



HTML DOM addEventListener() Method

[◀ Document Object](#)

Example

Attach a click event to the document. When the user clicks anywhere in the document, output "Hello World" in a <p> element with id="demo":

```
"color:black">"color:red">
document."color:black">addEventListener("color:brown">"click",
"color:mediumblue">function() {

document."color:black">getElementById("color:brown">"demo")."co
lor:black">innerHTML = "color:brown">"Hello World";
});
```

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More "Try it Yourself" examples below.

Definition and Usage

The `document.addEventListener()` method attaches an event handler to the document.






Tip: Use the `document.removeEventListener()` method to remove an event handler

that has been attached with the `addEventListener()` method.

Tip: Use the `element.addEventListener()` method to attach an event handler to a specified element.

Browser Support

The numbers in the table specify the first browser version that fully supports the method.

Method					
<code>addEventListener()</code>	1.0	9.0	1.0	1.0	7.0

Note: The `addEventListener()` method is not supported in Internet Explorer 8 and earlier versions, and Opera 6.0 and earlier versions. However, for these specific browser versions, you can use the **`attachEvent()`** method to attach event handlers (see "More Examples" below for a cross-browser solution).

Syntax

```
document.addEventListener(event, function, useCapture)
```

Parameter Values

Parameter	Description
<i>event</i>	<p>Required. A String that specifies the name of the event.</p> <p>Note: Do not use the "on" prefix. For example, use "click" instead of "onclick".</p> <p>For a list of all HTML DOM events, look at our complete HTML DOM Event Object Reference.</p>
<i>function</i>	<p>Required. Specifies the function to run when the event occurs.</p> <p>When the event occurs, an event object is passed to the function as the first parameter. The type of the event object depends on the</p>

specified event. For example, the "click" event belongs to the MouseEvent object.

useCapture Optional. A Boolean value that specifies whether the event should be executed in the capturing or in the bubbling phase.

Possible values:

- true - The event handler is executed in the capturing phase
- false- Default. The event handler is executed in the bubbling phase



Technical Details

DOM Version: DOM Level 2 Events

Return Value: No return value

Changelog: The useCapture parameter became optional in Firefox 6 and Opera 11.60 (has always been optional for Chrome, IE and Safari)

More Examples

Example

You can also refer to an external "named" function:

```
"color:black">"color:red">
document."color:black">addEventListener("color:brown">"click",
myFunction);
```

```
"color:mediumblue">function myFunction() {  
  
document."color:black">getElementById("color:brown">"demo")."color:black">innerHTML = "color:brown">"Hello World";  
"color:red"> }
```

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Example

You can add many events to the document, without overwriting existing events.

This example demonstrates how to add two click events to the document:

```
"color:black">"color:red">  
document."color:black">addEventListener("color:brown">"click",  
myFunction);  
document."color:black">addEventListener("color:brown">"click",  
someOtherFunction);
```

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Example

You can add events of different types to the document.

This example demonstrates how to add many events to the document:

```
"color:black">"color:red">  
document."color:black">addEventListener("color:brown">"mouseover", myFunction);  
document."color:black">addEventListener("color:brown">"click",  
someOtherFunction);  
"color:red">  
document."color:black">addEventListener("color:brown">"mouseout", someOtherFunction);
```

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Example

When passing parameter values, use an "anonymous function" that calls the specified function with the parameters:

```
"color:black">"color:red">
document."color:black">addEventListener("color:brown">"click",
"color:mediumblue">function() {
    myFunction(p1, p2);
});
```

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Example

Change the background color of the document's <body> element:

```
"color:black">"color:red">
document."color:black">addEventListener("color:brown">"click",
"color:mediumblue">function() {

document."color:black">body."color:black">style."color:black">b
ackgroundColor = "color:brown">"red";
});
```

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Example

Using the `removeEventListener()` method to remove an event handler that has been attached with the `addEventListener()` method:

```
"color:black">"color:red"> "color:green">// Attach an event
handler to the document
```

```
document."color:black">addEventListener("color:brown">"mousemove", myFunction);

"color:green">// Remove the event handler from the document
"color:red">
document."color:black">removeEventListener("color:brown">"mousemove", myFunction);
```

Try it Yourself »

Example

For browsers that don't support the `addEventListener()` method, you can use the `attachEvent()` method.

This example demonstrates a cross-browser solution:

```
"color:black">"color:red"> "color:mediumblue">if
(document."color:black">addEventListener)
{
    "color:green">// For all major browsers,
except IE 8 and earlier

document."color:black">addEventListener("color:brown">"click",
myFunction);
} "color:mediumblue">else "color:mediumblue">if
(document."color:black">attachEvent) {
"color:green">// For IE 8 and earlier versions
    document."color:black">attachEvent("color:brown">"onclick",
myFunction);
}
```

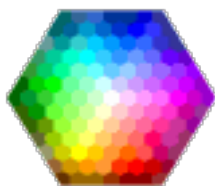
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