



Node.js events Module

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The event Module

Outline

What is an Event?

EventEmitter Class

Common Methods and Properties



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- Every **action** on a computer is an **event**.
- The **events** module provides us the **EventEmitter** class, which is key to working with events in Node.js.
- Steps to deal with events are:
 - Create an EventEmitter instance
 - Register event listeners/handlers
 - Trigger events

```
const events = require('events');

ee = new events.EventEmitter();
```

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- Common methods of the event emitter instance

Method	Description
ee.addListener()	Alias to ee.on()
ee.emit()	Emits an event. i.e. Triggers the event
ee.eventNames()	Returns the events registered list
ee.listenerCount()	Get a count of listener
ee.listeners()	Array of listeners of the event
ee.off()	Alias to ee.removeListener()
ee.on()	Adds a CBF to an event
ee.prependListener()	
ee.removeListener()	Remove a specific listener
ee.removeAllListeners	Removes all listeners
ee.setMaxListeners()	Max. listeners for an event
ee.getMaxListeners()	Get count of max. listeners

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Example Code



```
JS events_ex2.js x
JS events_ex2.js > ...
1  /*
2     Author : Mohamed Mukthar Ahmed
3     Date   :
4     Purpose: Understanding Events, EventEmitter
5
6  */
7  const events = require('events');
8  ee = new events.EventEmitter();
9
10 // Creating event handlers
11 const openFile = () => {
12   console.log("Open a file.");
13 }
14 const processFile = () => console.log("Processed the opened file.");
15 const closeFile = () => console.log("Close the file.");
16
17 // Register the event handlers to the events
18 ee.on('open', openFile);
19 ee.on('process', processFile);
20 ee.on('close', closeFile);
21
22 console.log("Steps for processing a file are:");
23 // Trigger the events
24 ee.emit('open');
25 ee.emit('process');
26 ee.emit('close');
```

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