

Objectives

- ♦ In this session, you will learn to:
 - ♦ JavaScript HTML DOM Events



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Reacting to Events

- ♦ A JavaScript can be executed when an event occurs, like when a user clicks on an HTML element.
- To execute code when a user clicks on an element, add JavaScript code to an HTML event attribute:
 - Example: onclick=JavaScript

Examples of HTML events:

- When a user clicks the mouse
- When a web page has loaded
- When an image has been loaded
- When the mouse moves over an element
- When an input field is changed
- When an HTML form is submitted
- When a user strokes a key

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```
<!DOCTYPE html>
<html>
<body>
<h1 onclick="this.innerHTML = 'Ooops!'">Click on this text!</h1>
</body>
</html>
```



We can associate an event with an event handler

```
<!DOCTYPE html>
<html>
<body>
<h1 onclick="changeText(this)">Click on this text!</h1>
<script>
function changeText(id) {
    id.innerHTML = "Ooops!";
</script>
</body>
</html>
```

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Assign Events Using the HTML DOM

The HTML DOM allows you to assign events to HTML elements using JavaScript:

```
<!DOCTYPE html>
<html>
<body>
Click "Try it" to execute the displayDate() function.
<button id="myBtn">Try it
<script>
document.getElementById("myBtn").onclick = displayDate;
function displayDate() {
   document.getElementById("demo").innerHTML = Date();
</script>
</body>
</html>
```

Output:

Click "Try it" to execute the displayDate() function.

Try it

Thu Jan 04 2018 17:00:09 GMT+0700 (SE Asia Standard Time)

List of events

- The onload and onunload events are triggered when the user enters or leaves the page.
- The onchange event is often used in combination with validation of input fields.
- ♦ The onmouseover and onmouseout events can be used to trigger a function when the user mouses over, or out of, an HTML element.
- The onfocus event: is triggered when user put focus into a control.
- ♦ The onblur event: is triggered when user leave from a control.
- The onresize event: is triggered when user resize a web page.
- The onsubmit event: is triggered when user submit form.
- The onmousedown, onmouseup, and onclick events are all parts of a mouseclick.
 - First when a mouse-button is clicked, the onmousedown event is triggered,
 - then, when the mouse-button is released, the onmouseup event is triggered,
 - finally, when the mouse-click is completed, the onclick event is triggered.

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Example of onload event:

```
<!DOCTYPE html>
<html>
<head>
<script>
function mymessage() {
    alert("This message was triggered from the onload event");
</script>
</head>
<body onload="mymessage()">
</body>
</html>
```

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Example of mouse events:

```
<!DOCTYPE html>
<html>
<head>
<script>
function lighton() {
    document.getElementById('myimage').src = "bulbon.gif";
function lightoff() {
    document.getElementById('myimage').src = "bulboff.gif";
</script>
</head>
<body>
<img id="myimage" onmousedown="lighton()" onmouseup="lightoff()"</pre>
src="bulboff.gif" width="100" height="180" />
Click mouse and hold down!
</body>
</html>
```



Click mouse and hold down!

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Example of onfocus events:

```
<!DOCTYPE html>
<html>
<head>
<script>
function myFunction(x) {
    x.style.background = "yellow";
}
</script>
</head>
<body>

Enter your name: <input type="text" onfocus="myFunction(this)">
When the input field gets focus, a function is triggered which changes the background-color.
</body>
</html>
```

Enter your name:

When the input field gets focus, a function is triggered which changes the backgroundcolor.

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Example of onmouseover/onmouseout events:

```
<!DOCTYPE html>
<html>
<body>

<h1 onmouseover="style.color='red'"
onmouseout="style.color='black'">
Mouse over this text</h1>
</body>
</html>
```

Mouse over this text



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Summary

- ♦ In this session, you learned that:
 - List of event in JavaScript
 - The meaning of each event



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