# **HTML Event Attributes**

### 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 <u>JavaScript tutorial</u>.

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

 $\mathbf{g}$  = New event attributes in HTML5.

### Window Event Attributes

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

Attribute	Valu	e Description
onafterprint 5	scrip	Script to be run after the document is printed
onbeforeprint 5	scrip	Script to be run before the document is printed
onbeforeunload 5	scrip	Script to be run when the document is about to be unloaded
onerror 5	scrip	Script to be run when an error occur
onhashchange 5	scrip	Script to be run when there has been changes to the anchor part of the a URL
<u>onload</u>	scrip	Fires after the page is finished loading
onmessage 5	scrip	Script to be run when the message is triggered
onoffline 5	scrip	Script to be run when the browser starts to work offline
ononline 5	scrip	Script to be run when the browser starts to work online
onpagehide 5	scrip	Script to be run when a user navigates away from a page
onpageshow 5	scrip	Script to be run when a user navigates to a page
onpopstate 5	scrip	Script to be run when the window's history changes
onresize 5	scrip	Fires when the browser window is resized
onstorage 5	scrip	Script to be run when a Web Storage area is updated
<u>onunload</u>	scrip	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
onchange	script	Fires the moment when the value of the element is changed
oncontextmenu 5	script	Script to be run when a context menu is triggered
onfocus	script	Fires the moment when the element gets focus
oninput 5	script	Script to be run when an element gets user input
oninvalid 5	script	Script to be run when an element is invalid
onreset 5	script	Fires when the Reset button in a form is clicked
onsearch	script	Fires when the user writes something in a search field (for <input="search">)</input="search">
onselect	script	Fires after some text has been selected in an element
onsubmit	script	Fires when a form is submitted

### **Keyboard Events**

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

### Mouse Events

Events triggered by a mouse, or similar user actions:

<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
ondrag	9	script	Script to be run when an element is dragged
<u>ondragend</u>	目	script	Script to be run at the end of a drag operation
<u>ondragenter</u>	目	script	Script to be run when an element has been dragged to a valid drop target
<u>ondragleave</u>	目	script	Script to be run when an element leaves a valid drop target
<u>ondragover</u>	ᅙ	script	Script to be run when an element is being dragged over a valid drop target
<u>ondragstart</u>	目	script	Script to be run at the start of a drag operation
<u>ondrop</u>	티	script	Script to be run when dragged element is being dropped
<u>onmousedown</u>		script	Fires when a mouse button is pressed down on an element
onmousemove		script	Fires when the mouse pointer is moving while it is over an element
onmouseout		script	Fires when the mouse pointer moves out of an element
onmouseover		script	Fires when the mouse pointer moves over an element
onmouseup		script	Fires when a mouse button is released over an element
onmousewheel		script	Deprecated. Use the <u>onwheel</u> attribute instead
onscroll	目	script	Script to be run when an element's scrollbar is being scrolled
<u>onwheel</u>	티	script	Fires when the mouse wheel rolls up or down over an element

# Clipboard Events

Attribute	Value	Value Description		
oncopy	script	Fires when the user copies the content of an element		
oncut	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>):

Attribute		Value	Description
onabort		script	Script to be run on abort
oncanplay	目	script	Script to be run when a file is ready to start playing (when it has buffered enough to begin)
oncanplaythrough	9	script	Script to be run when a file can be played all the way to the end without pausing for buffering
oncuechange	目	script	Script to be run when the cue changes in a <track/> element
ondurationchange	9	script	Script to be run when the length of the media changes
onemptied	ਰ	script	Script to be run when something bad happens and the file is suddenly unavailable (like unexpectedly disconnects)
onended	目	script	Script to be run when the media has reach the end (a useful event for messages like "thanks for listening")
onerror	9	script	Script to be run when an error occurs when the file is being loaded
onloadeddata	9	script	Script to be run when media data is loaded
onloadedmetadata	目	script	Script to be run when meta data (like dimensions and duration) are loaded
onloadstart	9	script	Script to be run just as the file begins to load before anything is actually loaded
onpause	目	script	Script to be run when the media is paused either by the user or programmatically
onplay	9	script	Script to be run when the media is ready to start playing
onplaying	ਰ	script	Script to be run when the media actually has started playing
onprogress	5	script	Script to be run when the browser is in the process of getting the media data
onratechange	9	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	5	script	Script to be run when the seeking attribute is set to false indicating that seeking has ended
onseeking	9	script	Script to be run when the seeking attribute is set to true indicating that seeking is active
onstalled	5	script	Script to be run when the browser is unable to fetch the media data for whatever reason
onsuspend	티	script	Script to be run when fetching the media data is stopped before it is completely loaded for whatever reason

ontimeupdate	9	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	ᅙ	script	Script to be run each time the volume is changed which (includes setting the volume to "mute")
onwaiting	5	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	Val	ue Description
<u>onerror</u>	<b>⋽</b> scr	Fires when an error occurs while loading an external file
onshow	3 scr	Fires when a <menu> element is shown as a context menu</menu>
<u>ontoggle</u>	<b>∃</b> scr	Fires when the user opens or closes the <details> element</details>