JQuery



Rajeev Gupta Rgupta.mtech@gmail.com Java Trainer & Consultant

JQuery



Currently, uses of jQuery is a most popular JavaScript library that works on all the browsers. It also <u>supports</u>
<u>CSS3 selectors</u> and basic X Path syntax.

jQuery is a JavaScript library that allows web developers to add extra functionality to their websites.

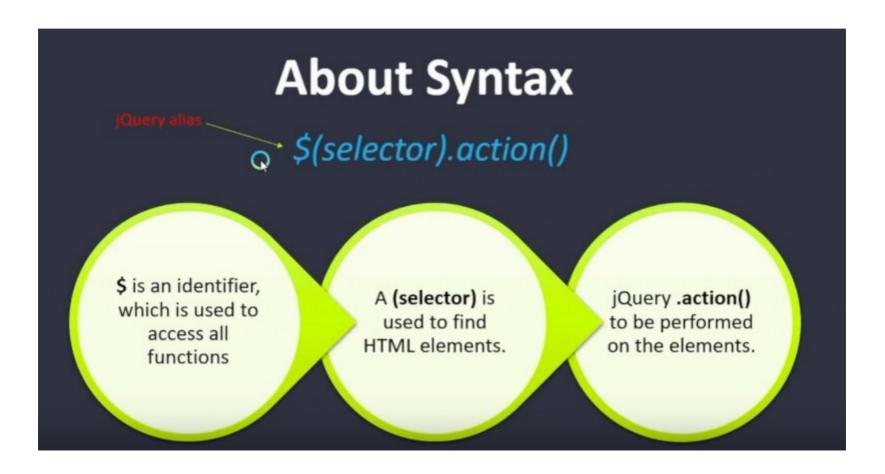
- 4. Ease of learning
- 5. Write Less, Do More
- 6. Search engine optimized
- 7. DOM Manipulation
- 8. Easy integration with Visual Studio IDE
- 9. Even when JavaScript is disabled, a jQuery element has still displayed

 10. iQuery makes flash like
- 10. jQuery makes flash like animated applications

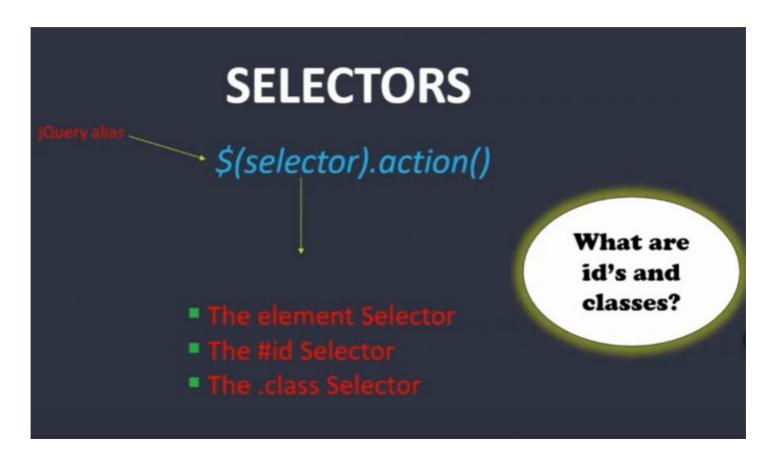
What is jQuery?

- jQuery is a lightweight, "write less, do more", JavaScript library.
- jQuery greatly simplifies JavaScript programming.
- The main purpose of jQuery is to make it much easier to use JavaScript on your website.
- jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.
 - There are lots of other JavaScript frameworks out there, but jQuery seems to be the most popular, and also the most extendable.
 - Many of the biggest companies on the Web use jQuery, such as:
 - Google
 - Microsoft
 - IBM
 - Netflix

jQuery syntax



<u>jQuery selectors</u>



<u>jQuery selectors</u>

THE #ID SELECTORS

 The jQuery #id selector uses the id attribute of an HTML tag to find the specific element.

\$(#idName).action()

THE .CLASS SELECTORS

 The jQuery .class selector finds elements with a specific class

\$(.className).action()

Some selectors

SOME MORE SELECTORS

Syntax	Description	
\$("*")	Selects all elements	
\$(this)	Selects the current HTML element	
\$("p.intro")	Selects all elements with class="intro"	
\$("p:first")	Selects the first element	
\$("ul li:first")	Selects the first element of the first 	
\$("ul li:first-child")	Selects the first element of every 	
\$("[href]")	Selects all elements with an href attribute	
\$("a[target='_blank']")	Selects all <a> elements with a target attribute value equal to "_blank"	
\$(":button")	\$(":button") Selects all <button> elements and <input/> elements of type="button"</button>	
\$("tr:even")	\$("tr:even") Selects all even elements	
\$("tr:odd")	Selects all odd elements	

Will jQuery work with all browers?

- The jQuery team knows all about cross-browser issues, and they have written this knowledge into the jQuery library.
- jQuery will run exactly the same in all major browsers.

Common dom events

Mouse Events	Keyboard Events	Form Events	Document/Window Events
click	keypress	submit	load
dblclick	keydown	change	resize
mouseenter	keyup	focus	scroll
mouseleave		blur	unload

```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("button").click(function(){ (3)
  $("#div1").load("demo.txt");
 });
});
</script>
</head>
<body>
<div id="div1"><h2>Let jQuery AJAX Change This Text</h2></div>
<button>Get External Content</button> 6
</body>
</html>
```

<!DOCTYPE html>

Ajax with jQuery

- AJAX = Asynchronous JavaScript and XML.
- In short; AJAX is about loading data in the background and display it on the webpage, without reloading the whole page.
- jQuery provides several methods for AJAX functionality.
- With the jQuery AJAX methods, you can request text, HTML, XML, or JSON from a remote server using both HTTP Get and HTTP Post -And you can load the external data directly into the selected HTML elements of your web page!

jQuery load method

- The jQuery load() method is a simple, but powerful AJAX method.
- The load() method loads data from a server and puts the returned data into the selected element.

```
$("button").click(function(){
    $("#div1").load("demo_test.txt", function(responseTxt, statusTxt, xhr){
    if(statusTxt == "success")
        alert("External content loaded successfully!");
    if(statusTxt == "error")
        alert("Error: " + xhr.status + ": " + xhr.statusText);
    });
});
```

jQuery get and post method

- The jQuery get() and post() methods are used to request data from the server with an HTTP GET or POST request.
- GET Requests data from a specified resource
- POST Submits data to be processed to a specified resource

Ajax with jQuery

```
<script type="text/javascript">
   $(document).ready(function(event) {
       $.ajax({
            type : "GET",
           url : remote_url,(3)
            success : function(result) {
              //process the result
            error : function() {
                //handle error
        })
</script>
```