

addEventListener

`addEventListener` is a JavaScript function

element.addEventListener:

element.addEventListener(event, function, useCapture);

- event: (click, mouseover, keydown).

- function: function to be executed when the event occurs.

- useCapture: (true or false) (true means the event is captured before it reaches the element)

Example:

```
document.getElementById("myButton").addEventListener("click", function() {  
    alert("Button clicked!");  
});
```

Propagation Event Immediate Propagation

JavaScript DOM

1. Capturing Phase: (document) to the target element

2. Bubbling Phase: from the target element to the document

Event Propagation (Capturing Phase):

- event.stopPropagation();

Example:

```
document.getElementById("child").addEventListener("click", function(event) {  
    alert("Child clicked!");  
    event.stopPropagation();  
});
```

Immediate Propagation (Immediate Propagation):

- event.stopImmediatePropagation();

Example:

```
document.getElementById("myButton").addEventListener("click", function(event) {  
    alert("Button clicked!");  
    event.stopImmediatePropagation();  
});
```

```
document.getElementById("myButton").addEventListener("click", function() {  
    alert("Button clicked!");  
});
```

stopPropagation stopImmediatePropagation:

- `stopPropagation()`:

- `stopImmediatePropagation()`: