

JavaScript, events

In JavaScript, events are actions or occurrences that happen in the browser that the browser can detect and respond to. Events can be triggered by user interactions, such as clicking a button, moving a mouse, or pressing a key, as well as by other actions. JavaScript provides a create dynamic and interactive web applications.

Event	Trigger
click	When an element is clicked
dblclick	When an element is double-clicked
mousemove	When the mouse pointer is moved over an element
mouseover	When the mouse pointer is moved onto an element
mouseout	When the mouse pointer is moved out of an element
mouseenter	When the mouse pointer enters an element
mouseleave	When the mouse pointer leaves an element

In JavaScript, event handlers

Type	Description
Inline Event Handlers	Event handlers defined directly within HTML tags using event attributes.
DOM Level 0 Handlers	Event handlers assigned directly to the event properties of DOM elements.
<code>addEventListener</code>	Modern approach to event handling allowing attaching event listeners to DOM elements.

Inline Event Handlers

```
<button onclick="alert('form submit')">submit</button>

<button id="click" onclick="display()">click me</button>

<button id="blue" onclick="blue()"> click to blue</button>

</body>
</html>

<script>
  function display()
  {
    alert('hello');
  }

  function blue()
  {
    // document.getElementById("blue").style.backgroundColor="blue";

    let element=document.getElementById("blue");
    element.style.backgroundColor="blue";
    element.style.color="white";
  }
}
```

```

29 </style>
30
31 <body id="body">
32
33     <button class="btn btn-1" id="pink" onclick="pink()"></button>
34     <button class="btn btn-2" id="grey()" onclick="grey()"></button>
35     <button class="btn btn-3" id="blue()" onclick="blue()"></button>
36
37
38     <!-- <button class="btn btn-4" ondblclick="red()"></button> -->
39     <!-- <button class="btn btn-1" id="pink" ondblclick="pink()"></button> -->
40     <!-- <button class="btn btn-1" id="pink" onmouseenter="pink()"></button> -->
41     <!-- <button class="btn btn-1" id="pink" onmousedown="pink()"></button> -->
42
43     <button class="btn btn-1" id="pink" onmouseover="pink()"></button>
44
45
46 </body>
47 </html>
48

```

```

let element=document.getElementById("body");

function pink()
{
    element.style.backgroundColor="#ffc0cb";
}

function grey()
{
    element.style.backgroundColor="#c4cbd1";
}

```

DOM Level 0 Handlers

```
<body id="body">  
  <button class="btn btn-1" id="one"></button>  
  <button class="btn btn-2" id="two"></button>  
  <button class="btn btn-3" id="three"></button>  
</body>
```

```
<script>
```

```
    let element=document.getElementById("body");  
document.getElementById("one").onclick=pink;  
document.getElementById("two").ondblclick=grey;  
document.getElementById("three").onmouseenter=blue;  
document.getElementById("three").onmouseout=white;
```

```
function pink()  
{  
    element.style.backgroundColor="#ffc0cb";  
}
```

```
function grey()  
{  
    element.style.backgroundColor="#c4cbd1";  
}
```

```
function blue()  
{  
    element.style.backgroundColor="#00008b";  
}
```

```
function white()  
{  
    element.style.backgroundColor="#ffffff";  
}
```

```
</script>
```

addEventListener

```
let element=document.getElementById("body");

document.getElementById("one").addEventListener('click',pink);
document.getElementById("two").addEventListener('click',grey);
document.getElementById("three").addEventListener('click',blue);

function pink()
{
  element.style.backgroundColor="#ffc0cb";
}

function grey()
{
  element.style.backgroundColor="#c4cbd1";
}

function blue()
{
  element.style.backgroundColor="#00008b";
}

function white()
{
  element.style.backgroundColor="ffffff";
}

</script>
```


Addition of two number using textbox

```
<body>

  <input type="text" name="" id="one">
  <input type="text" name="" id="two">
  <button id="btn">Submit</button>
  <h1 id="result"></h1>

</body>
</html>

<script>

let click=document.getElementById('btn');
click.onclick=display;

function display()
{
let a=Number(document.getElementById('one').value);
let b=Number(document.getElementById('two').value);
let sum=a+b;
document.getElementById('result').innerHTML=sum;

}
```

5	5	Submit
---	---	--------

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