

HTML DOM Events (from W3Schools.com)

HTML DOM events allow JavaScript to register different event handlers on elements in an HTML document.

Events are normally used in combination with functions, and the function will not be executed before the event occurs (such as when a user clicks a button).

Mouse Events

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

Keyboard Events

Event	Description
onkeydown	The event occurs when the user is pressing a key
onkeypress	The event occurs when the user presses a key
onkeyup	The event occurs when the user releases a key

Frame/Object Events

Event	Description
onabort	The event occurs when the loading of a resource has been aborted

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

Form Events

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

Drag Events

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

Clipboard Events

Event	Description
<u>oncopy</u>	The event occurs when the user copies the content of an element
<u>oncut</u>	The event occurs when the user cuts the content of an element
<u>onpaste</u>	The event occurs when the user pastes some content in an element

Print Events

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

Media Events

Event	Description
<u>onabort</u>	The event occurs when the loading of a media is aborted
<u>oncanplay</u>	The event occurs when the browser can start playing the media (when it has buffered enough to begin)
<u>oncanplaythrough</u>	The event occurs when the browser can play through the media without stopping for buffering
<u>ondurationchange</u>	The event occurs when the duration of the media is changed

<u>onemptied</u>	The event occurs when something bad happens and the media file is suddenly unavailable (like unexpectedly disconnects)
<u>onended</u>	The event occurs when the media has reach the end (useful for messages like "thanks for listening")
<u>onerror</u>	The event occurs when an error occurred during the loading of a media file
<u>onloadeddata</u>	The event occurs when media data is loaded
<u>onloadedmetadata</u>	The event occurs when meta data (like dimensions and duration) are loaded
<u>onloadstart</u>	The event occurs when the browser starts looking for the specified media
<u>onpause</u>	The event occurs when the media is paused either by the user or programmatically
<u>onplay</u>	The event occurs when the media has been started or is no longer paused
<u>onplaying</u>	The event occurs when the media is playing after having been paused or stopped for buffering
<u>onprogress</u>	The event occurs when the browser is in the process of getting the media data (downloading the media)
<u>onratechange</u>	The event occurs when the playing speed of the media is changed
<u>onseeked</u>	The event occurs when the user is finished moving/skipping to a new position in the media
<u>onseeking</u>	The event occurs when the user starts moving/skipping to a new position in the media
<u>onstalled</u>	The event occurs when the browser is trying to get media data, but data is not available
<u>onsuspend</u>	The event occurs when the browser is intentionally not getting media data
<u>ontimeupdate</u>	The event occurs when the playing position has changed (like when the user fast forwards to a different point in the media)
<u>onvolumechange</u>	The event occurs when the volume of the media has changed (includes setting the volume to "mute")
<u>onwaiting</u>	The event occurs when the media has paused but is expected to resume (like when the media pauses to buffer more data)

Event	Description
animationend	The event occurs when a CSS animation has completed
animationiteration	The event occurs when a CSS animation is repeated
animationstart	The event occurs when a CSS animation has started

Transition Events

Event	Description
transitionend	The event occurs when a CSS transition has completed

Server-Sent Events

Event	Description
onerror	The event occurs when an error occurs with the event source
onmessage	The event occurs when a message is received through the event source
onopen	The event occurs when a connection with the event source is opened

Misc Events

Event	Description
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)
onmousewheel	Deprecated. Use the onwheel event instead
online	The event occurs when the browser starts to work online
offline	The event occurs when the browser starts to work offline
onpopstate	The event occurs when the window's history changes
onshow	The event occurs when a <menu> element is shown as a context menu
onstorage	The event occurs when a Web Storage area is updated
ontoggle	The event occurs when the user opens or closes the <details> element
onwheel	The event occurs when the mouse wheel rolls up or down over an element

Touch Events

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

Properties

Property	Description
bubbles	Returns whether or not a specific event is a bubbling event
cancelable	Returns whether or not an event can have its default action prevented
currentTarget	Returns the element whose event listeners triggered the event
defaultPrevented	Returns whether or not the preventDefault() method was called for the event
eventPhase	Returns which phase of the event flow is currently being evaluated
isTrusted	Returns whether or not an event is trusted
target	Returns the element that triggered the event
timeStamp	Returns the time (in milliseconds relative to the epoch) at which the event was created
type	Returns the name of the event
view	Returns a reference to the Window object where the event occurred

Methods

Method	Description
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preventDefault()	Cancels the event if it is cancelable, meaning that the default action that belongs to the event will not occur
stopImmediatePropagation()	Prevents other listeners of the same event from being called
stopPropagation()	Prevents further propagation of an event during event flow

MouseEvent Object

Property	Description
altKey	Returns whether the "ALT" key was pressed when the mouse event was triggered
button	Returns which mouse button was pressed when the mouse event was triggered
buttons	Returns which mouse buttons were pressed when the mouse event was triggered
clientX	Returns the horizontal coordinate of the mouse pointer, relative to the current window, when the mouse event was triggered
clientY	Returns the vertical coordinate of the mouse pointer, relative to the current window, when the mouse event was triggered
ctrlKey	Returns whether the "CTRL" key was pressed when the mouse event was triggered
detail	Returns a number that indicates how many times the mouse was clicked
metaKey	Returns whether the "META" key was pressed when an event was triggered
relatedTarget	Returns the element related to the element that triggered the mouse event
screenX	Returns the horizontal coordinate of the mouse pointer, relative to the screen, when an event was triggered
screenY	Returns the vertical coordinate of the mouse pointer, relative to the screen, when an event was triggered
shiftKey	Returns whether the "SHIFT" key was pressed when an event was triggered
which	Returns which mouse button was pressed when the mouse event was triggered

KeyboardEvent Object

Property	Description
altKey	Returns whether the "ALT" key was pressed when the key event was triggered
ctrlKey	Returns whether the "CTRL" key was pressed when the key event was triggered
charCode	Returns the Unicode character code of the key that triggered the onkeypress event
key	Returns the key value of the key represented by the event
keyCode	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
location	Returns the location of a key on the keyboard or device
metaKey	Returns whether the "meta" key was pressed when the key event was triggered
shiftKey	Returns whether the "SHIFT" key was pressed when the key event was triggered
which	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

HashChangeEvent Object

Property	Description
newURL	Returns the URL of the document, after the hash has been changed
oldURL	Returns the URL of the document, before the hash was changed

PageTransitionEvent Object

Property	Description
persisted	Returns whether the webpage was cached by the browser

FocusEvent Object

Property	Description
relatedTarget	Returns the element related to the element that triggered the event

AnimationEvent Object

Property	Description
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animationName	Returns the name of the animation
elapsedTime	Returns the number of seconds an animation has been running

TransitionEvent Object

Property	Description
propertyName	Returns the name of the CSS property associated with the transition
elapsedTime	Returns the number of seconds a transition has been running

WheelEvent Object

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