

1. What is JQuery?

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.

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?

jQuery css() Method

The css() method sets or returns one or more style properties for the selected elements.

Example

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
</head>

<body>
  <div>tops technology</div>
  <button>click me</button>
  <script>
    $(document).ready(function () {
      $("button").click(function () {
        $("div").css({"background-color": "red", "font-size": "50px",});
      })
    })
  </script>
</body>

</html>
```

Output :

The screenshot shows a web browser displaying the output of the provided HTML and JavaScript code. It features a solid red background. The text "tops technology" is rendered in a very large, bold, black font, centered on the page. Below this text, there is a small, light gray button with the text "click me" in a small, black font.

click me

JQuery Add Class

The `addClass()` method adds one or more class names to the selected elements. This method does not remove existing class attributes, it only adds one or more class names to the class attribute.

Example :

```

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
  <style>
    .one{
      background-color: yellow;
      font-size: 100px;
    }
  </style>
</head>

<body>
<div class="one">hello world</div>
<button>click here</button>
<script>
  $(document).ready(function () {
    $("button").click(function () {
      $("div").addClass("one")
      // $("div").removeClass("one")
    })
  })
</script>
</body>

</html>

```

Output :



jQuery removeClass() Method

The removeClass() method removes one or more class names from the selected elements.

Example :

```

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
  <style>
    .one{
      background-color: yellow;
      font-size: 100px;
    }
  </style>
</head>

<body>
  <div class="one">hello world</div>
  <button>click here</button>
  <script>
    $(document).ready(function () {
      $("button").click(function () {
        // $("div").addClass("one")
        $("div").removeClass("one")
      })
    })
  </script>
</body>

</html>

```

Output :

hello world

JQuery Animation

Example :

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
  <style>
    div{
      height: 100px;
      width: 100px;
      background-color: black;
      position: relative;
    }
  </style>
</head>
<body>
  <div></div>
  <button>xyz</button>
  <script>
    $(document).ready(function () {
      $("button").click(function () {
        $("div").animate({left: "20%",height: "200px",width: "200px"})
      })
    })
  </script>
</body>
</html>

```

Output :

xyz



3. How to create slider with animation?

jQuery has the following slide methods:

1.slideDown()

2.slideUp()

3.slideToggle()

example :

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>

<style>
#two, #one {
padding: 5px;
text-align: center;
background-color: #e5e5cc;
border: solid 1px #c3c3c3;
}

#two {
padding: 50px;
display: none;
}
</style>
</head>
<body>

<div id="one">Click to slide down </div>
<div id="two">Hello world!</div>
<script>
$(document).ready(function(){
$("#one").click(function(){
$("#two").slideDown("slow");
});
});
</script>
</body>
</html>
```

Output :



4. Event bubbling tickling example

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
  <script>
    $(document).ready(function () {
      $("span").offsetParent("div").css({ "border": "2px solid red" })
    })
  </script>
  <style>
    body * {
      border: 2px solid red;
      padding: 20px;
      display: inline-block;
    }
    span {
      border : 2px solid grey
    }
  </style>
</head>
<body>
  <div> body Gret Gret Grandparent <br>
  <div> div gret grandparent <br>
    <ul> ul grandparent <br>
      <li> li direct parent <br>
        <span>span</span>
      </li>
    </ul>
  </div>
</div>
</body>
</html>
```

Output :

