



**TOPIC:** MOUSE EVENTS

**WEEK:** 5

**COURSE INSTRUCTOR:** ABDULLAH MAHMOOD

# MOUSE EVENTS IN JS

## What are Mouse Events?

Mouse events are actions that happen when a user interacts with a webpage using a mouse (like clicking, moving the mouse, hovering, etc.).

We can **capture** these actions and **respond** with JavaScript.

Event	Description
<code>click</code>	When the mouse clicks on an element
<code>dblclick</code>	When the mouse double-clicks on an element
<code>mousedown</code>	When the mouse button is pressed down
<code>mouseup</code>	When the mouse button is released
<code>mousemove</code>	When the mouse moves inside an element
<code>mouseenter</code>	When the mouse enters an element (no bubbling)
<code>mouseleave</code>	When the mouse leaves an element (no bubbling)
<code>mouseover</code>	When the mouse moves over an element (bubbles)
<code>mouseout</code>	When the mouse moves out of an element (bubbles)



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```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Mouse Events Full Demo</title>
6      <style>
7          body {
8              font-family: Arial, sans-serif;
9              text-align: center;
10             margin-top: 50px;
11             background-color: #f9f9f9;
12         }
13
14         #eventBox {
15             width: 300px;
16             height: 300px;
17             background-color: #4CAF50;
18             color: white;
19             line-height: 300px;
20             margin: auto;
21             border-radius: 10px;
22             font-size: 22px;
23             cursor: pointer;
24             transition: 0.3s;
25         }
26
27         #eventName {
28             margin-top: 30px;
29             font-size: 24px;
30             color: #333;
31         }
32     </style>
33 </head>
34 <body>
35
```



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```
<script>
  const box = document.getElementById('eventBox');
  const eventName = document.getElementById('eventName');

  // 1. click event
  box.addEventListener('click', function() {
    eventName.textContent = 'Event: Click';
  });

  // 2. dblclick event
  box.addEventListener('dblclick', function()
  {
    eventName.textContent = 'Event: Double Click';
  });

  // 3. mousedown event
  box.addEventListener('mousedown', function()
  {
    eventName.textContent = 'Event: Mouse Button Down';
  });

  // 4. mouseup event
  box.addEventListener('mouseup', function()
  {
    eventName.textContent = 'Event: Mouse Button Released';
  });

  // 5. mousemove event
  box.addEventListener('mousemove', function()
  {
    eventName.textContent = 'Event: Mouse Moving Inside';
  });

```



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```
// 6. mouseenter event
box.addEventListener('mouseenter', function()
{
    eventName.textContent = 'Event: Mouse Entered the Box';
    box.style.backgroundColor = '#2196F3'; // Change color
});

// 7. mouseleave event
box.addEventListener('mouseleave', function()
{
    eventName.textContent = 'Event: Mouse Left the Box';
    box.style.backgroundColor = '#4CAF50'; // Original color
});

// 8. mouseover event
box.addEventListener('mouseover', function()
{
    console.log('Mouse is over the box');
});

// 9. mouseout event
box.addEventListener('mouseout', function()
{
    console.log('Mouse moved out of the box');
});

</script>

</body>
</html>
```