

INTRODUCTION

jQuery is a fast, lightweight, and feature-rich JavaScript library. It simplifies the process of HTML document traversal and manipulation, event handling, animation, and Ajax interactions for web development. jQuery is cross-browser compatible and allows developers to write less code while achieving more.

Here's a simple example of using jQuery to manipulate the content of an HTML element:

html

Copy code

```
<!DOCTYPE html>
```

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

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <title>jQuery Basic Example</title>
```

```
  <script src="https://code.jquery.com/jquery-3.6.4.min.js"></script>
```

```
</head>
```

```
<body>
```

```
  <p id="example">Hello, World!</p>
```

```
<script>

// jQuery code to change the text content of the paragraph

$(document).ready(function() {

    $("#example").text("Hello, jQuery!");

});

</script>


</body>

</html>
```

ii. Events in jQuery:

Events are actions or occurrences that happen on a webpage, such as a button click, mouseover, keypress, etc. jQuery simplifies event handling by providing easy-to-use methods. Here's an example of handling a button click event:

```
html

Copy code

<!DOCTYPE html>

<html lang="en">

<head>
```

```
<meta charset="UTF-8">

<title>jQuery Event Example</title>

<script src="https://code.jquery.com/jquery-3.6.4.min.js"></script>

</head>

<body>


<button id="myButton">Click me!</button>


<script>

    // jQuery code to handle button click event

    $(document).ready(function() {

        $("#myButton").click(function() {

            alert("Button clicked!");

        });

    });

</script>


</body>

</html>
```

iii. Selectors in jQuery:

Selectors in jQuery are used to target and select HTML elements for manipulation. They are similar to CSS selectors. jQuery provides a wide range of selectors to select elements based on IDs, classes, attributes, element types, and more.

html

Copy code

```
<!DOCTYPE html>
```

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

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <title>jQuery Selector Example</title>
```

```
  <script src="https://code.jquery.com/jquery-3.6.4.min.js"></script>
```

```
</head>
```

```
<body>
```

```
  <p class="highlight">This is a paragraph with a class.</p>
```

```
  <script>
```

```
    // jQuery code to select and manipulate elements using a class selector
```

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

```
      $(".highlight").css("color", "red");
```

```
    });
```

```
</script>
```

```
</body>
```

```
</html>
```

In this example, the jQuery code selects all elements with the class "highlight" and changes their text color to red.