

**Course
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Test Series**

Introduction to 'JavaScript' Language

JavaScript Functions and Events

Module 10 - HTML Standard Events

CBSE

HTML Standard Events

HTML standard events in JavaScript refer to the predefined events that are part of the HTML DOM (Document Object Model) specification. These events can be used to detect and respond to user interactions or browser actions, such as clicking a button, loading a page, typing in a field, etc.

ICSE

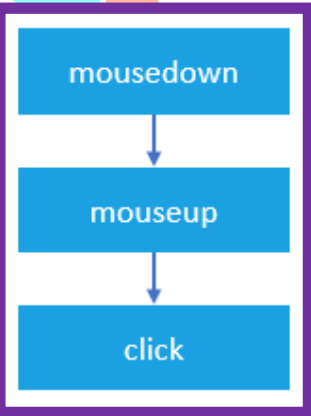
Categories of Standard HTML Events in JavaScript:

NTSE

Mouse Events

Triggered by mouse actions.

- onclick - when an element is clicked
- ondblclick - on double-click
- onmousedown - when mouse button is pressed
- onmouseup - when mouse button is released
- onmousemove - when mouse is moved
- onmouseover - when mouse enters an element
- onmouseout - when mouse leaves an element



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Keyboard Events

Triggered by keyboard actions.

- onkeydown - when a key is pressed
- onkeypress - when a key is pressed and released (deprecated)
- onkeyup - when a key is released

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	1- Normal	2- Press down	3- Hold down	
Windows		Event: keydown	Event: keypress .. keydown	... Event: keypress .. keydown
MacOS		Event: keydown	Event: keydown .. keydown	... Event: keydown .. keydown

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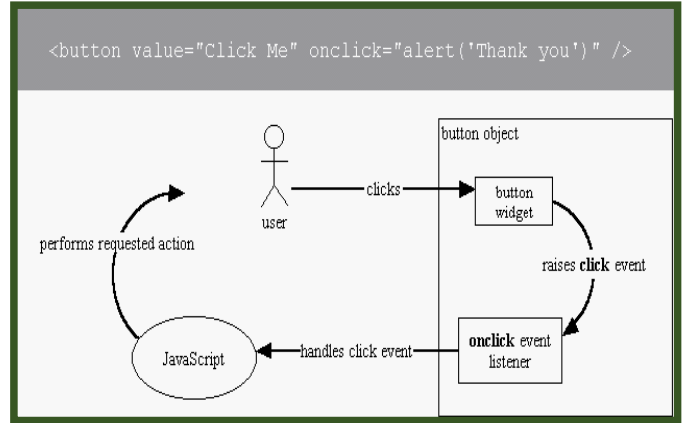
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Form Events

Related to form input elements.

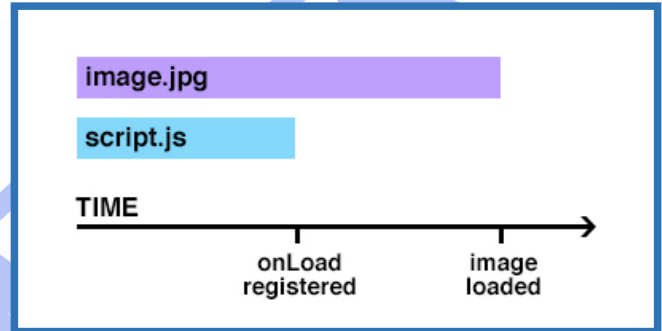
- onfocus - when an element gets focus
- onblur - when an element loses focus
- onchange - when input value changes (e.g., in <select> or <input>)
- oninput - when the user inputs data
- onsubmit - when a form is submitted
- onreset - when a form is reset



Window Events

Related to browser window or document.

