Event Listeners and More Events | Cheat Sheet

1. Event Listeners

JavaScript offers three ways to add an Event Listener to a DOM element.

- Inline event listeners
- onevent listeners
- addEventListener()

1.1 Inline event listeners

1.2 onevent listeners

```
1 <button id="greetBtn">Greet</button>

JAVASCRIPT
```

```
1  Let greetBtnEl = document.getElementById("greetBtn");
2
3  greetBtnEl.onclick = function() {
4   console.log("Hi Rahul");
5  };
```

1.3 addEventListener()

It is a modern approach to add an event listener.

Syntax:

element.addEventListener(event, function);

```
element - HTML element
event - event name
function - Callback function
```

HTML

HTML

HTML

JAVASCRIPT

2. Operators

2.1 Comparison Operators

Operator	Usage	Description
Equal (==)	a == b	returns true if both $oldsymbol{a}$ and $oldsymbol{b}$ values are equal.
Not equal (!=)	a != b	returns true if both $oldsymbol{a}$ and $oldsymbol{b}$ values are not equal.
Strict equal (===)	a === b	returns true if both $oldsymbol{a}$ and $oldsymbol{b}$ values are equal and of the same type.
Strict not equal (!==)	a !== b	returns true if either $oldsymbol{a}$ and $oldsymbol{b}$ values are not equal or of the different type.
Greater than (>)	a > b	returns true if $m{a}$ value is greater than $m{b}$ value.
Greater than or equal (>=)	a >= b	returns true if $m{a}$ value is greater than or equal to $m{b}$ value.
Less than (<)	a < b	returns true if $m{a}$ value is less than $m{b}$ value.
Less than or equal (<=)	a <= b	returns true if $m{a}$ value is less than or equal to $m{b}$ value.

2.2 Logical Operators

Description	Usage	Operator
returns true if both $m{a}$ and $m{b}$ values are true	a && b	AND (&&)
returns true if either $m{a}$ or $m{b}$ value is true.	a b	OR ()
returns true if a value is not true.	!a	NOT (!)

3. More Events

Events are the actions by which the user or browser interact with HTML elements.

There are different types of events.

- Keyboard Events
- Mouse Events
- Touch Events, and many more.

3.1 Keyboard Events

Keyboard Event is the user interaction with the keyboard.

The keyboard events are

- keydown
- keyup

3.1.1 Keydown event

The

keydown event occurs when a key on the keyboard is pressed.

Syntax:

element.addEventListener("keydown", function);

JAVASCRIPT

```
1     let inputEl = document.createElement("input");
2
3     function printKeydown() {
4         console.log("key pressed");
5     }
6
7     inputEl.addEventListener("keydown", printKeydown);
8     document.body.appendChild(inputEl);
```

3.1.2 Keyup event

The

keyup event occurs when a key on the keyboard is released.

Syntax:

element.addEventListener("keyup", function);

3.2 Event Object

Whenever an event happens, the browser creates an event object.

It consists of information about the event that has happened.

It consists of many properties and methods.

- type
- target
- key
- timeStamp
- stopPropagation, and many more.

3.2.1 Properties & Methods

For any event, event-specific properties and methods will be present.

For Example,

The

keydown event has key property, whereas the onclick event doesn't have it.

event.type

The

event.type property contains the type of event occurred like click , keydown , etc.

JAVASCRIPT

```
1     let inputEl = document.createElement("input");
2
3     function printKeydown(event) {
4        console.log(event.type); // keydown
5     }
6
7     inputEl.addEventListener("keydown", printKeydown);
8     document.body.appendChild(inputEl);
```

event.target

The

event.target property contains the HTML element that triggered the event.

JAVASCRIPT

```
1  Let inputElement = document.createElement("input");
2
3  function printKeydown(event) {
4   console.log(event.target); // <input></input>
5  }
6
7  inputElement.addEventListener("keydown", printKeydown);
8  document.body.appendChild(inputElement);
```

event.key

The

event.key property contains the value of the key pressed by the user.

```
JAVASCRIPT
    1
       Let inputElement = document.createElement("input");
       function printKeydown(event) {
    3
         console.log(event.key);
    5
    6
       inputElement.addEventListener("keydown", printKeydown);
    7
       document.body.appendChild(inputElement);
Keyboard key
                event.key value
   Enter
                    Enter
    а
                     а
    Α
                     Α
```

Try out the keyboard events and the event object in the below Code Playground.

```
HTML
              JAVASCRIPT
                                               Inspect
1
 2
   <!DOCTYPE html>
   <html>
 3
4
     <head>
        <link rel="stylesheet" href="https://stackpa</pre>
 5
        <script src="https://code.jquery.com/jquery-</pre>
 6
 7
        <script src="https://cdn.jsdelivr.net/npm/pc</pre>
        <script src="https://stackpath.bootstrapcdn.</pre>
8
      </head>
9
      <body>
10
        <div class="timer-container">
11
          <input type="text" class="user-input" id='</pre>
12
13
          <img src="https://d1tgh8fmlzexmh.cloudfror")</pre>
14
          10
15
        </div>
16
17
```

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