

JQuery

Class notes

By


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JQuery

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⇒ What is jQuery?

- jQuery is a Javascript library.
- It is used to perform all kinds of client side activities
- It simplifies javascript programming.
- It provides built-in methods to perform all types of client side activities.
- jQuery can be integrated with any server side technologies like JSP, ASP, ASP.NET & ASP.NET MVC.

Note:- jQuery was developed & created by "John Resig".

- Compare with other client side libraries jQuery is most popular JS library.
- jQuery is "opensource" library. Any one can download & integrate with their technology.

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⇒ How to integrate jQuery in webpages?

1) Download jQuery library from "www.jquery.com" website.

filename: jquery-1.11.3.min.js.

2) Integrate with a webpage by using <script> tag:

```
<script src="jquery-1.11.3.min.js">  
</script>
```

3) Write the client side code using jQuery with another script tag.

```
<script>  
    // required code  
</script>
```

⇒ jQuery features:

- jQuery is a javascript library. It provides built-in function to perform client side operations.
- These functions will be used based on the required feature that you want to use for the requirement.
- jQuery provides the following features.

1) DOM Traversing :- (Document Object Model)

- Dom Traversing feature is used to access html elements at runtime.
- So, that we can perform required operations.
- jQuery provides different operations to implement Dom Traversing.

Ex:- Selector, each(), eq(), ...

2) DOM Manipulations :- (Document Object Model)

- we can update the DOM elements at runtime based on the requirement.
- Ex:- Adding additional rows to table. Removing items from the list etc.
- To perform these manipulations jQuery provides pre-defined functions.

Ex:- append(), remove(), empty(), ...

3) Event Handling :-

- Similar to javascript we can handle all the events in jQuery.
- In jQuery, we can handle the events by using either named functions & unnamed functions.
- jQuery provides some additional events that are not exists in javascript.

Ex:- ready, success, error

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→ Most of the events are same as javascript.

Ex:- click, change, focus, blur, etc.,

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4) JQuery Styles:-

- Dynamic styles in web pages can be implemented using javascript
- Instead of writing manual javascript code, Jquery provides readymade methods to perform dynamic styles.
- we can easy to do this task with Jquery.methods.

Ex:- css(), addClass(), removeClass().

5) Animations in Jquery

- Jquery allows to apply animations on any html element
- Animation is a concept to change the behaviour of an object from one state to another state in the given interval of time.
- Jquery library provides a method called "animate()" to implement animation.
- we can apply animation on different styles properties like size, position, etc.,

6) Jquery effects:-

- In order to apply different types of effects on html elements, jquery provides pre-defined methods.
- In ~~order to~~ core jquery, we can apply sliding effects, fading effects etc
- Jquery-UI provides more than 10 effects to apply on html elements.

method: effect().

7) Lightweight JS Library:-

- Jquery library is available in two different sizes.

- a) compressed
- b) uncompressed

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- a) → compressed one is used to deployment/ hosting purpose so, that browser will easily download the file from server.
→ compressed file is very less size due to this downloading from server, loading in browser memory & execution will be faster.
file size is: 94KB.

8) CSS3 Complaint :-

- JQuery supports all versions of CSS properties.
- It includes old version & latest version of CSS. (CSS3)
- we can use CSS3 style properties also in JQuery methods.

9) Cross Browser :-

- JQuery Library is browser independent.
- It means it will work in all browsers.
- JQuery ^{library} will take care execution of the code, based on Browser.
- It supports all browsers: IE, Chrome, Firefox, Opera etc.,

10) JQuery is Extendable :-

- JQuery is open source so that anyone can use.
- JQuery is more comfortable to extend and add additional features by third party developers.
- These features are considered as JQuery plug-in's.
- we can find so many JQuery plug-in's in internet.

Ex:- Image slider plugin

Zooming plugin

Validation plugin

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Java Script

- Javascript is a scripting language used for client side programming in webpages.
- Javascript is light weight programming language.
- Javascript is case sensitive.
- Control structures and operators are same as C/C#/Java languages.
- Java Script is used to perform following operations:
 - To perform client side validations.
 - To perform client side dynamic operations.
 - client side calculations.
 - To control the behaviour of html elements
 - To implement Ajax technology.

Javascript Programming:

- we should understand the following important rules / points to develop Javascript programs.

1) Include Javascript in webpage.

- we can include the Javascript in webpage either directly (or) indirectly.

Directly:-

```
<script type = "text/javascript">  
    // Javascript code  
</script>
```

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Indirectly (External file):-

```
<script type = "text/javascript" src = "test.js">  
</script>
```

Note:- <script> tag can be add in any section of html document (either head (or) body).

2) Creating Variables :-

- Javascript Variables are declare with "var" keyword.
- These type of Variables are called Dynamic Typing Variables.
- It will change the behaviour based on the value that we stored in it.

Example:-

```
Var x, y, z;  
Var x = 100;  
Var st = "Hello World";  
Var ar = [10, 20, 30];  
Var obj = { };
```

3) Numeric conversions:-

- By default all html controls returns the value in string format.
- To perform numeric operations we need convert string formatted data into numeric data.
- Javascript contains two built-in functions to do this conversion.

- 1) parseInt()
- 2) parseFloat()

Ex:-

```
Var x, y, z;
```

```
x = parseInt(obj1.Value);
```

→ reference of TextBox 1

```
y = parseInt(obj2.Value);
```

→ reference of TextBox 2

```
z = x + y;
```

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4) Accessing reference of html elements:-

- we can get the reference of any html element by using "document" object.
- "getElementById" is function of "document" object.

Usage:

```
document.getElementById("id of html element");
```

Note: we can get the reference, we can accen the details of the element like value, text, attributes etc.,

5) Creating functions in Javascript:-

- If you write the code in script tag, it will execute only at the time of page load.
- If you prepare the code using functions, that can execute whenever we need.

Syntax:-

```
function fn-name([args])  
{  
    ...  
}
```

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Note:- No need to mention return type & arguments type.
Just provide required Arguments. Return statement can be include in function if required.

6) Event Handling:-

- All html elements supports events.
- We can handle these events by using Javascript functions.

Ex:-

<u>Description</u>	<u>html event</u>
page load	onload
Button click	onclick
Mouse over	onmouseover
mouse out	onmouseout
cursorEnter	onfocus
cursor leave	onblur

→ we can invoke the Javascript functions using these events.

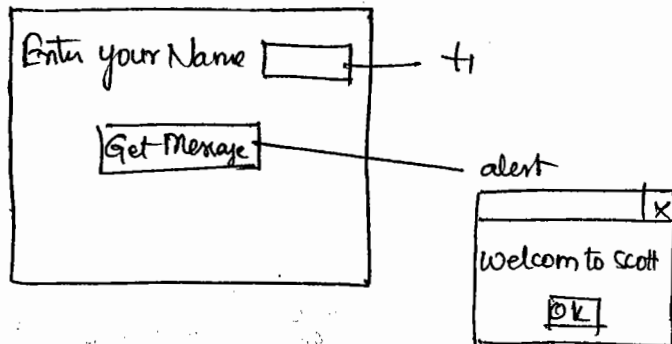
Ex:-

- 1) `<input type="Button" id="b1" onclick="f1()" />`
- 2) `<body onload="f1()" />`

Note:-

→ use the following statement to display output message:
`alert("message");`

Example 1:-



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<head>

```
<script type="text/javascript">
```

```
function f1()
```

```
{
```

```
var obj = document.getElementById("t1").value;
```

```
alert("Welcome to + " + obj.value);
```

```
}
```

```
</script>
```

</head>

<body>

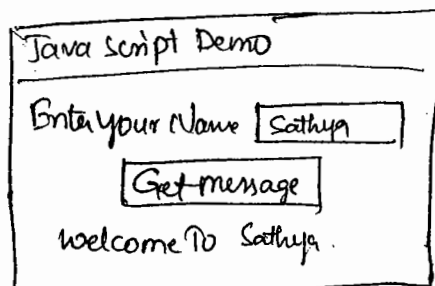
Enter your Name <input type="text" id="t1" />

<input type="button" id="b1" onclick="f1()" value="Get Message" />

</body>

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Example 2



```

<html>
<head>
  <script>
    function f1()
    {
      Var obj = document.getElementById("t1");
      Var spobj = document.getElementById("sp1");
      Spobj.innerHTML = "Welcome To <u>" + obj.Value + "</u>";
    }
  </script>
</head>
<body>
  <h1> Javascript Demo1 </h1>
  <hr>
  Enter your Name <input type="text" id="t1" /> <br><br>
  <input type="button" id="b1" onclick="f1()" Value="Getmessage" />
  <br><br>
  <span id="sp1" />
</body>
</html>

```

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Example 3:-

Enter First Number

Enter Second Number

Result is :

```

<html>
<head>
  <script>
    function f1()

```

}

Var obj1 = document.getElementById ("t1");

Var obj2 = document.getElementById ("t2");

Var z = parseInt (obj1.value) + parseInt (obj2.value);

Var spobj = document.getElementById ("sp1");

spobj.innerHTML = "Result is : " + z;

}

</script>

</head>

<body>

Enter first Number <input type="text" id="t1" />

Enter Second Number <input type="text" id="t2" />

<input type="button" id="b1" value="Add" onclick="f1()" />

</body>

</html>

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Example : 4:-

Enter first Number	<input type="text"/>
Enter Second Number	<input type="text"/>
<input type="button" value="Add"/>	<input type="button" value="Subtract"/>
<input type="button" value="Multiply"/>	<input type="button" value="Division"/>
Operation : Addition	Result : 20

<html>

<head>

<script>

function fnAdd ()

{

Var obj1 = document.getElementById ("t1");

Var obj2 = document.getElementById ("t2");

```

Var z = parseInt(obj1.Value) + parseInt(obj2.Value);
Var spobj1 = document.getElementById("sp1");
Var spobj2 = document.getElementById("sp2");
Spobj1.innerHTML = "Operation: " + btAdd Value;
Spobj2.innerHTML = "Result is: " + z;
}
function fnsub()
{
Var obj1 = document.getElementById("t1");
Var obj2 = document.getElementById("t2");
Var z = parseInt(obj1.Value) - parseInt(obj2.Value);
Var spobj1 = document.getElementById("sp1");
Var spobj2 = document.getElementById("sp2");
Spobj1.innerHTML = "Operation: " + btSub Value; Subtraction;
Spobj2.innerHTML = "Result is: " + z;
}
function fnmul()
{
Var obj1 = document.getElementById("t1");
Var obj2 = document.getElementById("t2");
Var z = parseInt(obj1.Value) * parseInt(obj2.Value);
Var spobj1 = document.getElementById("sp1");
Var spobj2 = document.getElementById("sp2");
Spobj1.innerHTML = "Operation: " + btMult Value; Multiply;
Spobj2.innerHTML = "Result is: " + z;
}

