**What is Jquery?**

jQuery is a lightweight, "write less, do more", JavaScript library.

**The jQuery library contains the following features:**

* HTML/DOM manipulation
* CSS manipulation
* HTML event methods
* Effects and animations
* AJAX

**Adding jQuery to Your Web Pages**

There are several ways to start using jQuery on your web site. You can:

* Download the jQuery library from jQuery.com
* Include jQuery from a CDN, like Google

**CDN:** A CDN (Content Delivery Network) is a group of servers in different locations that deliver content like websites, images, or videos faster by using the server closest to the user.

**Example:**

When watching a video on YouTube, a CDN ensures the video streams from the closest server to your location, reducing buffering.

**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".

**Selectors**

* Id
* Class
* TagName

|  |  |  |
| --- | --- | --- |
| **Syntax** | **Description** | **Example** |
| $("\*") | Selects all elements | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_all2) |
| $(this) | Selects the current HTML element | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_this) |
| $("p.intro") | Selects all <p> elements with class="intro" | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_pclass) |
| $("p:first") | Selects the first <p> element | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_pfirst) |
| $("ul li:first") | Selects the first <li> element of the first <ul> | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_ullifirst) |
| $("ul li:first-child") | Selects the first <li> element of every <ul> | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_ullifirstchild) |
| $("[href]") | Selects all elements with an href attribute | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_hrefattr) |
| $("a[target='\_blank']") | Selects all <a> elements with a target attribute value equal to "\_blank" | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_hrefattrblank) |
| $("a[target!='\_blank']") | Selects all <a> elements with a target attribute value NOT equal to "\_blank" | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_hrefattrnotblank) |
| $(":button") | Selects all <button> elements and <input> elements of type="button" | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_button2) |
| $("tr:even") | Selects all even <tr> elements | [Try it](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_sel_even) |
| $("tr:odd") | Selects all odd <tr> elements |  |

**Event Handling:**

**What are Events?**

All the different visitors' actions that a web page can respond to are called events.

An event represents the precise moment when something happens.

**Examples:**

* moving a mouse over an element
* selecting a radio button
* clicking on an element

jQuery Syntax For Event Methods

In jQuery, most DOM events have an equivalent jQuery method.

To assign a click event to all paragraphs on a page, you can do this:

$("p").click();

The next step is to define what should happen when the event fires. You must pass a function to the event:

$("p").click(function(){

// action goes here!!

});

Here are some 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 |

**The on() Method**

The on() method attaches one or more event handlers for the selected elements.

Attach a click event to a <p> element:

**Example**

$("p").on("click", function(){

$(this).hide();

});

**Attach multiple event handlers to a <p> element:**

Example

$("p").on({

mouseenter: function(){

$(this).css("background-color", "lightgray");

},

mouseleave: function(){

$(this).css("background-color", "lightblue");

},

click: function(){

$(this).css("background-color", "yellow");

}

});

**JQuery load:**

Load function is a shorthand method for performing an Ajax.

AJAX request and loading the response data into a selected HTML element on a webpage.

**The basic syntax for the load function is:**

**$(selector).load(url,data,callback);**

<p id="p1">siraj</p>

   <button type="submit">submit</button>

    <script>

    $('button').on('click',function(){

        $('#p1').load('siraj.txt');

    });