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JS

Welcome to Javascript



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JS

The Basics of Javascript



What is
Javascript



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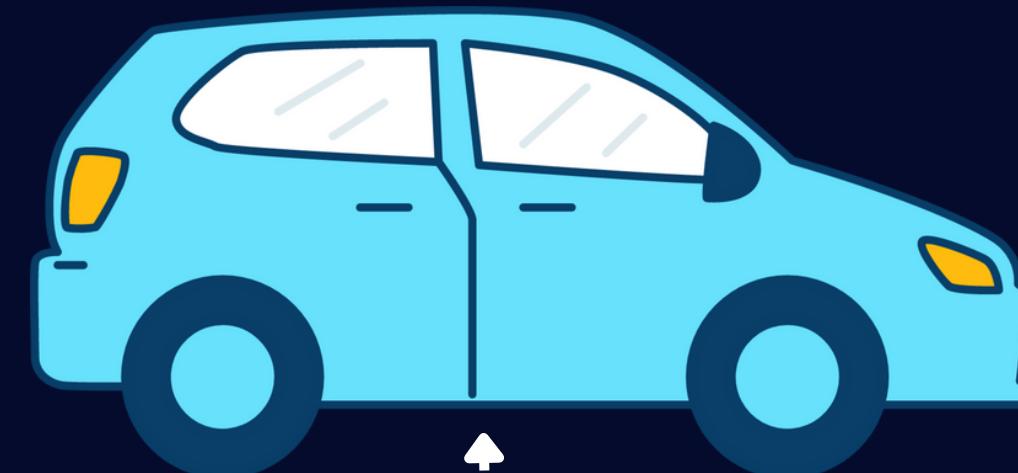
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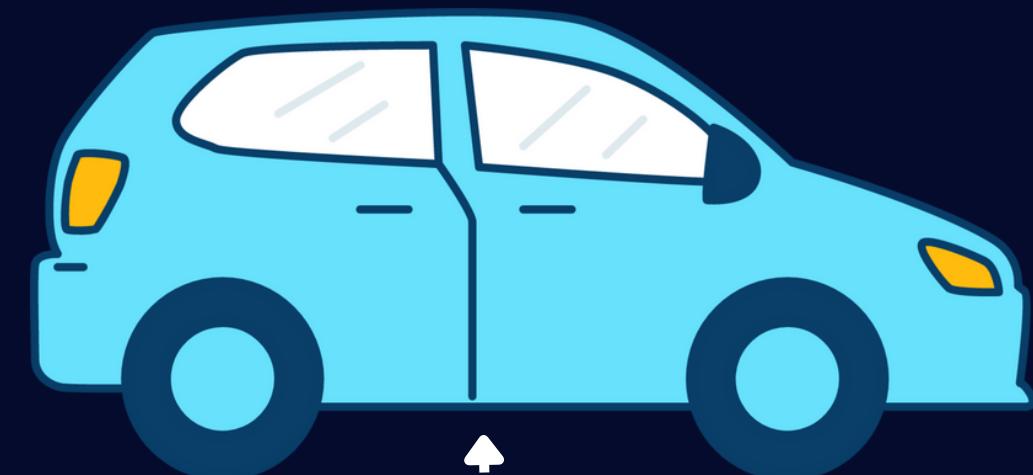
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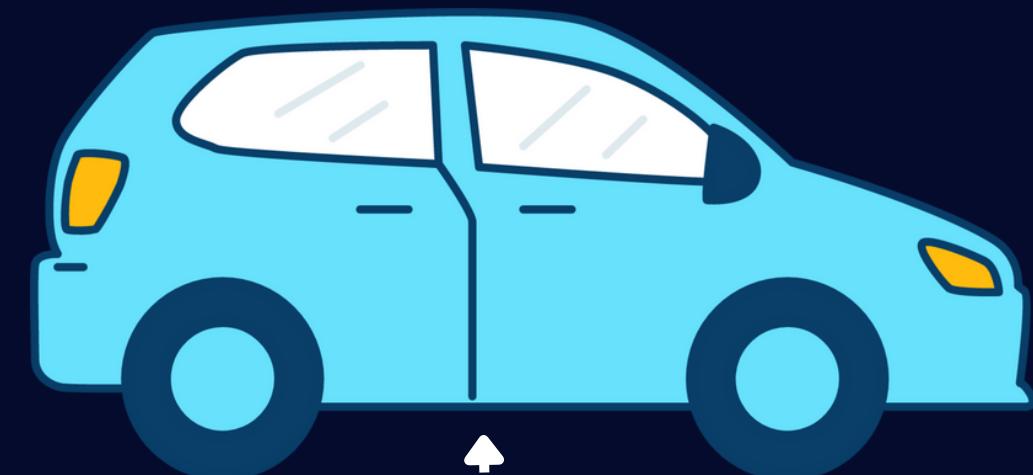
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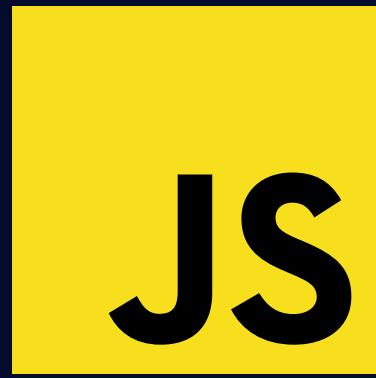
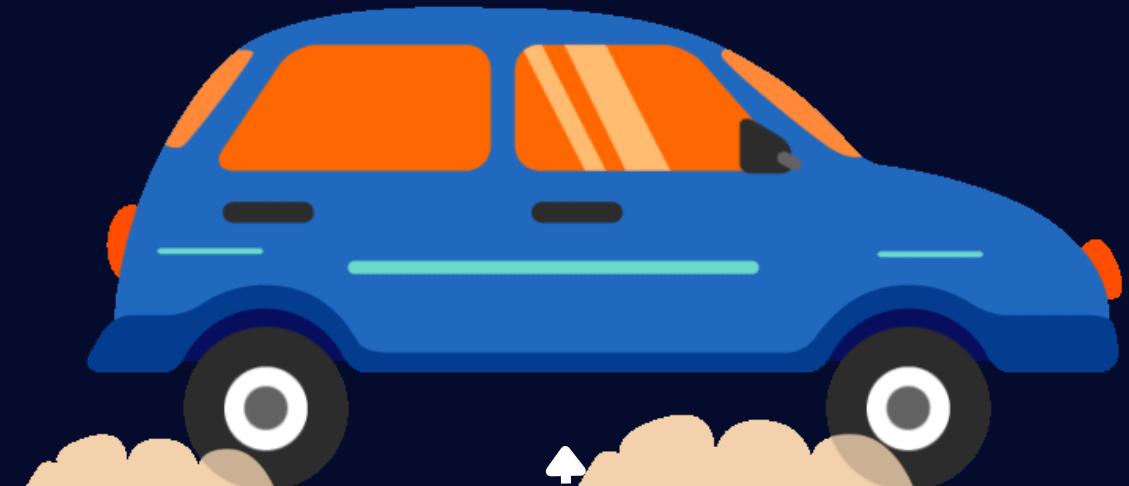
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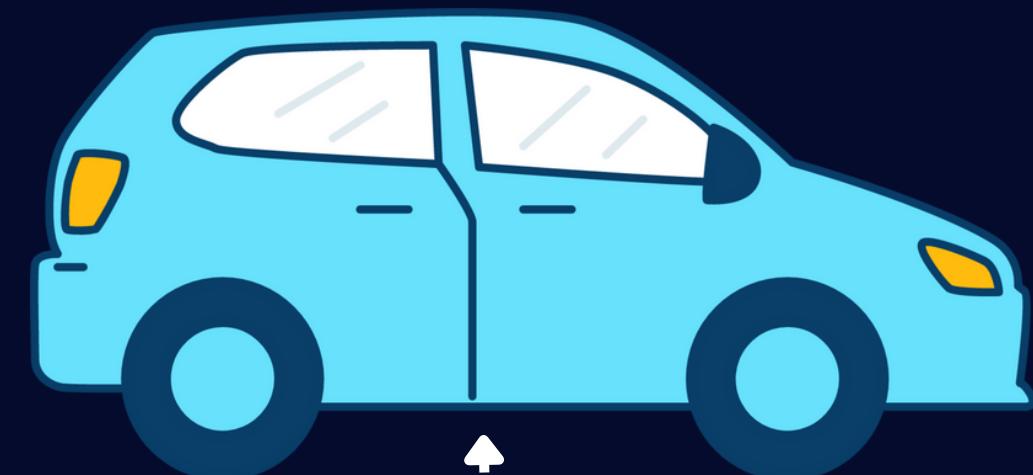
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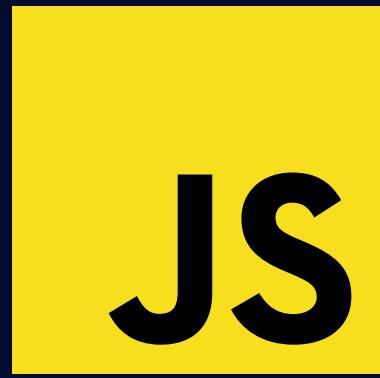
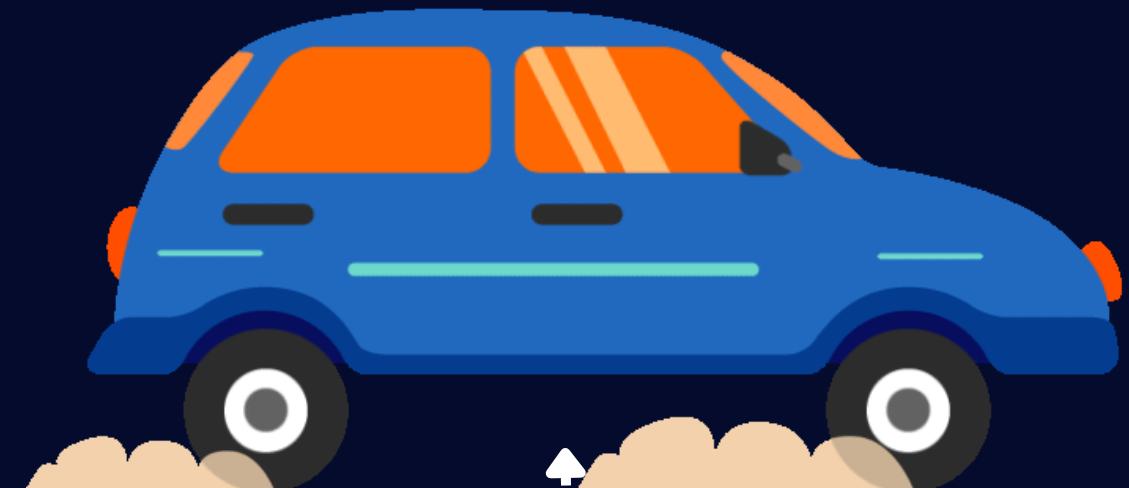
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Noun



Adjective



Verb



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How Does Javascript Work?



