

## **Introduction to jQuery:**

Fundamentals  
Selectors  
Methods to access HTML attributes  
Methods for traversing and jQuery manipulators  
jQuery Events  
jQuery Effects

### **Introduction:**

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

Developed by John Resig in 2005

Website: <https://jquery.com>

### **In Short:**

Simplify the client-side scripting of HTML  
DOM Manipulation

### **Features:**

1. DOM element selections
2. DOM manipulation based on CSS selectors
3. Events
4. Effects and animations
5. Ajax
6. Asynchronous processing
7. Parsing JSON
8. Extensibility support through plugins
9. Utilities such as feature detection

**Basic syntax:**

```
$(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)

e.g. `$(p).toggle();`

Here, all `<p>` in the web page will have a toggle effect to show and hide the paragraph;

**Steps:**

1. Link the jQuery file to the HTML page using `<script>`

e.g. `<script src="js/jquery-3.2.1.min.js"> </script>`

2. To work with jQuery we need to define the document function in the `<script>`

e.g.

```
$(document).ready(function(){  
  
});
```

The jQuery `animate()` method is used to create custom animations.

**Syntax:**

```
$(selector).animate({params},speed,callback);
```

**Resources:**

<https://www.w3schools.com/jquery>

<https://api.jquery.com/category/manipulation/>

[https://www.w3schools.com/jquery/eff\\_animate.asp](https://www.w3schools.com/jquery/eff_animate.asp)