctx = canvas.getContext('2d');
```

- i. What is the meaning of context in this case?

- c. Drawing a triangle to canvas

- a. Setup the fillStyle, strokeStyle and lineWidth.

```
ctx.fillStyle = '#f00';  
ctx.strokeStyle = '#000';  
ctx.lineWidth = 3;
```

- b. Describe the purpose of each method in (a)

Answer:

'fillStyle' sets the style of the shapes

'strokeStyle' sets the style to use lines for the shapes

'lineWidth' sets the width of lines when stroking the shapes

- c. Put these codes into an appropriate function:

```
ctx.beginPath();  
ctx.moveTo(60, 240);  
ctx.lineTo(240, 240);  
ctx.lineTo(150, 60);  
ctx.closePath();  
ctx.fill();  
ctx.stroke();
```

- d. Test your code and evaluate the output
- e. Rearrange the position of coordinate and test your code.
- f. What is the use of moveTo methods above?

Answer:

Used to set the starting point for drawing path on canvas

- d. a new rotate triangle function

- a. Set the new position of the new triangle at the middle of previous triangle

```
ctx.translate(canvas.width / 2, canvas.height / 2);  
ctx.rotate(Math.PI / 4);  
ctx.beginPath();
```

- b. Start drawing a new triangle using a new coordinate

```
ctx.moveTo(-90, 90);  
ctx.lineTo(90, 90);  
ctx.lineTo(0, -90);  
  
ctx.closePath();  
ctx.fill();  
ctx.stroke();
```

- c. Test and evaluate your result.
- d. You can press the rotate many times, and can have different triangle at different location, why it's happened?

Answer:

The function applies a rotation transformation to the canvas

- e. Clear the canvas
 - a. Put this code to clear the canvas

```
ctx.clearRect(0, 0, canvas.width, canvas.height);
```

b. Can you write more better clear canvas , to clear all canvas

Code:

```
1
2
3 <!doctype html>
4 <html>
5   <head>
6     <title>Lab 2: Exercise 3</title>
7     <meta charset="utf-8">
8     <script
9       src="https://code.jquery.com/jquery-3.1.1.js"
10      integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
11      crossorigin="anonymous"></script>
12     <script
13       src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"
14       integrity="sha256-T0Vest3yCU7pafRw9r+settMBX6JkKN06dqBnpQ8d30="
15       crossorigin="anonymous"></script>
16     <link rel="stylesheet" href=
17       "https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.css">
18     <link rel="stylesheet" href=
19       "https://code.jquery.com/ui/1.12.1/themes/ui-lightness/jquery-ui.css">
20
21     <style>
22       body {
23         margin: 20px;
24       }
25
26       #name_input {
27         float: left;
28         margin-bottom: 20px;
29         margin-right: 20px;
30       }
31
32       #date_input {
33         float: left;
34         margin-bottom: 20px;
35       }
36
37       .rank_color {
```

```
37       .rank_color {
38         width: 20px;
39         margin-top: 2px;
40       }
41
42       canvas{
43         border: 1px solid black;
44       }
45
46     </style>
47
48     <script>
49     $(document).ready(function() {
50       var canvas = document.getElementById("myCanvas");
51       var ctx = canvas.getContext('2d');
52
53       ctx.fillStyle = "#F00";
54       ctx.strokeStyle = "#000";
55       ctx.lineWidth = 3;
56       ctx.beginPath();
57       ctx.moveTo(60, 240);
58       ctx.lineTo(240, 240);
59       ctx.lineTo(150, 60);
60       ctx.closePath();
61       ctx.fill();
62       ctx.stroke();
63
64       function rotateTriangle(){
65         ctx.clearRect(0, 0, canvas.width, canvas.height);
66         ctx.translate(canvas.width / 2, canvas.height / 2);
67         ctx.save();
68         ctx.rotate(Math.PI / 4);
69         ctx.beginPath();
70         ctx.moveTo(-90, 90);
71         ctx.lineTo(90, 90);
72         ctx.lineTo(0, -90);
73         ctx.closePath();
```

```

64     function rotateTriangle(){
65         ctx.clearRect(0, 0, canvas.width, canvas.height);
66         ctx.translate(canvas.width / 2, canvas.height / 2);
67         ctx.save();
68         ctx.rotate(Math.PI / 4);
69         ctx.beginPath();
70         ctx.moveTo(-90, 90);
71         ctx.lineTo(90, 90);
72         ctx.lineTo(0, -90);
73         ctx.closePath();
74         ctx.fill();
75         ctx.stroke();
76         ctx.restore();
77     }
78
79     function clearCanvas(){
80         ctx.clearRect(0, 0, canvas.width, canvas.height);
81     }
82
83     $('#date').datepicker({
84         minDate: '-2w',
85         maxDate: '+2w'
86     });
87
88     $("#rotateBtn").click(function() {
89         rotateTriangle();
90     });
91 });
92
93 </script>
94 </head>
95 <body>
96 <h2>jQuery UI-Survey</h2>
97 <h3>Triangle Rotation</h3>
98 <div id="name_input">
99     <label for="name">Name:</label>
100    <input type="text" id="name">

```

```

73         ctx.closePath();
74         ctx.fill();
75         ctx.stroke();
76         ctx.restore();
77     }
78
79     function clearCanvas(){
80         ctx.clearRect(0, 0, canvas.width, canvas.height);
81     }
82
83     $('#date').datepicker({
84         minDate: '-2w',
85         maxDate: '+2w'
86     });
87
88     $("#rotateBtn").click(function() {
89         rotateTriangle();
90     });
91 });
92
93 </script>
94 </head>
95 <body>
96 <h2>jQuery UI-Survey</h2>
97 <h3>Triangle Rotation</h3>
98 <div id="name_input">
99     <label for="name">Name:</label>
100    <input type="text" id="name">
101 </div>
102 <div id="date_input">
103     <label for="date">Date:</label>
104     <input type="text" id="date">
105 </div>
106 <canvas id="myCanvas" width="300" height="300"></canvas><br><br>
107 <button id="rotateBtn">Rotate Triangle</button>
108 </body>
109 </html>

```

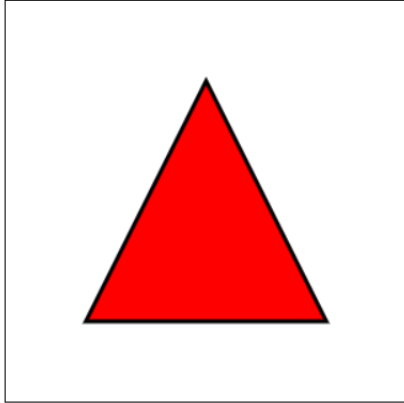
Output:

jQuery UI-Survey

Triangle Rotation

Name:

Date:

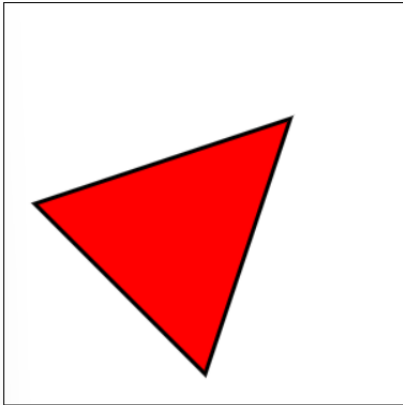


jQuery UI-Survey

Triangle Rotation

Name:

Date:



Link Github:

<https://github.com/zahirarzli/Lab-5-Front-End>