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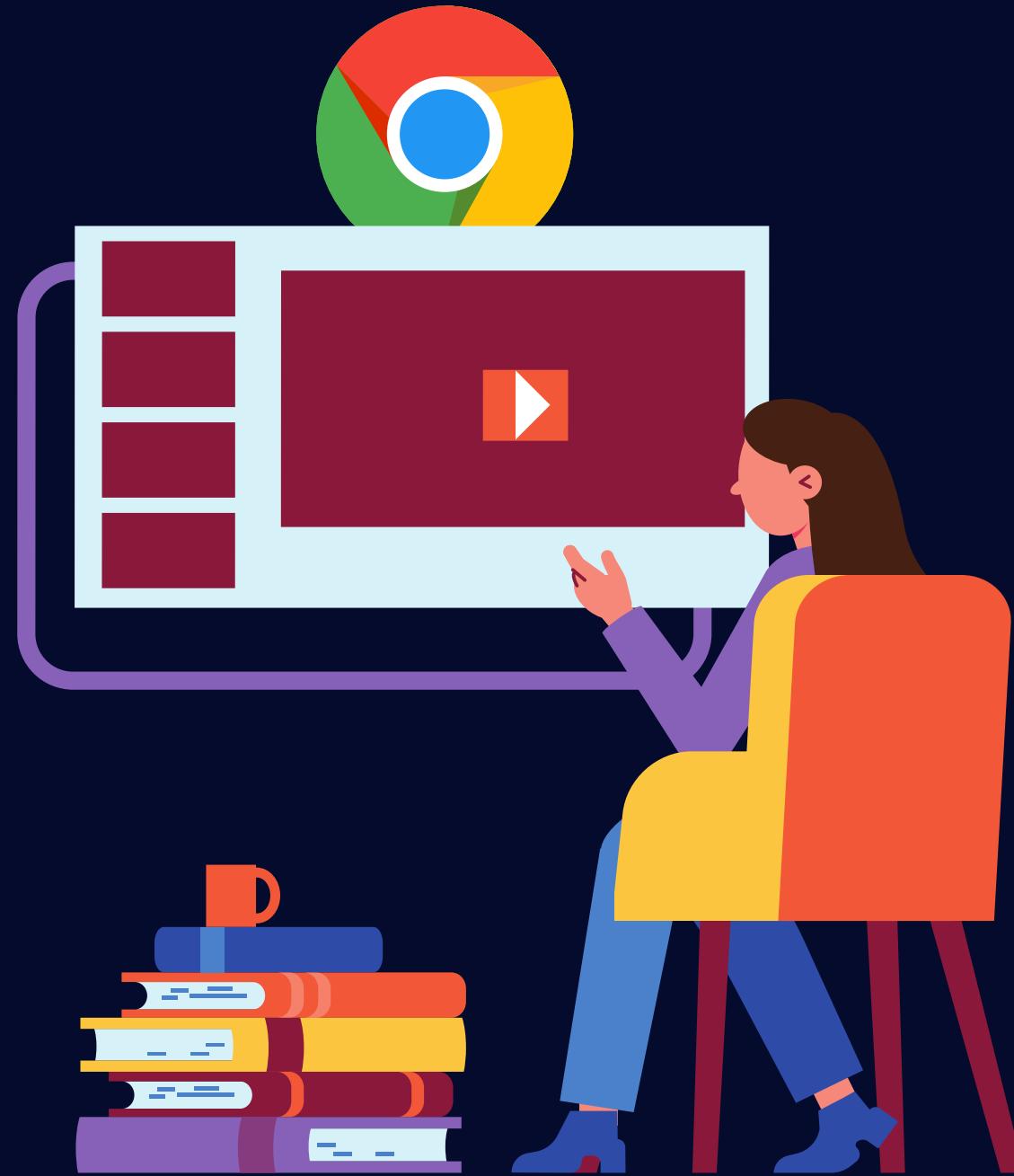
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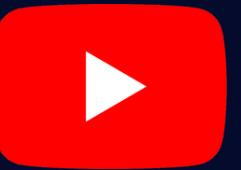
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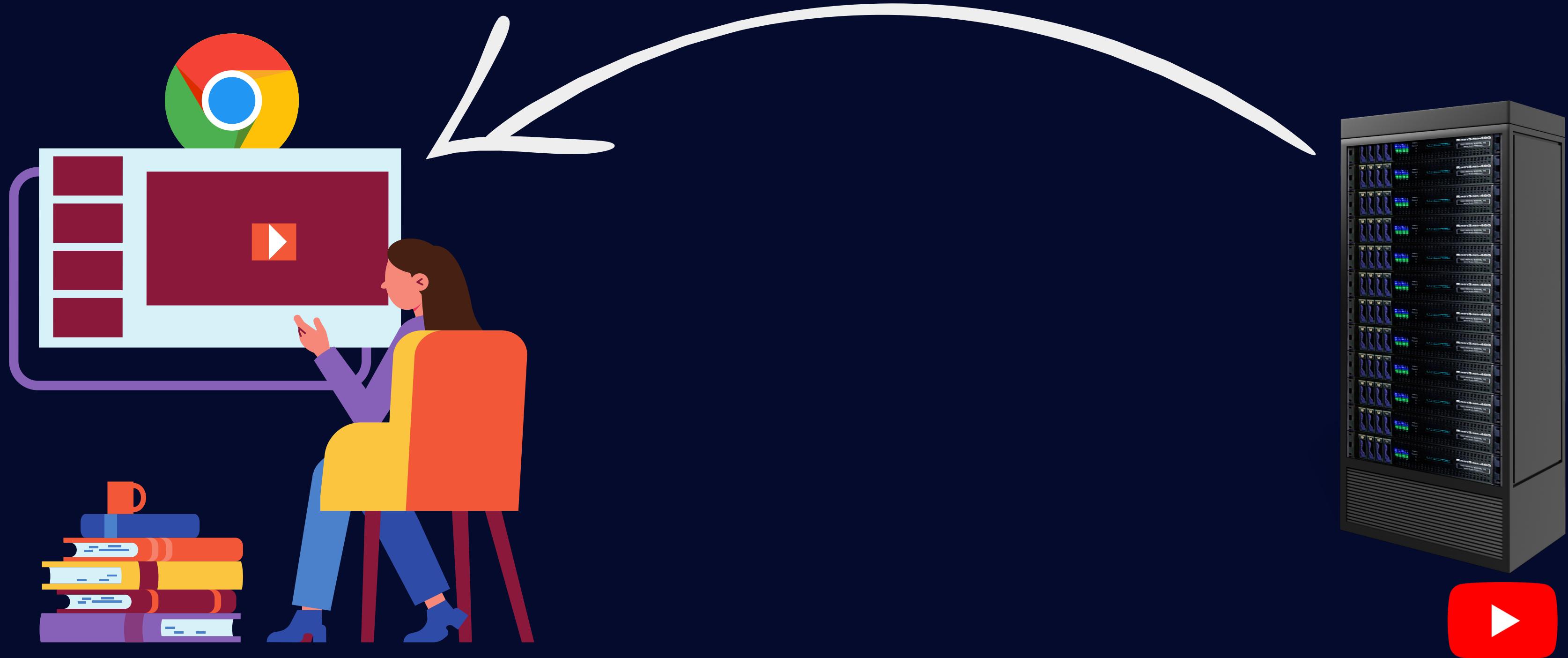
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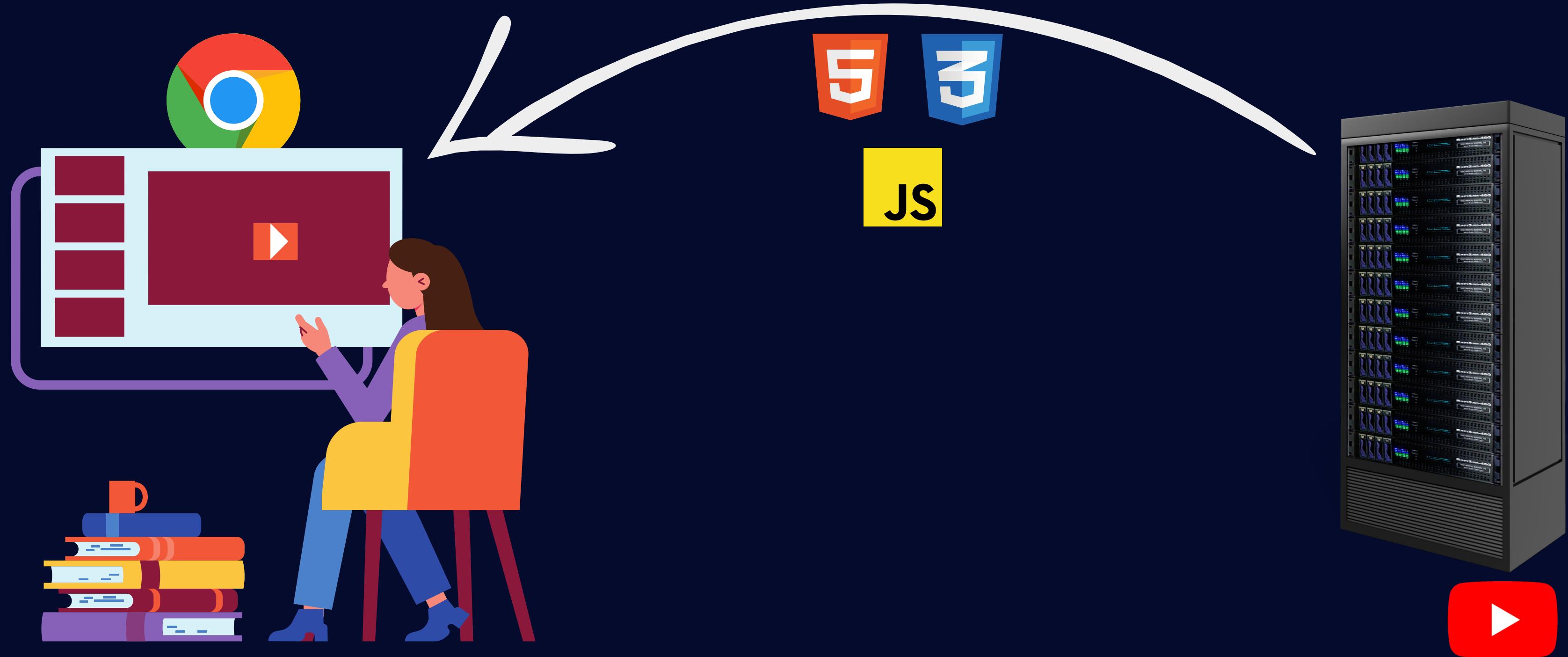
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View in browser console



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The Benefits of Javascript



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Javascript variables



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What is a variables ?



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JavaScript
variables are
used to store
data



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Basic rules of JavaScript syntax



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Variable naming conventions



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**BIG
DATA**



Javascript data types



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Javascript Operators



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Arithmetic operators



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Assignment operators



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Comparison operators



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Logical operators



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Conditional Statements



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Truthy and falsy values



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JavaScript Loops



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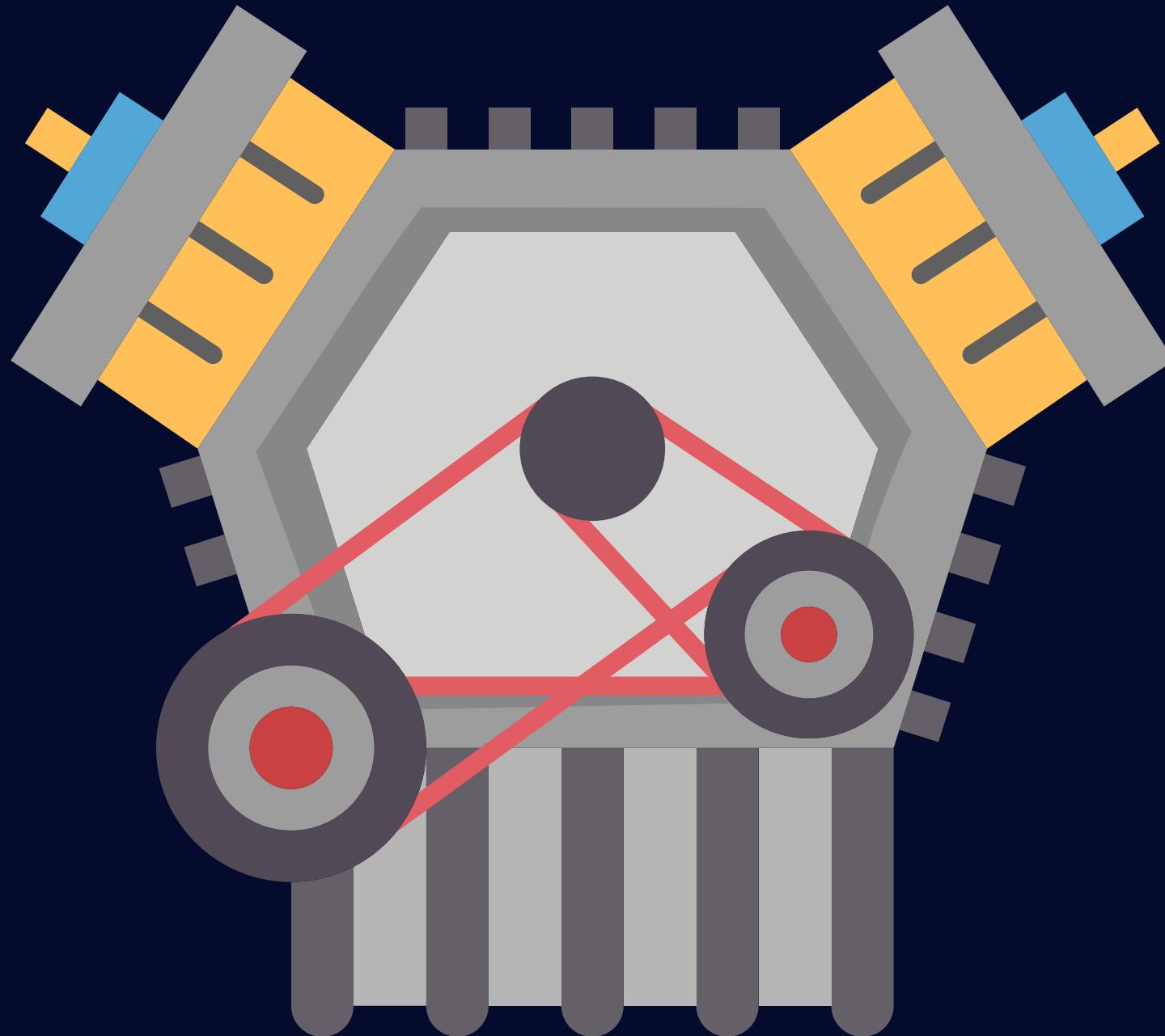


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Javascript Functions



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Functions Syntax



function declaration

```
function fnName(parameter) {  
    // code to be executed  
}
```



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Functions Syntax



function Expression

```
let fnName = function(parameter) {  
    // code to be executed  
}
```



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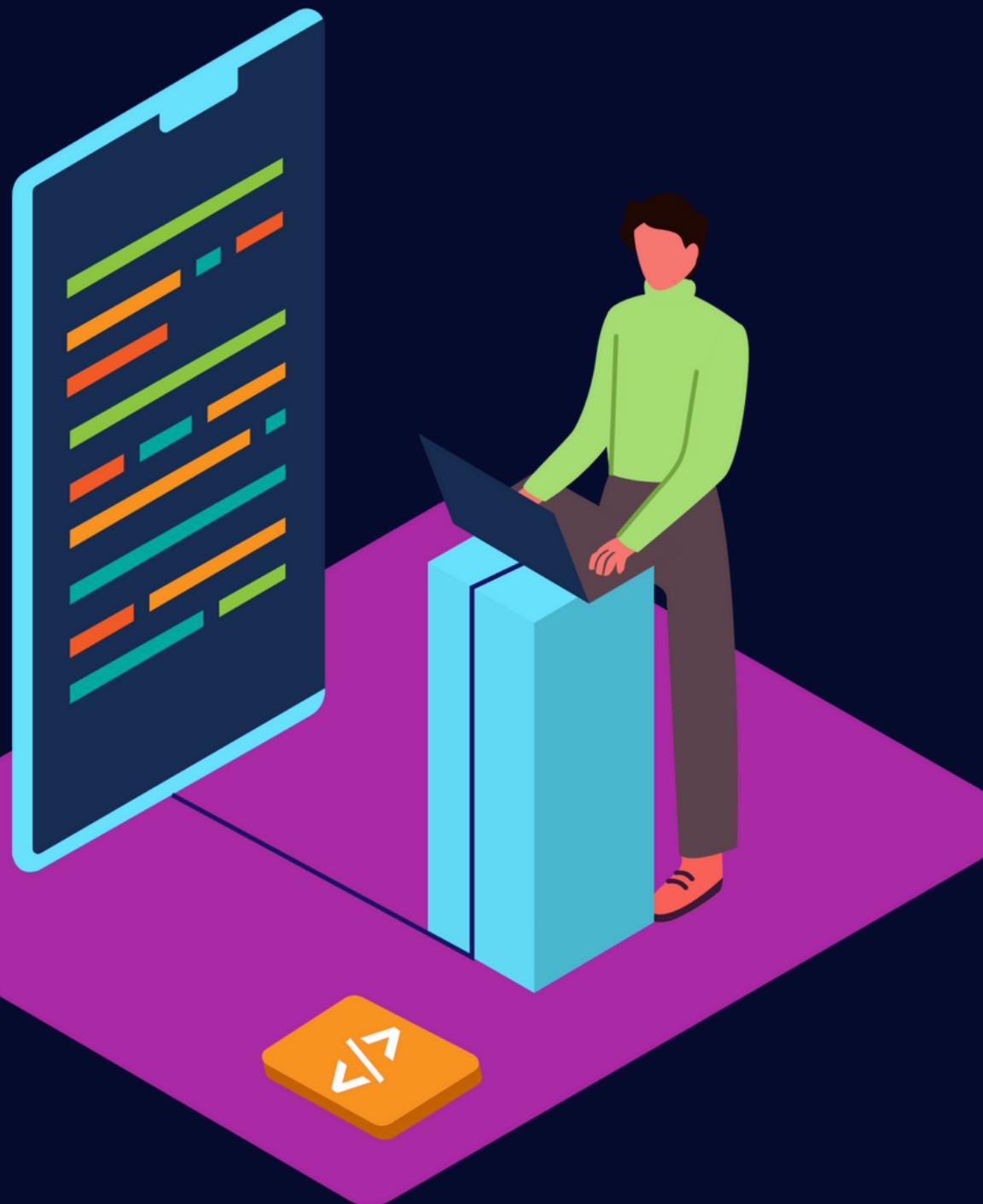
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Javascript



Strings

```
1
2 const myString = "Hello World";
3
4 const myString2 = new String("Hello World");
5
```



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Javascript



ARRAYS

```
...  
1 const myArr = new Array("css", "html", "nodejs");  
2 //or  
3 const myArr2 = ["css", "html", "nodejs"];  
4  
5
```