```

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< body >

Enter first Number <input type = "text" id = "t1" />
</br>

Enter Second Number <input type = "text" id = "t2" />
</br>

<input type = "button" id = "b1" value = "Add" onClick = "fnAdd()" />
</br>

<input type = "button" id = "b2" value = "Sub" onClick = "fnSub()" />
</br>

```
<input type="button" id="b3" value="Multiply" onClick="fn mul3"/>
<br></br>
```

```
<input type="button" id="bu" value="Division" onClick="fn Div3"/>
<br></br>
```

```
<span id="sp1"/>
```

```
<span id="sp2" />
```

```
</body>
```

```
</html>
```

```
<head>
```

```
<script>
```

```
function fnDiv3
```

```
{
```

```
var obj1 = document.getElementById("t1");
```

```
var obj2 = document.getElementById("t2");
```

```
var z = parseInt(obj1.value) / parseInt(obj2.value);
```

```
var spobj1 = document.getElementById("sp1");
```

```
var spobj2 = document.getElementById("sp2");
```

```
spobj1.innerHTML = "Operation : Division";
```

```
spobj2.innerHTML = "Result is: " + z;
```

```
}
```

```
</script>
```

```
</head>
```

Example 5: (Same example)

```
<html>
```

```
<head>
```

```
<script>
```

```
function fn-demo3 (arg)
```

```
{
```

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```
Var obj1=document.getElementById ("t1");
```

```
Var obj2=document.getElementById ("t2");
```

```
Var x = parseInt(obj1.Value);
```

```
Var y = parseInt(obj2.Value);
```

```
Var z=0;
```

```
Switch (arg)
```

```
{
```

```
Case "add" : z = x+y;
```

```
break;
```

```
Case "sub" : z = x-y;
```

```
break;
```

```
Case "mul" : z = x * y;
```

```
break;
```

```
Case "div" : z = x/y;
```

```
break;
```

```
}
```

```
Var spobj = document.getElementById ("sp1");
```

```
spobj.innerHTML = "Operation:" + arg ;
```

```
spobj.innerHTML += "Result is:" + z ;
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
Enter first Number <input type="text" id="t1"/>
```

```
Enter second Number <input type="text" id="t2"/>
```

```
<input type="button" id="b1" value="Add" onclick="fn-demo3('add')"/>
```

```
<input type="button" id="b2" value="Subtract" onclick="fn-demo3('sub')"/>
```

```
<input type="button" id="b3" value="multiply" onclick="fn-demo3('mul')"/>
```

```
<input type="button" id="b4" value="Division" onclick="fn-demo3('div')"/>
```

```
<span id="sp1">
```

```
</body>
```

```
</html>
```

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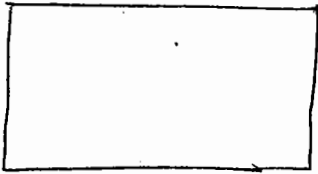
Task

Product Name	<input type="text"/>
Quantity	<input type="text"/>
Unit Price	<input type="text"/>
<input type="button" value="Get Total"/>	
Total Rs.	

↓
In Green color

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⇒ Example 6:-

Image1 ▼


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```
<html>
```

```
<head>
```

```
<script>
```

```
function fn-demo4()
```

```
{
```

```
var obj = document.getElementById("img1");
```

```
var obj2 = document.getElementById("list1");
```

```
var frame = "Images/" + obj.value + ".jpg";
```

```
obj.src = frame;
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
  Select Image : <select id="list1" onchange="fn-demo4()">
```


<option> Image 1 </option>

<option> Image 2 </option>

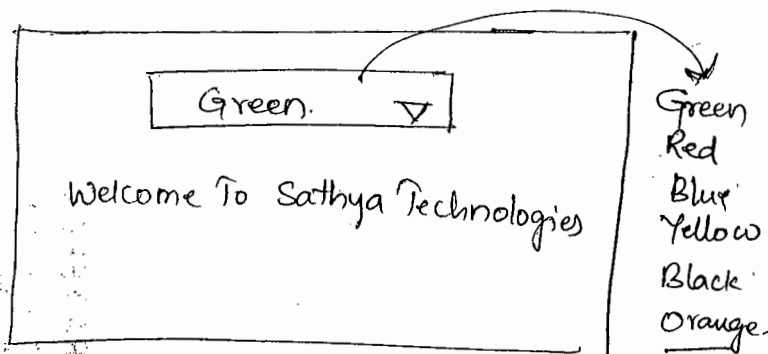
<option> Image 3 </option>

</select>

</body>

</html>

⇒ Example 7:-



<html>

<head>

<script>

function fn-demo5()

{

Var obj=document.getElementById ("list1");

Var obj1=document.getElementById ("h1");

// Var obj2=document.getElementById ("

obj1.style.color=obj.value;

}

</script>

</head>

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<body>

Select Color : <Select id = "list" .onChange = "fn-demo 5()">

<options> Green </options>

<options> Red </option>

<options> Blue </option>

<options> Yellow </option>

<option> Black </option>

</select>
 </br>

<h1 id = "h1">

~~<h1>~~ Welcome To Sathya Technologies

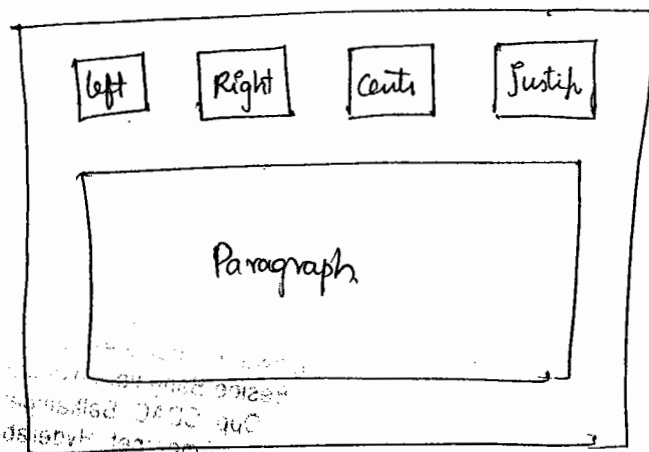
~~<h1>~~

</h1>

</body>

</html>

⇒ Example :-



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<html>

<head>

<style>

.img
{

border: 1px solid Gray;

height: 50px;

width: 50px;

}

.p
{

border: 2px solid Blue;

padding: 15px;

}

</style>

```

<script>
function fn-demo6(str)
{
var obj=document.getElementById ("p1");
obj.style.textAlign = str;
}
</script>
</head>
<body>




<br><br>
<p id="p1"> This is text paragraph to change the textAlign at runtime </p>
</body>
</html>

```

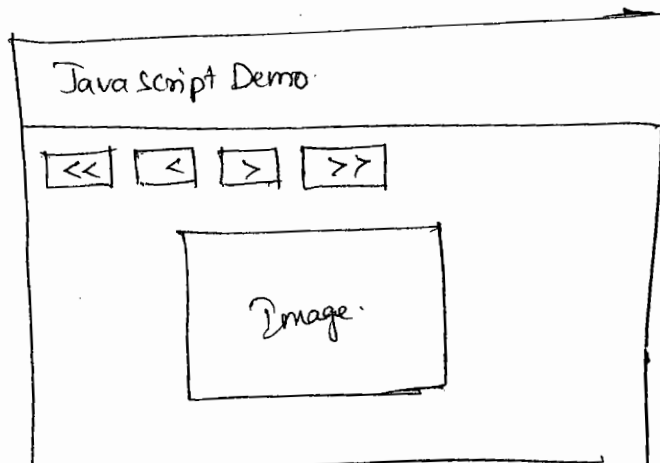
Task! onmouseover.

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⇒ Example 5.9!

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```
</html>
```

```
<head>
```

```
<script>
```

```
Var n=1
```

```
function f1() // Next Image
```

```
{
```

```
if(n==7)
```

```
{
```

```
n=0;
```

```
}
```

```
n=n+1;
```

```
Var obj=document.getElementById("img1");
```

```
String str="images/image"+n+".jpg";
```

```
obj.src=str;
```

```
}
```

```
function f2() // prev. Image.
```

```
{
```

```
if(n==1)
```

```
{
```

```
n=7;
```

```
}
```

```
n=n-1;
```

```
Var obj=document.getElementById("img1");
```

```
String str="images/image"+n+".jpg";
```

```
obj.src=str;
```

```
}
```

```
function f3() //first image
```

```
{
```

```
n=1;
```

```
Var obj=document.getElementById("img1");
```

```
String str="images/image"+n+".jpg";
```

```
obj.src=str;
```

```
}
```

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```
function f4() // last image.
```

```
{
```

```
    n = 7;
```

```
    var obj = document.getElementById('img1');
```

```
    string str = "images/image" + n + ".jpg";
```

```
    obj.src = str;
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1> JavaScript Demo </h1>
```

```
<hr />
```

```
<Button title = "first Image"
```

```
<Button title = "Prev Image"
```

```
<Button title = "Next Image"
```

```
<Button title = "last Image"
```

```
<br></br>
```

```
<img id = "img1" src = "images/image1.jpg" height = "200px" width = "200px"
border = "2px" />
```

```
</body>
```

```
</html>
```

⇒ Example 10 → Timer Example :-

```
<html>
```

```
<head>
```

```
<script>
```

```
    var n = 1;
```

```
    function fn-update()
```

```
    {
```

```
        if (n == 7)
```

```
        {
```

```
            n = 0;
```

```
        }
```

```
        n = n + 1;
```

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```
onClick = "f3()"
```

```
src = "images/image1.jpg" > << </Button>
```

```
onClick = "f2()"
```

```
src = "images/image1.jpg" > << </Button>
```

```
onClick = "f1()"
```

```
onClick = "f4()"
```

```

var obj = document.getElementById ("img");
string str = "images/image " + n + ".jpg";
obj.src = str;

```

```

}

```

```

var timerobj;

```

```

function fn_start()

```

```

{

```

```

    timerobj = setInterval (fn_update, 1000);

```

```

}

```

```

function fn_stop()

```

```

{

```

```

    timerobj = clearInterval();

```

```

}

```

```

</script>

```

```

</head>

```

```

<body>

```

```

<h1> Javascript Timer Example </h1>

```

```

<hr />

```

```

<Button onclick = "fn_start()" > Start </Button>

```

```

<Button onclick = "fn_stop()" > Stop </Button>

```

```

<br> <br>

```

```



```

```

</html>

```

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Cascading Style Sheets (css) in Web Development

→ By default all the html tags does not support attributes to change its appearance. (Background color, foreground color, etc...)

Ex:- <h1> tag does not support attributes to change Background Color.

→ To overcome these practical problems, css concept was introduced.

→ css stands for cascading style sheets.

→ By using css, we can apply any required appearances to all html tags.

→ In css, there is no restriction on applying styles to html elements.

⇒ Implementing of css:-

→ we can implement css concept at three different levels

1. Tag Level (inline)

2. Page Level (internal)

3. Project level (External)

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1) Tag Level:-

→ In tag level styles implementation, we are using "style" attribute.

→ "style" attribute can be applicable for all html tags.

Ex:-

<h1 style="color: Blue"> welcome </h1>

2) Page Level:-

→ If you want to apply same styles for multiple tags in the page, we can use page level styles.

→ Page level styles are implemented using "<style>" tag

→ <style> tag is defined within <head> tag.

Example:-

