

HTML Event Attributes

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Global Event Attributes

HTML has the ability to let events trigger actions in a browser, like starting a JavaScript when a user clicks on an element.

To learn more about programming events, please visit our <u>JavaScript tutorial</u>.

Below are the global event attributes that can be added to HTML elements to define event actions.

Window Event Attributes

Events triggered for the window object (applies to the <body> tag):

Attribute	Value	Description
onafterprint	script	Script to be run after the document is printed
onbeforeprint	script	Script to be run before the document is printed
onbeforeunload	script	Script to be run when the document is about to be unloaded
<u>onerror</u>	script	Script to be run when an error occurs
<u>onhashchange</u>	script	Script to be run when there has been changes to the anchor part of the a URL

<u>onload</u>	script	Fires after the page is finished loading
onmessage	script	Script to be run when the message is triggered
<u>onoffline</u>	script	Script to be run when the browser starts to work offline
<u>ononline</u>	script	Script to be run when the browser starts to work online
onpagehide	script	Script to be run when a user navigates away from a page
onpageshow	script	Script to be run when a user navigates to a page
onpopstate	script	Script to be run when the window's history changes
<u>onresize</u>	script	Fires when the browser window is resized
onstorage	script	Script to be run when a Web Storage area is updated
<u>onunload</u>	script	Fires once a page has unloaded (or the browser window has been closed)

Form Events

Events triggered by actions inside a HTML form (applies to almost all HTML elements, but is most used in form elements):

Attribute	Value	Description
<u>onblur</u>	script	Fires the moment that the element loses focus
<u>onchange</u>	script	Fires the moment when the value of the element is changed
oncontextmenu	script	Script to be run when a context menu is triggered
onfocus	script	Fires the moment when the element gets focus
oninput	script	Script to be run when an element gets user input
<u>oninvalid</u>	script	Script to be run when an element is invalid

<u>onreset</u>	script	Fires when the Reset button in a form is clicked
<u>onsearch</u>	script	Fires when the user writes something in a search field (for <input="search">)</input="search">
<u>onselect</u>	script	Fires after some text has been selected in an
		element

Keyboard Events

Attribute	Value	Description
<u>onkeydown</u>	script	Fires when a user is pressing a key
<u>onkeypress</u>	script	Fires when a user presses a key
<u>onkeyup</u>	script	Fires when a user releases a key

Mouse Events

Attribute	Value	Description
<u>onclick</u>	script	Fires on a mouse click on the element
<u>ondblclick</u>	script	Fires on a mouse double-click on the element
<u>onmousedown</u>	script	Fires when a mouse button is pressed down on an element
<u>onmousemove</u>	script	Fires when the mouse pointer is moving while it is over an element
<u>onmouseout</u>	script	Fires when the mouse pointer moves out of an element
<u>onmouseover</u>	script	Fires when the mouse pointer moves over an element
<u>onmouseup</u>	script	Fires when a mouse button is released over an element

onmousewheel	script	Deprecated. Use the onwheel attribute instead
<u>onwheel</u>	script	Fires when the mouse wheel rolls up or down over an element

Drag Events

Attribute	Value	Description
<u>ondrag</u>	script	Script to be run when an element is dragged
ondragend	script	Script to be run at the end of a drag operation
<u>ondragenter</u>	script	Script to be run when an element has been dragged to a valid drop target
<u>ondragleave</u>	script	Script to be run when an element leaves a valid drop target
<u>ondragover</u>	script	Script to be run when an element is being dragged over a valid drop target
<u>ondragstart</u>	script	Script to be run at the start of a drag operation
<u>ondrop</u>	script	Script to be run when dragged element is being dropped
<u>onscroll</u>	script	Script to be run when an element's scrollbar is being scrolled

Clipboard Events

Attribute	Value	Description
<u>oncopy</u>	script	Fires when the user copies the content of an element
<u>oncut</u>	script	Fires when the user cuts the content of an element
<u>onpaste</u>	script	Fires when the user pastes some content in an element

Media Events

Events triggered by medias like videos, images and audio (applies to all HTML elements, but is most common in media elements, like <audio>, <embed>, , <object>, and <video>).

Tip: Look at our <u>HTML Audio and Video DOM Reference</u> for more information.

Attribute	Value	Description
onabort	script	Script to be run on abort
oncanplay	script	Script to be run when a file is ready to start playing (when it has buffered enough to begin)
oncanplaythrough	script	Script to be run when a file can be played all the way to the end without pausing for buffering
oncuechange	script	Script to be run when the cue changes in a <track/> element
ondurationchange	script	Script to be run when the length of the media changes
onemptied	script	Script to be run when something bad happens and the file is suddenly unavailable (like unexpectedly disconnects)
onended	script	Script to be run when the media has reach the end (a useful event for messages like "thanks for listening")
onerror	script	Script to be run when an error occurs when the file is being loaded
onloadeddata	script	Script to be run when media data is loaded
onloadedmetadata	script	Script to be run when meta data (like dimensions and duration) are loaded
onloadstart	script	Script to be run just as the file begins to load before anything is actually loaded
onpause	script	Script to be run when the media is paused either

		by the user or programmatically
onplay	script	Script to be run when the media is ready to start playing
onplaying	script	Script to be run when the media actually has started playing
onprogress	script	Script to be run when the browser is in the process of getting the media data
onratechange	script	Script to be run each time the playback rate changes (like when a user switches to a slow motion or fast forward mode)
onseeked	script	Script to be run when the seeking attribute is set to false indicating that seeking has ended
onseeking	script	Script to be run when the seeking attribute is set to true indicating that seeking is active
onstalled	script	Script to be run when the browser is unable to fetch the media data for whatever reason
onsuspend	script	Script to be run when fetching the media data is stopped before it is completely loaded for whatever reason
ontimeupdate	script	Script to be run when the playing position has changed (like when the user fast forwards to a different point in the media)
onvolumechange	script	Script to be run each time the volume is changed which (includes setting the volume to "mute")
onwaiting	script	Script to be run when the media has paused but is expected to resume (like when the media pauses to buffer more data)

Misc Events

Attribute	Value	Description
<u>ontoggle</u>	script	Fires when the user opens or closes the <details> element</details>

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