

Introduction to jQuery

BCA

Introduction

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

The purpose of jQuery is to make it much easier to use JavaScript on your website.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

Features

- HTML/DOM manipulation
- CSS manipulation
- HTML event methods
- Effects and animations
- AJAX
- Utilities

Why jQuery?

- Simple to use
- Cross browser compatibility
- Light weight and lean
- Open Source library
- High community
- Extensible

Fundamental of jquery

Installing jQuery

jQuery can be installed by two ways

- 1) By downloading file
- 2) By CDN Link

Installation process

1) Download a latest version of jquery file form online jquery.org website.

a) Link that file to your web page with script tag

```
<script type="text/javascript" src="jquery.3.7.1.js"></script>
```

2) Now call the jquery on the website with following code

```
$(document).ready(function){  
    //code here  
});
```

jQuery Syntax

jQuery selectors

- By ID
- By Class
- By element
- By attribute
- Parent
- Child
- Siblings

jQuery Events

The events are same as HTML

- Click
- On
- Ready
- Load
- change

Manipulating DOM

DOM Manipulation

jQuery provides a number of methods to manipulate DOM in efficient way. You do not need to write big and complex code to set or get the content of any HTML element.

jQuery provides methods such as `attr()`, `html()`, `text()` and `val()` which act as getters and setters to manipulate the content from HTML documents.

Operations

- Extract the content of an element
- Change the content of an element
- Adding a child element under an existing element
- Adding a parent element above an existing element
- Adding an element before or after an existing element
- Replace an existing element with another element
- Delete an existing element
- Wrapping content with-in an element