

Event Driven Function



- When the **user manipulates a page**, there will be a **change in the state of the object** known as **Event**.
- JavaScript **interacts** with the HTML. This interaction is **handled by Events**.
- The process of **handling the interaction** of **JavaScript** with the **HTML** is called **Event Handling**.

Syntax

```
<element event='some JavaScript'>
```

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- The Events are **handled** via **Event Handlers**.
- **Event handler** is a **block of code** which will be **executed** when an **event** occurs.
- Event handlers are also known as **Event Listeners**.
- These events help JavaScript in providing a **dynamic interface** to a **webpage**.

Example

```
<button onclick="document.getElementById('demo').innerHTML=Date()">The time is?</button>
```

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Event	Event Handler	Description & Syntax
click	onclick	<p>When mouse click on an element</p> <p>HTML</p> <pre><element onclick="myScript"></pre> <p>JavaScript</p> <pre>object.onclick = function(){myScript};</pre>
mouseover	onmouseover	<p>When the cursor of the mouse comes over the element</p> <p>HTML</p> <pre><element onmouseover="myScript"></pre> <p>JavaScript</p> <pre>object.onmouseover = function(){myScript};</pre>

Event	Event Handler	Description & Syntax
mouseout	onmouseout	<p>When the cursor of the mouse leaves an element</p> <p>HTML</p> <pre><element onmouseout="myScript"></pre> <p>JavaScript</p> <pre>object.onmouseout = function(){myScript};</pre>
mousedown	onmousedown	<p>When the mouse button is pressed over the element</p> <p>HTML</p> <pre><element onmousedown="myScript"></pre> <p>JavaScript</p> <pre>object.onmousedown = function(){myScript};</pre>

Event	Event Handler	Description & Syntax
mouseup	onmouseup	<p>When the mouse button is released over the element</p> <p>HTML</p> <pre><element onmouseup="myScript"></pre> <p>JavaScript</p> <pre>object.onmouseup = function(){myScript};</pre>
mousemove	onmousemove	<p>When the mouse movement takes place</p> <p>HTML</p> <pre><element onmousemove="myScript"></pre> <p>JavaScript</p> <pre>object.onmousemove = function(){myScript};</pre>

Event	Event Handler	Description & Syntax
Keyup	onkeyup	<p>When the user press up key and then releases it</p> <p>HTML <code><element onkeyup="myScript"></code></p> <p>JavaScript <code>object.onkeyup = function(){myScript};</code></p>
Keydown	onkeydown	<p>When the user press down key and then releases it</p> <p>HTML <code><element onkeydown="myScript"></code></p> <p>JavaScript <code>object.onkeydown = function(){myScript};</code></p>

Event	Event Handler	Description & Syntax
load	onload	<p>When the browser finishes the loading of the page</p> <p>HTML <code><element onload="myScript"></code></p> <p>JavaScript <code>object.onload = function(){myScript};</code></p>
unload	onunload	<p>When the visitor leaves the current page, the browser unloads it</p> <p>HTML <code><element onunload="myScript"></code></p> <p>JavaScript <code>object.onunload = function(){myScript};</code></p>

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Event	Event Handler	Description & Syntax
resize	onresize	<p>When the visitor resizes the window of the browser</p> <p>HTML <code><element onresize="myScript"></code></p> <p>JavaScript <code>object.onresize = function(){myScript};</code></p>
focus	onfocus	<p>When the user focuses on an element</p> <p>HTML <code><element onfocus="myScript"></code></p> <p>JavaScript <code>object.onfocus = function(){myScript};</code></p>

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Event	Event Handler	Description
submit	onsubmit	When the user submits the form HTML <code><element onsubmit="myScript"></code> JavaScript <code>object.onsubmit = function(){myScript};</code>
blur	onblur	When the focus is away from a form element HTML <code><element onblur="myScript"></code> JavaScript <code>object.onblur = function(){myScript};</code>
change	onchange	When the user modifies or changes the value of a form element HTML <code><element onchange="myScript"></code> JavaScript <code>object.onchange = function(){myScript};</code>

Onload Event

- The onload event occurs when an object has been loaded.
- The onload event can be used in HTML and in JavaScript.

HTML

```
<element onload="myScript">
```

JavaScript

```
object.onload = function(){myScript};
```

Example

```
window.onload = function () {  
    //script to be executed  
}
```

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Onclick Event

- The on-click event occurs when the user clicks on an element.
- The onclick event can be used in HTML and JavaScript.

HTML

```
<element onclick="myScript">
```

JavaScript

```
object.onclick = function(){myScript};
```

Example

```
buttonStart.onclick = function(){  
  // script to be executed  
}
```