

# JavaScript jQuery

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# Introduction



- **jQuery** is a JavaScript library designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax.
- As of May 2019, jQuery is used by 73% of the 10 million most popular websites, having at least 3 to 4 times more usage than any other JavaScript library.
- jQuery uses a format, `$(selector).action()` to assign an element(s) to an event.

# Adding jQuery

- Download and link : `<script src="jquery-3.5.1.min.js"></script>`
- CDN: `<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>`
- CDN Advantage: Many users already have downloaded jQuery from Google when visiting another site. As a result, it will be loaded from cache when they visit your site, which leads to faster loading time. Also, most CDN's will make sure that once a user requests a file from it, it will be served from the server closest to them, which also leads to faster loading time.

# jQuery Syntax

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

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

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

Examples:

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

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

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

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

# jQuery Selectors

- `$(".class")` —> selects all elements of a class
- `$("#id")` —> select the element with id

Syntax	Description
<code>\$("*")</code>	Selects all elements
<code>\$(this)</code>	Selects the current HTML element
<code>\$("#p.intro")</code>	Selects all <code>&lt;p&gt;</code> elements with <code>class="intro"</code>
<code>\$("#p:first")</code>	Selects the first <code>&lt;p&gt;</code> element
<code>\$("#ul li:first")</code>	Selects the first <code>&lt;li&gt;</code> element of the first <code>&lt;ul&gt;</code>
<code>\$("#ul li:first-child")</code>	Selects the first <code>&lt;li&gt;</code> element of every <code>&lt;ul&gt;</code>
<code>\$("#[href]")</code>	Selects all elements with an <code>href</code> attribute

# jQuery Events

- jQuery is tailor made to respond to events
- Event represent precise moment something happens
- Examples: Clicking a button, selecting a radio button, moving over an element, key press, form submit, input focus, select dropdown change, document load, scroll , etc
- ```
$("#p").click(function(){  
    $(this).hide();  
});
```

# jQuery Effects

- jQuery hide() & show() : [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_hide\\_show](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_hide_show)
- Animation : [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_animation1](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_animation1)
- jQuery chaining : [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_chaining](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_chaining)

# jQuery get & set

- Get data: [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_dom\\_html\\_get](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_html_get)
- Set data : [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_dom\\_html\\_set](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_html_set)
- jQuery chaining : [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_chaining](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_chaining)
- JQuery add : [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_html\\_append](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_html_append)



# jQuery DOM Traversing

- Parent: [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_parent](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_parent)
- Find: The `find()` method returns descendant elements of the selected element, all the way down to the last descendant.
- Children: The `children()` method returns all direct children of the selected element.

# jQuery Ajax

- Get: [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_ajax\\_get](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_ajax_get)
- Post: [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_ajax\\_post](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_ajax_post)