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```
1 const myArr = new Array("css", "html", "nodejs");
2 //or
3 const myArr2 = ["css", "html", "nodejs"];
4
5           ↓   ↓   ↓
index 0 index 1 index 2
```

JS



ARRAYS OF BOOKS



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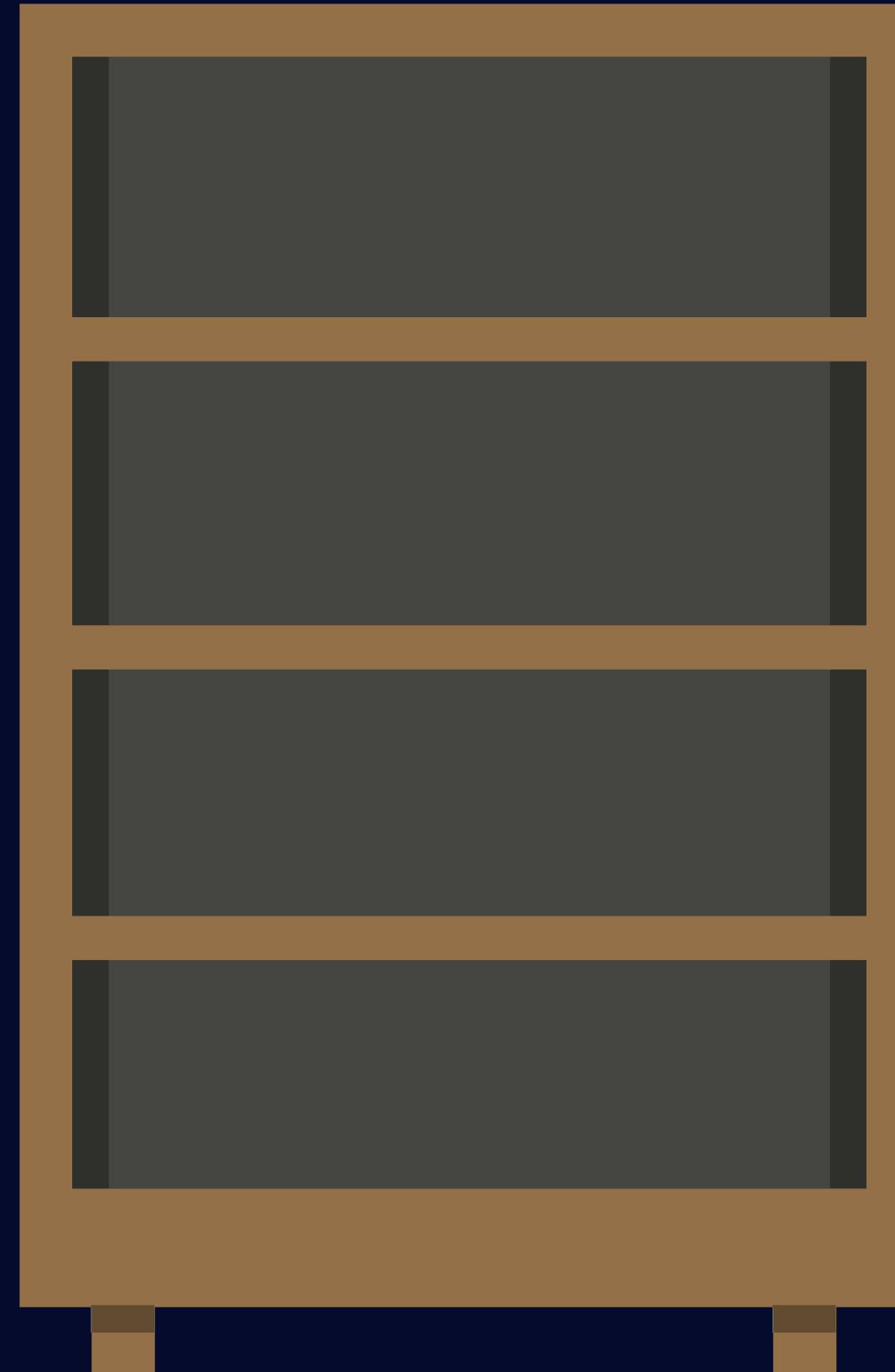
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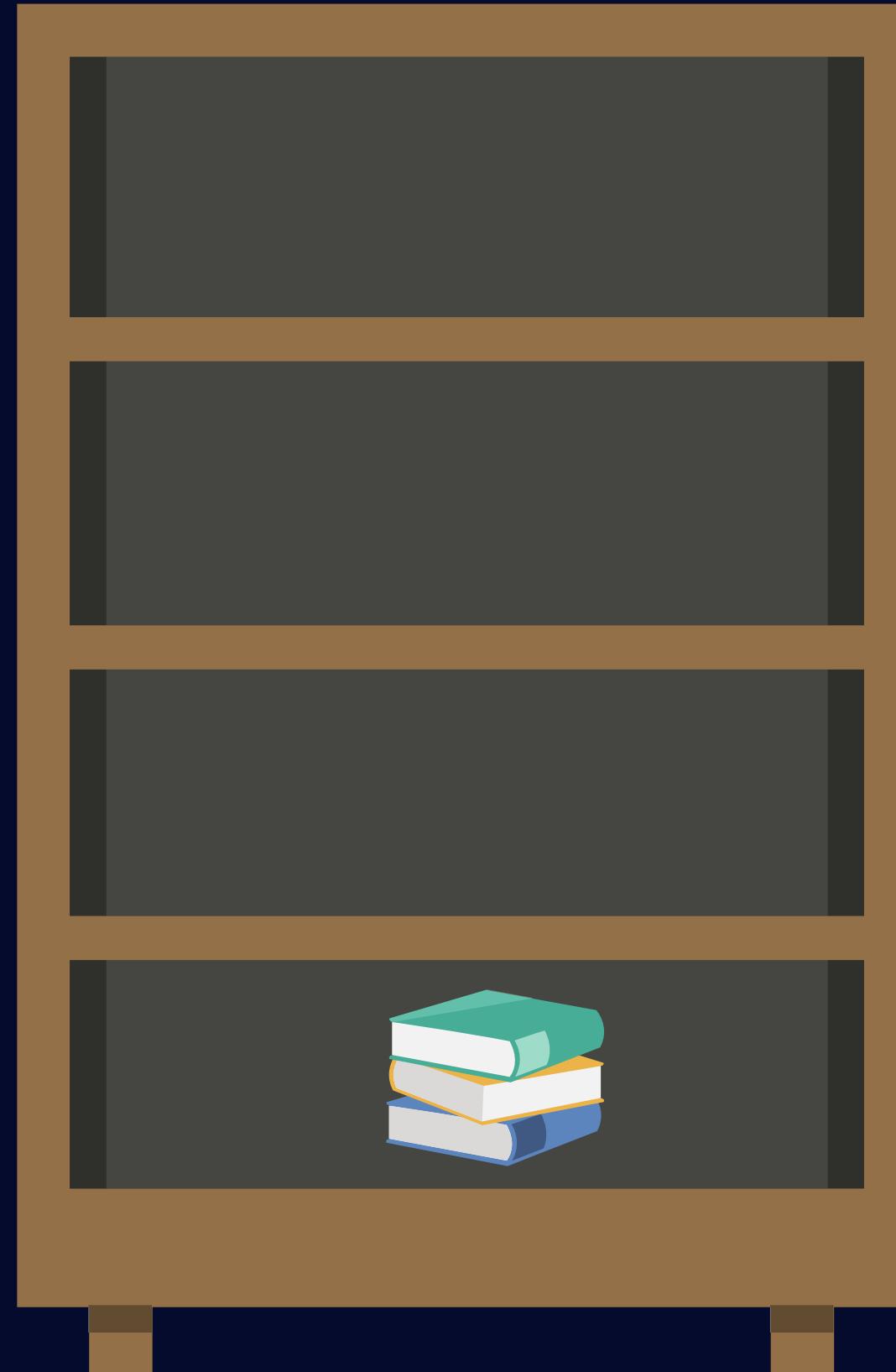
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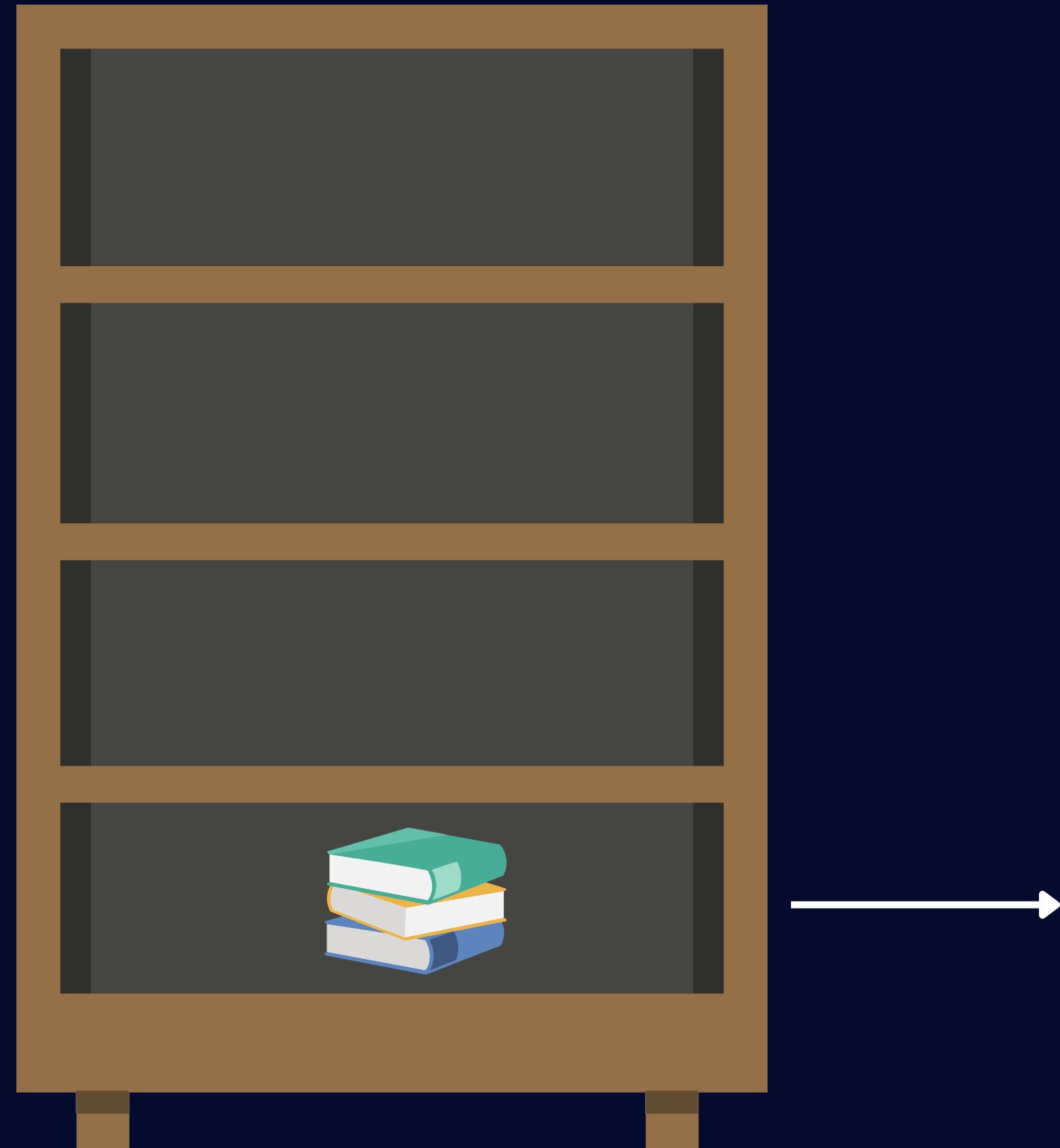
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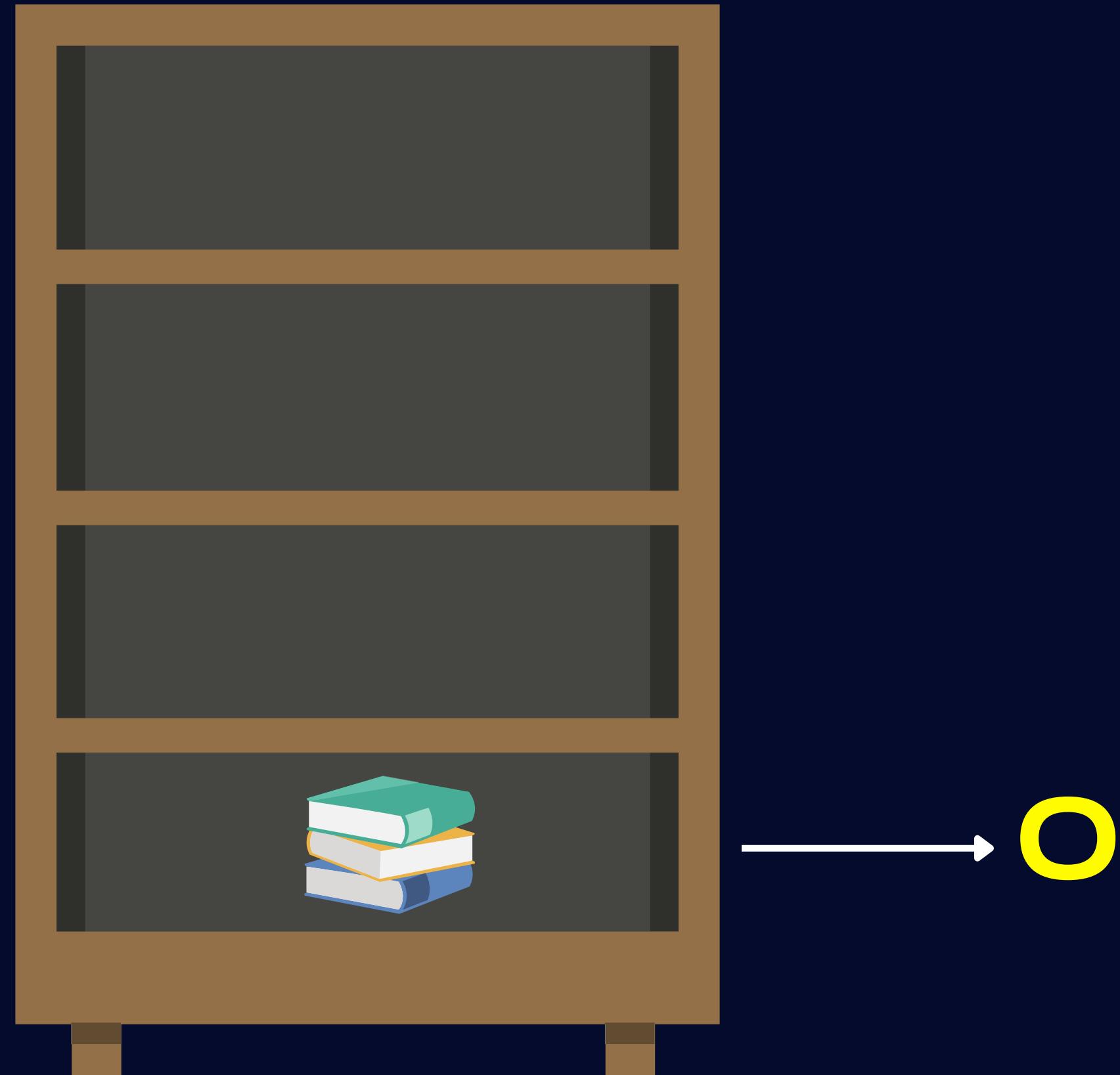
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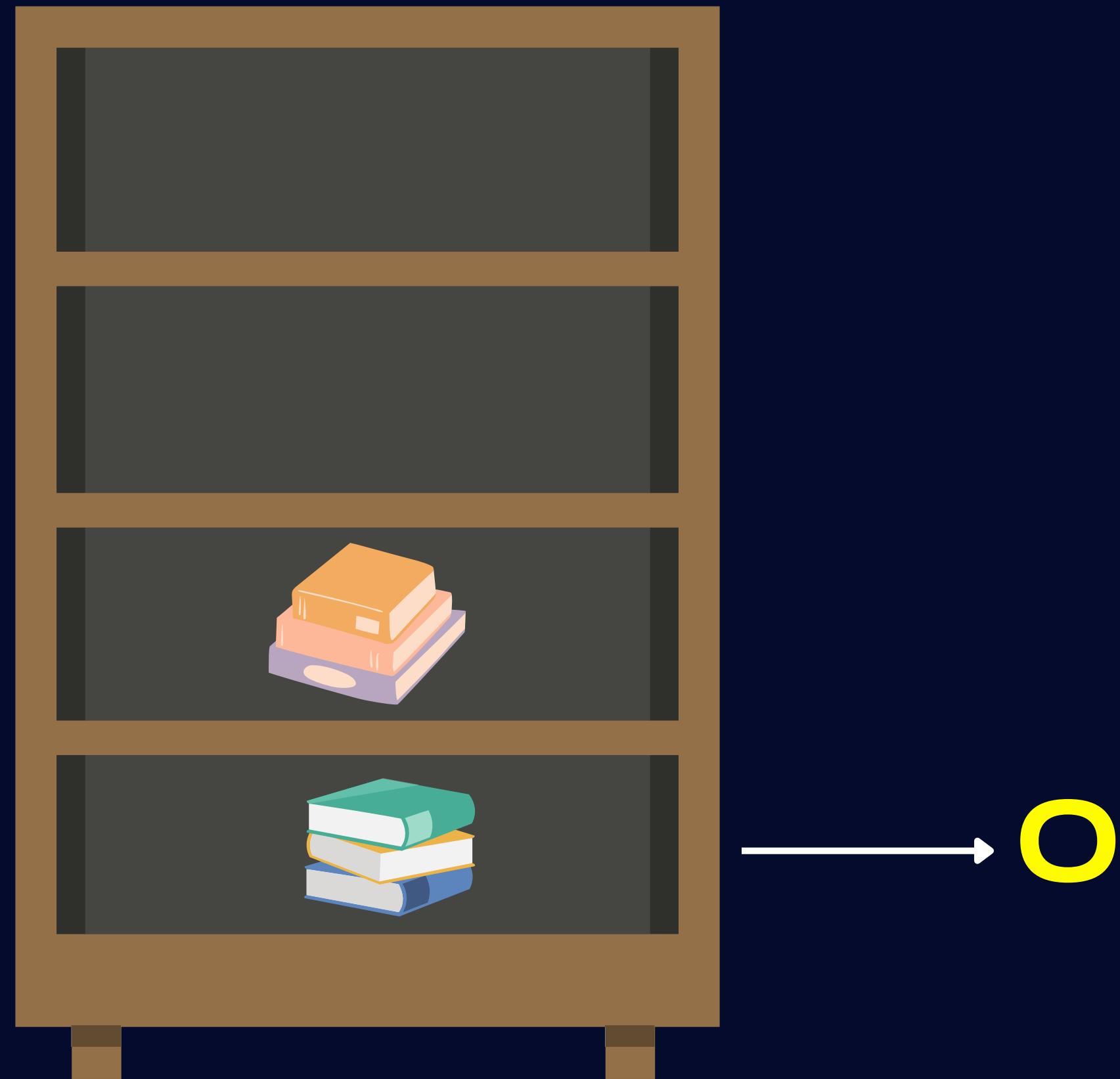
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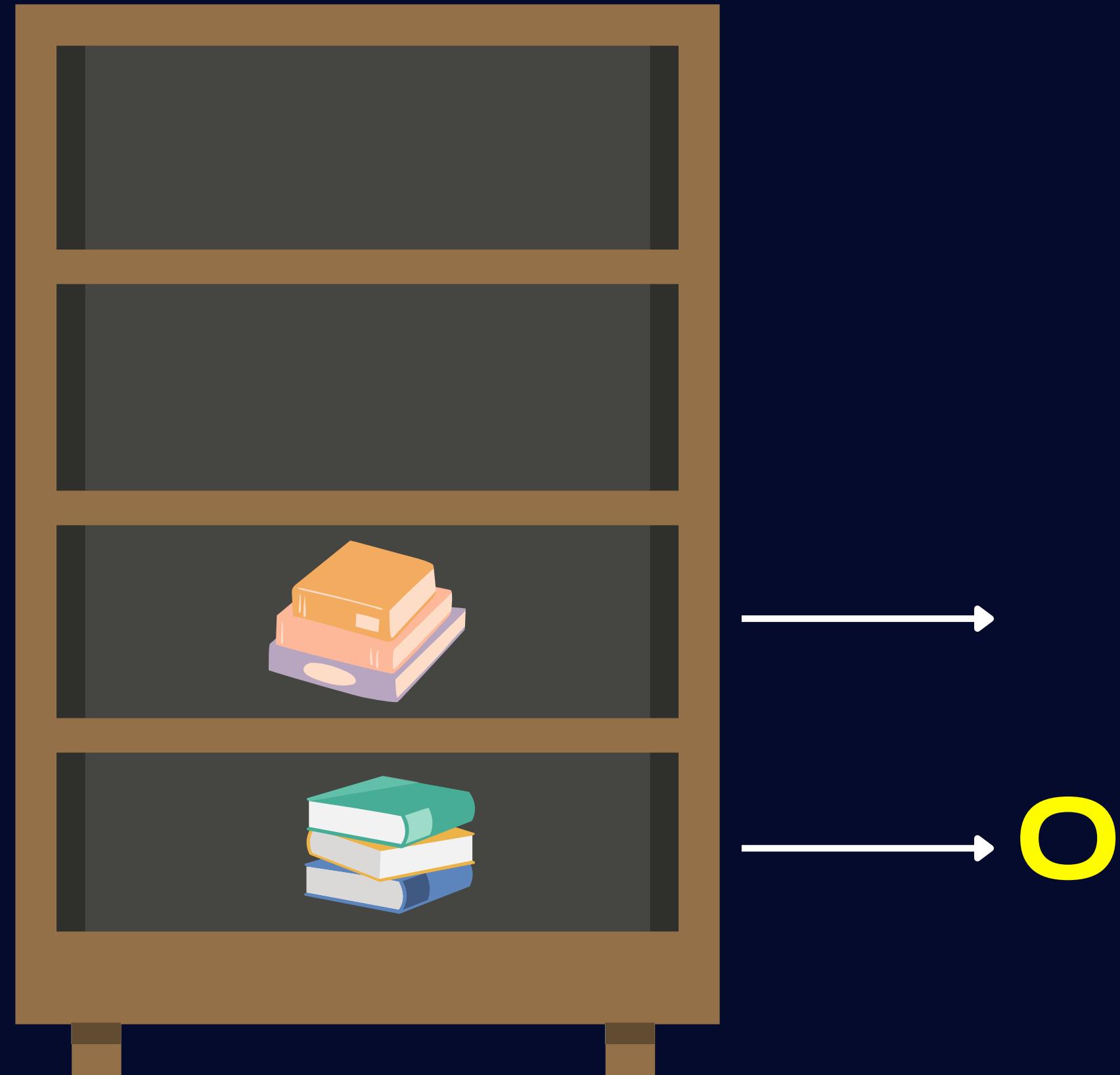
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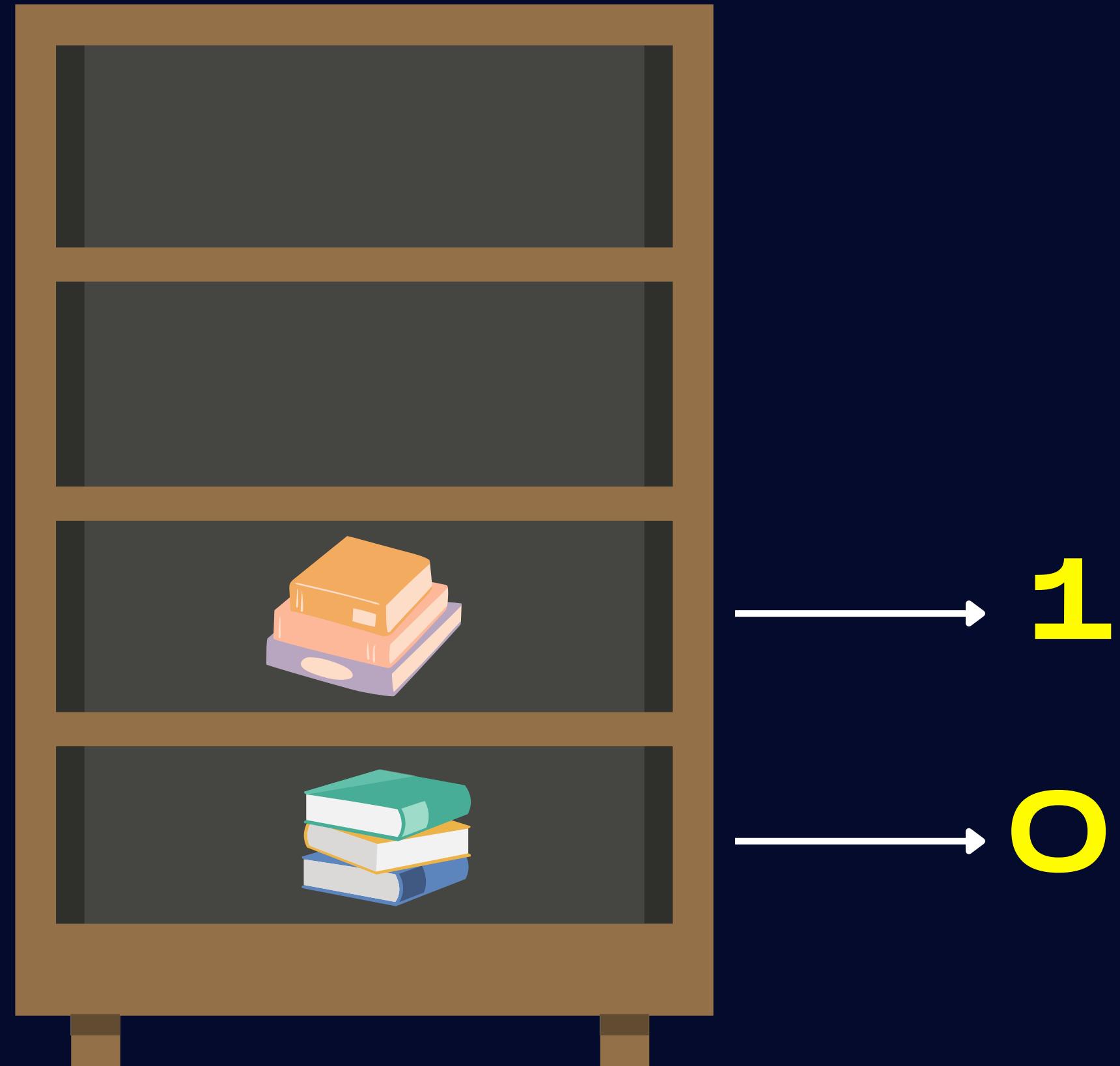
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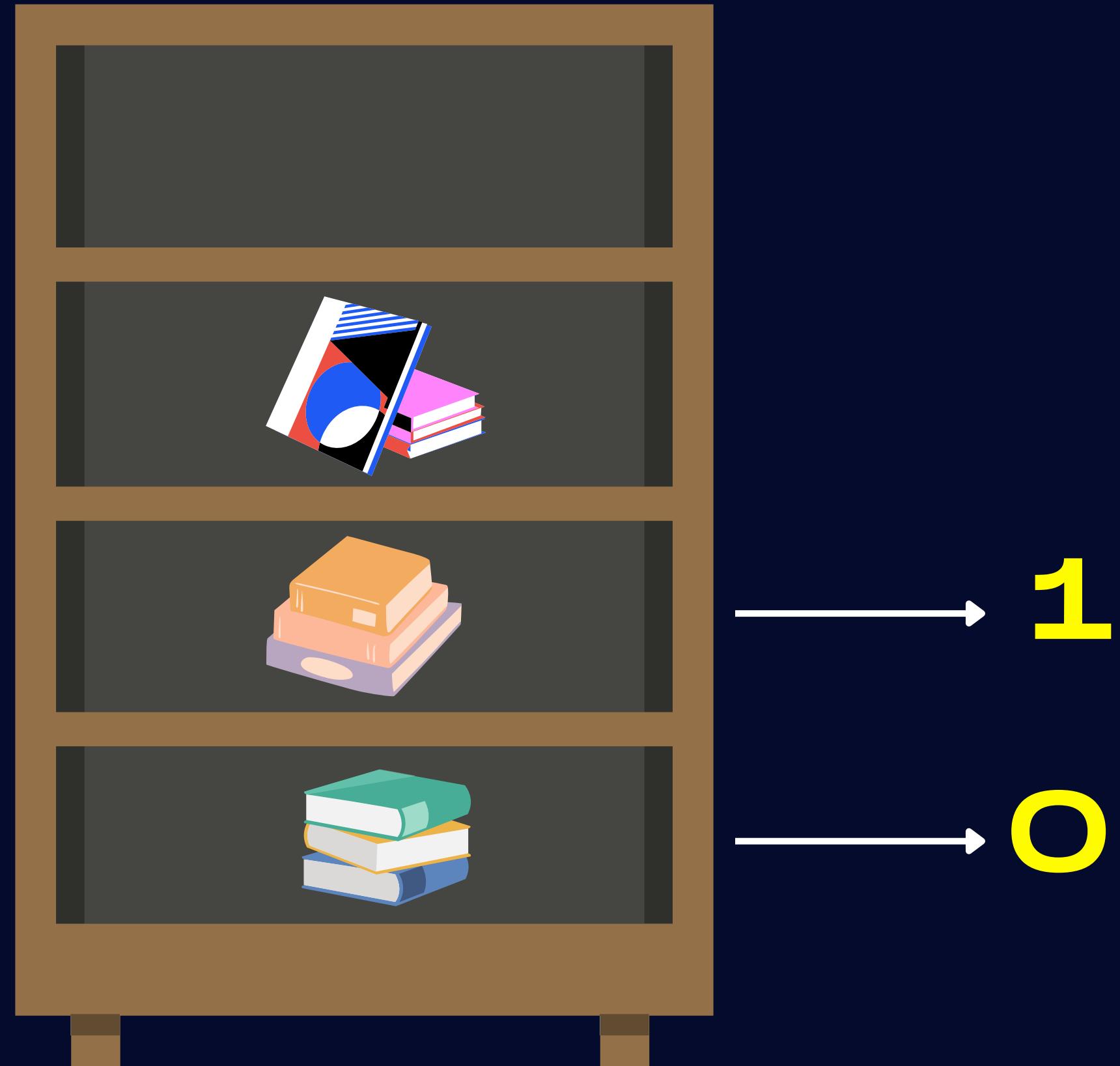
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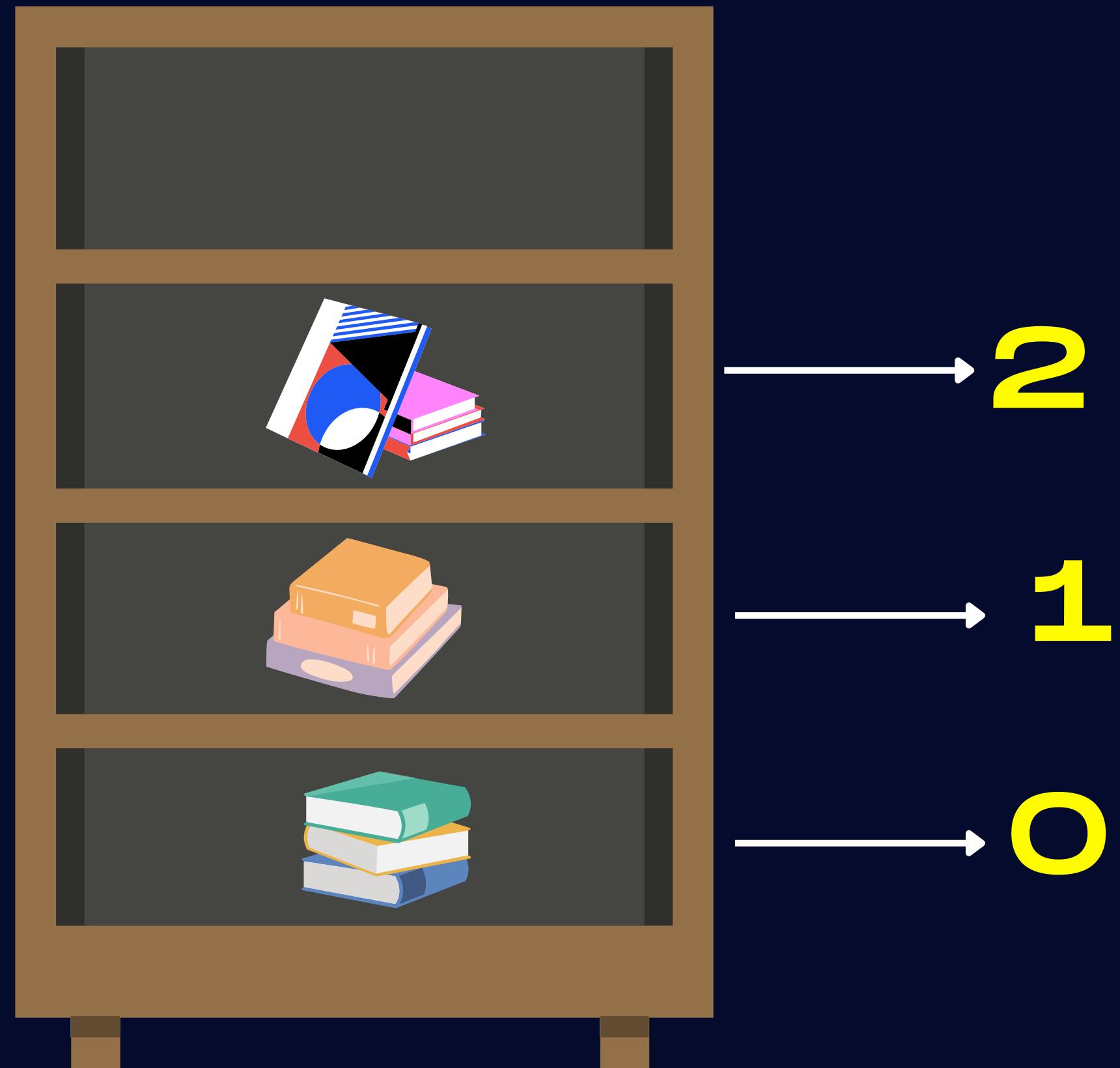
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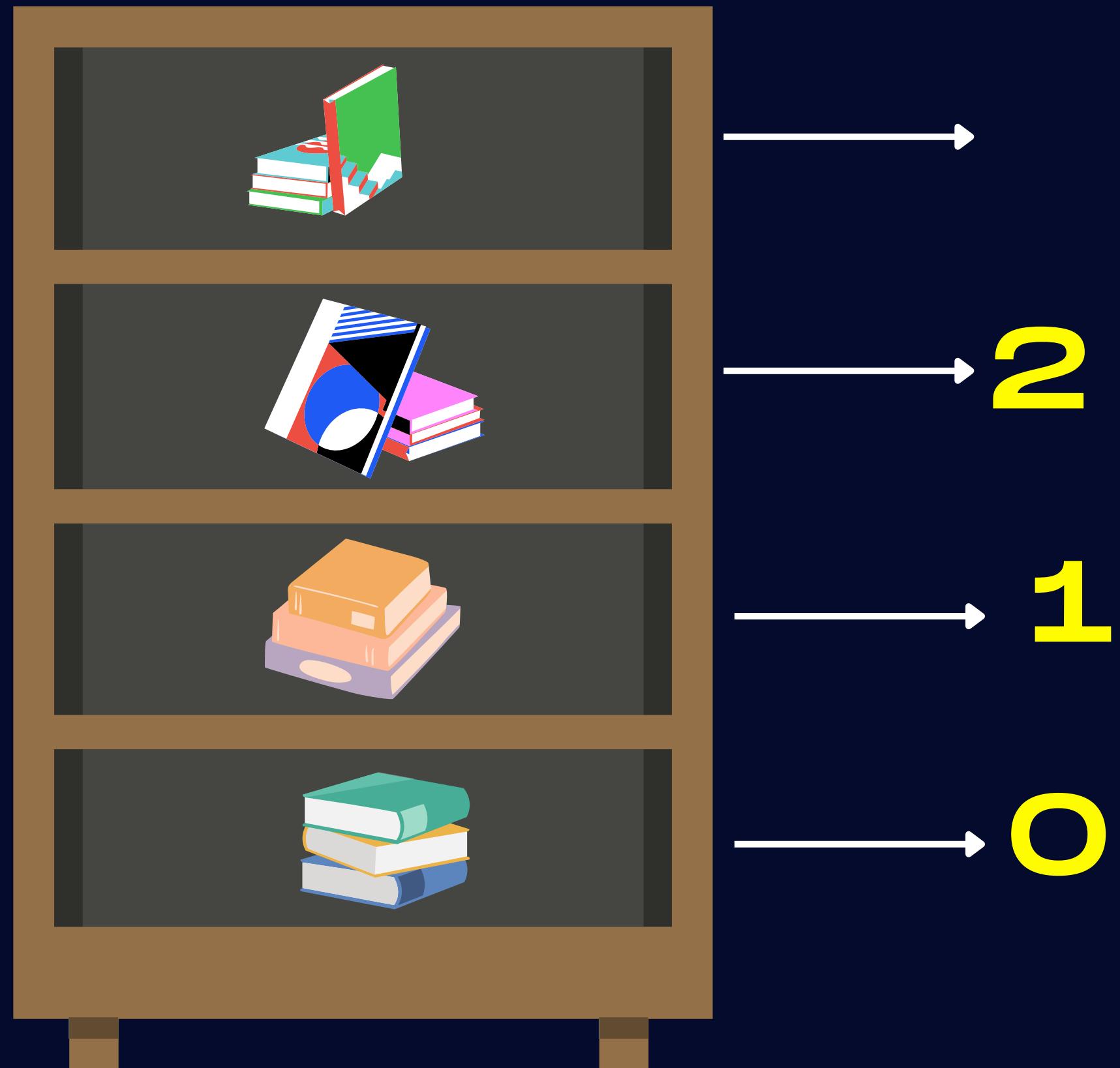
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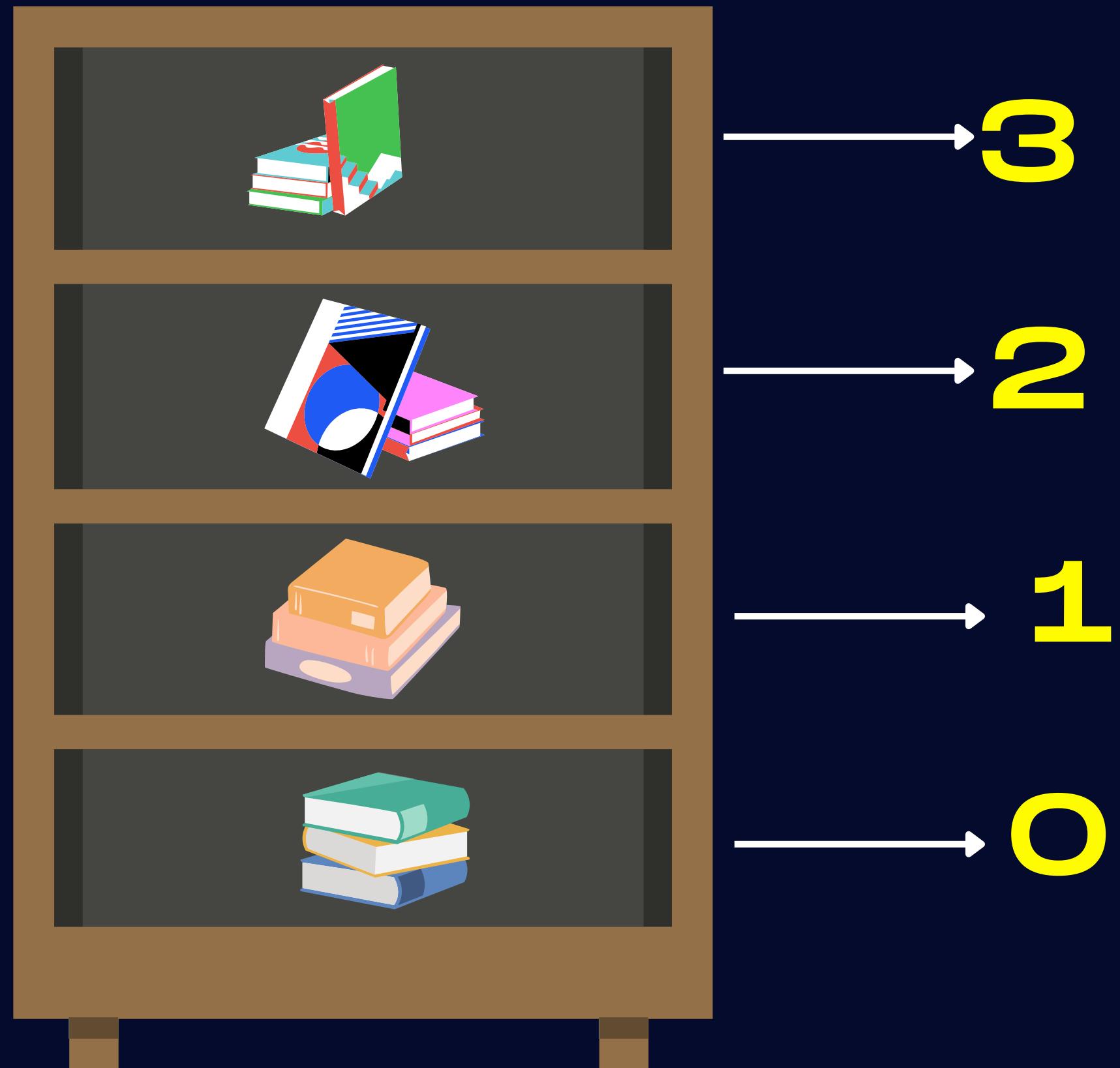
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Javascript Objects



