
<Semester IV>

<Front-End Development for Designers>

Week 10

Event Listener

The `addEventListener()` method is used to attach an event handler to a HTML document. Unlike the traditional way of assigning events directly (e.g., `element.onclick = function() {}`), `addEventListener()` allows multiple handlers for the same event. It provides flexibility because one can easily remove event listeners or add them dynamically based on conditions. Unlike the traditional way of assigning events directly (e.g., `element.onclick = function() {}`), `addEventListener()` allows multiple handlers for the same event.

Syntax: `element.addEventListener(event, listener, useCapture);`

- ❑ event: event can be any valid JavaScript event. Events are used without “on” prefixes like using “click” instead of “onclick” or “mousedown” instead of “onmousedown”.

Event Listener

Syntax: `element.addEventListener(event, listener, useCapture);`

- ❑ **listener(handler function):** It can be a JavaScript function that responds to the event occurring. It can be a regular function (known as callback function, or arrow function, or anonymous function).
- ❑ **useCapture:** It is an optional parameter used to control event propagation. A boolean value is passed where “*true*” denotes the capturing phase and “*false*” denotes the bubbling phase.

event can be a parameter passed to the listener (also known as handler function). Event is an object provided by the browser automatically. It has a lot of information about the interaction that has taken place.

event object



Syntax of Event Listener

element , In which event attached

It tells event phase

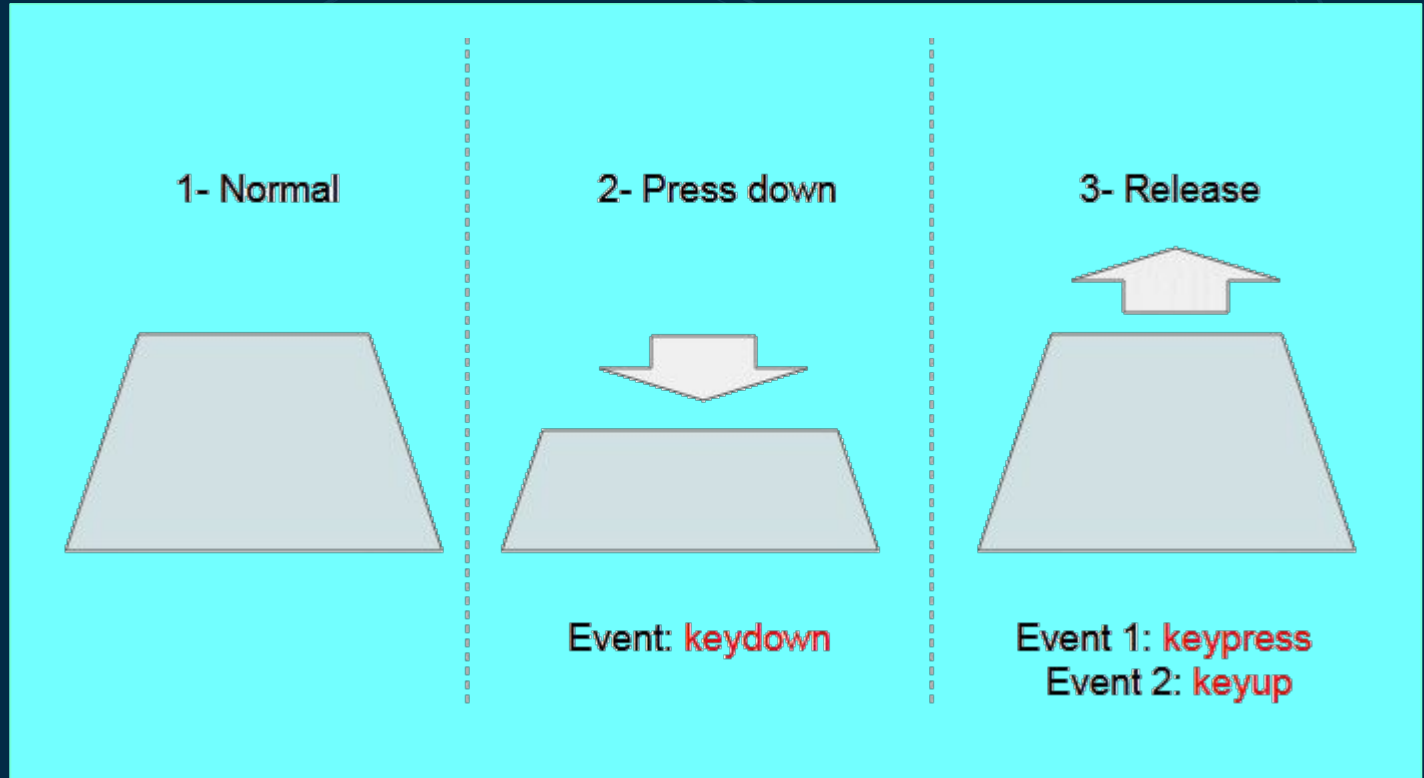
```
<element>.addEventListener(<eventName>, callback, {capture:boolean})
```

It can be 'click', 'key up', 'key down' etc. events.

This function fires after the event happened.

Key-based Events in JavaScript

Note: The keypress event will not be emitted for the keys such as ALT, SHIFT, CTRL, META-KEY, ESC. If you want to detect whether those keys are being pressed, you can use the properties such as altKey, shiftKey, ctrlKey, metaKey of the event object.



Key-Based Events





Homework: Finish the HTML + CSS portion of
your LCA2 project.

[W3Schools JavaScript Tutorial](#)
[JavaScript for Web | MDN](#)

Reference



1. [HTML DOM Element classList Property and Methods \(add, remove, toggle\) - W3Schools](#)
 2. [JavaScript addEventListener\(\) | GeeksforGeeks](#)
 3. [Exploring Lesser-Known JavaScript Events for Enhanced Interactivity | Smooets](#)
 4. [“e” \(event object\) | by Wendy You | Medium](#)
 5. [Javascript KeyboardEvent Tutorial with Examples | o7planning.org](#)
 6. [Keyboard Events and Properties - W3Schools](#)
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Fonts & colors used

This presentation has been made using the following fonts:

Blinker

(<https://fonts.google.com/specimen/Blinker>)

Inconsolata

(<https://fonts.google.com/specimen/Inconsolata>)

#ffffff

#022a46

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