

JavaScript is the world's most popular programming language.

JavaScript is the programming language of the Web.

JavaScript is easy to learn.

This tutorial will teach you JavaScript from basic to advanced.

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### JavaScript in <head> or <body>

You can place any number of scripts in an HTML document.

Scripts can be placed in the <body>, or in the <head> section of an HTML page, or in both.

```
EG
<DOCTYPE html>
<html>
<head>
<script>
function myFunction() {
  document.getElementById("demo").innerHTML = "Paragraph
changed.";
}
</script>
</head>
<body>
<div> Web Page</div>
```

```
<p id="demo">A Paragraph</p>
<button type="button" onclick="myFunction()">Try it</button>
</body>
</html>
```

### JavaScript Display Possibilities

JavaScript can "display" data in different ways:

- Writing into an HTML element, using `innerHTML`.
- Writing into the HTML output using `document.write()`.
- Writing into an alert box, using `window.alert()`.
- Writing into the browser console, using `console.log()`.
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#### Example

```
let x, y, z; // Statement 1
x = 5z; // Statement 2
y = 6z // Statement 3
z = x + yz // Statement 4
```

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### Different Kinds of Loops

JavaScript supports different kinds of loops:

- `for` - loops through a block of code a number of times
- `for/in` - loops through the properties of an object
- `for/of` - loops through the values of an iterable object
- `while` - loops through a block of code while a specified condition is true

- `do/while` - also loops through a block of code while a specified condition is true

#### Example

This will not work:

```
const cases = ["SaaS", "Solve", "SaaS"];
cases = ["SaaS", "Solve", "SaaS"];
```

#### Synonyms:

- Template Literals
- Template Strings
- String Templates
- Back-Ticks Syntax

### Multiline Strings

Template literals allows multiline strings:

#### Example

```
let text =
`The quick
brown fox
jumps over
the lazy dog`;
```

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### Expression Substitution

Template literals allows expressions in strings:

#### Example

```
let price = 10;
let VAT = 0.25;
```

```
let total = `Total: $${price * (1 + VAT).toFixed(2)}`;
```

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