

# Java Script

## External JavaScript

```
<script src="myScript.js"></script>
```

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## Using innerHTML

```
<!DOCTYPE html>
<html>

<head>
<script>
function myFunction() {
    document.getElementById("demo").innerHTML = "Paragraph changed.";
}
</script>
</head>
<body>

<h1>A Web Page</h1>
<p id="demo">A Paragraph</p>
<button type="button" onclick="myFunction()">Try it</button>

</body>
</html>
```

---

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

<h1>My First Web Page</h1>
<p>My First Paragraph</p>

<p id="demo"></p>

<script>
document.getElementById("demo").innerHTML = 5 + 6;
</script>

</body>
</html>
```

---

## Using document.write()

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

<h1>My First Web Page</h1>
<p>My first paragraph.</p>

<script>
document.write(5 + 6);
</script>

</body>
</html>
```

---

## Using window.alert()

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

<h1>My First Web Page</h1>
<p>My first paragraph.</p>

<script>
window.alert(5 + 6);
</script>

</body>
</html>
```

---

## Using console.log()

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

<script>
console.log(5 + 6);
</script>

</body>
</html>
```

---

# JavaScript Statements

```
<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Statements</h2>

<p>A <b>JavaScript program</b> is a list of <b>statements</b> to be executed by a computer.</p>

<p id="demo"></p>

<script>

var x, y, z; // Statement 1

x = 5;  // Statement 2

y = 6;  // Statement 3

z = x + y; // Statement 4

document.getElementById("demo").innerHTML =

"The value of z is " + z + ".";

</script>

</body>

</html>
```

---

## multiple statements

```
<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Statements</h2>

<p>Multiple statements on one line is allowed.</p>

<p id="demo1"></p>
```

```
<script>

var a, b, c;

a = 5; b = 6; c = a + b;

document.getElementById("demo1").innerHTML = c;

</script>

</body>

</html>
```

---

## JavaScript Line Length and Line Breaks

```
<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Statements</h2>

<p id="demo"></p>

<script>

document.getElementById("demo").innerHTML =

"Hello Dolly!";

</script>

</body>

</html>
```

---

## JavaScript Comments

```
<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Comments are NOT Executed</h2>
```

```
<p id="demo"></p>

<script>

var x;

x = 5;

// x = 6; I will not be executed

document.getElementById("demo").innerHTML = x;

</script>

</body>

</html>
```

---

## Concatenation

```
<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Expressions</h2>

<p>Expressions compute to values.</p>

<p id="demo"></p>

<script>

document.getElementById("demo").innerHTML = "John" + " " + 2*3 + " Doe";

</script>

</body>

</html>
```

---

## JavaScript is Case Sensitive

```
<!DOCTYPE html>

<html>
```

```
<body>

<h2>JavaScript is Case Sensitive</h2>

<p>Try change lastName to lastname.</p>

<p id="demo"></p>

<script>

var lastname, lastName;

lastName = "Doe";

lastname = "Peterson";

document.getElementById("demo").innerHTML = lastName;

</script>

</body>

</html>
```

---

## JavaScript Arrays

```
<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Arrays</h2>

<p>Array indexes are zero-based, which means the first item is [0].</p>

<p id="demo"></p>

<script>

var cars = ["Saab", "Volvo", "BMW"];


document.getElementById("demo").innerHTML = cars[0];

</script>

</body>

</html>
```

---

# JavaScript Objects

```
<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Objects</h2>

<p id="demo"></p>

<script>

var person = {

    firstName : "John",

    lastName  : "Doe",

    age       : 50,

    eyeColor  : "blue"

};

document.getElementById("demo").innerHTML =

person.firstName + " is " + person.age + " years old.";

</script>

</body>

</html>
```

---