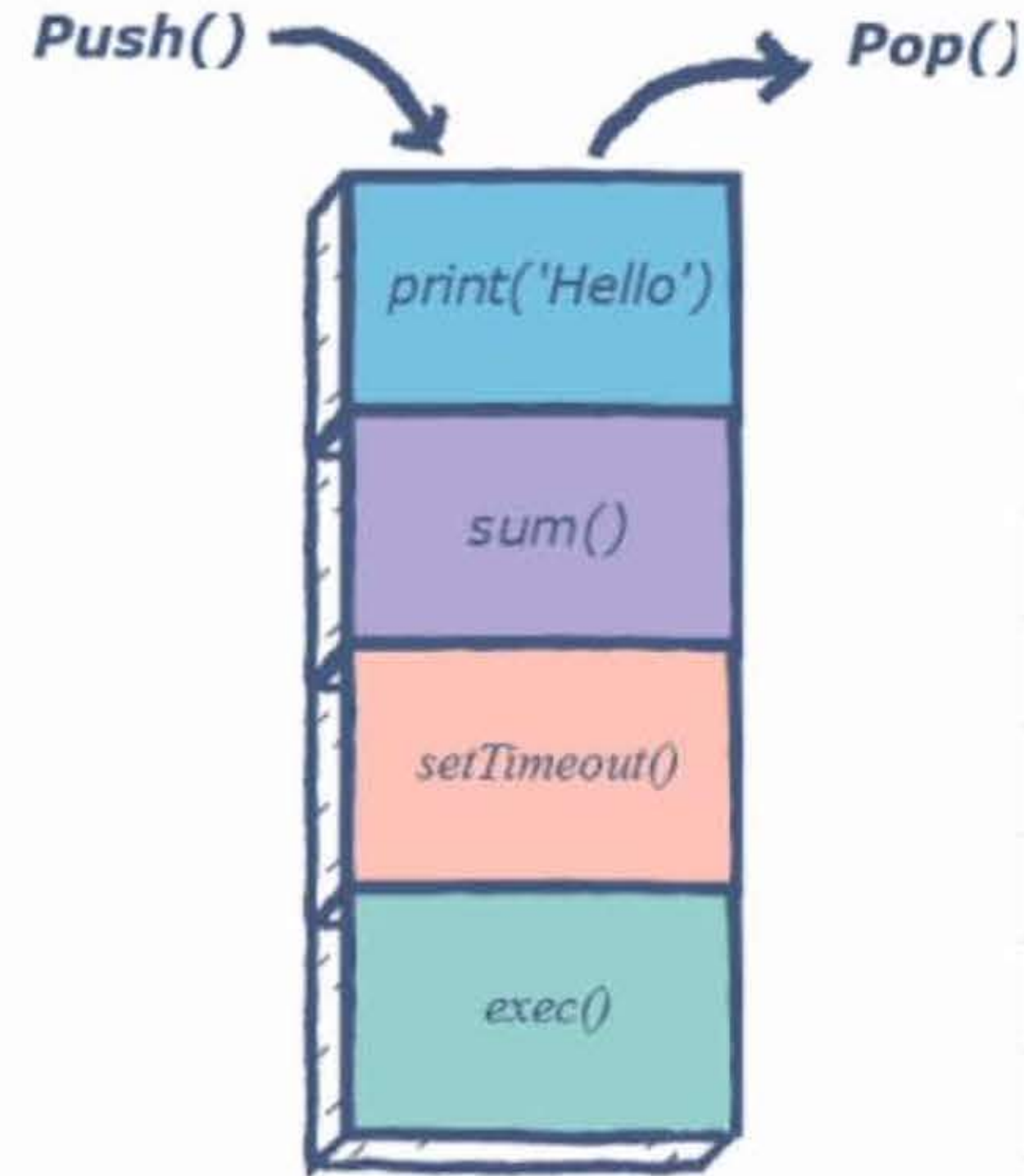


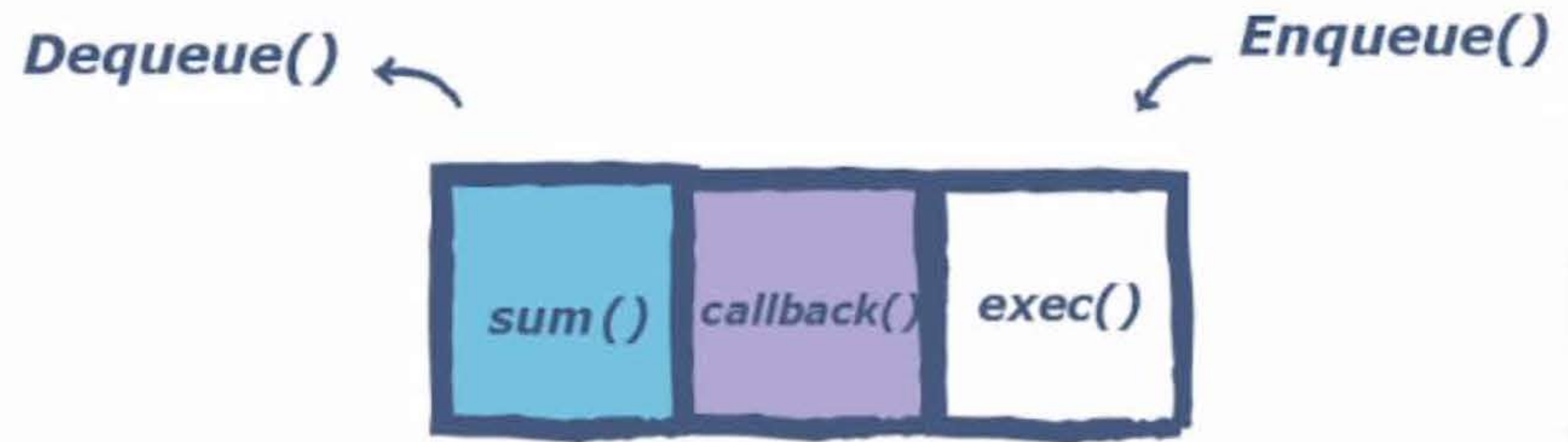
# Call Stack

- Keeps track of all the operations in line to be executed.
- Whenever a function is finished, it is popped from the stack.

