

→ Javascript

↳ Synchronous

↳ Single threaded

Default

→ Execution Context

↳ execute one line of code at a time

→ console log → 1

→ console log → 2

Each operation waits for the last one to complete before executing

CALL Stack

Memory Heap



Blocking Code VS Non Blocking code



Block the flow of Program



Read File Sync

↳ Does not block execution



Read File Async

## JS Engine

Memory  
Heap

CALL STACK

$f_n$   
 $f_n$   
 $f_n$   
Global

call

## Web API

DOM API

Set timeout - - - - -

Set interval

fetch()

Register  
CALL BACK

Promise

CB CB

High Priority

Add to CALL  
Stack

CB CB

task Queue

Event Loop