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Person Object



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JS Syntax



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Properties

person.name = John

person[name] = John

person.age = 25

person[age] = 25

Methods

person.greet()

person.walk()

person.shout()

person.run()



Javascript versions

JS

Javascript versions



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JavaScript was created by Brendan Eich in 1995 and became an ECMA standard in 1997



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Organization



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The official name of the language is ECMAScript. ECMAScript versions have been abbreviated to ES1, ES2, ES3, ES5, and ES6. Since 2016, new versions have been named by year (ECMAScript 2016 / 2017 / 2018).



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ECMA

European Computer Manufacturers Association (ECMA)



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Javascript versions



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Javascript versions



1997



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1997

ESI (ECMAScript 1) first version of JS language standard

1997

ESI (ECMAScript 1) first version of JS language standard



2007

1997

ESI (ECMAScript 1) first version of JS language standard

2007

ES5 (ECMAScript 5) New more features released

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2007

ES5 (ECMAScript 5) New more features released



2015

ES6 (ECMAScript 5) Biggest update

1997

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1997

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2015

ES6 (ECMAScript 5) Biggest update

2016

2017

JS

Javascript **versions**



ES6/2015

DESTRUCTURING

ES6/2015



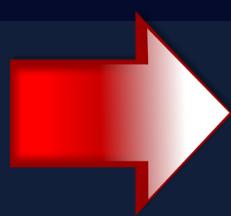


ES6/2015

Rest parameters are a way to pass an arbitrary number of arguments to a function

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ARROW FUNCTION



ES6/2015

() => {}



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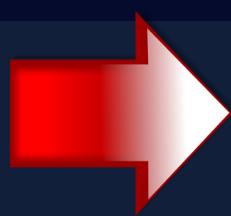


ES6/2015

An arrow function expression is a more concise way to write a traditional function expression, but it cannot be used in all situations.

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ARROW FUNCTION



ES6/2015



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 ES6/2015

Arrow function limitations



ES6/2015



Arrow functions do not have this keyword.



ES6/2015

- Arrow functions do not have this keyword.
- Arrow functions do not have arguments.



ES6/2015

-  Arrow functions do not have this keyword.
-  Arrow functions do not have arguments.
-  Arrow functions cannot use as a constructor.



