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Javascript - HTML DOM Events

 Programming Buddy Club  7 months ago 

HTML DOM Events

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).

Tip: The event model was standardized by the W3C in DOM Level 2

Mouse Events

Event	Description	DOM
onclick	The event occurs when the user clicks on an element	2
oncontextmenu	The event occurs when the user right-clicks on an element to open a context menu	3
ondblclick	The event occurs when the user double-clicks on an element	2

onmousedown	The event occurs when the user presses a mouse button over an element	2
onmouseenter	The event occurs when the pointer is moved onto an element	2
onmouseleave	The event occurs when the pointer is moved out of an element	2
onmousemove	The event occurs when the pointer is moving while it is over an element	2
onmouseover	The event occurs when the pointer is moved onto an element, or onto one of its children	2
onmouseout	The event occurs when a user moves the mouse pointer out of an element, or out of one of its children	2

onmouseup	The event occurs when a user releases a mouse button over an element	2

Keyboard Events

Event	Description	DOM
onkeydown	The event occurs when the user is pressing a key	2
onkeypress	The event occurs when the user presses a key	2
onkeyup	The event occurs when the user releases a key	2

Frame/Object Events

Event	Description	DOM
onabort	The event occurs when the loading of a resource has been aborted	2
onbeforeunload	The event occurs before the document is about to be unloaded	2
onerror	The event occurs when an error occurs while loading an external file	2
onhashchange	The event occurs when there has been changes to the anchor part of a URL	3
onload	The event occurs when an object has loaded	2

onpageshow	The event occurs when the user navigates to a webpage	3
onpagehide	The event occurs when the user navigates away from a webpage	3
onresize	The event occurs when the document view is resized	2
onscroll	The event occurs when an element's scrollbar is being scrolled	2
onunload	The event occurs once a page has unloaded (for <body>)	2

Form Events

Event	Description	DO
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onblur	The event occurs when an element loses focus	2
onchange	The event occurs when the content of a form element, the selection, or the checked state have changed (for <input>, <keygen>, <select>, and <textarea>)	2
onfocus	The event occurs when an element gets focus	2
onfocusin	The event occurs when an element is about to get focus	2
onfocusout	The event occurs when an element is about to lose focus	2
oninput	The event occurs when an element gets user input	3

oninvalid	The event occurs when an element is invalid	3
onreset	The event occurs when a form is reset	2
onsearch	The event occurs when the user writes something in a search field (for <input="search">)	3
onselect	The event occurs after the user selects some text (for <input> and <textarea>)	2
onsubmit	The event occurs when a form is submitted	2

Drag Events

Event	Description	DOM
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ondrag	The event occurs when an element is being dragged	3
ondragend	The event occurs when the user has finished dragging an element	3
ondragenter	The event occurs when the dragged element enters the drop target	3
ondragleave	The event occurs when the dragged element leaves the drop target	3
ondragover	The event occurs when the dragged element is over the drop target	3
ondragstart	The event occurs when the user starts to drag an element	3

ondrop	The event occurs when the dragged element is dropped on the drop target	3
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Clipboard Events

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

Print Events

Event	Description	DOM
onafterprint	The event occurs when a page has started printing, or if the print dialogue box has been closed	3
onbeforeprint	The event occurs when a page is about to be printed	3

Media Events

Event	Description	DOM
onabort	The event occurs when the loading of a media is aborted	3

oncanplay	The event occurs when the browser can start playing the media (when it has buffered enough to begin)	3
oncanplaythrough	The event occurs when the browser can play through the media without stopping for buffering	3
ondurationchange	The event occurs when the duration of the media is changed	3
onemptied	The event occurs when something bad happens and the media file is suddenly unavailable (like unexpectedly disconnects)	3
onended	The event occurs when the media has reach the end (useful for messages like "thanks for listening")	3
onerror	The event occurs when an error occurred during the	3

	loading of a media file	
onloadeddata	The event occurs when media data is loaded	3
onloadedmeta data	The event occurs when meta data (like dimensions and duration) are loaded	3
onloadstart	The event occurs when the browser starts looking for the specified media	3
onpause	The event occurs when the media is paused either by the user or programmatically	3
onplay	The event occurs when the media has been started or is no longer paused	3
onplaying	The event occurs when the media is playing after having	3

	been paused or stopped for buffering	
onprogress	The event occurs when the browser is in the process of getting the media data (downloading the media)	3
onratechange	The event occurs when the playing speed of the media is changed	3
onseeked	The event occurs when the user is finished moving/skipping to a new position in the media	3
onseeking	The event occurs when the user starts moving/skipping to a new position in the media	3
onstalled	The event occurs when the browser is trying to get media data, but data is not available	3

onsuspend	The event occurs when the browser is intentionally not getting media data	3
ontimeupdate	The event occurs when the playing position has changed (like when the user fast forwards to a different point in the media)	3
onvolumechange	The event occurs when the volume of the media has changed (includes setting the volume to "mute")	3
onwaiting	The event occurs when the media has paused but is expected to resume (like when the media pauses to buffer more data)	3

Animation Events

Event	Description	DOM

animationend	The event occurs when a CSS animation has completed	3
animationiteration	The event occurs when a CSS animation is repeated	3
animationstart	The event occurs when a CSS animation has started	3

Transition Events

Event	Description	DOM
transitionend	The event occurs when a CSS transition has completed	3