```
<head>
  <style>
    h1
    {
      color: Blue;
      Background-Color: Pink;
    }
  </style>
</head>
```

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3) Project Level:-

- If you want to apply same styles for multiple pages in the website, you can use "Project Level" styles.
- Project level styles are implemented by using a separate file (*.css).
- To refer the *.css file from html pages, we can use "<link>" tag.

Ex:-

```
<link href="MyStyle.css" rel="stylesheet"/>
```

Note:- We can use same tag from ASPX/CSHTML, *.jsp, *.php etc., files also in order to refer *.css file.

→ Major advantages of Project Level styles:

- 1) Reusability across multiple web pages.
- 2) Modifications will be more easier.

⇒ Defining styles:-

→ we can define the styles in css in three ways.

1. Tag name based.
2. Class name based. (.)
3. ID based. (#)

1) Tag Name Based:-

- By default CSS will consider as tagname based.
- In this option we are specify the tagname at the time of defining styles.

ex:- h1, span, p, table etc.,

2) Class Name Based:-

- If you want to apply styles for specific set of html elements, then we can use this option.
- first we have to provide class name for tags using "class" attributes.

Ex:- `<h1 class="c1">`
`<p class="c1">`
etc.,

- Then we can define the styles based on class name.

Ex:- `<style>`
 `.c1`
 {
 color: Red;
 }
`</style>`

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3) ID Based:-

- It is used to apply styles for specific element.
- provide the "id" for html element, then define the style based on id.

Ex:- ` -- `
`<style>`
 `#sp1`
 {
 color: Blue;
 }
`</style>`

→ Example to applying css styles to html webpage

```
<html>
  <head>
    <style>
      h1
      {
        background-color : Green;
        color : white;
      }
      • RedClan
      {
        border : 2px solid Red;
        background-color : Pink;
        color : Red;
      }
      • BlueClan
      {
        border : 2px solid Blue;
        background-color : LightBlue;
        color : DarkBlue;
      }
      #img1
      {
        border : 2px solid Red;
        height : 180px;
        width : 300px;
        padding : 5px;
        border-radius : 50px;
      }
    </style>
  </head>
```

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<body>

<h1> CSS DEMO </h1>

<h1> CSS DEMO </h1>

<hr></hr>

<P class = "RedClass"> This is test paragraph </P>

<P class = "BlueClass"> This is Test Paragraph </P>

</br>

</br>

CSS DEMO Web Page : Hello World

</body>

</html>

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⇒ Developing Webpages using jQuery :-

→ jQuery is a Javascript Library.

→ Using jQuery we can perform all client side activities.

→ jQuery library can be downloaded from below website.

www.jquery.com.

file: jquery-1.11.3.min.js.

Note :- Download & import the above file in your webpage..
by using <script> tag.

Ex: <script src = "jquery-1.11.3.min.js" > </script>

Ex 1 <!-- creating a webpage to display a welcome message using jquery -->

```
<html>
<head>
  <script src="jquery-1.11.3.min.js"> </script>
  <script>
    function f1()
    {
      $("#sp1").text("welcome to jquery programming");
    }
  </script>
</head>
<body>
  <h1> jQuery Programming Demo </h1>
  <hr/>
  <input type="button" id="b1" value="Get Message"
    onclick="f1()" />
  <br> </br>
  <span id="sp1"> </span>
</body>
</html>
```

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Ex 2 <!-- creating a webpage to display a message using ready event of jquery -->

```
<html>
<head>
  <script src="jquery-1.11.3.min.js"> </script>
  <script>
    $(document).ready
    (
```

```

function ( )
{
    alert ("welcome to ready event");
    $("#sp1").text ("welcome to ready event in jquery programming");
}

);
</script>
</head>
<body>
    <h1> jquery Ready event Demo </h1>
    <hr/>
    <span id="sp1"> </span>
</body>
</html>

```

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Note:-

1) $\$(document).ready()$;

⇒ \$: The \$ (dollar) jquery function. jquery function is called as factory function. which is used to refer all html elements in clientside programming.

→ Every statement in jquery starts with jquery function.

→ \$ is the shortcut notation of jquery function.

{e.g.} $\$()$ (oo) $jquery()$

⇒ document:- It is a predefined object in Javascript.

jquery uses this object, in order to execute "ready" event.

⇒ ready():-

→ It is a jquery event that will be fired, after all the document elements are ready.

- To subscribe this event, we have to pass a function that should execute, when the event is firing.
- we can subscribe the events in 2 ways.

1) By using named function

```
$ (document).ready (f1);
function f1()
{
    // function body.
}
```

2) By using un-Named / Anonymous functions

(i) \$ (document).ready (

```
function ()
{
    // Body
}
);
```

(ii) Standard:

```
$ (document).ready (function()
{
    // Body
});
```

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⇒ \$ ("#sp1").text ()

→ The Above statement is a jquery selector to access the reference of the span tag, based on id.

⇒ text (): → It is jquery function / method used to get (or) set text belongs to html tags (except html controls).

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⇒ jQuery Selectors:-

- jQuery selectors are used to get the reference of html elements.
- once we get the reference, we can apply / perform required operations.
- `$("string")` is referred as jQuery Selector.
- It provides several options to select html elements based on our requirement.
- Before applying any operation on html tags, first we need to select with jQuery selector.

Usage of jQuery Selectors:-

- we can select the html tags based on its attributes (or) tag name.
- jQuery selectors are implemented based on the following options.

1) Tag based

- Get the html elements based on the tag name.

Syntax:- `$("tagname")`

Ex:- `$("h1")`

`$("div")`

`$("p")`

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2) Class Based

- Get the html elements based on the class name.
- "class" is one of the attributes of html tags.
- "class" attributes is available for all html tags.
- It is ~~the~~ used to group more than one html elements

Syntax: `$(".className")`

Ex:- `$(".class1")`

`$(".myclass")`

3) ID Based

→ If you want to select specific element, you can select based on id.

Syntax:- `$("#id")`

Ex:- `$("#txt1")`

`$("#div1")`

`$("#p1")`

4) Select all elements

→ use "*" to select all elements.

Ex:- `$("*")`

5) Select multiple elements

→ If you want to select multiple items, specific names by separating with ", ".

Ex:- `$("h1, p")`

`$("#text1, "text2")`

`$(".class1, ".class2")`

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6) Selecting document

→ All jquery codes with placed within document selector.

Ex:- `$(document)`.

7) current Item Selection

→ To select current element, we can "`$(this)`" selector.

Ex:- `$(this)`

⇒ Example -

<!-- Create a webpage to perform sum operation using jquery -->

<html>

<head>

<script src="jquery-1.11.3.min.js"> </script>

<script>

\$(document).ready(function()

{

\$("#b1").click(function()

{

var x = \$("#t1").val(); // get

var y = \$("#t2").val(); // get

var z = parseInt(x) + parseInt(y);

\$("#t3").val(z); // set

});

});

</script>

</head>

<body>

<h1> jquery selectors </h1>

<hr></hr>

Enter first Number: <input type="text" id="t1" />
</br>

Enter Second Number: <input type="text" id="t2" />
</br>

Result <input type="text" id="t3" readonly="true" />
</br>

<input type="button" id="b1" value="sum" />

</body>

</html>

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⇒ Methods to get/set the content of html elements

1) Val()

→ Val() method is used to get/set value of html controls like textBox, password, checkBox etc.,

usage:-

```
Var x = $("#text1").val();  
$("#text1").val("Hello");
```

2) text()

→ This function is used to get/set data from content tags like <p>, <h1>, , etc...

usage:-

```
Var str = $("#p1").text();  
$("#p1").text("Hello World");
```

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3) html()

→ If you want set/get the text with html tags involvement, then you can use "html()".

usage:-

```
Var str = $("#p1").html();  
$("#p1").html("<u>Hello World-</u>");
```

4) attr()

→ By using this function we can get/set any attribute value.

usage:-

```
Var str = $("h1").attr("align");  
$("h1").attr("align", "center");
```

Example 1-

-- create a webpage to display total amount based on unit price & quantity using jquery -->

```
<html>
<head>
<script src='jquery-1.11.3.min.js'> </script>
<script>
$(document).ready(function()
{
$("#b1").click(function()
{
var s1=$("#pname").val();
$("#sp1").text("Product Name : " + s1)
var x=$("#uprice").val();
var y=$("#qty").val();
var z=parseFloat(x)*parseFloat(y);
$("#sp2").html("<u>Result : " + z + "</u>");
});
});
</script>
```

</head>

<body>

<h1> Product Details </h1>

<hr> </hr>

Product Name <input type="text" id="pname" />
</br>

Unit Price <input type="text" id="uprice" />
</br>

Total Quantity <input type="text" id="qty" />
</br>

<button id="b1"> Get Total </button>

</br>

</body>

</html>

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⇒

Enter first Number
Enter Second Number

<html>

<head>

<script src="jquery-1.11.3.min.js"> </script>

<script>

\$(document).ready(function()

{

\$("#c1").click(function()

{

var x = \$("#t1").val();

var y = \$("#t2").val();

var z = 0; var op = \$(this).val();

switch (op)

{

case "+":

z = parseInt(x) + parseInt(y);

break;

case "-":

z = parseInt(x) - parseInt(y);

break;

case "*":

z = parseInt(x) * parseInt(y);

break;

case "/":

z = parseInt(x) / parseInt(y);

}

\$("#t3").val(z);

});

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</script>

<head>

<body>

<h1> jQuery selectors </h1>

<hr></hr>

Enter first Number <input type="text" id="t1" />
</br>

Enter second Number <input type="text" id="t2" />
</br>

Result <input type="text" id="t3" />
</br>

readonly="true"

<input type="button" class="c1" id="b1" value="+" />

<input type="button" class="c1" id="b2" value="-" />

<input type="button" class="c1" id="b3" value="*" />

<input type="button" class="c1" id="b4" value="/" />

</body>

</html>

\$ ("TagName")

\$ ("#Id")

\$ (" .className")

\$ (this)

\$ (document)

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Notes

Styles in jQuery:

→ styles in jQuery:

- Applying styles to HTML elements using jQuery is one of the frequently required task.
- jQuery provides special methods to apply styles at runtime
- These methods supports all versions of CSS properties.

Methods:

1) css()

css("property", "value") — Single property.

css({property: value, property: value}) — Multiple property.

2) addClass("className")

3) removeClass("classname")

4) toggleClass("classname")

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1) css() — Single Property

→ By using this method we can get/set the style property values.

→ Get:

Syntax: \$(selector).css("prop");

Ex: var str = \$("#P1").css("color");

→ Set:

Syntax: \$(selector).css("prop", "value");

Ex: \$("#P1").css("color", "blue");

css() - Multiple properties

→ we can set multiple properties using this method.

Syntax: `$(selector).css({ "prop": "value", "prop": "value" });`

Ex: `$("#div1").css({ "color": "blue", "background-color": "Red" });`

Examples

<!-- create a webpage to change the background color based on focus/blur event using jquery -->

