Jquery is a light weight javascript library. It reduce the effort of developer by providing predefine functionality.

On high level library is a set of functionality. Each and every library consist their corresponding functionality.

## **jQuery Syntax**

The jQuery syntax is tailor-made for selecting HTML elements and performing some action on the element(s).

**Basic syntax is: $(*selector*).*action*()**

* A $ sign to define/access jQuery
* A (*selector*) to "query (or find)" HTML elements
* A jQuery *action*() to be performed on the element(s)

Examples:

$(this).hide() - hides the current element.

$("p").hide() - hides all <p> elements.

$(".test").hide() - hides all elements with class="test".

$("#test").hide() - hides the element with id="test".

**$(document).ready(function()**

**$(document).ready** is a jQuery event. It fires as soon as the DOM is loaded and ready to be manipulated by script.

<html>

<head>

    <title></title>

    <script src="Scripts/jquery-1.11.2.js"></script>

    <script type="text/javascript">

        $(document).ready(function () {

            $('#button1').click(function () {

                alert('jQuery Tuorial');

            });

        });

    </script>

</head>

<body>

    <input id="button1" type="button" value="Click Me" />

</body>

</html>

**jQuery selectors:**

jQuery selectors allow you to select and manipulate HTML elements.

1. Element ID  
2. Element Tag Name  
3. Element Class Name  
4. Element attribute  
5. Element Attribute values and many more

**Id selector in jquery:**

To find an HTML element by ID, use the jQuery #id selector

<html>

<head>

    <title></title>

    <script src="jquery-1.11.2.js"></script>

    <script type="text/javascript">

        $(document).ready(function () {

            $('#button1').click(function () {

                alert('jQuery Tuorial');

            });

        });

    </script>

</head>

<body>

    <input id="button1" type="button" value="Click Me" />

</body>

</html>

EX2:

<html>

<head>

<title></title>

<script src="jquery-3.2.1.min.js"></script>

<script type="text/javascript">

$(document).ready(function () {

$('#button1').click(function () {

$('#mydiv').css('background-color', 'yellow');

});

});

</script>

</head>

<body>

<input id="button1" type="button" value="Click Me" />

<div id="mydiv">

demo div

</div>

</body>

</html>

**Value in jquery:**

$(document).ready(function(){

$('#button').click(function(){

var a = $('#feild').val();

alert(a);

});

});

### jQuery class selector:

### selecting elements using their class name.

### Syntax : $('.class')

<html>

<head>

<title></title>

<script src="jquery-3.2.1.min.js"></script>

<script type="text/javascript">

        $(document).ready(function () {

            $('.small').css('border', '5px solid red');

        });

    </script>

</head>

<body>

    <span class="small">

        Span 1

    </span>

    <br /><br />

    <div class="small">

        Div 1

    </div>

    <br />

    <span class="big">

        Span 2

    </span>

    <p class="big">This is a paragraph</p>

</body>

</html>

## **jQuery hide() and show():**

With jQuery, you can hide and show HTML elements with the hide() and show() methods:

$("#hide").click(function(){  
    $("p").hide();  
});  
  
$("#show").click(function(){  
    $("p").show();  
});

### jQuery attribute selector:

$('[attribute]')  
$('[attribute="value"]')

$('[title]') // Selects all elements that have title attribute

$('div[title]') // Selects all div elements that have title attribute

$('[title="divTitle"]') // Selects all elements that have title attribute value - divTitle

$('div[title="divTitle"]') // Selects all div elements that have title attribute value - divTitle

**Selects all elements with title attribute** and sets 5px solid red border

<html>

<head>

    <title></title>

    <script src="Scripts/jquery-1.11.2.js"></script>

    <script type="text/javascript">

        $(document).ready(function () {

            $('[title]').css('border', '5px solid red');

        });

    </script>

</head>

<body>

    <div title="div1Title">

        DIV 1

    </div>

    <br />

    <div title="div2Title">

        DIV 2

    </div>

    <p title="pTitle">

        This is a paragraph

    </p>

    <span title="div1Title">

        SAPN 1

    </span>

    <br /><br />

    <span>

        SPAN 2

    </span>

</body>  
</html>

### Select values of checkbox group with jquery:

### If you have just one group of checkboxes on your page, to get all the checked checkboxes you can use $('input[type="checkbox"]:checked').

