

# Mouse Events

Event	Description	DOM
<a href="#">onclick</a>	The event occurs when the user clicks on an element	2
<a href="#">oncontextmenu</a>	The event occurs when the user right-clicks on an element to open a context menu	3
<a href="#">ondblclick</a>	The event occurs when the user double-clicks on an element	2
<a href="#">onmousedown</a>	The event occurs when the user presses a mouse button over an element	2
<a href="#">onmouseenter</a>	The event occurs when the pointer is moved onto an element	2
<a href="#">onmouseleave</a>	The event occurs when the pointer is moved out of an element	2
<a href="#">onmousemove</a>	The event occurs when the pointer is moving while it is over an element	2
<a href="#">onmouseover</a>	The event occurs when the pointer is moved onto an element, or onto one of its children	2
<a href="#">onmouseout</a>	The event occurs when a user moves the mouse pointer out of an element, or out of one of its children	2
<a href="#">onmouseup</a>	The event occurs when a user releases a mouse button over an element	2

# Keyboard Events

Event	Description	DOM
<a href="#">onkeydown</a>	The event occurs when the user is pressing a key	2
<a href="#">onkeypress</a>	The event occurs when the user presses a key	2
<a href="#">onkeyup</a>	The event occurs when the user releases a key	2

# Frame/Object Events

Event	Description	DOM
<a href="#">onabort</a>	The event occurs when the loading of a resource has been aborted	2
<a href="#">onbeforeunload</a>	The event occurs before the document is about to be unloaded	2
<a href="#">onerror</a>	The event occurs when an error occurs while loading an external file	2
<a href="#">onhashchange</a>	The event occurs when there has been changes to the anchor part of a URL	3
<a href="#">onload</a>	The event occurs when an object has loaded	2
<a href="#">onpageshow</a>	The event occurs when the user navigates to a webpage	3
<a href="#">onpagehide</a>	The event occurs when the user navigates away from a webpage	3
<a href="#">onresize</a>	The event occurs when the document view is resized	2
<a href="#">onscroll</a>	The event occurs when an element's scrollbar is being scrolled	2
<a href="#">onunload</a>	The event occurs once a page has unloaded (for <body>)	2

# Form Events

Event	Description	DOM
<a href="#">onblur</a>	The event occurs when an element loses focus	2
<a href="#">onchange</a>	The event occurs when the content of a form element, the selection, or the checked state have changed (for <input>, <keygen>, <select>, and <textarea>)	2
<a href="#">onfocus</a>	The event occurs when an element gets focus	2
<a href="#">onfocusin</a>	The event occurs when an element is about to get focus	2
<a href="#">onfocusout</a>	The event occurs when an element is about to lose focus	2
<a href="#">oninput</a>	The event occurs when an element gets user input	3
<a href="#">oninvalid</a>	The event occurs when an element is invalid	3
<a href="#">onreset</a>	The event occurs when a form is reset	2
<a href="#">onsearch</a>	The event occurs when the user writes something in a search field (for <input="search">)	3
<a href="#">onselect</a>	The event occurs after the user selects some text (for <input> and <textarea>)	2
<a href="#">onsubmit</a>	The event occurs when a form is submitted	2

# Drag Events

Event	Description	DOM
<a href="#">ondrag</a>	The event occurs when an element is being dragged	3
<a href="#">ondragend</a>	The event occurs when the user has finished dragging an element	3
<a href="#">ondragenter</a>	The event occurs when the dragged element enters the drop target	3
<a href="#">ondragleave</a>	The event occurs when the dragged element leaves the drop target	3
<a href="#">ondragover</a>	The event occurs when the dragged element is over the drop target	3
<a href="#">ondragstart</a>	The event occurs when the user starts to drag an element	3
<a href="#">ondrop</a>	The event occurs when the dragged element is dropped on the drop target	3

# Clipboard Events

Event	Description	DOM
<a href="#">oncopy</a>	The event occurs when the user copies the content of an element	
<a href="#">oncut</a>	The event occurs when the user cuts the content of an element	
<a href="#">onpaste</a>	The event occurs when the user pastes some content in an element	

# Print Events

Event	Description	DOM
<a href="#">onafterprint</a>	The event occurs when a page has started printing, or if the print dialogue box has been closed	3
<a href="#">onbeforeprint</a>	The event occurs when a page is about to be printed	3