```
<html>
<head>
  <script src="jquery-1.11.3.min.js"> </script>
  <script>
    $(document).ready(function()
    {
      $(".c1").focus(function()
      {
        $(this).css("background-color", "pink");
      })
      $(".c1").blur(function()
      {
        $(this).css("background-color", "white");
      })
    });
  </script>
</head>
<body>
```

<h1> Styles in jquery </h1>

<hr/>

firstName <input type="text" class="c1"/>
 </br>

lastName <input type="text" class="c1"/>
 </br>

<input type="button" value="Registration"/>

</body>

</html>

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→ Example :-

<!-- Create a webpage to change the styles based on mouse events using Jquery -->

<html>

<head>

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

<style>

.c1

{

border : 1px solid Blue;

background-color : Blue;

color : White;

}

</script>

\$(document).ready(function()

{

~~\$(this).css({~~

var s1, s2;

\$(".c1").mouseover(function()

{

s1 = \$(this).css("background-color");

s2 = \$(this).css("color");

\$(this).css({ "background-color" : s2, "color" : s1 });

});

\$(".c1").mouseout(function()

{

\$(this).css({ "background-color" : s1, "color" : s2 });

});

});

</script>

</head>

<body>

<h1> Styles in Jquery </h1>

<Button class="c1"> Login </Button>

<Button class="c2"> Register </Button>

</body>

</html>

#8AC007:Green

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2) Add Class():

- This method is used to apply css class using jquery.
- It is easy to apply more number of css properties at a time with class.
- we can reuse existing css classes & integrate with jquery programming.
- To implement, first we need to prepare css class in your webpage (or) *.css file.

Syntax:-

`$(selector).addClass("classname");`

Ex:- `$("#div1").addClass("c1");`

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3) removeClass():

- This method will remove css classes from html element.
- It means it remove all css properties belongs to that class.

Syntax:- `$(selector).removeClass("classname");`

Ex:- `$("#div1").removeClass("c1");`

4) toggleClass():

- If you use this method, it will apply if element is not having style class.
- It will remove if element is having style class.

Syntax:- `$(selector).toggleClass("classname");`

Example:-

<!-- create a web page to apply styles using css class with jquery -->

```
<html>
  <head>
    <style>
      .BlueClass
      {
        border: 1px solid Blue;
        color: Blue;
      }
    </style>
  </head>
  <body>
```

• GreenClass

{

font-family : Arial;

color : Green;

</style>

<script src = "jquery-1-11-3.min.js" > </script>

<script>

\$(document).ready(function()

{

\$("#b1").click(function()

{

\$("#h1").addClass("BlueClass");

\$("#p1").addClass("GreenClass");

});

\$("#b2").click(function()

{

\$("#h1").removeClass("BlueClass");

\$("#p1").removeClass("GreenClass");

});

\$("#b3").click(function()

{

\$("#h1").toggleClass("BlueClass");

\$("#p1").toggleClass("GreenClass");

});

});

</script>

</head>

<body>

<h1> Styles in jquery - css classes </h1>

<h2>

<h1> Applying styles with css class </h1>

<p> This is Test Paragraph --- </p>

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<hr></hr>

<h1> Applying styles with CSS classes </h1>

<p> This is Test Paragraph --- </p>.

<hr></hr>

~~<div>~~ <Button id="b1"> Add CSS class </Button>

<Button id="b2"> Remove CSS class </Button>

<Button id="b3"> Toggle CSS class </Button>

</body>

</html>

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→ Event Handling in jQuery:-

→ jQuery library provides special methods in order to handle the events

→ It supports all the events of HTML elements.

→ we can handle the events in two ways.

1) Dynamic handling events.

2) Static handling events.

1) Dynamic handling events:-

→ It means at runtime we can handle (or) unhandled the events.

→ It is referred as bind/unbinding events programmatically.

→ To implement this, jQuery provides the following methods:

1) bind()

2) unbind()

1) bind(): This method is used to add a function to event.

Syntax:- \$(selector).bind("eventname", function);

usage:-

```
$("#div1").bind("click", function()
{
    // required code.
});
```

2) unbind():-

→ This method is used to remove the function from event.

→ After unbind, corresponding html element does not respond to user actions.

Syntax:- `$(selector).unbind("eventname");`

usage:- `$("#div1").unbind("click");`

Example:-

<!-- Create a webpage to add/remove the click event to div tag using dynamic event handling concept of Jquery -->

<html>

<head>

<script src="jquery.1-11-3.min.js"></script>

<script>

function f1()

```
{
    $("#div1").bind("click", function()
```

```
{
    alert("Message from div click event");
```

```
});
```

```
$("#div1").css("cursor", "pointer");
```

```
$("#sp1").text("Click event added to div tag");
```

```
});
```

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```
function f2()
```

```
{
```

```
$("#div1").unbind("click");
```

```
$("#div1").css("cursor", "auto");
```

```
$("#sp1").text("Click event is removed from div tag");
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1> jQuery Event Handling-Demo </h1>
```

```
</hr>
```

```
<Button onclick="f1()"> Add Event </Button>
```

```
<Button onclick="f2()"> Remove Event </Button>
```

```
<br><br>
```

```
<div id="div1" style="border: 2px solid blue; padding: 5px; background-color: pink;">
```

```
This is Test Paragraph. <br><br> This is Test paragraph.
```

```
</div>
```

```
<span id="sp1"> </span>
```

```
</body>
```

```
</html>
```

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2) Static Event Handling :-

→ It is a standard approach to process events.

→ In this approach, event binding is fixed before execution.

→ In order to implement, jQuery provides event handler function like:
click(), mouseover(), mouseout(), ready(), focus(), blur() etc.

→ Most of the examples we are using this approach.

Syntax →

`$(selector).eventname(function())`

```
{
  //
}
```

Example:-

<!-- Create a webpage to change the images dynamically based on mouse events for jquery -->

<html>

<head>

<script src="jquery-1.11.3.min.js"> </script>

<style>

.c1

{

margin : 2px;

border : 2px solid gray;

padding : 2px;

}

<script>

\$(document).ready(function()

{

\$("#~~main~~").mouseover(function()

{

var s1 = \$(this).attr("src");

\$("#main").attr("src", s1);

\$(this).css("border-color", "Gold");

});

\$("#c1").mouseout(function()

{

\$(this).css("border-color", "Gray");

});

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```

</script>
</head>
<body>
<h1> jQuery Events - Demo 2 </h1>
<hr>
 <br> <br>



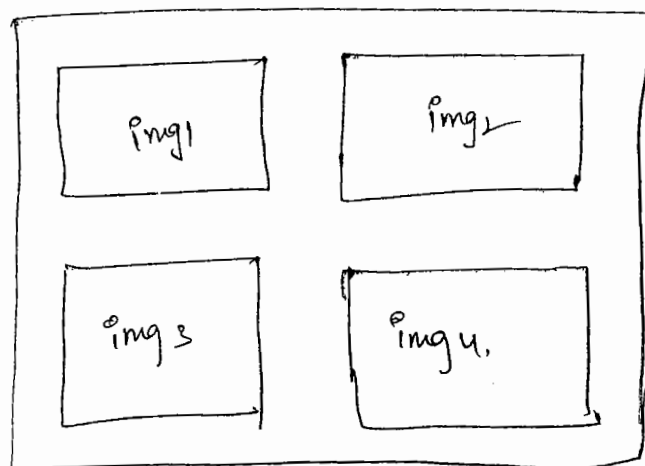

</body>
</html>

```

⇒ opacity : 1 → default. (full image)

0 → (No image).

Task



→ Changing the opacity on mouse events using jQuery

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⇒ DOM Traversing :-

- jQuery selectors are used to get the elements from the document.
- Most of the selectors will return all elements that are matching given selector expression.
- so that these selectors will return collection of objects (html elements).
- If you want to select specific item from the collection, jQuery provides special functions (or) selector options.
- By using these options we can easily traverse the items from the collection.

1) Traversing all items :-

→ we can traverse all items from the selector in 2 ways.

1) using `each()` function
- item based processing.

2) using `eq()` function
- index based processing.

Syntax :-

each: `$(selector).each(function()`
`{`
`$(this) --`
`---`
`});`

eg: `for (i=0; i<n; i++)`
`{`
`$(selector).eq(i);`
`}`

→ where "n" is length of the collection.

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Ques: Difference b/w "\$ (this)" and "this" in jquery.

→ Example:-

<!-- Create a webpage to access list items from the UL by using
eq() & each() -->

```
<html>
<head>
<script src="jquery-1.11.3-min.js"> </script>
<script>
$(document).ready(function()
{
    var str;
    $("#b1").click(function()
    {
        var n = $("#list1 li").length;
        str = "using Eq()";
        for(i=0; i<n; i++)
        {
            str = str + $("#list1 li").eq(i).text() + ", ";
        }
        $("#sp1").text(str);
    });

    $("#b2").click(function()
    {
        str = "using Each()";
        $("#list1 li").each(function()
        {
            str = str + $(this).text() + ", ";
        });
        $("#sp1").text(str);
    });
});
</script>
</head>
```

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```
<body>
```

```
<h1> jQuery DOM Traversing - Demo 1 </h1>
```

```
<hr>
```

```
<ul id="list1">
```

```
<li> jQuery </li>
```

```
<li> MVC </li>
```

```
<li> Angular JS </li>
```

```
<li> HTML </li>
```

```
<li> CSS </li>
```

```
</ul> <br><br>
```

```
<Button id="b1"> Value Get using eq() </Button>
```

```
<Button id="b2"> Get using each() </Button>
```

```
<hr></hr>
```

```
<span id="sp1"> </span>
```

```
</body>
```

```
</html>
```

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using eq : 'jQuery, mvc, an

→ Example:-

<!-- create a webpage to create multicolor list using jQuery -->

```
<html>
```

```
<head>
```

```
<script src="jQuery-1.11.3.min.js"> </script>
```

```
<style>
```

```
#list1
```

```
{
```

```
border : 2px solid Blue;
```

```
width : 150px;
```

```
height : 400px;
```

```
list-style : none;
```

```
padding : 3px;
```

```
}
```

```
#list li
```

```
{
```

```
border : 2px solid Black;
```

```
margin : 8px;
```

height : 20px

padding : 3px;

}

</style>

<script>

\$(document).ready(function()

{

var colors = ["Pink", "yellow", "LightBlue", "LightGreen", "lightGray"];

var n = \$("#list1 li").length;

j=0;

for(i=0; i<n; i++)

{

\$("#list1 li").eq(i).css("background-color", colors[j]);

j++;

if(j == colors.length)

{

j=0;

}

}

});

</script>

</head>

<body>

<h1>jQuery Dom Traversing - Demo 2 </h1>

<hr></hr>

<ul id="list1">

jQuery

mvc

Angular Js

HTML

css

</body>

</html>

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Task:

<!-- Create a webpage to apply multiple colors for each row in the given table -->

Product Name	Unit Price	Unit In Stock
→ Printer	2500.00	20
→ 4GB-RAM	1200.00	23
→ 1TB Samsung HDD	4500.00	0
wifi Router	1800.00	6
Printer.	2500.00	5

if (n%2 == 0)
{
 —
}

2) Traversing alternate items from the Collection:

- If you want to select alternate items from the collections, jQuery provides special options in selector Expression.
- It works based on index.
- Even number based index.
- odd number based index.

