

Web Components

Handle Event



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Lifecycle callbacks (custom element reactions)



- **constructor**

Called by the browser when an element is created or upgraded

- **attributeChangedCallback**

Called by the browser when the value of an observed attribute change (add/remove/change) and when an element is created or upgraded

- **connectedCallback**

Called by the browser when the element is added to the DOM (or a new DOM)

- **disconnectedCallback**

Called by the browser when the element is removed from the DOM

- **adaptedCallback**

Called by the browser when the element is moved to another document.

connectedCallback

Suitable for setting up event handlers for our component.



```
connectedCallback () {  
  this.addEventListener('mousedown', (event) => this.#onWrite())  
  this.addEventListener('mouseup', (event) => this.stopWriting())  
  this.addEventListener('mouseleave', (event) => this.stopWriting())  
}
```

connectedCallback, an event pattern



Try to handle all "event"-specific details in the arrow function and prepare the data to be sent further in the application.

```
connectedCallback () {  
  
  this.addEventListener('click', (event) => {  
    event.stopPropagation()           // Handle the event  
    event.preventDefault()  
  
    this.calculateResult(event.detail) // Call the "handler" function  
  })  
}
```

disconnectedCallback

Suitable for removing event handlers for our compoment. *(Should not be needed)*



```
disconnectedCallback () {  
    // Do some clean up  
}
```

Synthetic Events (Custom Events)

src/components/my-component/

```
const signupEvent = new window.CustomEvent('signup', { detail: myInput.value })
```

```
this.dispatchEvent(signupEvent) // This will "trigger"/dispatch the event. (in this case  
this needs to refer to our Custom Element)
```

//

```
const element = document.querySelector('#theCustomElement')
```

```
element.addEventListener('signup', (event) => {  
  server.sendConfirmation(event.detail)  
})
```

src/index.js

