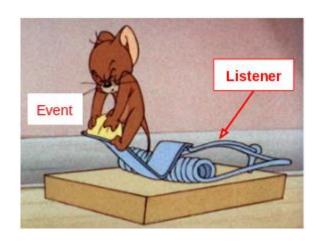




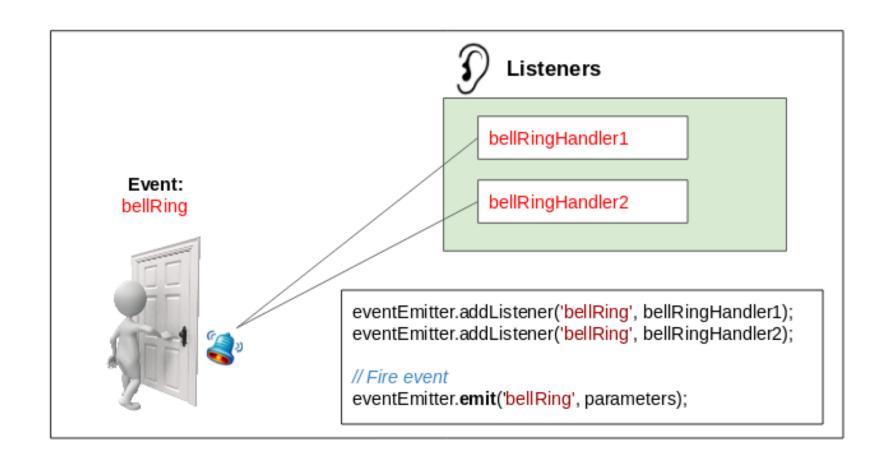
#Node JS Notes

Event Emitters

- EventEmitter is a class that helps us create a publisher-subscriber pattern in NodeJS.
- With an event emitter, we can simply raise a new event from a different part of an application, and a listener will listen to the raised event and have some action performed for the event.



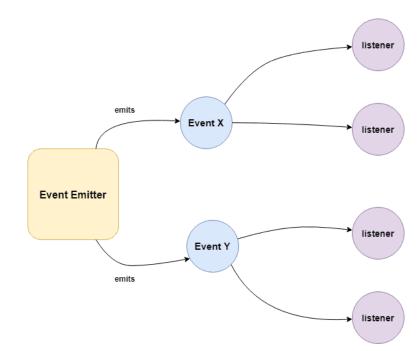






How does it work?

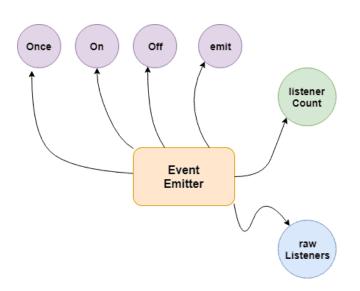
- Event Emitter emits the data in an event called message
- A Listened is registered on the event message
- when the **message** event emits some data, the listener will get the data.





Building Blocks

- .emit() this method in event emitter is to emit (trigger) an event in module
- .on() this method is to listen to data on a registered event in node.js (add a callback function that's going to be executed when the event is triggered)
- .once() it listen to data on a registered event only once.
- .addListener() it checks if the listener is registered for an event.
- .removeListener() it removes the listener for an event.





Methods

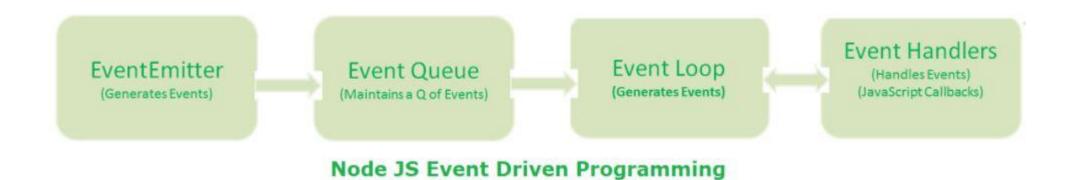
- addListener(event, listener)
- on(event, listener)
- once(event, listener)
- removeListener(event, listener)
- removeAllListeners([event])
- setMaxListeners(n)
- listeners(event)
- emit(event, [arg1], [arg2], [...])



No	Method	Description
1	addListener(event, listener)	Add a listener the end of the listeners array for the specified event. This method doesn't check whether this listener has ever been added or not.
2	on(event, listener)	Exactly, this method is 100% identical to the addListener method.
3	once(event, listener)	Add a listener to the listeners array of the specified event. But this listener is only called one time when an event happens. After that it is removed from the array.
14	removeListener(event, listener)	Remove a listener from the listeners array of the specified event. If a listener has been added to this array many times. To remove this listener fully, you need to call this method many times.
5	remove All Listeners ([event])	Remove all listeners, or remove all listeners of an event designated.
6	setMaxListeners(n)	By default, EventEmitters will print a warning if more than 10 listeners are added for a particular event. This is a useful default which helps finding memory leaks. Obviously not all Emitters should be limited to 10. You can set a different number, or set to zero for unlimited.
7	listeners(event)	Return a listeners array to the specified event.
8	emit(event, [arg1], [arg2], [])	Executes each listener in the array in turn, with parameters. Return true if the array has at least one listener. On the contrary, return false.



EventEmitter Responsibility





Syntax

```
// get the reference of EventEmitter class of events module
var events = require('events');
//create an object of EventEmitter class by using above reference
var em = new events.EventEmitter();
//Subscribe for FirstEvent
em.on('FirstEvent', function (data) {
  console.log('First subscriber Message is : ' + data);
});
// Raising FirstEvent
em.emit('FirstEvent', 'This is my first Node.js event emitter example.');
```



```
JS demo.js X
JS demo.js > ...
       // get the reference of EventEmitter class of events module
       var events = require('events');
       //create an object of EventEmitter class by using above reference
       var em = new events.EventEmitter();
       //Subscribe for FirstEvent
       em.on('FirstEvent', function (data) {
           console.log('First subscriber Message is : ' + data);
 10
       });
 11
 12
       // Raising FirstEvent
 13
       em.emit('FirstEvent', 'This is my first Node.js event emitter example.');
 PROBLEMS
           OUTPUT
                   TERMINAL
                             DEBUG CONSOLE
Microsoft Windows [Version 10.0.22000.194]
 (c) Microsoft Corporation. All rights reserved.
D:\lecture\nodejsbatch>node demo.js
First subscriber Message is: This is my first Node.js event emitter example.
D:\lecture\nodejsbatch>
```



Description

- first import the 'events' module and then create an object of EventEmitter class. We then specify event handler function using on() function.
- The on() method requires name of the event to handle and callback function which is called when an event is raised.
- The emit() function raises the specified event. First parameter is name of the event as a string and then arguments.
- An event can be emitted with zero or more arguments. You can specify any name for a custom event in the emit() function.



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