Window Event Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [onafterprint](http://www.w3schools.com/tags/ev_onafterprint.asp) | *script* | Script to be run after the document is printed |
| [onbeforeprint](http://www.w3schools.com/tags/ev_onbeforeprint.asp) | *script* | Script to be run before the document is printed |
| [onbeforeunload](http://www.w3schools.com/tags/ev_onbeforeunload.asp) | *script* | Script to be run when the document is about to be unloaded |
| onerror | *script* | Script to be run when an error occurs |
| [onhashchange](http://www.w3schools.com/tags/ev_onhashchange.asp) | *script* | Script to be run when there has been changes to the anchor part of the a URL |
| [onload](http://www.w3schools.com/tags/ev_onload.asp) | *script* | Fires after the page is finished loading |
| onmessage | *script* | Script to be run when the message is triggered |
| [onoffline](http://www.w3schools.com/tags/ev_onoffline.asp) | *script* | Script to be run when the browser starts to work offline |
| [ononline](http://www.w3schools.com/tags/ev_ononline.asp) | *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](http://www.w3schools.com/tags/ev_onpageshow.asp) | *script* | Script to be run when a user navigates to a page |
| onpopstate | *script* | Script to be run when the window's history changes |
| [onresize](http://www.w3schools.com/tags/ev_onresize.asp) | *script* | Fires when the browser window is resized |
| onstorage | *script* | Script to be run when a Web Storage area is updated |
| [onunload](http://www.w3schools.com/tags/ev_onunload.asp) | *script* | Fires once a page has unloaded (or the browser window has been closed) |

Form Events

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [onblur](http://www.w3schools.com/tags/ev_onblur.asp) | *script* | Fires the moment that the element loses focus |
| [onchange](http://www.w3schools.com/tags/ev_onchange.asp) | *script* | Fires the moment when the value of the element is changed |
| [oncontextmenu](http://www.w3schools.com/tags/ev_oncontextmenu.asp) | *script* | Script to be run when a context menu is triggered |
| [onfocus](http://www.w3schools.com/tags/ev_onfocus.asp) | *script* | Fires the moment when the element gets focus |
| [oninput](http://www.w3schools.com/tags/ev_oninput.asp) | *script* | Script to be run when an element gets user input |
| [oninvalid](http://www.w3schools.com/tags/ev_oninvalid.asp) | *script* | Script to be run when an element is invalid |
| [onreset](http://www.w3schools.com/tags/ev_onreset.asp) | *script* | Fires when the Reset button in a form is clicked |
| [onsearch](http://www.w3schools.com/tags/ev_onsearch.asp) | *script* | Fires when the user writes something in a search field (for <input="search">) |
| [onselect](http://www.w3schools.com/tags/ev_onselect.asp) | *script* | Fires after some text has been selected in an element |
| [onsubmit](http://www.w3schools.com/tags/ev_onsubmit.asp) | *script* | Fires when a form is submitted |

Keyboard Events

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [onkeydown](http://www.w3schools.com/tags/ev_onkeydown.asp) | *script* | Fires when a user is pressing a key |
| [onkeypress](http://www.w3schools.com/tags/ev_onkeypress.asp) | *script* | Fires when a user presses a key |
| [onkeyup](http://www.w3schools.com/tags/ev_onkeyup.asp) | *script* | Fires when a user releases a key |

Mouse Events

Events triggered by a mouse, or similar user actions:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [onclick](http://www.w3schools.com/tags/ev_onclick.asp) | *script* | Fires on a mouse click on the element |
| [ondblclick](http://www.w3schools.com/tags/ev_ondblclick.asp) | *script* | Fires on a mouse double-click on the element |
| [ondrag](http://www.w3schools.com/tags/ev_ondrag.asp) | *script* | Script to be run when an element is dragged |
| [ondragend](http://www.w3schools.com/tags/ev_ondragend.asp) | *script* | Script to be run at the end of a drag operation |
| [ondragenter](http://www.w3schools.com/tags/ev_ondragenter.asp) | *script* | Script to be run when an element has been dragged to a valid drop target |
| [ondragleave](http://www.w3schools.com/tags/ev_ondragleave.asp) | *script* | Script to be run when an element leaves a valid drop target |
| [ondragover](http://www.w3schools.com/tags/ev_ondragover.asp) | *script* | Script to be run when an element is being dragged over a valid drop target |
| [ondragstart](http://www.w3schools.com/tags/ev_ondragstart.asp) | *script* | Script to be run at the start of a drag operation |
| [ondrop](http://www.w3schools.com/tags/ev_ondrop.asp) | *script* | Script to be run when dragged element is being dropped |
| [onmousedown](http://www.w3schools.com/tags/ev_onmousedown.asp) | *script* | Fires when a mouse button is pressed down on an element |
| [onmousemove](http://www.w3schools.com/tags/ev_onmousemove.asp) | *script* | Fires when the mouse pointer is moving while it is over an element |
| [onmouseout](http://www.w3schools.com/tags/ev_onmouseout.asp) | *script* | Fires when the mouse pointer moves out of an element |
| [onmouseover](http://www.w3schools.com/tags/ev_onmouseover.asp) | *script* | Fires when the mouse pointer moves over an element |
| [onmouseup](http://www.w3schools.com/tags/ev_onmouseup.asp) | *script* | Fires when a mouse button is released over an element |
| onmousewheel | *script* | Deprecated. Use the [onwheel](http://www.w3schools.com/tags/ev_onwheel.asp) attribute instead |
| [onscroll](http://www.w3schools.com/tags/ev_onscroll.asp) | *script* | Script to be run when an element's scrollbar is being scrolled |
| [onwheel](http://www.w3schools.com/tags/ev_onwheel.asp) | *script* | Fires when the mouse wheel rolls up or down over an element |

Clipboard Events

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Value** | **Description** |
| [oncopy](http://www.w3schools.com/tags/ev_oncopy.asp) | *script* | Fires when the user copies the content of an element |
| [oncut](http://www.w3schools.com/tags/ev_oncut.asp) | *script* | Fires when the user cuts the content of an element |
| [onpaste](http://www.w3schools.com/tags/ev_onpaste.asp) | *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>, <img>, <object>, and <video>).

**Tip:** Look at our [HTML Audio and Video DOM Reference](http://www.w3schools.com/tags/ref_av_dom.asp) 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** |
| [onerror](http://www.w3schools.com/tags/ev_onerror.asp) | *script* | Fires when an error occurs while loading an external file |
| [onshow](http://www.w3schools.com/tags/ev_onshow.asp) | *script* | Fires when a <menu> element is shown as a context menu |
| [ontoggle](http://www.w3schools.com/tags/ev_ontoggle.asp) | *script* | Fires when the user opens or closes the <details> element |