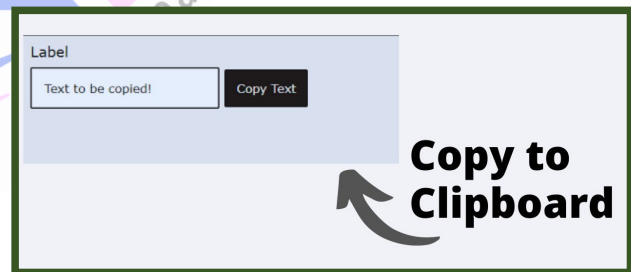
- onload - when the page or image is fully loaded
- onunload - when the page is unloaded
- onresize - when the window is resized
- onscroll - when the page or element is scrolled



Clipboard Events

For copy-paste actions.

- oncopy - when content is copied
- oncut - when content is cut
- onpaste - when content is pasted



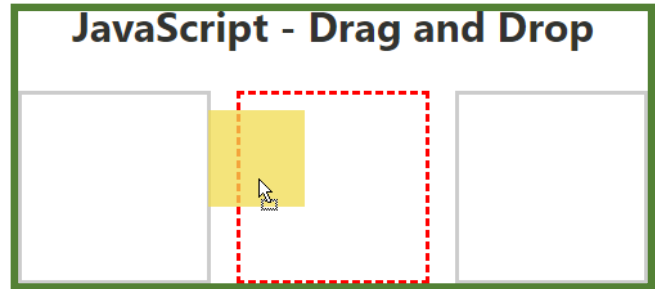
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Drag & Drop Events

For drag-and-drop actions.

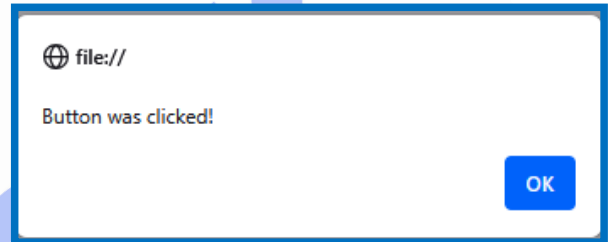
- ondragstart, ondrag, ondragenter, ondragleave, ondragover, ondrop, ondragend



Solved Example on Mouse Event

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport"
content="width=device-width, initial-
scale=1" />
  <title>Mouse Event Example</title>
</head>
<body>
  <h1>Mouse Event in JavaScript</h1>
  <button id="myButton">Click me</button>
  <script>
    // Select the button element by its ID
    const button = document.getElementById('myButton');
    // Add a click event listener to the button
    button.addEventListener('click', function() {
      alert('Button was clicked!');
    });
  </script>
</body>
</html>
  
```



Solved Example on Keyboard Event

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <title>Keyboard Event Example</title>
  
```

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```

</head>
<body>
<h1>Keyboard Event in JavaScript</h1>
<p>Press any key and see the result below:</p>
<div id="output" style="font-size: 24px; margin-top: 20px;"></div>
<script>
  // Get the output div
  const output = document.getElementById('output');
  // Listen for keydown event on the whole document
  document.addEventListener('keydown', function(event) {
    // event.key holds the value of the key pressed
    output.textContent = `You
pressed: ${event.key}`;
  });
</script>
</body>
</html>

```

Keyboard Event in JavaScript

Press any key and see the result below:

You pressed: Shift

Solved Example on Form Event

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <title>Form Event Example</title>
</head>
<body>
<h1>Form Submit Event in JavaScript</h1>
<form id="myForm">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name" required />
  <br /><br />
  <label for="email">Email:</label>
  <input type="email" id="email" name="email" required />
  <br /><br />
  <button type="submit">Submit</button>
</form>
<div id="result" style="margin-top: 20px; font-weight: bold;"></div>
<script>

