



Hey!

I am Mohamad Shiralizadeh

I'm just a **Web Developer**.

I'm here because I do love **Javascript**!



Asynchronous Javascript



Sync vs Async

Synchronous operations block instructions until the task is completed, while asynchronous operations can execute without blocking other operations.



Is JS Multi Thread?

NO, it's Single Thread but it uses a design pattern to have asynchronous programming.



Because multi-threading is hard, and JS was
made for noobs.



JavaScript in the browser is meant to be run in a sandbox and in a machine/OS-independent way, to add multithreading support would complicate the language and tie the language too closely to the OS.



Javascript is a single-threaded language. This means it has one call stack and one memory heap. As expected, it executes code in order and must finish executing a piece code before moving onto the next. It's synchronous.



Because JavaScript is a scripting language designed to address the concerns of one user on one UI; the window in the browser. Multi threading is simply not required here.



Historically, JavaScript was merely a web browser scripting language where concurrency was not important. Now that it has evolved into something much bigger, it is no longer feasible to change the language in such a fundamental



Callback vs Promise vs Async

Asynchronous ways in javascript



Ways?

JavaScript provides three methods of handling asynchronous code.

- Callbacks
- Promises (ES6)
- `async/await` (ES7)



Let's Play {}

See every thing in action



Thanks!

Any questions?

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