

8.0 JS Events and The script Tag



mask in wall - answered by Dante Magbuhos Jr.

- **HTML DOM** events allow JavaScript to register different event handlers on elements in an HTML document.
- Events are normally used in combination with functions, and the function will not be executed before the event occurs (such as when a user clicks a button).
- **HTML events** are "things" that happen to HTML elements.
- When JavaScript is used in HTML pages, JavaScript can **"react"** on these events.

HTML events

- An **HTML event** can be something the browser does, or something a user does.
- Some examples of HTML events include:
 - An HTML web page has finished loading
 - An HTML input field was changed
 - An HTML button was clicked
- Often, when events happen, you may want the website do something. JavaScript lets you execute code when events are detected.
- HTML allows event handler attributes, with JavaScript code, to be added to HTML elements.

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

- In the following example, an `onclick` attribute (with code), is added to a `<button>` element:

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

- The JavaScript code changes the content of the element with `id="demo"`.
- In the next example, the code changes the content of its own element (using `this.innerHTML`):

```
<button onclick="this.innerHTML = Date()">The time is?</button>
```

```
<button onclick="displayDate()">The time is?</button>
```

JavaScript event handlers

- Event handlers can be used to handle and verify user input, user actions, and browser actions:
 - Things that should be done every time a page loads
 - Things that should be done when the page is closed
 - Action that should be performed when a user clicks a button
 - Content that should be verified when a user inputs data, and more.
- Many different methods can be used to let JavaScript work with events:
 - HTML event attributes can execute JavaScript code directly
 - HTML event attributes can call JavaScript functions
 - You can assign your own event handler functions to HTML elements
 - You can prevent events from being sent or being handled, and more.

The script tag

- The `<script>` tag is used to embed a client-side script (JavaScript).
- The `<script>` element either contains scripting statements, or it points to an external script file through the `src` attribute.
 - Common uses for JavaScript are image manipulation, form validation, and dynamic changes of content.

```
<script>  
alert("Hello JavaScript!");  
</script>
```

Additional Material

- **References**
 - [W3Schools](#)