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# HTML DOM addEventListener() Method

☐ Element Object

## Example

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

```
document.getElementById("myBtn").addEventListener("click", function(){
  document.getElementById("demo").innerHTML = "Hello World";
});
```

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More "Try it Yourself" examples below.





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The addEventListener() method attaches an event handler to the specified element.

**Tip:** Use the <u>removeEventListener()</u> method to remove an event handler that has been attached with the addEventListener() method.

**Tip:** Use the <u>document.addEventListener()</u> method to attach an event handler to the document.

# **Browser Support**

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

Method					
addEventListener()	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).

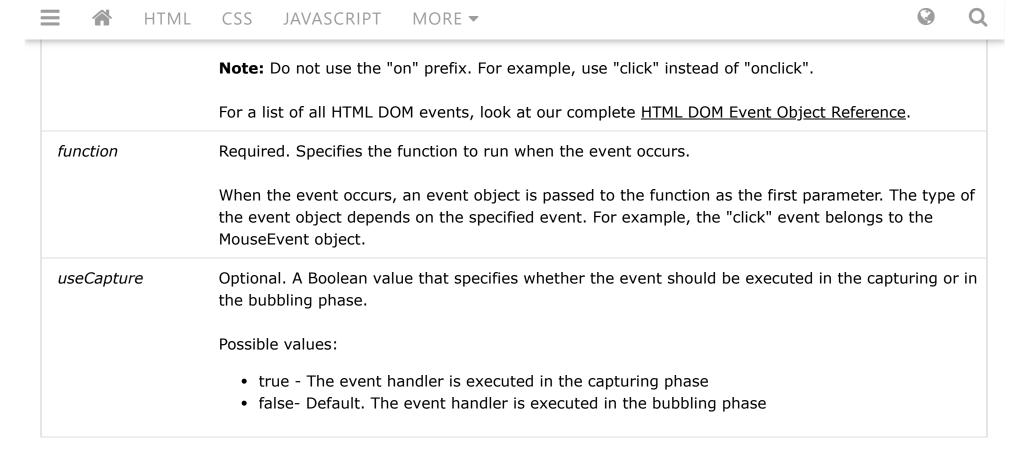
# Syntax

element.addEventListener(event, function, useCapture)

# Parameter Values

**Parameter** 

**Description** 



## **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)



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#### MOLE EXAMPLES

# Example

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

This example demonstrates how to execute a function when a user clicks on a <button> element:

```
document.getElementById("myBtn").addEventListener("click", myFunction);
function myFunction() {
  document.getElementById("demo").innerHTML = "Hello World";
```

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## Example

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

This example demonstrates how to add two click events on the same <button> element:

```
document.getElementById("myBtn").addEventListener("click", myFunction);
document.getElementById("myBtn").addEventListener("click", someOtherFunction);
```

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You can add events of different types to the same element.

This example demonstrates how to add many events on the same <button> element:

```
document.getElementById("myBtn").addEventListener("mouseover", myFunction);
document.getElementById("myBtn").addEventListener("click", someOtherFunction);
document.getElementById("myBtn").addEventListener("mouseout", someOtherFunction);
```

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### Example

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

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

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#### Example

Change the background color of a <button> element:

```
document.getElementById("myBtn").addEventListener("click", function(){
   this.style.backgroundColor = "red";
```





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## Example

Using the optional useCapture parameter to demonstrate the difference between bubbling and capturing:

```
document.getElementById("myDiv").addEventListener("click", myFunction, true);
```

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## Example

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

```
// Attach an event handler to <div>
document.getElementById("myDIV").addEventListener("mousemove", myFunction);

// Remove the event handler from <div>
document.getElementById("myDIV").removeEventListener("mousemove", myFunction);
```

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

This example demonstrates a cross-browser solution:

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