

# HTML Event Attributes

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## Global Event Attributes

HTML 4 added 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 JavaScript tutorial (</js/default.asp>).

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

= New event attributes in HTML5.

## Window Event Attributes

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

| Attribute                                 | Value         | Description  |
|---|---------------|--|
| onafterprint<br>(ev_onafterprint.asp)     | <i>script</i> | Script to be run after the document is printed                               |
| onbeforeprint<br>(ev_onbeforeprint.asp)   | <i>script</i> | Script to be run before the document is printed                              |
| onbeforeunload<br>(ev_onbeforeunload.asp) | <i>script</i> | Script to be run when the document is about to be unloaded                   |
| onerror                                   | <i>script</i> | Script to be run when an error occur   |
| onhashchange<br>(ev_onhashchange.asp)     | <i>script</i> | Script to be run when there has been changes to the anchor part of the a URL |
| onload (ev_onload.asp)                    | <i>script</i> | Fires after the page is finished loading                                     |
| onmessage                                 | <i>script</i> | Script to be run when the message is triggered                               |
| onoffline<br>(ev_onoffline.asp)           | <i>script</i> | Script to be run when the browser starts to work offline                     |

|                                |               |  |
|--------------------------------|---------------|--|
| ononline (ev_ononline.asp)     | <i>script</i> | Script to be run when the browser starts to work online                |
| onpagehide                     | <i>script</i> | Script to be run when a user navigates away from a page                |
| onpageshow (ev_onpageshow.asp) | <i>script</i> | Script to be run when a user navigates to a page                       |
| onpopstate                     | <i>script</i> | Script to be run when the window's history changes                     |
| onresize (ev_onresize.asp)     | <i>script</i> | Fires when the browser window is resized                               |
| onstorage                      | <i>script</i> | Script to be run when a Web Storage area is updated                    |
| onunload (ev_onunload.asp)     | <i>script</i> | 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   |
|--------------------------------------|---------------|---|
| onblur (ev_onblur.asp)               | <i>script</i> | Fires the moment that the element loses focus             |
| onchange (ev_onchange.asp)           | <i>script</i> | Fires the moment when the value of the element is changed |
| oncontextmenu (ev_oncontextmenu.asp) | <i>script</i> | Script to be run when a context menu is triggered         |
| onfocus (ev_onfocus.asp)             | <i>script</i> | Fires the moment when the element gets focus              |
| oninput (ev_oninput.asp)             | <i>script</i> | Script to be run when an element gets user input          |
| oninvalid (ev_oninvalid.asp)         | <i>script</i> | Script to be run when an element is invalid               |
|                                      |               |   |

|                               |               |   |
|-------------------------------|---------------|---|
| onreset (ev_onreset.asp)      | <i>script</i> | Fires when the Reset button in a form is clicked                              |
| onsearch<br>(ev_onsearch.asp) | <i>script</i> | Fires when the user writes something in a search field (for <input="search">) |
| onselect (ev_onselect.asp)    | <i>script</i> | Fires after some text has been selected in an element                         |
| onsubmit<br>(ev_onsubmit.asp) | <i>script</i> | Fires when a form is submitted  |

## Keyboard Events

| Attribute                      | Value         | Description                         |
|--------------------------------|---------------|-------------------------------------|
| onkeydown (ev_onkeydown.asp)   | <i>script</i> | Fires when a user is pressing a key |
| onkeypress (ev_onkeypress.asp) | <i>script</i> | Fires when a user presses a key     |
| onkeyup (ev_onkeyup.asp)       | <i>script</i> | Fires when a user releases a key    |

