JavaScript Operators

Back to JS page

Table of Contents

- JavaScript Operators
  - JavaScript Assignment
    - Example 1
  - JavaScript Addition
    - Example 2
  - JavaScript Multiplication
    - Example 3
  - Types of JavaScript Operators
  - JavaScript Arithmetic Operators
    - Example 4
  - JavaScript String Addition
    - Example 5
  - Adding Strings and Numbers
    - Example 6
  - JavaScript Assignment Operators
    - Example 7
  - JavaScript Comparison Operators
    - Example 8
  - Document
  - Reference

JavaScript Assignment

The **Assignment Operator** (`=`) assigns a value to a variable:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Operators</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>JavaScript Assignment</h4>
<p id="demo"></p>

<script>
let x = 10;
document.getElementById("demo").innerHTML = "x = " + x;
</script>

</body>
</html>
```

Example 1

Result View Example

JavaScript Addition

The **Addition Operator** (`+`) adds numbers:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Operators</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>JavaScript Addition</h4>
<p id="demo"></p>

<script>
let x = 5;
let y = 2;
let z = x + y;
document.getElementById("demo").innerHTML = "x + y = " + z;
</script>

</body>
</html>
```

Example 2

Result View Example

JavaScript Multiplication

The **Multiplication Operator** (`*`) multiplies numbers:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Operators</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>JavaScript Multiplication</h4>
<p id="demo"></p>

<script>
let x = 5;
let y = 2;
let z = x * y;
document.getElementById("demo").innerHTML = "x * y = " + z;
</script>

</body>
</html>
```

Example 3

Result View Example

Types of JavaScript Operators

There are different types of JavaScript operators:

- **Arithmetic Operators**: `+` , `-` , `*` , `/` , `%` , `++` , `--`
- **Assignment Operators**: `=` , `+=` , `-=` , `*=` , `/=` , `%=` , `**=`
- **String Operators**: `+` , `+=`
- **Comparison Operators**: `==` , `===` , `!=` , `!==` , `>` , `<` , `>=` , `<=` , `?`
- **Logical Operators**: `&&` , `||` , `!`

JavaScript Arithmetic Operators

Arithmetic Operators are used to perform arithmetic on numbers:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Operators</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Arithmetic Operators</h4>
<p id="demo1"></p>
<p id="demo2"></p>
<p id="demo3"></p>
<p id="demo4"></p>

<script>
let a = 10;
let b = 3;
document.getElementById("demo1").innerHTML = "a + b = " + (a + b);
document.getElementById("demo2").innerHTML = "a - b = " + (a - b);
document.getElementById("demo3").innerHTML = "a * b = " + (a * b);
document.getElementById("demo4").innerHTML = "a / b = " + (a / b);
</script>

</body>
</html>
```

Example 4

Result View Example

JavaScript String Addition

The `+` operator can also be used to add (concatenate) strings:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Operators</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>String Addition (Concatenation)</h4>
<p id="demo"></p>

<script>
let text1 = "John";
let text2 = "Doe";
let text3 = text1 + " " + text2;
document.getElementById("demo").innerHTML = text3;
</script>

</body>
</html>
```

Example 5

Result View Example

Adding Strings and Numbers

Adding two numbers will return the sum as a number.

Adding a number and a string will return the sum as a concatenated string:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Operators</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Adding Strings and Numbers</h4>
<p id="demo1"></p>
<p id="demo2"></p>
<p id="demo3"></p>

<script>
let x = 5 + 5;
let y = "5" + 5;
let z = "Hello" + 5;
document.getElementById("demo1").innerHTML = "5 + 5 = " + x + " (number)";
document.getElementById("demo2").innerHTML = '"5" + 5 = ' + y + " (string)";
document.getElementById("demo3").innerHTML = '"Hello" + 5 = ' + z + " (string)";
</script>

</body>
</html>
```

Example 6

Result View Example

JavaScript Assignment Operators

Assignment operators assign values to JavaScript variables.

The **Addition Assignment Operator** (`+=`) adds a value to a variable:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Operators</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Assignment Operators</h4>
<p id="demo1"></p>
<p id="demo2"></p>
<p id="demo3"></p>

<script>
let x = 10;
let y = 10;
let z = 10;
x += 5;
y -= 3;
z *= 2;
document.getElementById("demo1").innerHTML = "x += 5 => " + x;
document.getElementById("demo2").innerHTML = "y -= 3 => " + y;
document.getElementById("demo3").innerHTML = "z *= 2 => " + z;
</script>

</body>
</html>
```

Example 7

Result View Example

JavaScript Comparison Operators

Comparison operators are used to **compare two values** and always return `true` or `false`:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Operators</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Comparison Operators</h4>
<p id="demo1"></p>
<p id="demo2"></p>
<p id="demo3"></p>

<script>
let x = 5;
document.getElementById("demo1").innerHTML = "5 == '5' is " + (5 == "5");
document.getElementById("demo2").innerHTML = "5 === '5' is " + (5 === "5");
document.getElementById("demo3").innerHTML = "5 > 8 is " + (5 > 8);
</script>

</body>
</html>
```

Example 8

Result View Example

Document

Document in project

You can Download PDF file.

Reference

- W3Schools JavaScript Operators