Usage:-

`$("#list+1 li: even")`
`$("#list+1 li: odd")`

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Above Example :

```
$(document).ready(function ()  
{  
  $("#list+1 li: even").css("background-color", "Blue");  
  $("#list+1 li: odd").css("background-color", "Green");  
}
```

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⇒ Traversing filtered Method

- jQuery selector will return all methods matched elements.
- filter() function will filter out elements that are match given selector

⇒ Syntax:- \$(selector).filter(selector)

Ex:-
\$("#list1 li").filter(".class1");
\$("#tbl1 tr").filter(".class2");

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Traversing not filtered elements

- filter() function will filter all matched elements from the given collection.
- not() function is simply negation of filter().
- not() will return items that are not matching given selector expression.

Syntax:- \$(selector).not(selector);

usage:-
\$("#tbl1 tr").not(".header");
\$("#tbl1 tr").not(".outofstock class");

Example

<!-- create a webpage to apply style to table rows by using jQuery filter options -->

```
<html>
<head>
<script src="jquery-1.11.3.min.js"> </script>
<script>
$(document).ready(function()
{
$("#tbl1 tr").filter(".outofstock").css("background-color",
"Blue");
}
```

```

$("#tabel1 tr").not(".outof stock").css("background-color", "Blue");
$("#tabel1 tr").first().css("background-color", "Green");
$("#tabel1 tr").css("color", "white");

```

```

3);

```

```

</script>

```

```

</head>

```

```

<body>

```

```

<h1> jQuery Dom Traversing </h1>

```

```

<hr>

```

```

<table align="center" id="tabel1" border="1" width="400px">

```

```

<tr>

```

```

<th> Product Name </th>

```

```

<th> Unit Price </th>

```

```

<th> Units in stock </th>

```

```

</tr>

```

```

<tr>

```

```

<td> Printer </td>

```

```

<td> 2500.00 </td>

```

```

<td> 20 </td>

```

```

</tr>

```

```

<tr>

```

```

<td> 4GB-RAM </td>

```

```

<td> 1200.00 </td>

```

```

<td> 23 </td>

```

```

</tr>

```

```

<tr class="outof stock">

```

```

<td> 1TB Samsung HDD </td>

```

```

<td> 5500.00 </td>

```

```

<td> 0 </td>

```

```

</tr>

```

```

<tr>

```

```

<td> 32-GB Kingston USB </td>

```

```

<td> 800 </td>

```

```

<td> 35 </td>

```

```

</tr>

```

```

</table>

```

```

</body>

```

```

</html>

```

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Note:-

~~jQuery~~ jQuery library provides the following methods to get first & last ^{elements} ~~item~~ from the selected collection.

- 1) $\$("selector").first()$
 - 2) $\$("selector").last()$
- } Syntax.

DOM Manipulations

Dom Manipulations

→ After accessing dom elements, we need modify them at runtime to perform clientside activities.

→ These Dom manipulation are categorized into two types.

- 1) content Based
- 2) structure Based.

1) content Based Manipulations:-

→ The following methods of jquery can be used to modify the content of the HTML elements.

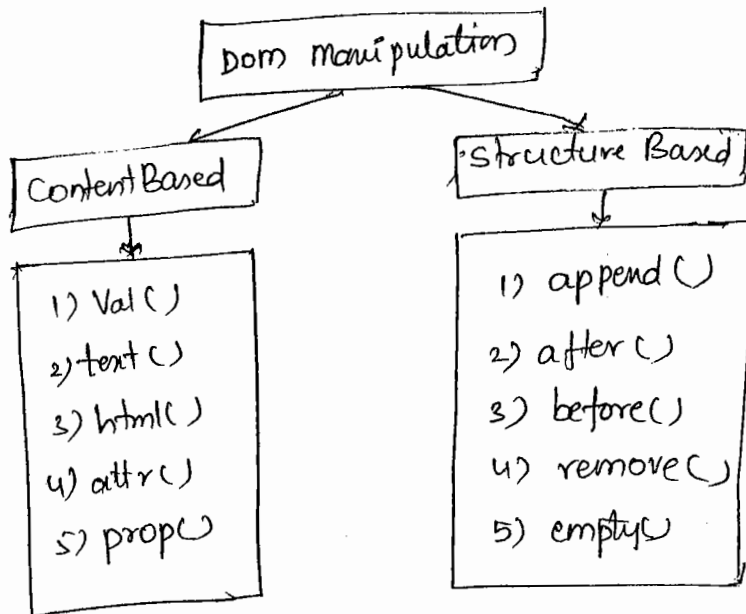
- 1) $text()$
- 2) $html()$
- 3) $val()$
- 4) $attr()$
- 5) $prop()$

2) Structure Based Manipulations:

- 1) $append()$
- 2) $after()$
- 3) $before()$
- 4) $empty()$
- 5) $remove()$

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Structure of DOM Manipulation

Example:-

<!-- create a webpage to demonstrate usage of DOM Manipulations -->

<html>

<head>

<script src="jquery-1.11.3-min.js"> </script>

<script>

var str = "<tr bgcolor='yellow'>";

str = str + "<td> wifi Router </td>";

str = str + "<td> 1500.00 </td>";

str = str + "<td> 5 </td>";

str = str + "</tr>";

function fn-append()

{
\$("#tabel1").append(str);

}

function fn-after()

{
\$("#tabel1 tr").first().after(str);

}

function fn-before()

{
\$("#tabel1 tr").last().before(str);

}

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```
function fn-empty()
```

```
{
```

```
  $("#table1").empty();
```

```
}
```

```
function fn-remove()
```

```
{
```

```
  $("#table1").remove();
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
  <h1>jQuery Dom Manipulations </h1>
```

```
  <hr>
```

```
  <button onclick="fn-append()">Append </button>
```

```
  <button onclick="fn-after()">After </button>
```

```
  <button onclick="fn-before()">Before </button>
```

```
  <button onclick="fn-empty()">Empty </button>
```

```
  <button onclick="fn-remove()">Remove </button>
```

```
  <br><br>
```

```
  <table id="table1" border="5" width="400px">
```

```
    <tr>
```

```
      <th>Product Name </th>
```

```
      <th>Product Cost </th>
```

```
      <th>Quantity </th>
```

```
    </tr>
```

```
    <tr>
```

```
      <td>Printer </td>
```

```
      <td>2500.00 </td>
```

```
      <td>20 </td>
```

```
    </tr>
```

```
    <tr>
```

```
      <td>4-GB RAM </td>
```

```
      <td>1200.00 </td>
```

```
      <td>23 </td>
```

```
    </tr>
```

```
  </table>
```

```
</body>
```

```
</html>
```

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Note:-

→ Empty the table except header row.

`$("#table1 tr").not("tr:header").empty();`

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⇒ JQuery Effects & Animations

→ In order to make the html elements show/hide at runtime, jquery provides built-in methods.

→ These methods will come with predefined effects.

→ we can perform same task without these methods, but we did not get the any visual effect.

→ But jquery effects methods provides visual effects, so, that it will add more richness to your Application.

Methods.

- 1) show()
- 2) hide()
- 3) Toggle()
- 4) fadeIn()
- 5) fadeOut()
- 6) fadeToggle()
- 7) slideDown()
- 8) slideUp()
- 9) slideToggle()
- 10) Animate()

usage:-

Syntax: `$(selector).effectMethod(speed);`

Ex:- `$("#img1").show(2000);`

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`$("#img1").show('fast');`

Note:-

- Duration can be specified with a number that represents in milliseconds.
- It also accepts string that take only following options.
 - normal, slow, speed.

Example 1:-

<!-- create a webpage to apply effects on Image using jquery function Effects methods -->

<html>

<head>

<script src="jquery-1.11.3-min.js"></script>

<script>

`$(document).ready(function()`

`{`

`$("#b1").click(function()`

`{`

`$("#img1").show(2000);`

`});`

`$("#b2").click(function()`

`{`

`$("#img1").hide(2000);`

`});`

`$("#b3").click(function()`

`{`

`$("#img1").toggle(2000);`

`});`

`});`

</script>

</head>

```

<body>
  <h1> jQuery styles </h1>
  <hr/>
  <button id="b1"> Show </button>
  <button id="b2"> Hide </button>
  <button id="b3"> Toggle </button>
  <br></br>
  

```

```

</body>
</html>

```

Example:-

<!-- Create a webpage to apply fade effects on images using
jQuery effects -->

```

<html>
  <head>
    <script src="jQuery-1-11-3-min.js"> </script>
    <style>
      .c1
      {
        height = 150px;
        width = 230px;
        border = 2px solid DarkBlue;
        border-radius : 50px;
        padding : 4px;
        margin : 5px;
      }
    </style>
  </head>
  <script>
    $(document).ready(function()
    {
      $(".c1").mouseover(function()
      {
        $(this).fadeIn(1000);
        $(this).fadeOut(1000);
      });
    });
  </script>

```

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```

</script>
<head>
<body>      Effects.
  <h1> jQuery styles </h1>
  <hr/>

</body>
</html>

```

Example 1:-

<1 — create a webpage to develop a Image Gallery with tiles and
apply effects using jQuery Effects -->

```

<html>
<head>
  <script src="jquery-1.11.3.min.js"></script>
  <style>
    td
    {
      height : 150px;
      width : 200px;
      text-align : center;
      background-color : LightYellow;
    }
    img
    {
      height : 130px;
      width : 180px;
      border : 1px solid DarkBlue;
      padding : 2px;
      border-radius : 10px;
    }
  </style>

```

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```

<script>
$(document).ready(function()
{
    $('#c1').hide();
    setInterval(f1, 1000);
});
function f1()
{
    $('#c2').toggle(2000);
    $('#c1').toggle(2000);
}

```

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```

</script>
</head>
<body>
<h1> jQuery effects </h1>
<hr/>
<table id="table1" border="1">
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</table>
</body>
</html>

```

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→ <!-- Create a webpage to apply slide effects to display product information -->

<html>

<head>

<script src="jquery.1.11.3.min.js"> </script>

<style>

#div1

{

border : 4px solid Green;

width : 200px;

padding : 5px;

text-align : center;

}

#P1

{

border : 4px solid Green;

width : 200px;

padding : 5px;

text-align : center;

background-color : LightYellow;

cursor : pointer; margin : 0px;

}

</style>

<script>

\$(document).ready(function()

{

\$("#div1").hide();

\$("#P1").click(function()

