

Introduction to JavaScript



What is JavaScript?

- JavaScript is a powerful, flexible, and fast programming language.
- JavaScript powers the dynamic behavior on websites.
- JavaScript remains at the core of web development.
- JavaScript is used mainly for enhancing the interaction of a user with the webpage.
- With the help of JavaScript, web pages can be made live and interactive.

What is JS?

How to run JS?

How to include scripts in HTML?

How to modify HTML content via Js?

How to modify HTML elements styles via Js?

How JavaScript is executed by Browser?

- The browser is responsible for running JavaScript code, being a scripting language, JavaScript cannot run on its own.
- When a user requests an HTML page with JavaScript in it, the script is sent to the browser and it is up to the browser to execute it.
- The main advantage of JavaScript is that all modern web browsers support JavaScript.

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How to include script in HTML?

- HTML `<script>` tag is used to embed data or executable client side scripting language in HTML pages.
- A `<script>` tag can also be used to include an external script file to an HTML web page by using the `src` attribute.
- If you don't want to write inline JavaScript code in the `<script></script>` tag, then you can also write JavaScript code in a separate file with `.js` extension and include it in a web page using `<script>` tag and reference the file via `src` attribute.
- The `<script>` tag can be included in the `<head>` or `<body>` part of the HTML.

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How to include script in HTML?

```
<!DOCTYPE html>
<html>
<head>
</head>
<body>
  <h1> JavaScript Tutorials</h1>

  <script>
    //write JavaScript code here..
    alert('Hello, how are you?')
  </script>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
  <script src="/MyJavaScriptFile.js" ></script>
</head>
<body>
  <h1> JavaScript Tutorials</h1>

</body>
</html>
```

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How to change the HTML content via JavaScript?

- HTML elements can be accessed from scripts by using getElementById() method.
- The getElementById() method accesses the HTML element based on its unique id.

```
<!DOCTYPE html>
<html>
  <head>
    <title>Intro to JS</title>
    <link href="style.css" rel="stylesheet" type="text/css" />
  </head>
  <body>
    <p id="intro">Introduction to JavaScripts</p>
    <p id="p1"></p>
    <script src="script.js"></script>
  </body>
</html>
```

```
document.getElementById("p1").innerHTML = "Hello JavaScript";
```

Introduction to JavaScripts

Hello JavaScript

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How can JS modify/add styles to HTML elements?

- The style of the HTML elements can be modified by accessing them from JavaScript.
- Syntax:

document.object.style.Property-name = "property-value"

```
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<html>
  <head>
    <title>Intro to JS</title>
    <link href="style.css" rel="stylesheet" type="text/css" />
  </head>
  <body>
    <p id="intro">Introduction to JavaScripts</p>
    <p id="p1"></p>
    <script src="script.js"></script>
  </body>
</html>
```

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How can JS modify/add styles to HTML elements?

```
document.getElementById("p1").innerHTML = "Hello JavaScript";  
document.getElementById('p1').style.color='red';  
document.getElementById('intro').style.fontSize='35px';  
document.body.style.backgroundColor = "lightyellow";
```

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