

**Course
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Test Series**

Introduction to 'JavaScript' Language

Document Object Model DOM and Validations

Module 3 - Creating, Removing & Traversing Elements

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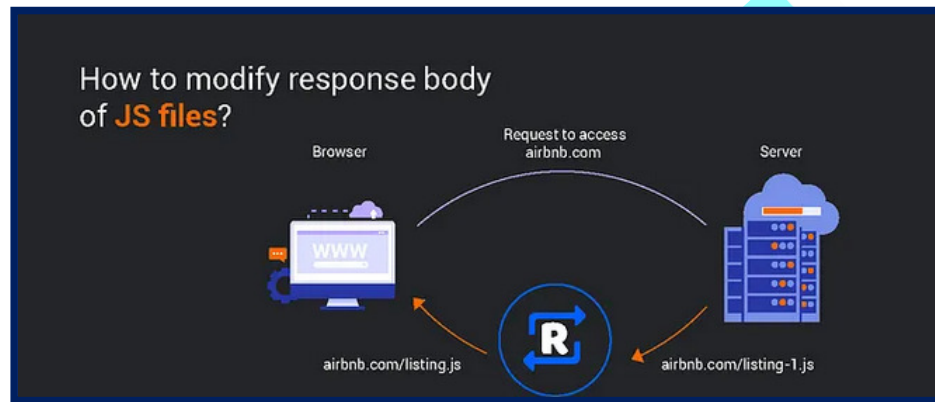
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Modifying Content in JavaScript (JS)

Modifying content in JavaScript means changing what's displayed on a webpage – such as text, HTML, or attributes – by manipulating the DOM (Document Object Model) using JavaScript.



What You Modify	Method Used	Example
Text content	innerText, textContent	element.innerText = "Hi"
HTML content	innerHTML	element.innerHTML = "Hi"
Attributes	getAttribute, setAttribute	element.setAttribute("href", "...")
Inline styles	element.style	element.style.color = "red"
CSS classes	element.classList	element.classList.add("active")

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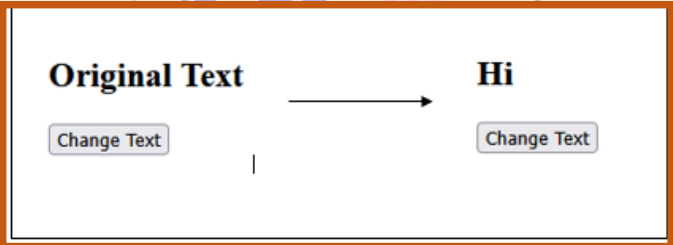
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Why We Use Modifying Content in JavaScript

- Update content dynamically without reloading the page
E.g., changing text after user clicks a button
- Respond to user actions (clicks, input, etc.)
Show a message when a form is submitted
- Display real-time data
Show live scores, time, or notifications
- Create interactive interfaces
Tabs, modals, dropdowns, and sliders
- Load or change content from a server
Update part of a page after fetching data via API (AJAX)
- Change the layout or structure of the page
Add, remove, or rearrange elements

Solved Example: Text Content (innerText, textContent)

```
<!DOCTYPE html>
<html>
<body>
  <h2 id="text">Original
  Text</h2>
  <button
  onclick="changeText()">Change
  Text</button>
  <script>
    function changeText() {
      document.getElementById("text").innerText = "Hi";
    }
  </script>
</body>
</html>
```

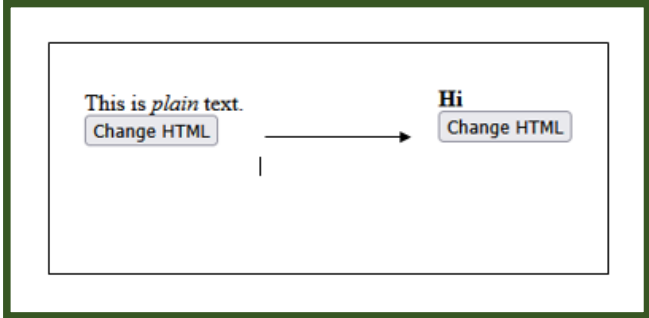


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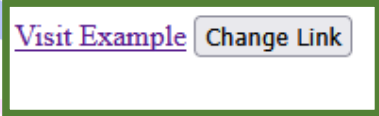
Solved Example: HTML Content (innerHTML)

```
<!DOCTYPE html>
<html>
<body>
  <div id="htmlContent">This is
<i>plain</i> text.</div>
  <button
onclick="changeHTML()">Change
HTML</button>
  <script>
    function changeHTML() {
      document.getElementById("htmlContent").innerHTML = "<b>Hi</b>";
    }
  </script>
</body>
</html>
```



Solved Example: Attributes (getAttribute, setAttribute)

```
<!DOCTYPE html>
<html>
<body>
  <a id="link" href="https://example.com"
target="_blank">Visit Example</a>
  <button onclick="changeLink()">Change Link</button>
  <script>
    function changeLink() {
      document.getElementById("link").setAttribute("href", "https://openai.com");
    }
  </script>
</body>
</html>
```



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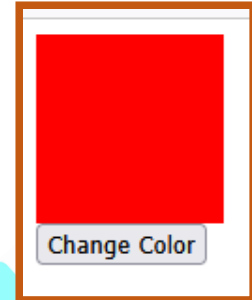
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Solved Example: Inline Styles (style)

```
<!DOCTYPE html>
<html>
<body>
  <div id="box" style="width:100px; height:100px;
background:gray;"></div>
  <button onclick="changeColor()">Change Color</button>
  <script>
    function changeColor() {
document.getElementById("box").style.backgroundColor = "red";
    }
  </script>
</body>
</html>
```



Solved Example: CSS Classes (classList)

```
<!DOCTYPE html>
<html>
<head>
  <style>
    .active {
      color: green;
      font-weight: bold;
    }
  </style>
</head>
<body>
  <p id="textClass">I'm normal.</p>
  <button onclick="activate()">Add Class</button>
  <script>
    function activate() {
      document.getElementById("textClass").classList.add("active");
    }
  </script>
</body>
</html>
```

