

What Is an Event Listener?

An event listener is a function that initiates a predefined process if a specific event occurs. So, an event listener "listens" for an action, then calls a function that performs a related

task.



The addEventListener() method of the EventTarget interface sets up a function that will be called whenever the specified event is delivered to the target.

Mouse Events

JavaScript has a MouseEvent interface that represents events that occur because of a user's interaction with their mouse. Ex:

- click & dblclick
- mousemove
- mouseover &mouseout
- mouseup & mousedown

Example: Click

```
<script>
  const btn=document.getElementById("btn");

  btn.addEventListener("click", function()
{ //some action
  });
</script>
```

Example:Resize

```
<script>
window.addEventListener("resize", function(){
document.write("Window has been resized " +

Math.random());
</script>
```

Example: Hover

```
<script>
var btnHover = document.getElementById("btn");

function setHoverColor() {
   btnHover.style.background = "orange";
}

function setNormalColor() {
   btnHover.style.background = "";
}

btnHover.addEventListener("mouseover",
bethHoverCaddE)entListener("mouseout",
setNormalColor);
</script>
```

Keyboard Events

JavaScript has a KeyboardEvent interface. This listens for interactions between a user and their keyboard.



The keyup and keydown events:
The keydown event occurs when a user presses
down on a key, and the keyup event occurs when
a user releases it.

```
<script>
let greetings = document.querySelector('p');
document.querySelector('input').addEventListener("keyup", captureInput)

function captureInput(e){
    greetings.innerText = (`Hello ${e.target.value}, welcome to my website.`)
}
</script>
```