

EVENTS

Azure Python 

Javascript
Fundamentals

WHAT ARE EVENTS IN JAVASCRIPT?

Events are something that happens
to a webpage element

TYPES OF EVENTS:

BROWSER SPECIFIC EVENTS

- happen on browser
- For example, scrolling up and down, resizing browser window, etc.

DOM SPECIFIC EVENTS

- happen on the webpage
- For example, clicking a button, focusing a textbox, hovering over a webpage element

COMMON HTML EVENTS

EVENT	DESCRIPTION
onclick	The user clicks an HTML element
onmouseover	The user moves the mouse over an HTML element
onmouseout	The user moves the mouse away from an HTML element

COMMON HTML EVENTS

EVENT

DESCRIPTION

onclick

The user clicks an HTML element

onmouseover

The user moves the mouse over an HTML element

onmouseout

The user moves the mouse away from an HTML element

onfocus

The element gains focus

onblur

The element loses focus

HANDLING EVENTS IN JAVASCRIPT

INLINE EVENT HANDLER

- Adding attribute directly to the HTML element you want to handle event
- Assign any JavaScript expression to the attribute that wants to be executed when event happens

```
<button onclick="this.innerHTML = Date()">Click this to show date</button>
```


EVENT HANDLER PROPERTIES

- Adding property to a DOM element for which you want to handle the event
- Assign any JavaScript expression to the attribute that wants to be executed when event happens

```
const button = document.getElementById('myButton');  
button.onclick = function() {  
    document.getElementById('paragraph').innerHTML = 'Hello World';  
};
```

USING *addEventListener()* METHOD

Commonly used events that you can listen for using `addEventListener()` in JavaScript:

EVENT	OCCURS WHEN	BELONGS TO
click	An element is clicked on	MouseEvent
dblclick	An element is double-clicked	MouseEvent
submit	A form is submitted	Event
scroll	An scrollbar is being scrolled	UiEvent, Event
keypress	A key is pressed and released (used for character input).	onkeydown

USING *addEventListener()* METHOD

```
const button = document.getElementById('myButton');  
const paragraph = document.getElementById('myParagraph');  
  
button.addEventListener('click', function() {  
  paragraph.style.color = 'red';  
});
```