# Media Events

Event	Description	DOM
<a href="#">onabort</a>	The event occurs when the loading of a media is aborted	3
<a href="#">oncanplay</a>	The event occurs when the browser can start playing the media (when it has buffered enough to begin)	3
<a href="#">oncanplaythrough</a>	The event occurs when the browser can play through the media without stopping for buffering	3
<a href="#">ondurationchange</a>	The event occurs when the duration of the media is changed	3
<a href="#">onemptied</a>	The event occurs when something bad happens and the media file is suddenly unavailable (like unexpectedly disconnects)	3
<a href="#">onended</a>	The event occurs when the media has reach the end (useful for messages like "thanks for listening")	3
<a href="#">onerror</a>	The event occurs when an error occurred during the loading of a media file	3
<a href="#">onloadeddata</a>	The event occurs when media data is loaded	3
<a href="#">onloadedmetadata</a>	The event occurs when meta data (like dimensions and duration) are loaded	3
<a href="#">onloadstart</a>	The event occurs when the browser starts looking for the specified media	3
<a href="#">onpause</a>	The event occurs when the media is paused either by the user or programmatically	3
<a href="#">onplay</a>	The event occurs when the media has been started or is no longer paused	3

<a href="#"><u>onplaying</u></a>	The event occurs when the media is playing after having been paused or stopped for buffering	3
<a href="#"><u>onprogress</u></a>	The event occurs when the browser is in the process of getting the media data (downloading the media)	3
<a href="#"><u>onratechange</u></a>	The event occurs when the playing speed of the media is changed	3
<a href="#"><u>onseeked</u></a>	The event occurs when the user is finished moving/skipping to a new position in the media	3
<a href="#"><u>onseeking</u></a>	The event occurs when the user starts moving/skipping to a new position in the media	3
<a href="#"><u>onstalled</u></a>	The event occurs when the browser is trying to get media data, but data is not available	3
<a href="#"><u>onsuspend</u></a>	The event occurs when the browser is intentionally not getting media data	3
<a href="#"><u>ontimeupdate</u></a>	The event occurs when the playing position has changed (like when the user fast forwards to a different point in the media)	3
<a href="#"><u>onvolumechange</u></a>	The event occurs when the volume of the media has changed (includes setting the volume to "mute")	3
<a href="#"><u>onwaiting</u></a>	The event occurs when the media has paused but is expected to resume (like when the media pauses to buffer more data)	3

## Animation Events

Event	Description	DOM
<a href="#"><u>animationend</u></a>	The event occurs when a CSS animation has completed	3
<a href="#"><u>animationiteration</u></a>	The event occurs when a CSS animation is repeated	3
<a href="#"><u>animationstart</u></a>	The event occurs when a CSS animation has started	3

## Transition Events

Event	Description	DOM
<a href="#">transitionend</a>	The event occurs when a CSS transition has completed	3

## Server-Sent Events

Event	Description	DOM
<a href="#">onerror</a>	The event occurs when an error occurs with the event source	
<a href="#">onmessage</a>	The event occurs when a message is received through the event source	
<a href="#">onopen</a>	The event occurs when a connection with the event source is opened	

## Misc Events

Event	Description	DOM
onmessage	The event occurs when a message is received through or from an object (WebSocket, Web Worker, Event Source or a child frame or a parent window)	3
onmousewheel	<b>Deprecated.</b> Use the <a href="#">onwheel</a> event instead	
<a href="#">online</a>	The event occurs when the browser starts to work online	3
<a href="#">offline</a>	The event occurs when the browser starts to work offline	3
onpopstate	The event occurs when the window's history changes	3
<a href="#">onshow</a>	The event occurs when a <menu> element is shown as a context menu	3
onstorage	The event occurs when a Web Storage area is updated	3
<a href="#">ontoggle</a>	The event occurs when the user opens or closes the	3

<details> element

[onwheel](#)

The event occurs when the mouse wheel rolls up or down over an element

3

## Touch Events

Event	Description	DOM
ontouchcancel	The event occurs when the touch is interrupted	
ontouchend	The event occurs when a finger is removed from a touch screen	
ontouchmove	The event occurs when a finger is dragged across the screen	
ontouchstart	The event occurs when a finger is placed on a touch screen	

## Event Object

### *Constants*

Constant	Description	DOM
CAPTURING_PHASE	The current event phase is the capture phase (1)	1
AT_TARGET	The current event is in the target phase, i.e. it is being evaluated at the event target (2)	2
BUBBLING_PHASE	The current event phase is the bubbling phase (3)	3

### *Properties*

Property	Description	DOM
<a href="#">bubbles</a>	Returns whether or not a specific event is a bubbling event	2
<a href="#">cancelable</a>	Returns whether or not an event can have its default action prevented	2
<a href="#">currentTarget</a>	Returns the element whose event listeners triggered the event	2



