



# Event Loops

in Javascript



## \*QUICK READ\*

Before understanding event loops you should know what is **Call Stack** and **Event Queue**:

Call Stack: Where our **main program runs** synchronously.

Event Queue: Where the callbacks of asynchronous code **run once the stack is clear**.



The event loop got its name because of how it's usually implemented, which usually resembles:

```
while (queue.waitForMessage( ))  
{  
    queue.processNextMessage();  
}
```

queue.waitForMessage()  
waits synchronously for a  
message to arrive.

Also, each message is **processed completely** before any other message is processed.



## The Event Loop has one task:

It is to **monitor** the Call Stack and the Callback Queue.

If the Call Stack is **empty**, the Event Loop will take the **first event from the queue** and will push it to the Call Stack, which effectively runs it.

Such an iteration is called a **tick** in the Event Loop. Each event is just a **function callback**.



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