



WEB TECHNOLOGIES

Events

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EVENT

What are Events?



EVENT

A simple event handler Example



```
<form method="POST" action="">
  <input type="button"
    name="myButton"
    value="Click Me"
    onclick="alert('you clicked the button');">
</form>
```

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Event Handlers and Event Listeners



- Events are created by activities associated with specific HTML elements.
- The process of connecting an event handler to an event is called **registration**.
- There are two distinct approaches to event handler registration,
 - Assign element attributes
 - Inline event handlers
 - Assign handler addresses to object properties
 - Event handler properties and Event listeners

Event

Event Handler Properties



- An element can be assigned the event handler property

`element.on<event> = handler;`

- It involves two parts
 - the correct event name it is to be listening for
 - the handler callback function.

For example:

`div.onclick = change; or`

`div.onmouseover = function(){ ... };`

- An event listener watches for an event on an element.

`element.addEventListener(event, handler)`

- It takes two mandatory parameters
 - the event it is to be listening for.
 - the handler callback function.

For Example:

```
div.addEventListener("click", change);
```

```
div.addEventListener("keypress", function(){ ... });
```

Events

Event Sources and example events

Source	Event	Fires When...
Mouse	click	the mouse is clicked and released on an element
	dblclick	an element is clicked twice
	mousemove	every time a mouse pointer moves inside an element
	mouseover	every time a mouse pointer is placed over an element
Keyboard	keydown	when a key is pressed down
	keyup	when a key pressed is released
	keypress	when a key is pressed and released
Form	submit	a form is submitted
	reset	a form reset button is clicked
	focus	an input element is clicked and receives focus
	blur	an input element loses focus

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Event Object Properties



- Event object holds the context or details of the event

Property	IE5-8 Equivalent	Specifies
target	srcElement	the target of the event (most specific element).
type	-	the name of event fired (without the on prefix)
altKey / shiftKey / ctrlKey / metaKey	-	true/false to signify if Alt Key or Shift Key or Ctrl Key or Meta Key was pressed
charCode	keyCode	Unicode character code of the pressed key
key	-	Key Character Name ('a' or 'F1' or 'CAPS LOCK')
button	-	Returns which mouse button was pressed
clientX, clientY / offsetX, offsetY / screenX, screenY	-	the coordinates of the mouse pointer when the event triggered, relative to, the current window / target element / screen



THANK YOU

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