## Mouse Events

Events triggered by a mouse, or similar user actions:

| Attribute                           | Value         | Description  |
|-------------------------------------|---------------|--|
| onclick (ev onclick.asp)            | <i>script</i> | Fires on a mouse click on the element                                    |
| ondblclick<br>(ev_ondblclick.asp)   | <i>script</i> | Fires on a mouse double-click on the element                             |
| ondrag (ev_ondrag.asp)              | <i>script</i> | Script to be run when an element is dragged                              |
| ondragend<br>(ev_ondragend.asp)     | <i>script</i> | Script to be run at the end of a drag operation                          |
| ondragenter<br>(ev_ondragenter.asp) | <i>script</i> | Script to be run when an element has been dragged to a valid drop target |
| ondragleave                         | <i>script</i> | Script to be run when an element leaves a valid                          |

|                                     |               |  |
|-------------------------------------|---------------|--|
| (ev_ondragleave.asp)                |               | drop target  |
| ondragover<br>(ev_ondragover.asp)   | <i>script</i> | Script to be run when an element is being dragged over a valid drop target |
| ondragstart<br>(ev_ondragstart.asp) | <i>script</i> | Script to be run at the start of a drag operation                          |
| ondrop (ev_ondrop.asp)              | <i>script</i> | Script to be run when dragged element is being dropped                     |
| onmousedown<br>(ev_onmousedown.asp) | <i>script</i> | Fires when a mouse button is pressed down on an element                    |
| onmousemove<br>(ev_onmousemove.asp) | <i>script</i> | Fires when the mouse pointer is moving while it is over an element         |
| onmouseout<br>(ev_onmouseout.asp)   | <i>script</i> | Fires when the mouse pointer moves out of an element                       |
| onmouseover<br>(ev_onmouseover.asp) | <i>script</i> | Fires when the mouse pointer moves over an element                         |
| onmouseup<br>(ev_onmouseup.asp)     | <i>script</i> | Fires when a mouse button is released over an element                      |
| onmousewheel                        | <i>script</i> | Deprecated. Use the onwheel (ev_onwheel.asp) attribute instead             |
| onscroll (ev_onscroll.asp)          | <i>script</i> | Script to be run when an element's scrollbar is being scrolled             |
| onwheel (ev_onwheel.asp)            | <i>script</i> | Fires when the mouse wheel rolls up or down over an element                |

## Clipboard Events

| Attribute              | Value         | Description  |
|------------------------|---------------|--|
| oncopy (ev_oncopy.asp) | <i>script</i> | Fires when the user copies the content of an element |
| oncut (ev_oncut.asp)   | <i>script</i> | Fires when the user cuts the content of an element   |

onpaste  
(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>):

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

|                |               |   |
|----------------|---------------|---|
| onplay         | <i>script</i> | Script to be run when the media is ready to start playing   |
| onplaying      | <i>script</i> | Script to be run when the media actually has started playing  |
| onprogress     | <i>script</i> | Script to be run when the browser is in the process of getting the media data   |
| onratechange   | <i>script</i> | Script to be run each time the playback rate changes (like when a user switches to a slow motion or fast forward mode)      |
| onseeked       | <i>script</i> | Script to be run when the seeking attribute is set to false indicating that seeking has ended                               |
| onseeking      | <i>script</i> | Script to be run when the seeking attribute is set to true indicating that seeking is active                                |
| onstalled      | <i>script</i> | Script to be run when the browser is unable to fetch the media data for whatever reason                                     |
| onsuspend      | <i>script</i> | Script to be run when fetching the media data is stopped before it is completely loaded for whatever reason                 |
| ontimeupdate   | <i>script</i> | Script to be run when the playing position has changed (like when the user fast forwards to a different point in the media) |
| onvolumechange | <i>script</i> | Script to be run each time the volume is changed which (includes setting the volume to "mute")                              |
| onwaiting      | <i>script</i> | 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 (ev_onerror.asp)   | <i>script</i> | Fires when an error occurs while loading an external file |
| onshow (ev_onshow.asp)     | <i>script</i> | Fires when a <menu> element is shown as a context menu    |
| ontoggle (ev_ontoggle.asp) | <i>script</i> | Fires when the user opens or closes the <details> element |

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