

JQuery Basic, Effects & Advanced

1.) What is jQuery?

Ans. => 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.

2.) How to Apply CSS Using JQuery, How to Add Class and Remove Class in JQuery, JQuery Animation?

Ans. => jQuery has several methods for CSS manipulation. We will look at the following methods:

- `addClass()` - Adds one or more classes to the selected elements
- `removeClass()` - Removes one or more classes from the selected elements
- `toggleClass()` - Toggles between adding/removing classes from the selected elements
- `css()` - Sets or returns the style attribute

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
    .myclass{
      background-color: royalblue;
      color: white;
      font-size: 20px;
      font-weight: 800;
    }
    button{
      padding: 10px 30px;
      background-color: lightcoral;
      border-radius: 10px;
      border: 2px solid blueviolet;
    }
    button:hover{
```

```

        background-color: crimson;
        color: white;
    }
</style>
</head>

<body>
    <script src="https://code.jquery.com/jquery-3.7.1.js"></script>

    <button id="btn1">add class</button>
    <button id="btn2">remove class</button>

    <hr><hr>

    <div class="div1">
        Lorem ipsum dolor sit, amet consectetur adipisicing elit. Labore ullam
aut deleniti tenetur repellendus sit
        atque aliquid dolores cumque, consectetur rerum sunt ea asperiores
expedita facere laborum quo, praesentium
        harum.
        Lorem ipsum dolor sit, amet consectetur adipisicing elit. Excepturi
velit earum, culpa deleniti sed aperiam iure minus accusamus voluptas quo,
voluptatum atque ipsa minima vitae mollitia totam obcaecati sequi molestias!
    </div>

    <script>
        $(document).ready(function () {
            $("#btn1").click(function () {
                $(".div1").addClass("myclass")
            })

            $("#btn2").click(function () {
                $(".div1").removeClass("myclass")
            })
        })
    </script>
</body>
</html>

```

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

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>

```

```

        .ball1 {
            height: 100px;
            width: 100px;
            background-color: coral;
            border-radius: 50%;
            position: absolute;
        }
        button{
            padding: 10px 30px;
            background-color: blueviolet;
            color: white;
            font-weight: 800;
            border: 1px solid crimson;
        }
        button:hover{
            background-color: transparent;
            color: crimson;
        }
    </style>
</head>

<body>
    <script
src="https://cdn.jsdelivr.net/npm/jquery@3.7.1/dist/jquery.min.js"></script>

    <button id="btn">Click Here</button>
    <br><br>
    <div class="ball1"></div>

    <script>
        function moveBall() {
            $(".ball1").animate({
                "left": 400
            }, 2000, function () {
                $(".ball1").animate({
                    "left": 0
                },2000)
            });
        }
        $("#btn").on("click", moveBall);
    </script>
</body>

</html>

```

3.) How to create slider with animation?

Ans. => The jQuery UI Slider plugin makes selected elements into sliders. There are various options such as multiple handles and ranges. The handle can be moved with the mouse or the arrow keys. The slider widget will create handle elements with the class UI-slider-handle on initialization.

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Document</title>
  <!-- bxslider css cdn -->
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/bxslider/4.2.15
/jquery.bxslider.css" />
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/bxslider/4.2.15
/jquery.bxslider.min.css" />
  <style>
    img{
      width: 100%;
      height: 620px;
    }
  </style>
</head>

<body>
  <div class="myslider">
    <div class="slider1 slider">
      
```

```
</div>
<div class="slider2 slider">
  
</div>
<div class="slider3 slider">
  
</div>
<div class="slider4 slider">
  
</div>
</div>
<!-- jquery cdn -->
<script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jqu
ery.min.js"></script>
<!-- bxslider js cdn -->
<script
src="https://cdnjs.cloudflare.com/ajax/libs/bxslider/4.2.15/
jquery.bxslider.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/bxslider/4.2.15/
jquery.bxslider.js"></script>
```

```
<script
src="https://cdnjs.cloudflare.com/ajax/libs/bxslider/4.2.15/
vendor/jquery.easing.1.3.js"></script>
<script>
    $(document).ready(function () {
        $(".myslider").bxSlider({
            mode: "fade",
        })
    })
</script>
</body>

</html>
```