

JQUERY

jQuery is a very popular JavaScript Library.

jQuery greatly simplifies JavaScript programming.

jQuery is easy to learn.

USING JQUERY

Google CDN:

```
<head>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js">
</script>
</head>
```

JQUERY SYNTAX

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

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

Examples:

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

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

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

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

THE DOCUMENT READY EVENT

- To prevent any jQuery code from running before the document is finished loading (is ready).

```
$(document).ready(function() {  
    // jQuery methods go here...  
});
```

JQUERY SELECTORS

Syntax	Description
<code>\$(this)</code>	Selects the current HTML element
<code>\$("p.intro")</code>	Selects all <code><p></code> elements with <code>class="intro"</code>
<code>\$("p:first")</code>	Selects the first <code><p></code> element
<code>\$("[href]")</code>	Selects all elements with an href attribute
<code>\$(":button")</code>	Selects all <code><button></code> elements and <code><input></code> elements of <code>type="button"</code>
<code>\$("tr:even")</code>	Selects all even <code><tr></code> elements

JQUERY EVENT METHODS

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_focus_blur

```
$( "p" ).click(function() { //action goes here } );  
$( "p" ).dblclick(function() { //action goes here } );  
$( "p" ).mouseenter(function() { //action goes here } );  
$( "p" ).mouseleave(function() { //action goes here } );  
$( "p" ).hover(function() { //action goes here } );  
$( "p" ).focus(function() { //action goes here } );  
$( "p" ).blur(function() { //action goes here } );
```

JQUERY HIDE() AND SHOW()

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_hide_show

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

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

JQUERY TOGGLE()

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_toggle

```
$( "button" ).click( function( ) {  
    $( "p" ).toggle( ) ;  
} ) ;
```


JQUERY ANIMATE()

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_animation2

```
$( "button" ).click( function() {  
    $( "div" ).animate( {left: '250px'} );  
} );
```

JQUERY TEXT(), HTML()

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_html_get

jQuery methods for DOM manipulation are:

- **text()** - Sets or returns the text content of selected elements
- **html()** - Sets or returns the content of selected elements (including HTML tags)
- **val()** - Sets or returns the value of form fields

```
$( "#btn1" ).click( function() {  
    alert( "Text: " + $( "#test" ).text() );  
} );  
$( "#btn2" ).click( function() {  
    alert( "HTML: " + $( "#test" ).html() );  
} );
```

JQUERY VAL(), ATTR()

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_val_get

```
$( "#btn1" ).click( function() {  
    alert( "Value: " + $( "#test" ).val() );  
} );
```

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_attr_get

```
$( "button" ).click( function() {  
    alert( $( "#w3s" ).attr( "href" ) );  
} );
```

SET CONTENT - TEXT(), HTML(), VAL(), ATTR()

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_html_set

```
$( "#btn1" ).click(function() {
    $( "#test1" ).text( "Hello world!" );
});
$( "#btn2" ).click(function() {
    $( "#test2" ).html( "<b>Hello world!</b>" );
});
$( "#btn3" ).click(function() {
    $( "#test3" ).val( "Dolly Duck" );
});

$( "button" ).click(function() {
    $( "#w3s" ).attr( "href", "https://www.w3schools.com/jquery" );
});
```

ADD NEW HTML CONTENT

- `append()` - Inserts content at the end of the selected elements
- `prepend()` - Inserts content at the beginning of the selected elements
- `after()` - Inserts content after the selected elements
- `before()` - Inserts content before the selected elements

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_html_append

Example

```
$( "ol" ).append( "<li>Appended item</li>" );  
$( "p" ).after( "<p>Appended paragraph.</p>" );
```

JQUERY MANIPULATING CSS

addClass() Method

```
$( "h1, h2" ).addClass( "blue" );  
$( "#urgent" ).addClass( "important" );
```

Set a CSS Property

```
$( "p" ).css( "background-color", "yellow" );  
$( "p" ).attr( "style", "background-color: yellow;" );
```

JQUERY – AJAX

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

Syntax:

```
$(selector).load(URL,data,callback);
```

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_ajax_load

Example

```
$("#div1").load("demo_test.txt");
```


JQUERY - AJAX GET()

Get Syntax:

```
$.get(URL, callback);
```

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_ajax_get

```
$( "button" ).click( function() {  
    $.get( "demo_test.asp", function( data, status ) {  
        alert( "Data: " + data + "\nStatus: " + status );  
    } );  
});
```

JQUERY - AJAX POST()

Post Syntax:

```
$.post(URL,data,callback);
```

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_ajax_post

```
$( "button" ).click(function() {  
    $.post("demo_test_post.asp",  
    {name: "Donald Duck", city: "Duckburg"},  
    function(data, status){  
        alert("Data: " + data + "\nStatus: " + status);  
    });  
});
```