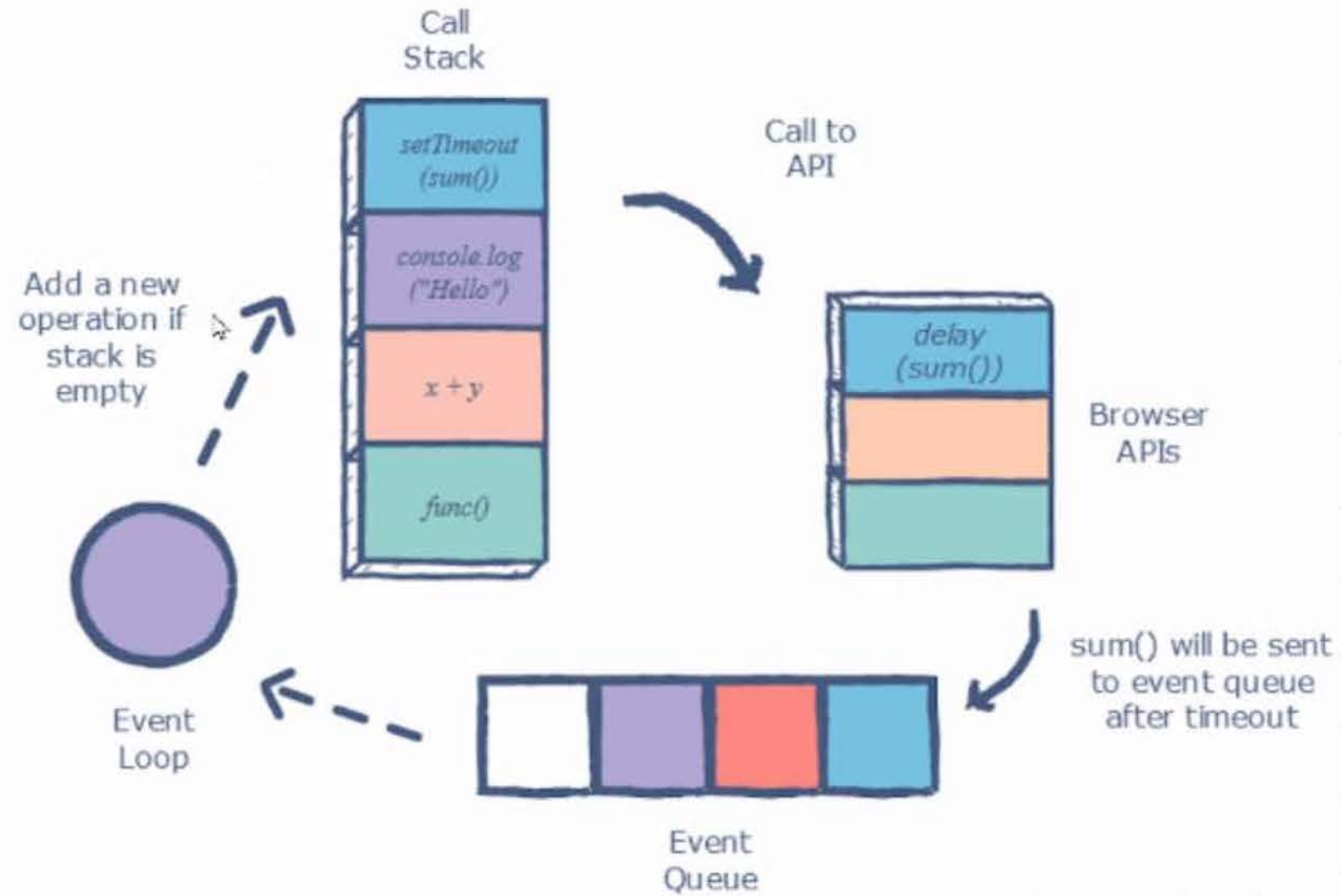


# Event Queue

- Sends new functions to the stack for processing.
- Follows the queue data structure.
- Maintains the correct sequence in which all operations should be sent for execution.