{

\$("#div1").slideToggle(2000);

});

});

</script>

</head>

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```

<body>
<h1> jQuery Effects - Sliding Effect </h1>
<hr>
<p id="p1"> show/hide Description </p>
<div id="div1">
    <h3> Product Title </h3>
    <hr>
    <p> This Description About this product </p> <br>
    
</div>
</body>
</html>

```

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➔ Animate() :-

→ Animate method will apply the animation based on the given ~~class~~ CSS properties.

→ It will apply the styles in given duration.

→ This method will accept 2 arguments.

- 1) CSS properties
- 2) duration.

→ we can provide multiple properties.

Syntax :-

\$(selector).animate({ "prop": "value", "prop": "value", ... }, duration);

Example :-

<!-- create a webpage to apply animation on image to change the position using jQuery Animation -->

```

<html>
<head>
    <script src="jquery-1.11.3.min.js">
</script>

```



```

<style>
#img1
{
width : 80px;
height : 80px;
position : relative;
left : 5px;
top : 5px;
}
#div1
{
border : 5px double Green;
width : 600px;
height : 300px;
padding : 5px;
}

```

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```

</style>
<script>
$(document).ready(function()
{
  $("#b1").click(function()
  {
    $("#img1").animate({left: "520px", top: "5px"}, 1000);
    $("#img1").animate({left: "520px", top: "220px"}, 1000);
    $("#img1").animate({left: "5px", top: "220px"}, 1000);
    $("#img1").animate({left: "5px", top: "5px"}, 1000);
  });
});

```

```

</script>
<head>
<h1> jQuery Animation </h1>
<h1>
<button id="b1"> Start Animation </button>
<br><br>

```

```
<div id="div1">
  
</div>
</body>
</html>
```

→ jqueryui.com → custom downloads → stable.

- 1) Images
- 2) jquery-1.11.3.min.js
- 3) jquery-ui.css
- 3) jquery-ui.js

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⇒ jQuery UI:-

- jQuery UI is a special library developed by jQuery team.
- It provides several function which makes your webpage is more richness related features to UI.
- It works based on core jQuery library.
- To implement jQuery-UI, you need to include following files:
 1. jquery-1-11-3.min.js
 2. jquery-ui.js
 3. jquery-ui.css
 4. Required Images.
- The Above files can be download from www.jqueryui.com.
- The downloaded *.zip file contains all the required files.

Primary features of jquery-UI:-

→ All the features are divided into 4 categories.

- 1) Interactions.
- 2) Effects
- 3) widgets.
- 4) Themes.

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→ Jquery UI Interactions:-

1) Draggable:-

→ ~~jquery~~ Draggable function of jquery UI allows the user can drag and drop an html element.

→ By default end user cannot move the items from one place to another place.

→ This feature allows to position the items with in the page.

Syntax:- `$(selector).draggable();`

Ex:- `$("#img1").draggable();`

2) Resizable:-

→ Resizable function of jquery UI allows the user can resize the html elements.

→ usually end-user cannot resize the item on the webpage.

→ This feature you can apply for any html elements like img, div, p etc.

Syntax:- `$(selector).resizable();`

`$("#img1").resizable();`

Example

<!-- Create the webpage to allow the user to drag & resize the elements
using jquery UI --->

```
<html>
```

```
<head>
```

```
<script src="jQuery.1-11.3.min.js"></script>
```

```
<script src="jQuery-ui.js"></script>
```

```
<link href="jQuery-ui.css" rel="stylesheet"/>
```

```
<style>
```

```
#div1
```

```
{
```

```
border: 5px solid Red;
```

```
}
```

```
.c1
```

```
{
```

```
border: 2px solid Blue;
```

```
height: 150px;
```

```
width: 200px;
```

```
margin: 5px;
```

```
}
```

```
</style>
```

```
<script>
```

```
$(document).ready(function()
```

```
{
```

```
$(".c1").draggable();
```

```
$("#div1").resizable();
```

```
$("#img1").resizable();
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1> jQuery-UI Interactions </h1>
```

```
<hr/>
```

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<div id="div1"> Sample content in div tag that allows resizable by user...

</div>

</body>

</html>

Folder structure

E:\jQuery-UI

[images]

jQuery-1.11.3.min.js

jQuery.UI.js

jQuery.UI.css

Demo.html

Image1.jpg

Image2.jpg

[jQuery-UI built-in Images]

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3) Sortable:-

→ Sortable function allows the user to adjust the items within the lists.

→ In this option, items will adjust the positions automatically.

→ Generally this feature we are applying for lists related tags/Collection items.

Syntax:- \$(selector).sortable();

Ex:- \$("#list1").sortable();

Example

<!-- create a html page to create number puzzle using jquery-ui Sortable() -->

<html>

<head>

<script src="jquery-1.11.3.min.js"></script>

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

<link href="jquery-ui.css" rel="stylesheet"/>

<script>

\$(document).ready(function()

{

\$("#list1").Sortable();

});

</script>

<style>

ul

{

border : 2px solid Red;

width : 90px;

height : 80px;

list-style : none;

padding : 2px;

}

ul li

{

background-color : Blue;

color : white;

float : left;

padding : 1px;

margin : 4px;

border-radius : 50px;

cursor : pointer;

width : 15px;

height : 15px;

text-align : center;

}

</style> </head>

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<body>

<h1> Number puzzle </h1>

<hr/>

<ul id="list1">

 5

 8

 4

 1

 9

 7

 3

 2

 6

</body>

</html>

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4) Selectable() :-

- By default list tags doesnot allow to select items in the list
- selectable() function of jquery will allows the user to select any item from list.

Note :-

- To implement this ~~function~~ feature you need to provide style for selected item.
- It will be based on css class: "ui-selected".
- It also provides a event called "selected" to add any logic at the time of selection.

Syntax:- \$(selector).selectable();

Ex:- \$("#list1").selectable();

Example:-

<!-- create a webpage to allow the user to select course name from unordered list using jquery-ui interactions -->

<html>

<head>

<script src="jquery-1.11.0.min.js"></script>

<script src="jquery.ui.js"></script>

<link href="jquery-ui.css" rel="stylesheet">

<style>

ul ui-selected

{

background-color: Blue;

color: White;

}

#List1

{

border: 2px solid Blue;

width: 150px;

height: 200px;

list-style: none;

padding: 3px;

}

ul li

{

border: 2px solid Black;

margin: 8px;

height: 20px;

padding: 3px;

background-color: pink;

cursor: pointer;

}

</style>

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```

<script>
$(document).ready(function()
{
    $("#List1").selectable({selected: function()
    {
        var str = $(".ui-selected").text();
        $("#spi").html("selected course : " + str);
    }
    });
</script>
</head>
<body>
<h1>jQuery UI - Interactions </h1>
<hr>
<span id="spi"></span> <br/>
<ul id="List1">
    <li>jQuery </li>
    <li>AngularJS </li>
    <li>HTML </li>
    <li>CSS </li>
    <li>JavaScript </li>
</ul>
</body>
</html>

```

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⇒ JQuery UI- Widgets:

- JQuery-ui Library provides another module called "widgets".
- This module having several functions that you can apply div, list, buttons, inputs etc.,
- By using this module we can apply additional UI related features like tabs, menus, collapsible panels etc.,
- widgets also provides new controls like calendar for date selection.

Note:-

- All JQuery-ui widgets are themeable (i.e., if you change the ui theme all widgets will get affected with that theme.

1) button()

- It is provide JQuery-ui button styles.
- It will change the styles in mouseover & mouseout events.

Syntax: \$(selector).button();

Ex: \$('#b1').button();

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2) Accordion Panels

- Accordion Panels are also called collapsable panels.
- It will looks like horizontal tabs.
- In the same place we can organize multiple contents based on the selected section.
- If you select one section, remaining sections will be minimized (collapse).

Implementation

```
<div id="main">  
  <h3> heading </h3>  
  <div> Content --- </div>  
  ---  
</div>
```

→ Apply Accordion function to "main" division.

```
$("#main").accordion();
```

Example:—

<!-- create a webpage to implement jquery-ui widgets button & accordion panel -->

```
<html>
<head>
  <script
  <script
  <link
  <style>
    .cl
    {
      height : 50px;
    }
    #main
    {
      width : 500px;
    }
  </style>
  <script>
    $(document).ready (function ()
    {
      $("input:button").button();
      $("#main").accordion();
    }
  </script>
</head>
<body>
  <h1> jQuery-UI widgets </h1>
  <hr>
```

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```

<input type="button" value="Login">|
<input type="button" value="Register">|
<input type="button" value="update"/> <br><br>
<div id="main">
  <h3> jQuery </h3>
  <div class="ci"> This panel contains content related to jquery -- </div>
  <h3> JSP </h3>
  <div class="ci"> This panel contains content related to JSP - </div>
  <h3> HTML </h3>
  <div class="ci"> This panel contains content related to HTML - </div>
</div>
</body>
</html>

```

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Note:-

→ To set default panel:

```
$("#main").accordion({activate: 2});
```

By default activate panel is set to 0.

→ To change the default event:

```
$("#main").accordion({event: "mouseover"});
```

→ By default it is set to "click" event.

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3) Tooltip

→ In HTML we can apply Tooltip by using "Title" Attribute.

* Syntax: <tag title="tooltip text" --> <input type="button" title="user login"/>

→ By using jQuery ui we can provide more richness to these tooltips.

→ This you can apply at document level, so that all HTML elements

this option will be applicable.

usage: `$(document).tooltip();`
`$('#input-button').tooltip();`

4) Tabs:-

→ `Tabs()` function of jquery allows us to organize the content into multiple tabs.

→ So that in the same area we can display different contents based on the selected tab.

usage: `$(selector).tabs();`
`$('#maindiv').tabs();`

Example:-

<| create a webpage to implement tooltip and tabs of jquery-ui widgets ->

```
<html>
<head>
  <script src="jquery-1.11.3.min.js"></script>
  <script src="jquery-ui.js"></script>
  <link href="jquery-ui.css" rel="stylesheet"/>
</head>
<body>
  <div id="main">
    <div id="img">
      <img alt="A placeholder for an image." data-bbox="150 750 200 780"/>
    </div>
  </div>
</body>
</html>
```

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```

<script>
    $(document).ready(function()
    {
        $('input:button').tooltip();
        $('#main').tabs({ active: 1, event: 'mouseover' });
    });

```

```

</script>

```

```

<head>

```

```

<body>

```

```

<h1> jQuery-UI widgets </h1> <hr>

```

```

<input type="button" title="userLogin" value="login"/>

```

```

<input type="button" title="user Registration" value="Registration"/>

```

```

<input type="button" title="update user details" value="update"/>

```

```

<br><br>

```

```

<div id="main">

```

```

<ul>

```

```

<li><a href="#div1">jQuery</a></li>

```

```

<li><a href="#div2">JSP</a></li>

```

```

<li><a href="#div3">ASP.NET</a></li>

```

```

</ul>

```

```

<div id="div1">

```

This panel contains content related to jQuery.