The spread operator (...) is a convenient way to copy all or part of an existing array or object into another array or object.

ES6/2015

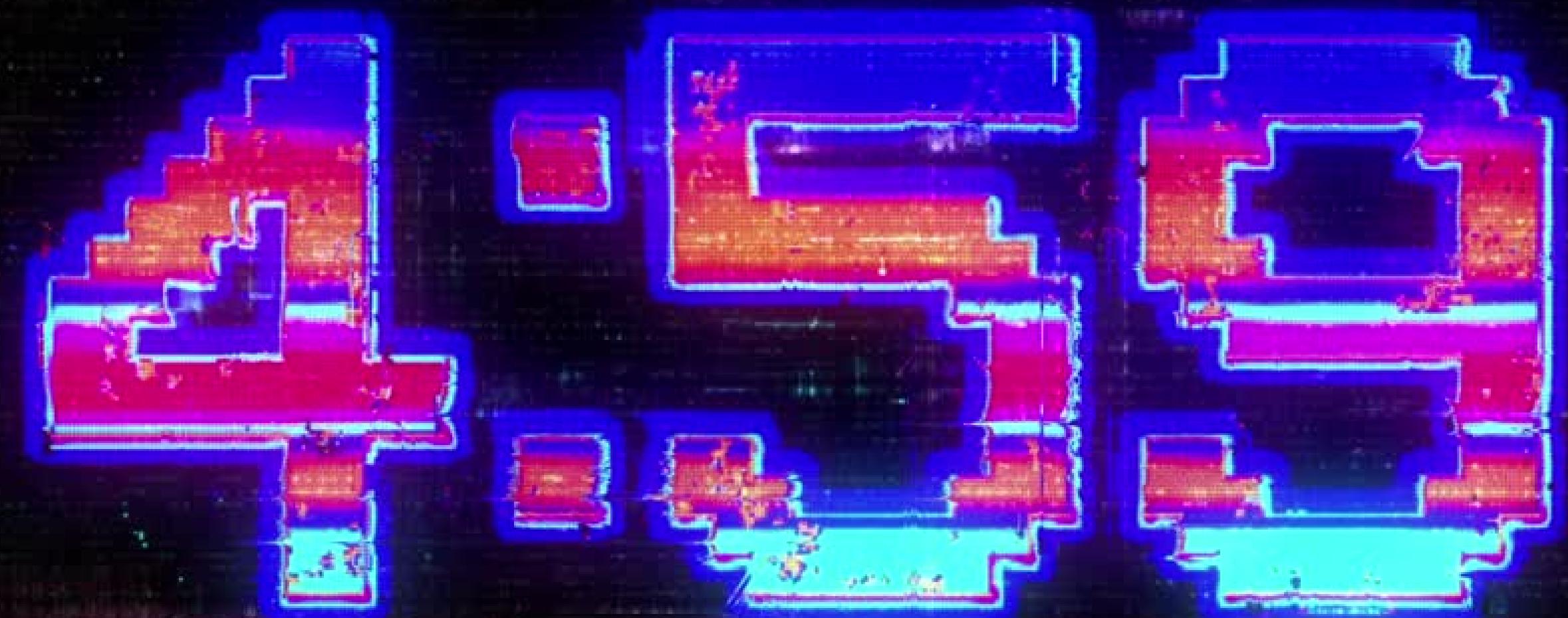
Spread vs Rest

Spread syntax "expands" an array into its elements, while rest syntax collects multiple elements and "condenses" them into a single element



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Math Object



js

Number Methods



Number Methods

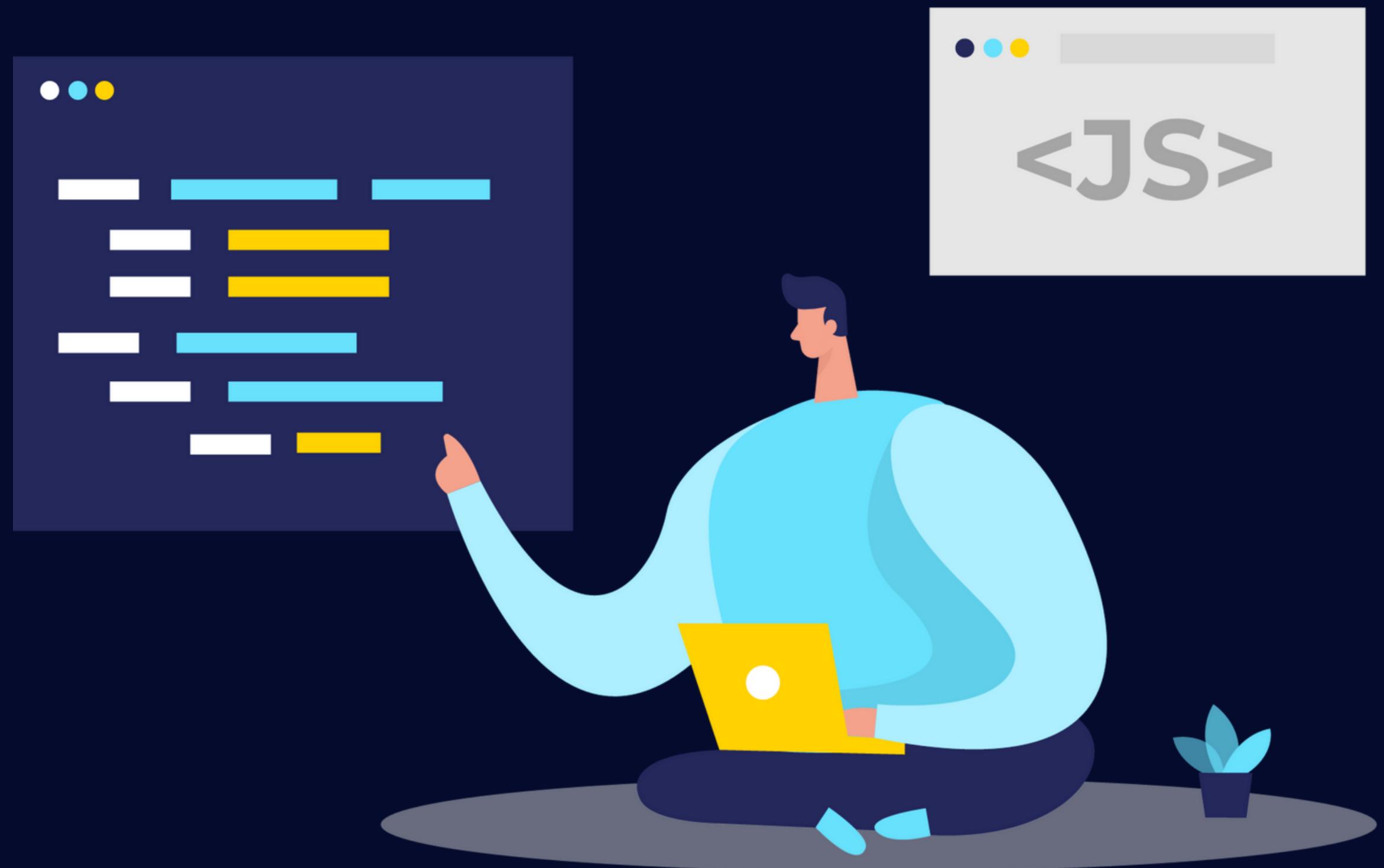


Primitive values cannot have properties and methods, but JavaScript treats primitive values as objects when executing methods and properties. This allows for methods and properties to be available to primitive values.



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Advanced Functions



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Functions Scope



Variable and function visibilities



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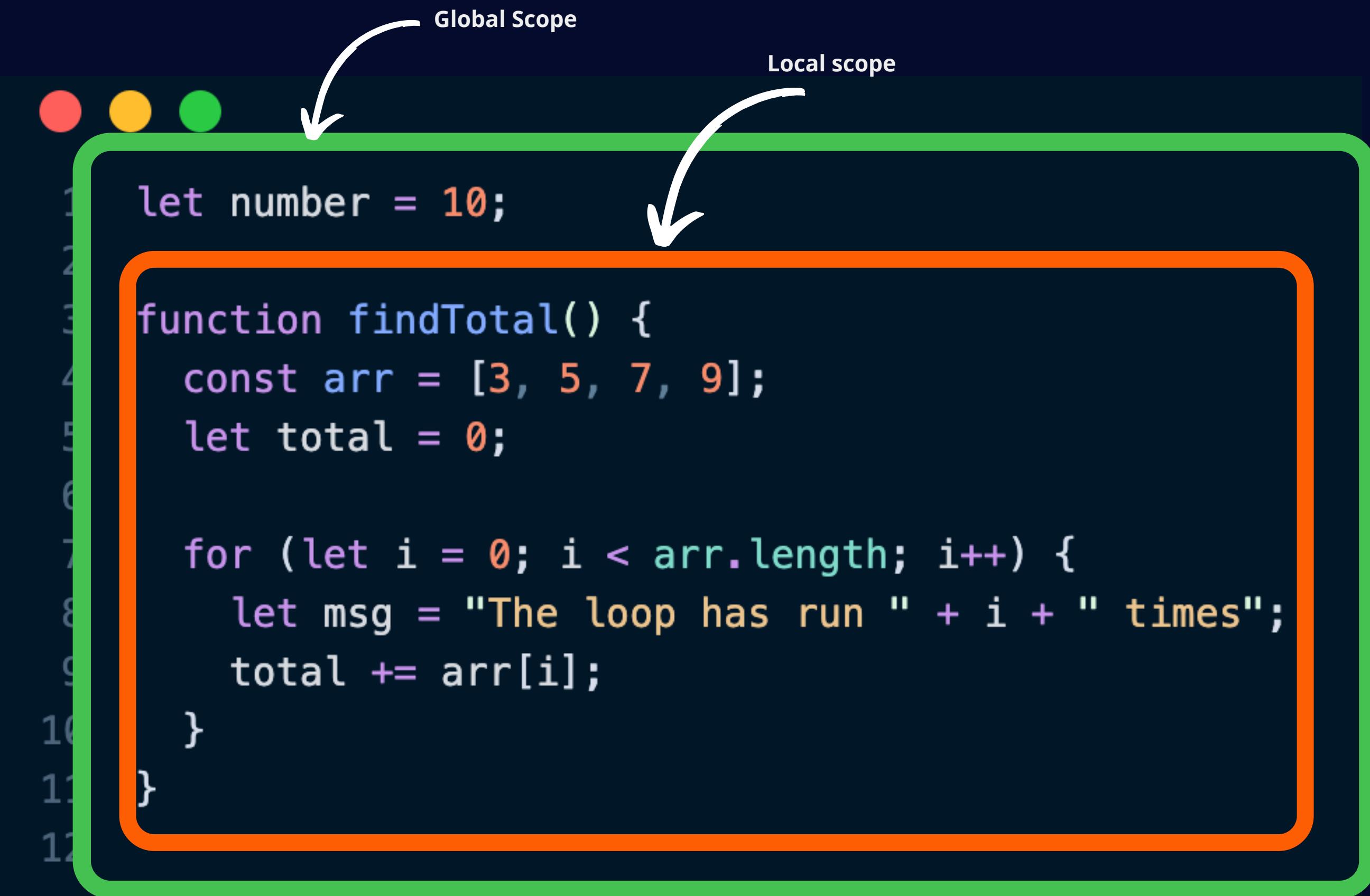


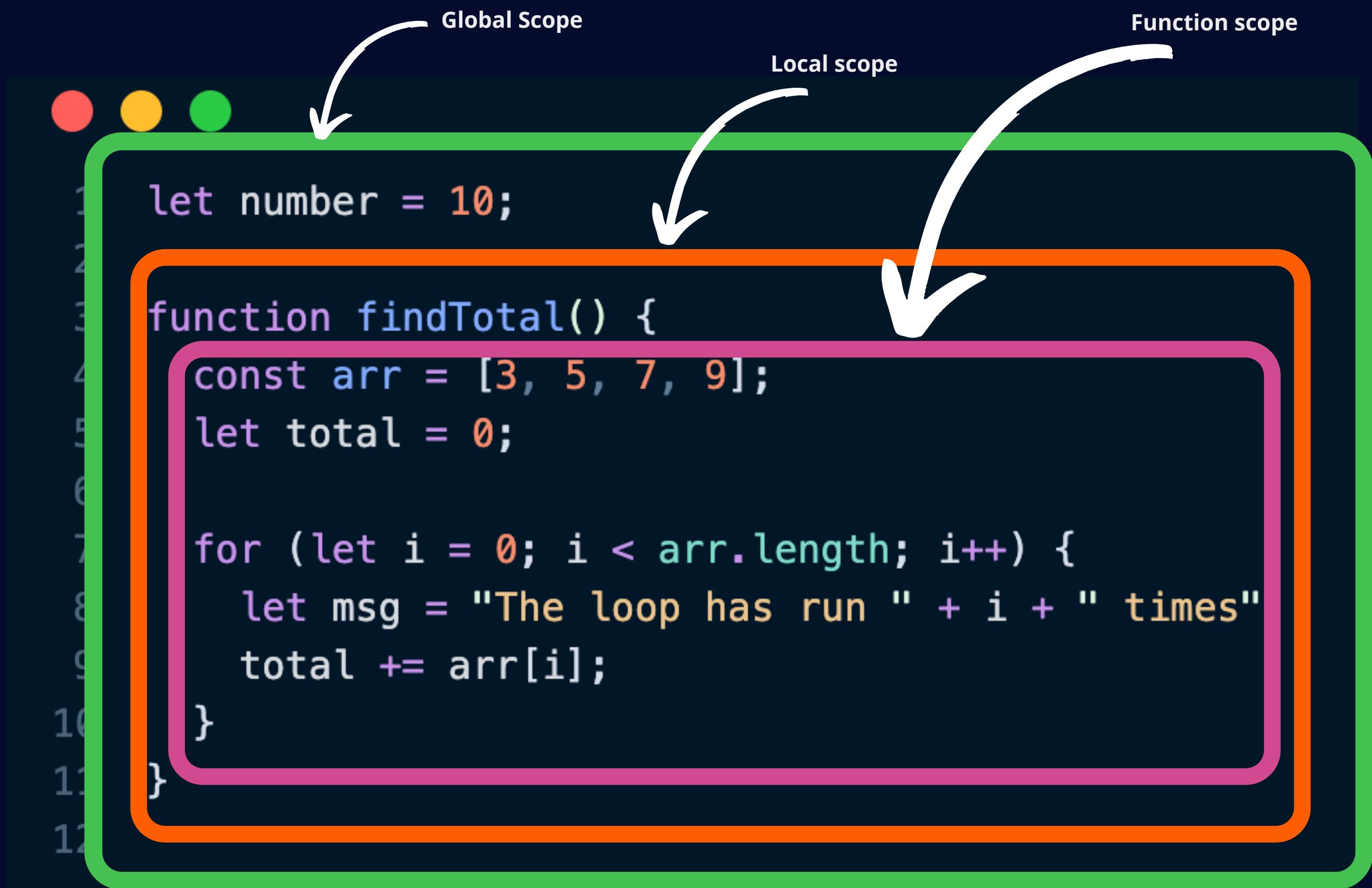


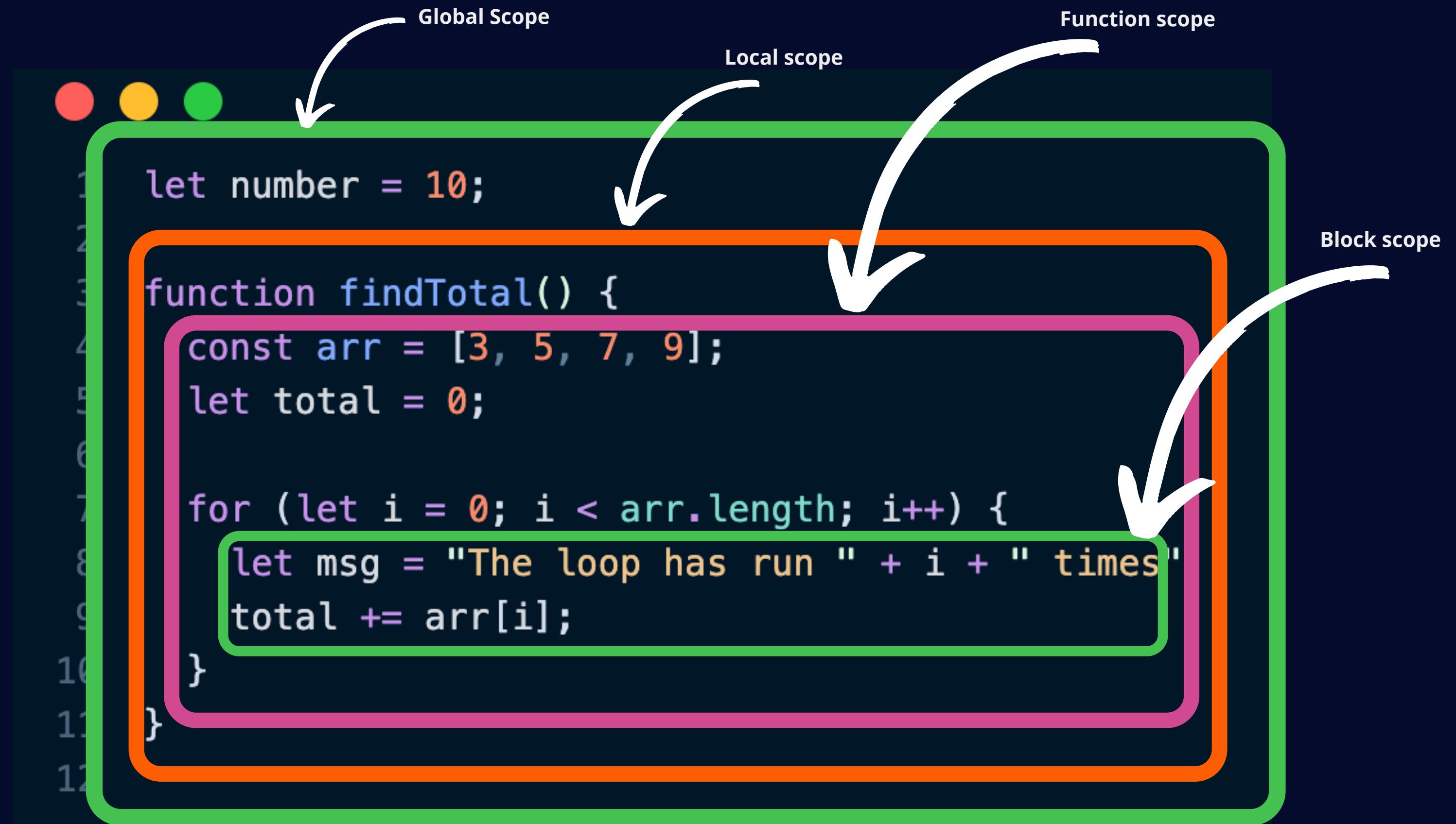
```
1 let number = 10;  
2  
3 function findTotal() {  
4     const arr = [3, 5, 7, 9];  
5     let total = 0;  
6  
7     for (let i = 0; i < arr.length; i++) {  
8         let msg = "The loop has run " + i + " times";  
9         total += arr[i];  
10    }  
11 }  
12
```

Global Scope