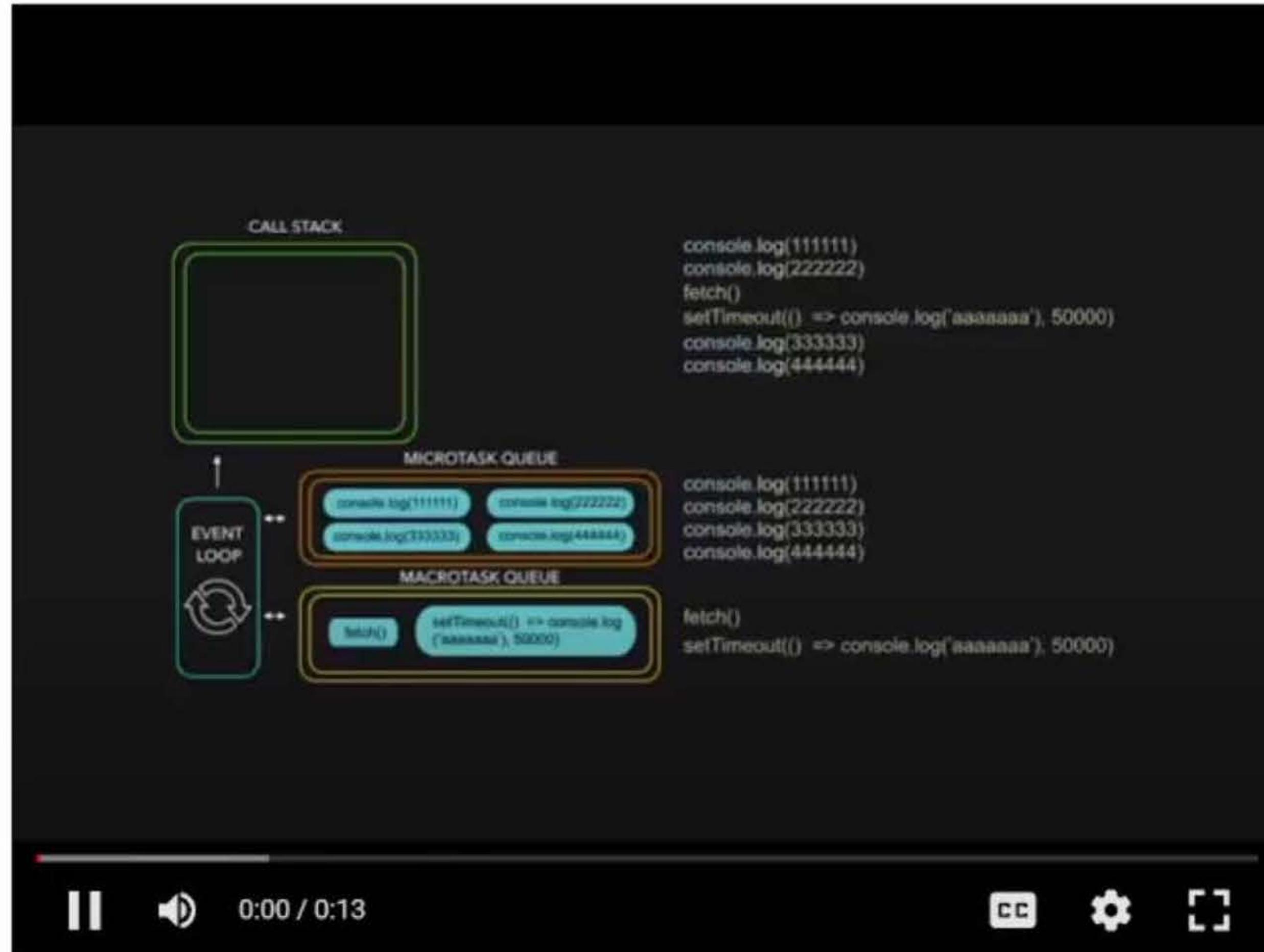


# Event Loop Execution





# Event Loop Execution



0:00 / 0:13



Intermediate

Advanced

Inheritance and the prototype chain

JavaScript typed arrays

Memory Management

Concurrency model and Event Loop

References

Built-in objects

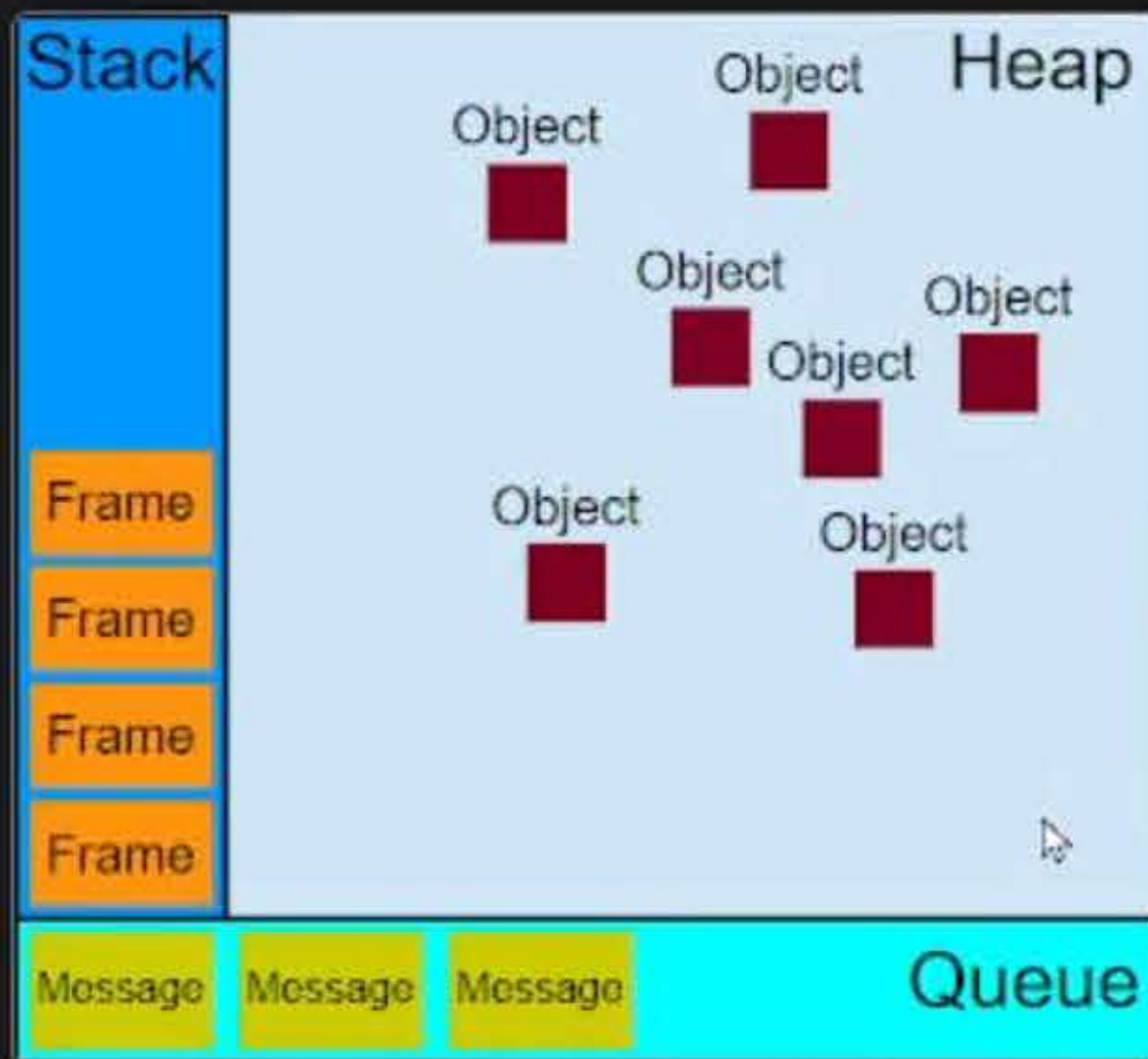
Expressions & operators

Statements & declarations

Functions

Classes

## Visual representation



## In this article

### Runtime concepts

Event loop

Never blocking

See also

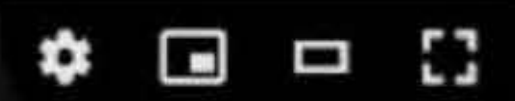
## Stack

Function calls form a stack of *frames*.

```
function foo(b) {
  const a = 10;
  return a + b + 11;
}
```



0:00 / 26:52



What the heck is the event loop anyway? | Philip Roberts | JSConf EU



Subscribe

79K | | Share | Download | Clip | Save | ...

2.8M views 8 years ago  
JavaScript programmers like to use words like, "event-loop", "non-blocking", "callback", "asynchronous", "single-threaded" and "concurrency".  
We say things like "don't block the event loop", "make sure your code runs at 60 frames-per-second", "well of course, it won't work, that function is an asynchronous callback!" Show more

1,605 Comments Sort by

Add a comment...

