

JQuery

What is JQuery

JQuery is a lightweight JavaScript library

JQuery is crossplatform

JQuery “write less do more”

JQuery simplifies AJAX and DOM manipulation

External JS

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

```
var p=document.getElementById("mydiv").innerHTML;
```

```
alert(p)
```

```
var p=$('#mydiv').text()
```

HTML	Javascript	JQuery
<pre><html> <div id="mydiv"> This is div, it is testing jQuery <div> </html></pre>	<pre>var p=document.getElementById("mydiv").innerHTML; alert(p);</pre>	<pre>var p=\$('#mydiv').text() alert(p);</pre>
<pre><html> <body> <p>p1</p> <p>p2</p> <p>p3</p> </html></pre>	<pre>Var parr=document.getElementsByTagName("p"); for(var i=0;i<parr.length;i++){ parr[i].setAttribute("style","background- color:yellow"); }</pre>	<pre>\$("p").css("background- color","yellow")</pre>

Step 1

download JQuery

----JQuery library has 2 types of js file

1. compressed ----- it is specially designed for production environment, in this file all tabs, blank lines indentation is removed from the file, so the size is small.
It is also called as minimized version
2. uncompressed ----It is used in testing environment. the code in jquery library file is readable and properly indented

Basic JQuery example

```

<html>

<head>
  <script src="../../script/jquery-3.4.0.js"></script>
  <script>

    $(document).ready(function(){
      var pdata=$("#p").text();
      alert(pdata);

    })
  </script>
</head>

<body>
  <p>This is p</p>
</body>

</html>

```

step 1 :download jQuery file and store it on your machine

step 2 : use script tag to load the file in memory

```

<script src="../../script/jquery-3.4.0.js"></script>

```

step 3: use ready event of document to write jQuery code

\$(document) --→ it converts document object in JQuery object

.ready ---- is ready event

JQuery code will get executed after the page is ready to use

JQuery selectors

--selectors we use to select and modify HTML element

In selectors you can use tag,id,classes attribute to select the element

selectors are used to select one or more HTML element

once you select elements then apply jQuery functions on it

selector has to be written inside \$

selector	Java script	jQuery
Tag selector	Parr=document.getElementsByTagName("p") Divarr=document.getElementsByTagName("div")	\$("p")—select all p tags \$("p,div")---select all p and div
Id selector	P=document.getElementById("myp")	\$("#myp)—select element with id myp \$("#myp,#ids,#name") ---select all elements with id myp,ids and name

Class selector	<code>document.getElementsByClassName("myclass")</code>	<code>\$(".myclass")</code> ----select all elements with <code>class="myclass"</code>
descendants		<code>\$("div p")</code> ---select all p descendants of div
Attribute selector		<code>\$("a[name]")</code> —select all anchor tags which has name attribute
Attribute-value selector		<code>\$("a[name='a1']")</code> —select all anchor tags which has name attribute's value is a1
Input controls		<code>\$(":input")</code> ---selects input, textarea, select, image, radio, checkbox <code>\$(":input[type='radio']")</code> ---this will select all radio buttons
Contains selector	To select all div with test word in it <pre> Var d=document.getElementsByTagName("div"); for(var i=0;i<d.length;i++){ var txt=d[i].innerHTML; if(txt.indexOf("test")!=-1){ alert(txt); } } </pre>	<code>\$('div:contains("test")')</code> ---select all div tags which has test word in innerHTML <code>\$('div:contains("test").each(function(index,element){alert(\$(element).html())})</code>
Odd and even		<code>\$('div p:odd')</code> --- selects all p tags which are at odd position(1,3,5,7..) and index starts at 0 <code>\$('div p:even')</code> --- selects all p tags which are at even position(0,2,4,6,8.....) and index starts at 0
Nth Child selector		<code>\$('p:first-child')</code> ----select p tag which is 1 st child of some tag <code>\$('p:last-child')</code> ----select p tag which is last child of some tag <code>\$('p:nth-child(2)')</code> ----select p tag which is 2 nd child of some tag
Using pattern		<code>\$("input[name^='txt']")</code> ----selects all input tag with name attribute value starts with txt

		<pre><input name="txtnm" type="text" id=n1"> <input name="txtage" type="text" id=n1"> <input name="bdate" type="text" id=n1"></pre> <p>\$(“input[name\$='txt']”)----- selects all input tag with name attribute value ends with txt</p>
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functions JQuery

.html(),text()	Retrieves the text inside selected element And replaces it with the text	<pre>\$(‘div’).html(“this will overwrite the innerHTML contents”); Or \$(‘div’).text(“this will overwrite the innerHTML contents”); --replace innerHTML contents \$(div).html() Or \$(div).text()---return the contents</pre>
val		<pre>\$(‘#nm’).val()---return the value property \$(‘#nm’).val(“data”)---replace the value property</pre>
css		<pre>\$(‘p’).css(‘background-color’); ---it will retrieve the value of the property \$(‘p’).css(‘background-color’,’red’); \$(‘p’).css({“background-color”:”red”, “font-size”:”20px”});</pre>
addClass	Will assign new value to class attribute	<pre>\$(“#myid”).addClass(“display”)</pre>
removeClass	Will remove given value from class attribute	<pre>\$(“#myid”).removeClass(“display”)</pre>
toggleClass	Will assign if not exists Will remove if exists	<pre>\$(“#myid”).toggleClass(“display”)</pre>

is	To check property	<code>\$(#show).is(":checked")</code> ---true if checkbox is checked and false otherwise
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events

click, hover, change, focus, blur, ready, submit, keypress, keyup, keydown, mouseenter, mouseleave