Server-Sent Events

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Event	Description	DOM
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	DOM
onmessage	The event occurs when a message is received through	3

	or from an object (WebSocket, Web Worker, Event Source or a child frame or a parent window)	
onmousewheel	Deprecated. Use the onwheel event instead	
ononline	The event occurs when the browser starts to work online	3
onoffline	The event occurs when the browser starts to work offline	3
onpopstate	The event occurs when the window's history changes	3
onshow	The event occurs when a <menu> element is shown as a context menu	3
onstorage	The event occurs when a Web Storage area is updated	3

ontoggle	The event occurs when the user opens or closes the <details> element	3
onwheel	The event occurs when the mouse wheel rolls up or down over an element	3

Touch Events

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

BUBBLING_PHASE	The current event phase is the bubbling phase (3)	3
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Properties

Property	Description	DOM
bubbles	Returns whether or not a specific event is a bubbling event	2
cancelable	Returns whether or not an event can have its default action prevented	2
currentTarget	Returns the element whose event listeners triggered the event	2

defaultPrevented	Returns whether or not the preventDefault() method was called for the event	3
eventPhase	Returns which phase of the event flow is currently being evaluated	2
isTrusted	Returns whether or not an event is trusted	3
target	Returns the element that triggered the event	2
timeStamp	Returns the time (in milliseconds relative to the epoch) at which the event was created	2
type	Returns the name of the event	2
view	Returns a reference to the Window object where the event occurred	2

Methods

Method	Description	DOM
preventDefault()	Cancels the event if it is cancelable, meaning that the default action that belongs to the event will not occur	2
stopImmediatePropagation()	Prevents other listeners of the same event from being called	3
stopPropagation()	Prevents further propagation of an event during event flow	2

MouseEvent Object

Property	Description	DOM
altKey	Returns whether the "ALT" key was pressed when the mouse event was triggered	2
button	Returns which mouse button was pressed when the mouse event was triggered	2
buttons	Returns which mouse buttons were pressed when the mouse event was triggered	3
clientX	Returns the horizontal coordinate of the mouse pointer, relative to the current window, when the mouse event was triggered	2
clientY	Returns the vertical coordinate of the mouse pointer, relative to the current window, when the mouse event	2

	was triggered	
ctrlKey	Returns whether the "CTRL" key was pressed when the mouse event was triggered	2
detail	Returns a number that indicates how many times the mouse was clicked	2
metaKey	Returns whether the "META" key was pressed when an event was triggered	2
pageX	Returns the horizontal coordinate of the mouse pointer, relative to the document, when the mouse event was triggered	
pageY	Returns the vertical coordinate of the mouse pointer, relative to the document, when the mouse event was triggered	

relatedTarget	Returns the element related to the element that triggered the mouse event	2
screenX	Returns the horizontal coordinate of the mouse pointer, relative to the screen, when an event was triggered	2
screenY	Returns the vertical coordinate of the mouse pointer, relative to the screen, when an event was triggered	2
shiftKey	Returns whether the "SHIFT" key was pressed when an event was triggered	2
which	Returns which mouse button was pressed when the mouse event was triggered	2

KeyboardEvent Object

Property	Description	DOM
altKey	Returns whether the "ALT" key was pressed when the key event was triggered	2
ctrlKey	Returns whether the "CTRL" key was pressed when the key event was triggered	2
charCode	Returns the Unicode character code of the key that triggered the onkeypress event	2
key	Returns the key value of the key represented by the event	3
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	2

	onkeyup event	
location	Returns the location of a key on the keyboard or device	3
metaKey	Returns whether the "meta" key was pressed when the key event was triggered	2
shiftKey	Returns whether the "SHIFT" key was pressed when the key event was triggered	2
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	2

HashChangeEvent Object

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

FocusEvent Object

Property	Description	DOM
relatedTarget	Returns the element related to the element that triggered the event	3

AnimationEvent Object

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

TransitionEvent Object

Property	Description	DOM
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	DOM
deltaX	Returns the horizontal scroll amount of a mouse wheel (x-axis)	3

deltaY	Returns the vertical scroll amount of a mouse wheel (y-axis)	3
deltaZ	Returns the scroll amount of a mouse wheel for the z-axis	3
deltaMode	Returns a number that represents the unit of measurements for delta values (pixels, lines or pages)	3

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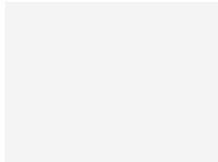
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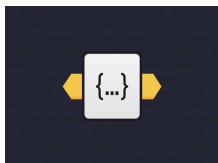
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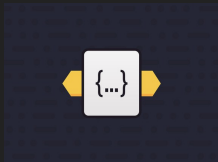
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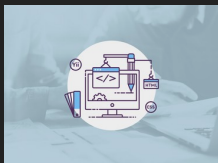
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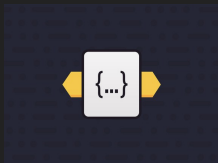
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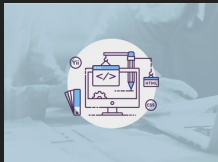
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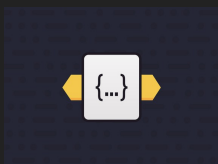
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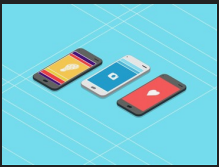
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