```



```

```

</div>

```

```

<div id="div2">

```

This panel contains content related to JSP.

```



```

```

</div>

```

```

<div id="div3">

```

This panel contains content related to ASP.NET.

```



```

```

</div>

```

```

</div>

```

```

</body>

```

```

</html>

```

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B) dialog() :-

- jQuery UI "dialog()" method used to display the content as dialog box.
- we can apply this method to any tag like div, tables, etc.
- In any jQuery events we can display the content as dialog box.

Ex:- button click, hyperlink click, etc...

usage:-
`$(selector).dialog();`
`$("#div1").dialog();`

Note:-

1) useful options:-

autoOpen: false,
height: "430"
width: "600"
modal: true,
resizable: false,
draggable: false.

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2) Show dialog / close dialog

`$(selector).dialog("open");`
`$(selector).dialog("close");`

Example:-

<!-- create a webpage to implement image gallery using dialog() method of jQuery-UI widgets -->

```
<html>
<head>
  <script src="jquery-1.11.3.min.js"> </script>
  <script src="jquery-ui.js"> </script>
  <link href="jquery-ui.css" rel="stylesheet"/>
</head>
```

<style>

• c1

{

height : 150px;

width : 200px;

border : 2px solid Blue;

padding : 3px;

margin : 3px;

}

#main

{

height : 250px;

width : 300px;

margin : 5px;

}

</style>

<script>

\$(document).ready(function()

{

\$("#main").hide();

\$("#main").dialog({

{

autoOpen : false,

height : "430",

width : "600",

modal : true,

resizable : false,

draggable : false

});

\$("#c1").click(function()

{

var str = \$(this).attr("src");

\$("#main").attr("src", str);

\$("#main").dialog("open");

});

});

</script>

</head>

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show: { effect : "^{fading}~~explode~~_{blind}", duration : 2000 }.

hide: { effect : "~~explode~~^{fading}_{blind}", duration : 2000 }

<body>

<h1> jquery-ui widgets </h1> <hr>

</body>

</html>

Note:-

3) Dialog with effects:

show : { effect : "explode", duration : 1000 }

hide : { effect : "explode", duration : 1000 }.

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* Custom Buttons:-

custom Buttons to dialogBox:

buttons : [{ text : "cancel",

click : function()

{

Code(),

}

},

{ text : "OK",

click : function()

{

Code(),

}

}];

```

$( "#main" ).dialog (
{
  buttons: [
    {
      text: "Get Image Name",
      click: function()
      {
        var str = $( "#main" ).attr ( 'src' );
        alert ( "Current Image Name : " + str );
      }
    },
    {
      text: "Cancel",
      click: function()
      {
        $( "#main" ).dialog ( "close" );
      }
    }
  ]
});

```

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4) Date picker:-

- Datepicker function will provide month, calendar control so, that user can easily select the date.
- Selected date will display in the specified textbox.
- In this control we can easily navigate b/w months, dates, years.

usage:-

```

$(Selector).datepicker();
$( "ti" ).datepicker();

```

Note:-

- use the following options to customize datepicker.

- 1) change year : true
- 2) changemonth : true
- 3) minDate : 0
"-10D"
- 4) MaxDate : 0
"10D"
"3m"

5) Auto complete :-

- Auto complete function of jquery will show list of options suitable to the data that you type in the text box.
- It search the options based on the characters enter by user.
- It will display all possible options from the given source (array)
- Source array need to prepare as string array contains all possible options.

Usage:- \$(selector).autocomplete(
 {
 source: arrayname
 });

<!-- create html webpage to demonstrate usage of auto complete and DatePicker methods of J-Query-UI -->

<html>

<head>

<script

<script

<link

<script>

\$(document).ready(function()

{

var courses = ["php", "ASP.NET", "ASP.NET MVC", "mvc", "c#"];

\$("#ti").autocomplete(
 {
 source: courses
 });

});

\$("#ti").datepicker(
 {
 minDate: "-10d",
 maxDate: "+10d",
 });

</script>

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</body>

<h1> JQuery AutoComplete & Date Picker </h1> </br>

Course Name: <input type="text" id="t1" /> </br>

Course Start Date: <input type="text" id="t2" />

</body>

</html>

6) Menu :-

→ JQuery UI provides another useful function that makes menu preparations. is more comfortable.

→ In order to implement menus in JQuery we need to prepare all the required options by using tag.

→ Apply "menu()" on tag.

Syntax :- \$(selector).menu();

Ex :- \$("#menu li +").menu();

<!-- JQuery - UI Menu -->

<html>

<head>

<style>

ul

{

width: 150px;

}

</style>

<script>

\$(document).ready(function()

{

\$("#li +").menu();

});

</script>

</head>

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<body>

<h1> jQuery-UI Menu </h1> </hr>

 list

<ul id="list1">

 jQuery

 Java

 Core Java

 Adv. Java

 PHP

 Net *

 ASP.NET

 ASP.NET MVC

</body>

</html>

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⇒ jQuery-UI Effects :-

→ jQuery-UI library provides new set of methods related to applying effects to html elements.

→ Most of the methods are override the existing method of core jQuery.

→ These methods will provide additional behaviour to our html elements.

→ It can add more richness to your webpages by providing more visual effects.

usage Effects() function

→ JQuery-ui library provides a function called "effects" which is used to apply different types of visual effects.

→ We can apply this function on any html elements.

→ It will apply at the time of show/hide an html elements.

Syntax: `$(selector).effect(
 "effect Name",
 Option,
 duration,
 call back-function);`

Ex: `$("#img1").effect("slide", {direction: "left"}, 2000, function ()
 {
 // Code that will execute effect completion of applying effect.
 }
});`

Details about effect() parameters:-

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1) effect Name:

→ It is a string parameter specifies type of effect that you want to apply.

- | | |
|----------------------|-----------|
| - blind | - shake |
| - clip | - scale |
| - explode | - pulsate |
| - fold | - slide |
| - bounce | - size |
| - drop | |
| - fade | |
| - highlight | |
| - puff | |
| - pulsate | |


```
if(str == "scale")
```

```
{
```

```
    obj = { percent: "150" };
```

```
}
```

```
if(str == "highlight")
```

```
{
```

```
    $("#head1").effect("highlight", obj, 3000);
```

```
    return;
```

```
}
```

```
$("#img1").effect(str, obj, 2000, function()
```

```
{
```

```
    $(this).show();
```

```
});
```

```
});
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1 id="head1">jQuery - UI effects </h1>
```

```
<hr>
```

```
<select id="list1">
```

```
<option> blind </option>
```

```
<option> clip </option>
```

```
<option> bounce </option>
```

```
<option> drop </option>
```

```
<option> explode </option>
```

```
<option> fade </option>
```

```
<option> fold </option>
```

```
<option> highlight </option>
```

```
<option> scale </option>
```

```
<option> size </option>
```

```
</select> <br><br>
```

```

```

```
</body>
```

```
</head>
```

```
</html>
```

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<-- Create a webpage of html to make image slide show using jquery
UI effects -->

<html>

<head>

<script src="jquery-1.11.min.js"></script>

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

<link href="jquery-ui.css" rel="stylesheet"/>

</script>

Var n=1;

\$(document).ready(function()

{

\$("#img1").hide();

fn-show();

});

function fn-show()

{

\$("#img1").effect("slide", {direction: "right"}, 2000, function()

{

setTimeout("fn-hide()", 2000);

});

}

function fn-hide()

{

\$("#img1").effect("slide", {direction: "left"}, mode: "hide",
2000, function()

{

n=n+1;

if(n==8)

{

n=1;

}

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```
$('#img1').attr("src", "Images2/Image" + n + ".png");
fn-show();
```

```
});
```

```
}
```

```
</script>
```

```
</head>
```

```
<body background = "Bg-Road.jpg">
```

```
<br><br>
```

```
<img id = "img1" src = "Images2/Image1.png" height = "250px" width = "550px"/>
```

```
</body>
```

```
</html>
```

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JQuery-UI Themes

- jquery-ui provides some different types of themes to make jquery-ui items more colorful.
- These themes we can download from jquery-ui theme roller section.

<http://jqueryui.com/themeroller>

- Download the theme files and placed required files in your project folder.
- Create separate folder for each theme and place following files.
 - 1) jquery-ui.css
 - 2) [Images] folder.

Example:-

creat html page to change the theme dynamically by using jquery-ui themes.

— Theme1

- [Images]
- jquery.ui.css

— Theme2

- [Images]
- jquery.ui.css

— jquery-1.11.3.min.js

— jquery.ui.js

— ThemeDemo.html.

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<!-- Create a webpage to apply jquery-ui themes at runtime -->

<html>

<head>

<script src="jquery-1.11.3.min.js"></script>

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

<link href="theme1/jquery-ui.css" rel="stylesheet"/>

<style>

• Cl

{
height : 50px;

}

#main

{

width : 500px;

}

</style>

<script>

\$(document).ready(function()

{

\$("#List1").change(function()

{

var str = \$(this).val() + "/jquery-ui.css";

\$("#Link1").attr("href", str);

});

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```

$("#div2").datepicker();
$("input:button").button();
$("#main").accordion({ active: 2, event: "mouseover" });

```

```

});

```

```

</script>

```

```

</head>

```

```

<body>

```

```

<h1> jQuery-UI Themes </h1> <hr>

```

```

Select Theme : <select id="list1">

```

```

    <option> Theme1 </option>

```

```

    <option> Theme2 </option>

```

```

    <option> Theme3 </option>

```

```

    <option> Theme4 </option>

```

```

</select>

```

```

<br> <br>

```

```

<div id="div2"> </div> <br>

```

```

<div id="main">

```

```

    <h3> jQuery </h3>

```

```

    <div class="ci"> This panel contains content related to jQuery ~

```

```

    </div>

```

```

    <h3> JSP </h3>

```

```

    <div class="ci"> This panel contains content related to JSP. </div>

```

```

    <h3> PHP </h3>

```

```

    <div class="ci"> This panel contains content related to PHP. </div>

```

```

    <h3> ASP.NET </h3>

```

```

    <div class="ci"> This panel contains content related to ASP.NET...

```

```

    </div>

```

```

</div>

```

```

</body>

```

```

</html>

```

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JQuery - Plugin's.

- Additional libraries that are developed based on JQuery Library. are called "jQuery-Plugin".
- JQuery team is provides some plugins like jquery-ui.
- Similarly there are other jquery plugin's available in internet.
- If you want to use any jquery plugin's, you need to download from corresponding files from that website.
- we need the following files in most of the jquery plugin's:
 - 1) *.js file related to plugin
 - 2) *.css file
 - 3) required images
 - 4) JQuery Library.

Examples of jquery plugin websites

- 1) <http://bxslider.com/>
- 2) <http://wowslider.com/>
- 3) <http://sliderjs.com/> etc.,

<!-- create a webpage to implement image slide show using bxslider
jquery-plugin -->

```
<html>
<head>
  <script src="jquery-1.11.1.min.js"> </script>
  <script src="jquery.bxslider.js"> </script>
  <link id="link1" href="jquery.bxslider.css" rel="stylesheet"/>
</head>
```

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```
<style>
```

```
img  
{
```

```
height : 300px;
```

```
width : 100%;
```

```
}
```

```
</style>
```

```
<script>
```

```
$(document).ready(function()
```

```
{
```

```
$("#bxslider").bxslider({
```

```
{
```

```
auto : true;
```

```
autoControls : true;
```

```
});
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1>jQuery bxslider Plug-in </h1> </hr>
```

```
<ul class="bxslider">
```

```
<li> </li>
```

```
<li> </li>
```

```
<li> </li>
```

```
</ul>
```

```
</body>
```

```
</html>
```

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⇒ jQuery Validation Plug-in ↗

- Basic jQuery library does not provide any methods/properties to perform validations.
- performing validations is one of the primary activity in client side programming.
- To implement jQuery based validations, you need to download special validation jQuery plug-in from the below website.

