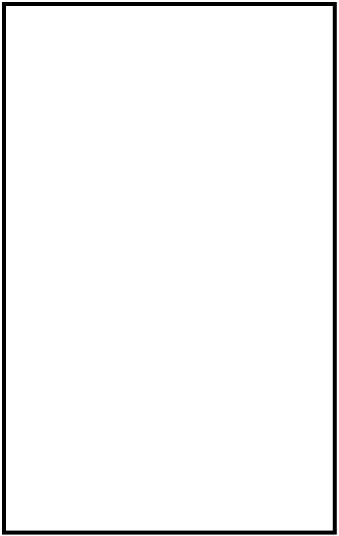


The Javascript Event Loop











Synchronous API

Asynchronous API

setTimeout(f,t)

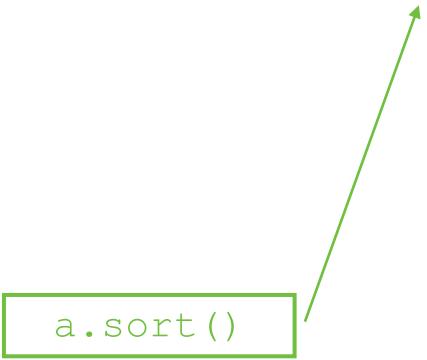
Array.sort(f)





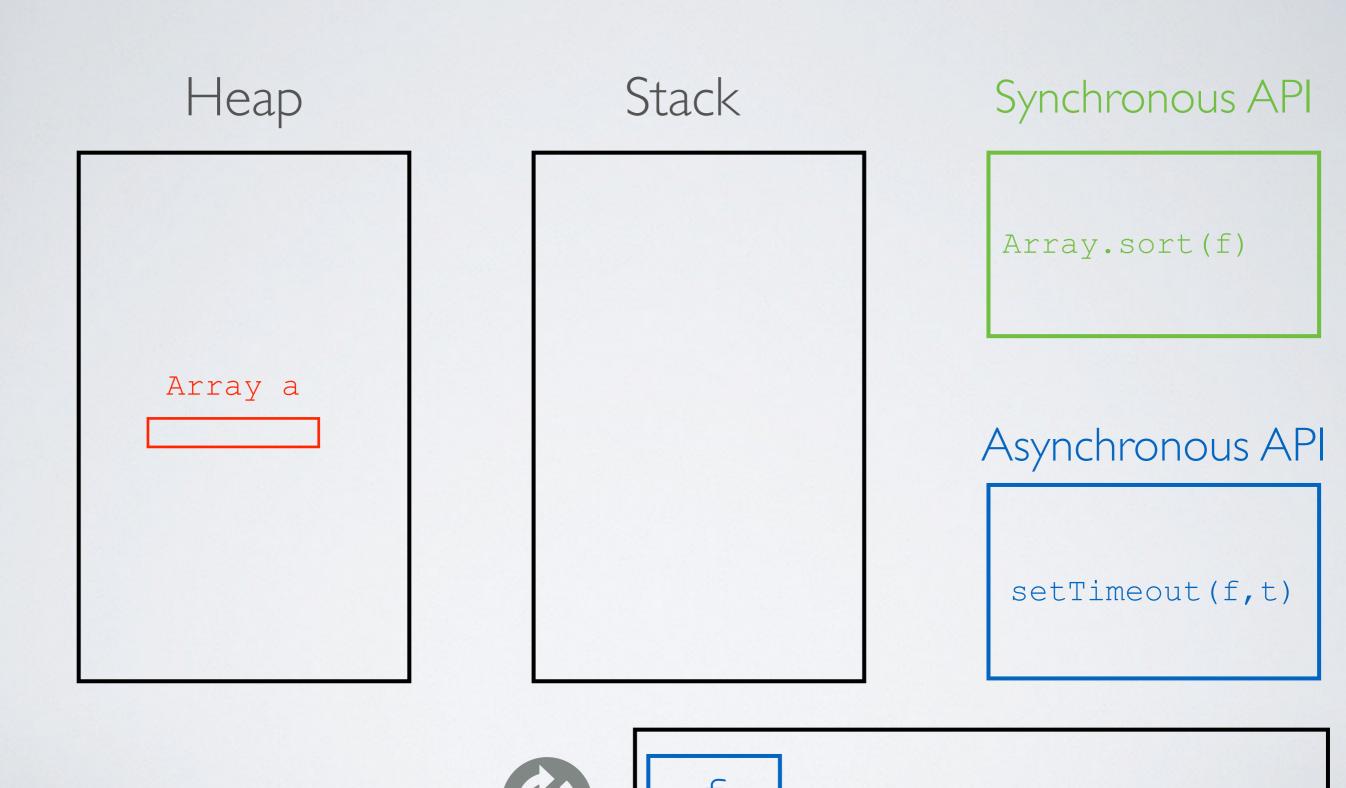


a=newArrav





The Javascript Event Loop



Multi-threaded vs Single-threaded

Multi-threading does necessarily means things are executed in parallel

→ We only have one CPU!

So, why do we need multithreading?

→ Because programming languages have blocking I/O, and by default, programs wait for the I/O to be completed

But multithreading is expensive

- in terms of software design (synchronization)
- in terms of performances (context switch)

What is the alternative to multi-threading?

→ Single-threaded with non-blocking I/O