<html>

<head>

    <title></title>

    <script src="jquery-1.11.2.js"></script>

    <script type="text/javascript">

        $(document).ready(function () {

            $('#btnGetSelectedSkills').click(function () {

                getSelectedCheckBoxes('skills');

            });

            $('#btnGetSelectedCities').click(function () {

                getSelectedCheckBoxes('cities');

            });

            var getSelectedCheckBoxes = function (groupName) {

                var result = $('input[name="' + groupName + '"]:checked');

                if (result.length > 0) {

                    var resultString = result.length + " checkboxe(s) checked<br/>";

                    result.each(function () {

                        resultString += $(this).val() + "<br/>";

                    });

                    $('#divResult').html(resultString);

                }

                else {

                    $('#divResult').html("No checkbox checked");

                }

            };

        });

    </script>

</head>

<body style="font-family:Arial">

    Skills :

    <input type="checkbox" name="skills" value="JavaScript" />JavaScript

    <input type="checkbox" name="skills" value="jQuery" />jQuery

    <input type="checkbox" name="skills" value="C#" />C#

    <input type="checkbox" name="skills" value="VB" />VB

    <br /><br />

    Preferred Cities :

    <input type="checkbox" name="cities" value="New York" />New York

    <input type="checkbox" name="cities" value="New Delhi" />New Delhi

    <input type="checkbox" name="cities" value="London" />London

    <br /><br />

    <input id="btnGetSelectedSkills" type="submit" value="Get Selected Skills" />

    <input id="btnGetSelectedCities" type="submit" value="Get Selected Cities" />

    <br /><br />

    <div id="divResult">

    </div>

</body>

### </html>

**Change Image:**

<script src="jquery-3.2.1.js">

</script>

<script type="text/javascript">

$(document).ready(function(){

$('#button').click(function(){

$('#image').attr('src','2.jpg');

});

});

</script>

<img src="1.jpg" id='image'>

<input type='button' value="Change image" id="button">

**ProgressBar:**

<script src="jquery-3.2.1.js">

</script>

<script type="text/javascript">

$(document).ready(function () {

$('#myButton').click(function () {

animateProgressBar($('#ddlPercentage').val());

});

function animateProgressBar(percentageCompleted) {

$('#innerDiv').animate({

'width': (500 \* percentageCompleted) / 100

}, 3000);

$({ counter: 1 }).animate({ counter: percentageCompleted }, {

duration: 3000,

step: function () {

$('#innerDiv').text(Math.ceil(this.counter) + ' %');

}

})

}

});

</script>

<body style="font-family:Arial">

Select Percentage :

<select id="ddlPercentage">

<option value="10">10</option>

<option value="20">20</option>

<option value="30">30</option>

<option value="40">40</option>

<option value="50">50</option>

<option value="60">60</option>

<option value="70">70</option>

<option value="80">80</option>

<option value="90">90</option>

<option value="100">100</option>

</select>

<input type="button" id="myButton" value="Start Animation" />

<br /><br />

<div id="outerDiv" style="background-color:#EEEEEE;

height:20px; width:500px; padding:5px">

<div id="innerDiv" style="background-color:red; height:19px;

width:0px; color:white; text-align:center">

</div>

</div>

</body>

**GoogleMapPlugin:**

<!DOCTYPE html>

<html>

<head>

<style>

#map {

height: 400px;

width: 100%;

}

</style>

</head>

<body>

<h3>My Google Maps Demo</h3>

<div id="map"></div>

<script>

function initMap() {

var uluru = {lat: -25.363, lng: 131.044};

var map = new google.maps.Map(document.getElementById('map'), {

zoom: 5,

center: uluru

});

var marker = new google.maps.Marker({

position: uluru,

map: map

});

}

</script>

<script src="https://maps.googleapis.com/maps/api/js?&callback=initMap">

</script>

</body>

</html>