<http://jqueryvalidation.org/>

Required files ↗

- 1) jQuery-1.11.3.min.js
- 2) jQuery.validate.js.

←--! create a html page to implement validations using jQuery validation
plug-in -->

```
<html>
```

```
<head>
```

```
<script src="jQuery-1.11.3.min.js"></script>
```

```
<script src="jQuery.validate.js"></script>
```

```
<style>
```

```
.error
```

```
{
```

```
color: Red;
```

```
}
```

```
</style>
```

```
<script>
```

```
$(document).ready(function()
```

```
{
```

```
$ ("form1").validate({
```

```
{
```

```
rules: { txtUsername: { required: true },  
txtPass1: { required: true },  
txtPass2: { equalTo: "#txtPass1" },  
txtEmail: { required: true, email: true },  
txtAge: { min: 20, max: 40 },  
txtCity: { minlength: 3, maxlength: 10 }
```

```
},
```

```
messages: { txtUsername: "User name is required",  
txtEmail: { required: "Email id is required",  
email: "Email id should in proper format" }.
```

```
}
```

```
});
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1> JQuery Validation Plug-in </h1> </hr>
```

```
<form id="form1">
```

```
UserName: <input type="text" id="txtUsername" name="txtUsername" /> <br/>
```

```
Password: <input type="password" id="txtPass1" name="txtPass1" /> <br/>
```

```
Retype Password: <input type="password" id="txtPass2" name="txtPass2" /> <br/>
```

```
Email-id: <input type="text" id="txtEmail" name="txtEmail" /> <br/>
```

```
Age: <input type="text" id="txtAge" name="txtAge" /> <br/>
```

```
City: <input type="text" id="txtCity" name="txtCity" /> <br/>
```

```
<input type="submit" value="Register" id="sb1" name="sb1" />
```

```
</form>
```

```
</body>
```

```
</html>
```

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12/11/15

AJAX programming in JQuery.

What is AJAX?

- AJAX- Asynchronous JavaScript And XML.
- AJAX is a client-side programming technique used to communicate with server Asynchronously.

Note:-

- This technique is first identified and used by Google team.

Advantages of AJAX:-

- 1) Quick Response.
- 2) Reduced burden on the server.
- 3) Reduce network traffic.
- 4) Partial page updates.

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Implementing AJAX programming:-

- AJAX can be implemented using JavaScript.
- If we use only JavaScript, it will be difficult & time consuming programming.
- In order to make AJAX programming easy, there are several JavaScript libraries available.

Ex:- 1) JQuery

2) Angular Js

3) Dojo

4) MooTools. etc.

Implementing AJAX programming in JQuery:

- JQuery provides a built-in function called "ajax()" to implement AJAX programming.
- In AJAX programming, your JavaScript code is responsible to send the request, receive the response & display in the webpage.

AJAX Function :-

Syntax: `$.ajax({ url: " ",
type: "POST",
data: " ",
contentType: "application / JSON",
success: function(response)
{
// response handling logic
}
});`

<!-- Create a webpage to display Dept data from server using AJAX -->

- 1) ServerData.txt
- 2) AJAX Demo.html

1) Server Data.txt

[{ "Deptno": 10, "Dname": "Accounts", "Loc": "Hyd" },
{ "Deptno": 20, "Dname": "Sales", "Loc": "Hyd" },
{ "Deptno": 30, "Dname": "Marketing", "Loc": "Hyd" }]

2) AJAX Demo1.html

<html>

<head>

<title> </title>

<script src="Scripts/jquery-1.11.3.min.js"> </script>

<script>

\$ (document).ready(function()

{
\$ (" #b1").click(function()

{

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```

$.ajax( url = "ServerData.txt",
        type = "GET";
        data = "";
        contentType = "application/JSON";
        success: function (response)
        {
            var obj = $.parseJSON(response);
            for (i = 0; i < obj.length; i++)
            {
                var str = "<tr>";
                str = str + "<td>" + obj[i].Deptno + "</td>";
                str = str + "<td>" + obj[i].Dname + "</td>";
                str = str + "<td>" + obj[i].Loc + "</td>";
                str = str + "</tr>";
                $("table").append(str);
            }
        }
    );
}

```

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```

</script> </head>
<body>
<h1> AJAX Demo by using jquery </h1> <br>
<button id="b1">GetData </button>
<br> </br>
<table id="table1" border="1" width="400">
    <tr>
        <th> Deptno </th>
        <th> Dname </th>
        <th> Loc </th>
    </tr>
</table> </body>
</html>

```

13/11/15

<!-- Create a webpage to display the dept details by reading data from database using AJAX with jquery --> (ASP.NET)

1) WebService1.aspx.cs

using System.Data;

using System.Data.SqlClient;

namespace WebApplication1

{

//[WebService]

[ScriptService]

public class WebService1 : WebService

{

[WebMethod]

public string GetDept()

{

string str = "";

string connStr = "server=. ; database='Sathya'; Trusted_Connection = true;";

string cmdText = "Select * from Dept";

SqlDataAdapter da = new SqlDataAdapter(cmdText, connStr);

DataTable dt = new DataTable();

da.Fill(dt);

foreach (DataRow item in dt.Rows)

{

if (str == "")

str = str + "[";

else

str = str + ",";

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```

str = str + "{ \"Deptno\" : \" " + item[0].ToString() + " } ";
str = str + "{ \"Dname\" : \" " + item[1].ToString() + " } ";
str = str + "{ \"Loc\" : \" " + item[2].ToString() + " } ";
}
str = str + " ] ";
return str;
}
}
}

```

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2) AjaxDemo.htm

```

<html>
<head>
<title> <|title>
<script src = "Scripts/jquery-1.11.3.min.js"> </script>
<script>
$(document).ready(function()
{
  $("#b1").click(function()
  {
    $.ajax({
      url: "WebService1.ashx/GetDepth",
      type: "POST",
      data: "",
      contentType: "application/JSON",
      success: function(response)
      {
        var obj = $.parseJSON(response.d);
        for(i=0; i< obj.length; i++)
        {
          var str = "<tr>";
          str = str + "<td>" + obj[i].Deptno + "<td>" ;
        }
      }
    });
  });
}

```

str = str + "<td>" + obj[i].Dname + "</td>";

str = str + "<td>" + obj[i].Loc + "</td>";

str = str + "<tr>";

\$("#table1").append(str);

};

}

});

});

});

</script>

</head>

<body>

<h1> AJAX Demo </h1> </hr>

<button id="b1">Get Dept </button>

</br>

<table id="table1" border="2">

<tr>

<th> Deptno </th>

<th> Dname </th>

<th> Loc </th>

</tr>

</table>

</body>

</html>

Note:-

mail id

srinarasimha@yahoo.com

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⇒ JSON 1-

- JSON stands for JavaScript Object Notation.
- JSON concept is used to transfer the data from client to server (or) server to client in ajax calls.
- It is a object representation technique in JavaScript.
- Before JSON, we need depends on the XML.
- If we use XML, we need to serialize / de-serialize the XML data into objects.
- But JSON can access directly in JavaScript.

Advantages of JSON:

- 1) Easy to represent, access and read.
- 2) Light weight objects
- 3) No need to perform serialize / deserialize.
- 4) All Javascript Libraries supports.
- 5) Easy to map programming objects to JS objects due to its property representation.

Interview Questions.

- 1) What is JQuery?
- 2) What are Advantages of JQuery?
- 3) How JavaScript & JQuery are different?
- 4) Is JQuery replacement of JavaScript?
- 5) Is JQuery library for client scripting (or) server scripting?
- 6) Why there are 2 different versions of JQuery library?
- 7) What is CDN?
- 8) What are the examples of CDN?
- 9) How to load JQuery from CDN?

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⇒ CDN:-

→ CDN stands for "Content Distribution Network"
and "Content Delivery Network"

→ CDN is a global location from which we can refer the files to integrate with other applications.

Example 2

- 1) Google
- 2) Microsoft
- 3) jQuery.

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① `<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js">`
`</script>`

② `<script src="http://ajax.microsoft.com/ajax/jquery/jquery-1.9.1.min.js">`
`</script>`

③ `<script src="http://code.jquery.com/jquery-1.11.9.min.js">`
`</script>`

(b) what does dollar sign (\$) mean in jQuery? (\$ - jQuery factory function)

11) can we use multiple Javascript libraries in same web page?

~~Yes~~ Yes, we can use more than one JS libraries.

12) what is jquery.noConflict() function?

```
jquery.noConflict();  
jquery(document).ready(function()  
{  
    jquery("div").hide();  
});
```

13) Can we use our own specific characters in the place of \$ sign in jquery?

```
var $n = jquery.noConflict();  
$n(document).ready(function()  
{  
    $n("div").hide();  
});
```

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14) which is the starting point of code execution in jquery?

15) can we have multiple document.ready() function on same page? - Yes

16) Is there any difference b/w window.load() & document.ready()
function?

→ window.load() event occurs when all the html elements are loaded in the memory with content.

→ we can write only one window.load() event handling code.

document.ready()

→ we can write multiple document.ready() event handling code.

→ It will occur when the elements are ready (Structure) in memory.
No need to wait for the content to be load.

17) can we write jquery code without `document.ready()`?

- Yes, By using normal JavaScript code.

18) what are selectors in jquery?

19) what does `$("div.Hello")` will select?

→ It access the tag which is having Hello class name with in the div tag.

20) In jquery fastest selector is (`#id`)
slowest selector is (`.class`)

21) How to select all text box in page?

- `$("input:text")`.

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22) Diff b/w '`$(this)`' and '`this`' in jquery.

`this.innerText` → It is javascript keyword which can access only JS features.

`$(this).text()` → `$(this)` is a jquery selector which can access all the jquery methods.

23) How to iterate each item from the result of selector?

- `eq()` & `each()`

24) what is the use of jquery `.each()` function?

25) what is chaining in jquery?

`$(document).ready(function()`

{

`$("#div1").addClass('class1')`

`.css('color', 'red')`

`.fadeIn('slow');`

`});`