

HTML DOM addEventListener() Method

The Element Object

The addEventListener() Method

Execute a function when a user clicks on a button:

Try it

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

<h1>The Element Object</h1>
<h2>The addEventListener() Method</h2>

<p>Execute a function when a user clicks on a button:</p>

<button id="myBtn">Try it</button>

<p id="demo">

<script>
const element = document.getElementById("myBtn");
element.addEventListener("click", myFunction);

function myFunction() {
  document.getElementById("demo").innerHTML = "Hello World";
}
</script>

</body>
</html>
```

The Element Object

The addEventListener() Method

This example uses the addEventListener() method to add many events on the same button.

Try it

Moused over!
Moused out!

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

<h1>The Element Object</h1>
<h2>The addEventListener() Method</h2>

<p>This example uses the addEventListener() method to add many events on the
same button.</p>

<button id="myBtn">Try it</button>

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

<script>
const element = document.getElementById("myBtn");
element.addEventListener("mouseover", myFunction);
element.addEventListener("click", mySecondFunction);
element.addEventListener("mouseout", myThirdFunction);

function myFunction() {
  document.getElementById("demo").innerHTML += "Moused over!<br>"
}

function mySecondFunction() {
  document.getElementById("demo").innerHTML += "Clicked!<br>"
}

function myThirdFunction() {
  document.getElementById("demo").innerHTML += "Moused out!<br>"
}
</script>

</body>
</html>
```

The Element Object

The addEventListener() Method

How to pass parameter values with addEventListener().

Click the button to perform a calculation.

35

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

<h1>The Element Object</h1>
<h2>The addEventListener() Method</h2>

<p>How to pass parameter values with addEventListener().</p>

<p>Click the button to perform a calculation.</p>

<button id="myBtn">Try it</button>

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

<script>
let p1 = 5;
let p2 = 7;

document.getElementById("myBtn").addEventListener("click", function() {
  myFunction(p1, p2);
});

function myFunction(a, b) {
  document.getElementById("demo").innerHTML = a * b;
}
</script>

</body>
</html>
```

The Element Object

The addEventListener() Method

Click the button to change its background color.

Try it

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

<h1>The Element Object</h1>
<h2>The addEventListener() Method</h2>

<p>Click the button to change its background color.</p>

<button id="myBtn">Try it</button>

<script>
document.getElementById("myBtn").addEventListener("click", function() {
    this.style.backgroundColor = "red";
});
</script>

</body>
</html>
```

HTML DOM removeEventListener() Method

The Element Object

The removeEventListener() Method

This orange element has an onmousemove event handler that displays a random number when you move the mouse inside.
Click "Remove" to remove the event handler.

Remove

0.09529288527836877

```
<!DOCTYPE html>
<html>

<style>
#myDIV {
  background-color: coral;
  padding: 16px;
}
</style>

<body>
<h1>The Element Object</h1>
<h2>The removeEventListener() Method</h2>

<div id="myDIV">This orange element has an onmousemove event handler that
displays a random number when you move the mouse inside.
  <p>Click "Remove" to remove the event handler.</p>
  <button onclick="removeHandler()">Remove</button>
</div>

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

<script>
const myDiv = document.getElementById("myDIV");
myDiv.addEventListener("mousemove", myFunction);

function removeHandler() {
  myDiv.removeEventListener("mousemove", myFunction);
}

function myFunction() {
  document.getElementById("demo").innerHTML = Math.random();
}
</script>

</body>
</html>
```

appendChild() Method 1

The Element Object

The appendChild() Method

- Coffee
- Tea

Click "Append" to append an item to the end of the list:

Append

The Element Object

The appendChild() Method

- Coffee
- Tea
- Water

Click "Append" to append an item to the end of the list:

Append

```
<!DOCTYPE html>
<html>
<body>
<h1>The Element Object</h1>
<h2>The appendChild() Method</h2>

<ul id="myList">
  <li>Coffee</li>
  <li>Tea</li>
</ul>

<p>Click "Append" to append an item to the end of the list:</p>

<button onclick="myFunction()">Append</button>

<script>
function myFunction() {

// Create an "li" node:
const node = document.createElement("li");

// Create a text node:
const textnode = document.createTextNode("Water");

// Append the text node to the "li" node:
node.appendChild(textnode);

// Append the "li" node to the list:
document.getElementById("myList").appendChild(node);
}
</script>

</body>
</html>
```

appendChild() Method 2

The Element Object

The appendChild() Method

- Coffee
- Tea
- Water
- Milk

Click "Move" to move an item from one list to another:

Move

The Element Object

The appendChild() Method

- Coffee
- Tea
- Milk
- Water

Click "Move" to move an item from one list to another:

Move

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

<h1>The Element Object</h1>
<h2>The appendChild() Method</h2>

<ul id="myList1">
  <li>Coffee</li>
  <li>Tea</li>
</ul>
<ul id="myList2">
  <li>Water</li>
  <li>Milk</li>
</ul>

<p>Click "Move" to move an item from one list to another:</p>

<button onclick="myFunction()">Move</button>

<script>
function myFunction() {
  const node = document.getElementById("myList2").lastElementChild;
  document.getElementById("myList1").appendChild(node);
}
</script>

</body>
</html>
```