

Somi: What are JS/browser events? What causes an event?

- Signal fired by browser when something happens
- Triggered by browser vs user vs API/system
  - Browser
    - Start video
    - Resize
  - User
    - Keypress
    - Form submission
    - Click
  - System change
    - Change in network connectivity

```
button.addEventListener('click', function(){  
    alert('you clicked the button!!')  
    button.innerHTML = 'The button has been clicked!'  
})
```

*user-triggered*

Manuel: What can you do when an event happens? What do you need to do to be able to respond to an event?

- Event Handling.
  - Listening to the event.
  - Run something (functions, code, etc.)

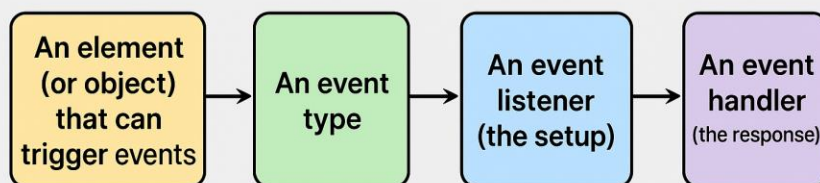
```
javascript
```

```
// Select an element
const button = document.querySelector("#myButton");

// Attach an event listener
button.addEventListener("click", () => {
  console.log("Button was clicked!");
});
```

- How to respond to an event?

**To respond to an event you need:**



Daniela:

- Explain the syntax for event handlers.
- Basic syntax using HTML attributes (used directly in the elements)  
“onclick” is the event attribute. “handleClick()” is the function called when the event occurs

```
<button onclick="handleClick()">Click Me</button>
```

- JavaScript DOM Syntax (assigns a function to an element’s event)  
“onclick” is a property of the DOM element. The function is the event handler.

```
const button = document.getElementById("myButton");  
button.onclick = function () {  
  alert("Button clicked!");  
};
```

- Using *addEventListener* (allows multiple handlers)  
“click” is the event type. The second argument is the callback function.

```
function showGreeting() {  
  alert("Welcome aboard!");  
}  
  
btn.addEventListener("click", showGreeting);
```

- To remove event listener

```
btn.removeEventListener("click", showGreeting);
```

- When does event handler code run?  
Event handlers run when the specified event occurs. It does not execute immediately when the page loads or when it is defined.