```



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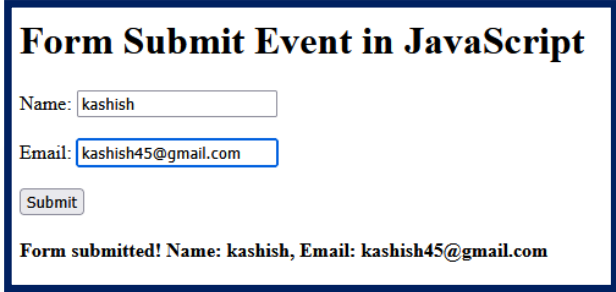
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```
const form = document.getElementById('myForm');
const resultDiv = document.getElementById('result');
form.addEventListener('submit', function(event) {
  event.preventDefault(); // Prevent the default form submit (page reload)
  // Get form values
  const name = form.name.value;
  const email = form.email.value;
  // Display the result
  resultDiv.textContent = `Form submitted! Name: ${name}, Email: ${email}`;

  // You can also reset the form if you want:
  // form.reset();
});
</script>
</body>
</html>
```



Solved Example on Window Event

```
<!DOCTYPE html>
<html>
<body>
<h2>Window Resize Event</h2>
<div id="size"></div>
<script>
  window.addEventListener('resize', () => {
    document.getElementById('size').textContent = `Width: ${window.innerWidth},
    Height: ${window.innerHeight}`;
  });
</script>
</body>
</html>
```

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Solved Example on Clipboard Event

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <title>Clipboard Event Example</title>
</head>
<body>
  <h1>Clipboard Events Demo</h1>
  <textarea id="textArea" rows="5" cols="40" placeholder="Try copy or paste here..."></textarea>
  <div id="log" style="margin-top: 20px; font-weight: bold;"></div>
  <script>
    const textArea = document.getElementById('textArea');
    const log = document.getElementById('log');

    // Copy event
    textArea.addEventListener('copy', (event) => {
      log.textContent = 'Text copied!';
    });

    // Paste event
    textArea.addEventListener('paste', (event) => {
      // Access pasted data (plain text)
      const pasteData =
        (event.clipboardData ||
        window.clipboardData).getData('text');
      log.textContent = `Pasted content: "${pasteData}"`;
    });
  </script>
</body>
</html>

```

Clipboard Events Demo

```

<meta charset="UTF-8" />
<title>Clipboard Event Example</title>
</head>
<body>

```

Pasted content: "<meta charset="UTF-8" /> <title>Clipboard Event Example</title> </head> <body> "

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Solved Example on Drag and Drop Event

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```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <title>Drag and Drop Example</title>
  <style>
    #dragItem {
      width: 100px;
      height: 100px;
      background-color: coral;
      color: white;
      display: flex;
      align-items: center;
      justify-content: center;
      cursor: grab;
      user-select: none;
    }
    #dropZone {
      margin-top: 20px;
      width: 300px;
      height: 150px;
      border: 2px dashed #888;
      display: flex;
      align-items: center;
      justify-content: center;
      color: #888;
      font-weight: bold;
    }
  </style>
</head>
<body>

  <h1>Drag and Drop Demo</h1>

  <div id="dragItem" draggable="true">Drag me</div>

  <div id="dropZone">Drop here</div>

  <script>
    const dragItem = document.getElementById('dragItem');
    const dropZone = document.getElementById('dropZone');
  </script>
  
```

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```
// When dragging starts, set the data being transferred
dragItem.addEventListener('dragstart', (event) => {
  event.dataTransfer.setData('text/plain', 'This is the dragged data');
  // Optional: Change drag cursor image or effect
  event.dataTransfer.effectAllowed = 'move';
});

// Allow drop by preventing default on dragover
dropZone.addEventListener('dragover', (event) => {
  event.preventDefault();
  dropZone.style.backgroundColor = '#def'; // visual feedback
});

// Remove visual feedback when leaving drop zone
dropZone.addEventListener('dragleave', () => {
  dropZone.style.backgroundColor = "";
});

// Handle drop event
dropZone.addEventListener('drop', (event) => {
  event.preventDefault();
  dropZone.style.backgroundColor = "";
  const data = event.dataTransfer.getData('text/plain');
  dropZone.textContent = `Dropped: ${data}`;
});
</script>
</body>
</html>
```

Drag and Drop Demo

