* JQuery is a JavaScript Library. JQuery greatly simplifies JavaScript programming. The purpose of jQuery is to make it much easier to use JavaScript on your website.
* **The jQuery library contains the following features:**
* HTML/DOM manipulation
* CSS manipulation
* HTML event methods
* Effects and animations
* AJAX
* Utilities
* **Do you wonder why we do not have type="text/javascript" inside the <script> tag?**

This is not required in HTML5. JavaScript is the default scripting language in HTML5 and in all modern browsers!

* **One big advantage of using the hosted jQuery from Google or Microsoft:**

Many users already have downloaded jQuery from Google or Microsoft 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.

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

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

Here are some examples of actions that can fail if methods are run before the document is fully loaded:

* Trying to hide an element that is not created yet
* Trying to get the size of an image that is not loaded yet
* **JavaScript Event Handlers**

<https://www.w3schools.com/jsref/dom_obj_event.asp>

* **JQuery** **Event Handlers**

click()

mouseenter()

mouseleave()

mousedown()

mouseup()

focus()

hover()

blur()

* **The on() Method**

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