<a href="#">defaultPrevented</a>	Returns whether or not the preventDefault() method was called for the event	3
<a href="#">eventPhase</a>	Returns which phase of the event flow is currently being evaluated	2
<a href="#">isTrusted</a>	Returns whether or not an event is trusted	3
<a href="#">target</a>	Returns the element that triggered the event	2
<a href="#">timeStamp</a>	Returns the time (in milliseconds relative to the epoch) at which the event was created	2
<a href="#">type</a>	Returns the name of the event	2
<a href="#">view</a>	Returns a reference to the Window object where the event occurred	2

## Methods

Method	Description	DOM
<a href="#">preventDefault()</a>	Cancels the event if it is cancelable, meaning that the default action that belongs to the event will not occur	2
<a href="#">stopImmediatePropagation()</a>	Prevents other listeners of the same event from being called	3
<a href="#">stopPropagation()</a>	Prevents further propagation of an event during event flow	2

## MouseEvent Object

Property	Description	DOM
<a href="#">altKey</a>	Returns whether the "ALT" key was pressed when the mouse event was triggered	2
<a href="#">button</a>	Returns which mouse button was pressed when the mouse event was triggered	2
<a href="#">buttons</a>	Returns which mouse buttons were pressed when the mouse event was triggered	3
<a href="#">clientX</a>	Returns the horizontal coordinate of the mouse pointer, relative to the current window, when the mouse event was triggered	2
<a href="#">clientY</a>	Returns the vertical coordinate of the mouse pointer, relative to the current window, when the	2

	mouse event was triggered	
<a href="#">ctrlKey</a>	Returns whether the "CTRL" key was pressed when the mouse event was triggered	2
<a href="#">detail</a>	Returns a number that indicates how many times the mouse was clicked	2
<a href="#">metaKey</a>	Returns whether the "META" key was pressed when an event was triggered	2
<a href="#">relatedTarget</a>	Returns the element related to the element that triggered the mouse event	2
<a href="#">screenX</a>	Returns the horizontal coordinate of the mouse pointer, relative to the screen, when an event was triggered	2
<a href="#">screenY</a>	Returns the vertical coordinate of the mouse pointer, relative to the screen, when an event was triggered	2
<a href="#">shiftKey</a>	Returns whether the "SHIFT" key was pressed when an event was triggered	2
<a href="#">which</a>	Returns which mouse button was pressed when the mouse event was triggered	2

## KeyboardEvent Object

Property	Description	DOM
<a href="#">altKey</a>	Returns whether the "ALT" key was pressed when the key event was triggered	2
<a href="#">ctrlKey</a>	Returns whether the "CTRL" key was pressed when the key event was triggered	2
<a href="#">charCode</a>	Returns the Unicode character code of the key that triggered the onkeypress event	2
<a href="#">key</a>	Returns the key value of the key represented by the event	3
<a href="#">keyCode</a>	Returns the Unicode character code of the key that triggered the onkeypress event, or the Unicode key code of the key that triggered the onkeydown or onkeyup event	2
<a href="#">location</a>	Returns the location of a key on the keyboard or	3

device

<a href="#">metaKey</a>	Returns whether the "meta" key was pressed when the key event was triggered	2
<a href="#">shiftKey</a>	Returns whether the "SHIFT" key was pressed when the key event was triggered	2
<a href="#">which</a>	Returns the Unicode character code of the key that triggered the onkeypress event, or the Unicode key code of the key that triggered the onkeydown or onkeyup event	2

## HashChangeEvent Object

Property	Description	DOM
<a href="#">newURL</a>	Returns the URL of the document, after the hash has been changed	
<a href="#">oldURL</a>	Returns the URL of the document, before the hash was changed	

## PageTransitionEvent Object

Property	Description	DOM
<a href="#">persisted</a>	Returns whether the webpage was cached by the browser	

## FocusEvent Object

Property	Description	DOM
<a href="#">relatedTarget</a>	Returns the element related to the element that triggered the event	3

## AnimationEvent Object

Property	Description	DOM
<a href="#">animationName</a>	Returns the name of the animation	
<a href="#">elapsedTime</a>	Returns the number of seconds an animation has been running	

# TransitionEvent Object

Property	Description	DOM
<a href="#">propertyName</a>	Returns the name of the CSS property associated with the transition	
<a href="#">elapsedTime</a>	Returns the number of seconds a transition has been running	

# WheelEvent Object

Property	Description	DOM
deltaX	Returns the horizontal scroll amount of a mouse wheel (x-axis)	3
deltaY	Returns the vertical scroll amount of a mouse wheel (y-axis)	3
deltaZ	Returns the scroll amount of a mouse wheel for the z-axis	3
deltaMode	Returns a number that represents the unit of measurements for delta values (pixels, lines or pages)	3