```
1 let number = 10;  
2  
3 function findTotal() {  
4     const arr = [3, 5, 7, 9];  
5     let total = 0;  
6  
7     for (let i = 0; i < arr.length; i++) {  
8         let msg = "The loop has run " + i + " times";  
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10    }  
11 }  
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```







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HISTORY OF JAVASCRIPT



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HISTORY OF JAVASCRIPT



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HISTORY OF JAVASCRIPT



Brendan Eich



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HISTORY OF JAVASCRIPT



- JavaScript was created in 1995 by Brendan Eich



Brendan Eich



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HISTORY OF JAVASCRIPT



Brendan Eich

- JavaScript was created in 1995 by Brendan Eich
- It was originally named Mocha -> LiveScript ---> JavaScript.



HISTORY OF JAVASCRIPT



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HISTORY OF JAVASCRIPT



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HISTORY OF JAVASCRIPT



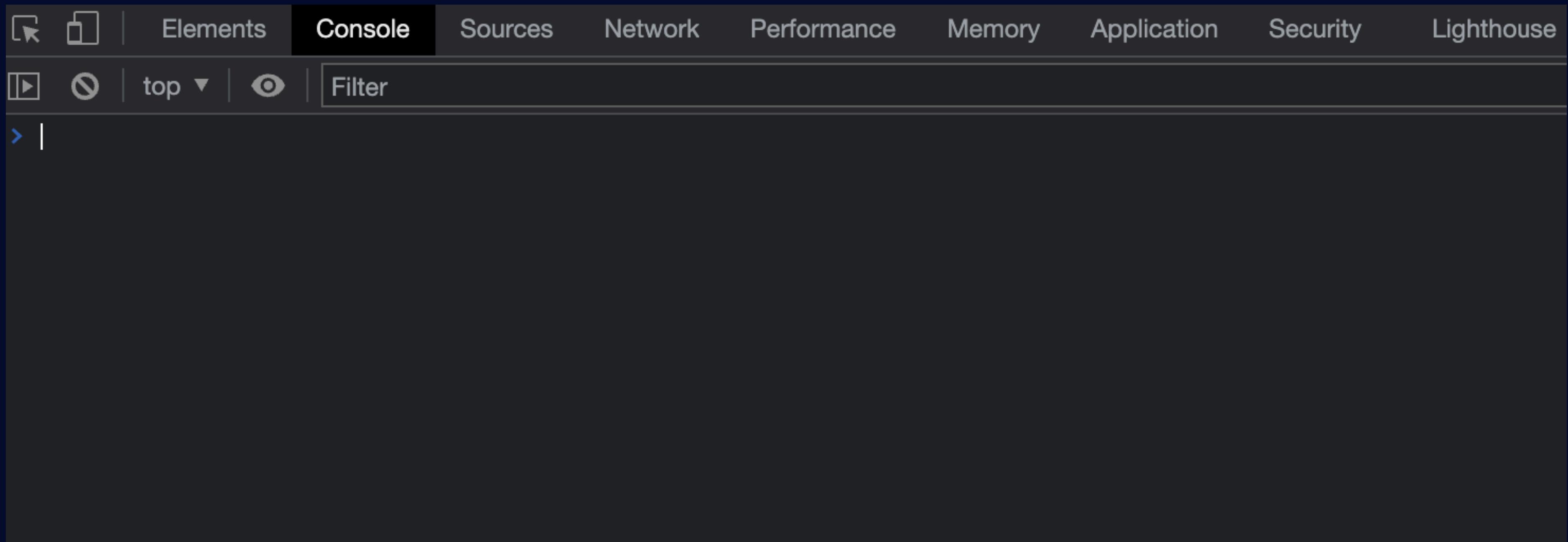
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JS

console.log()



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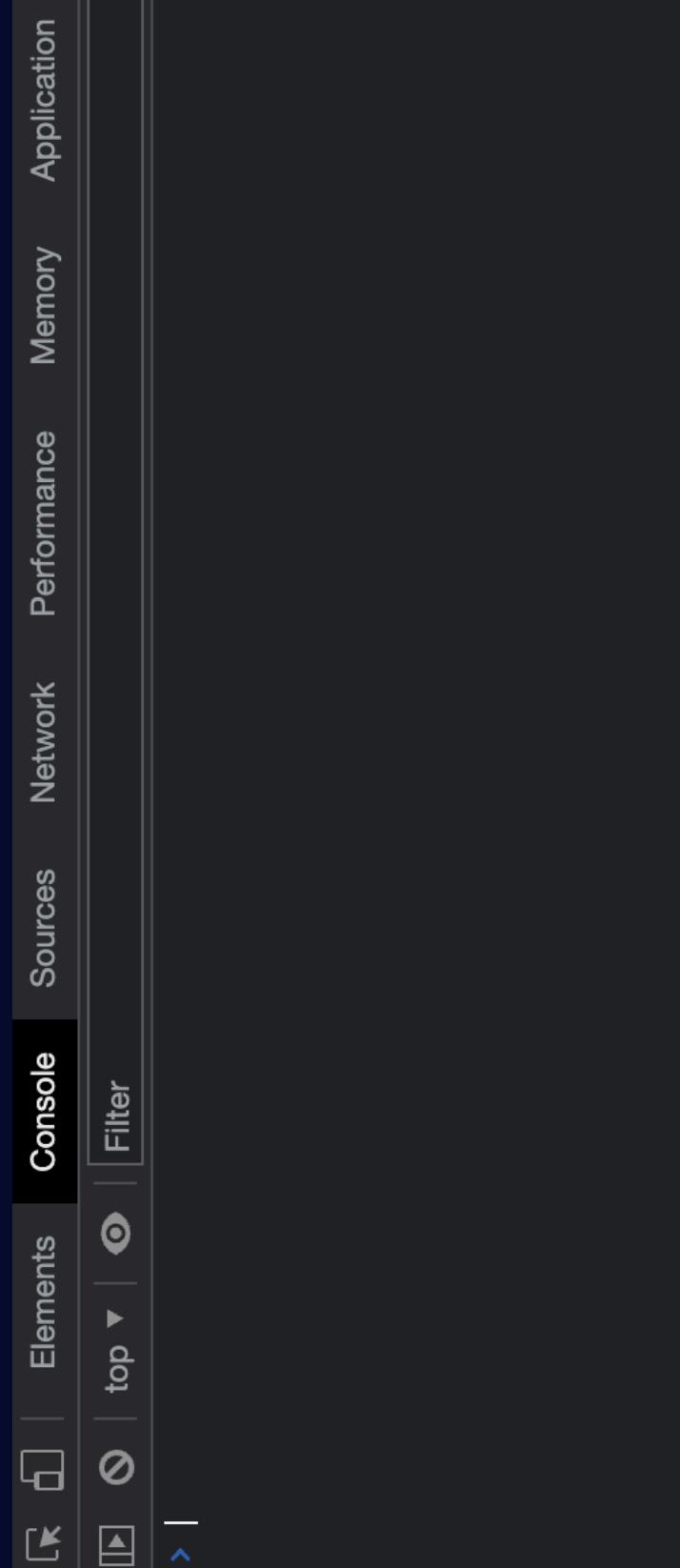
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JS

console.log()



The console.log() is a function in JavaScript which is used to print any kind of variables



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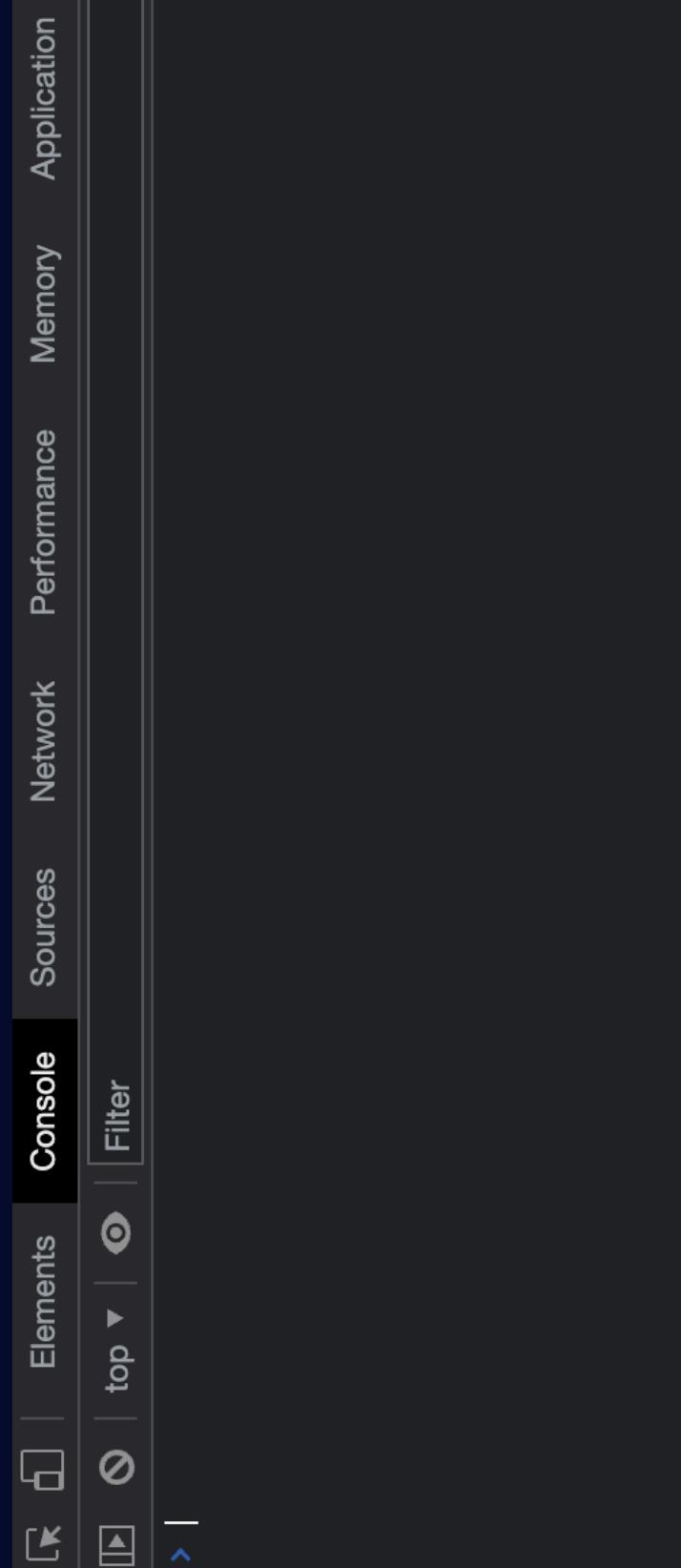


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console.log()

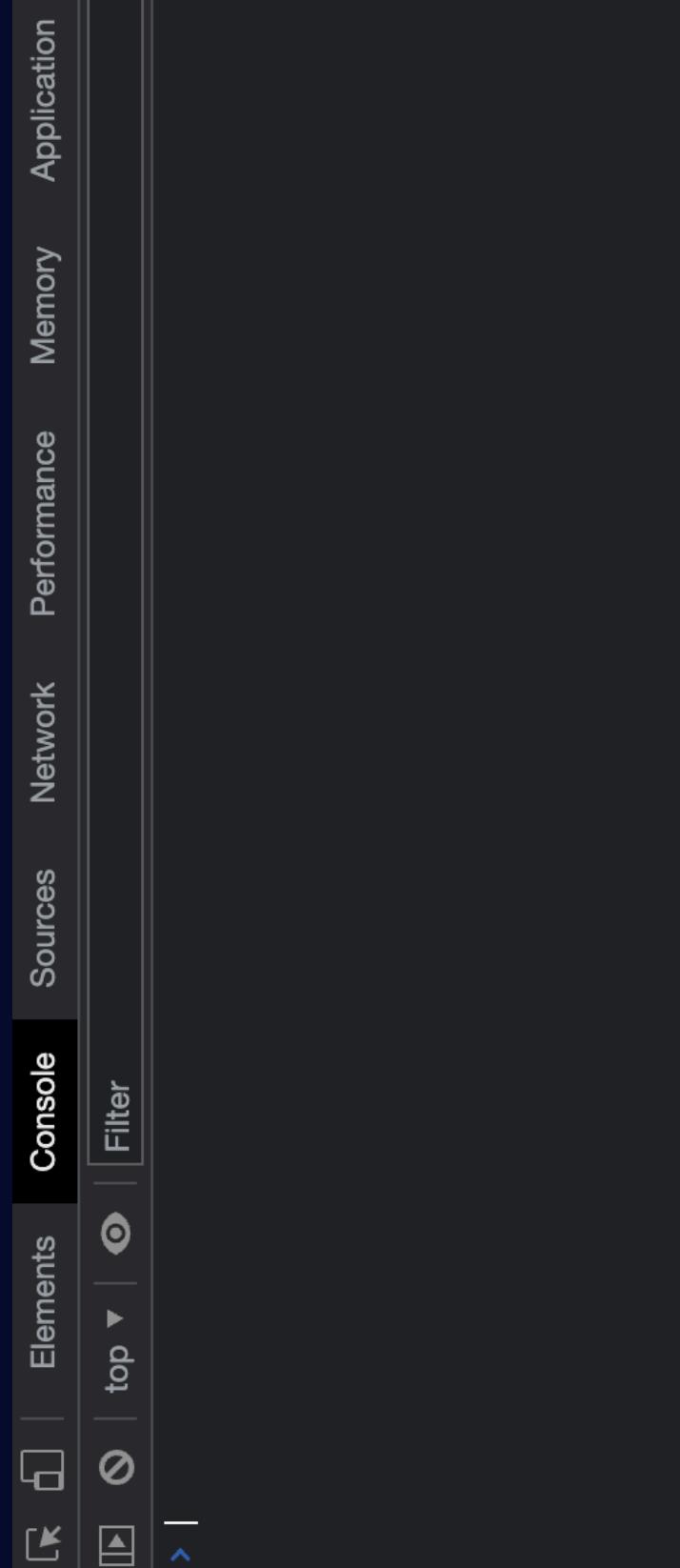


The console.log() is a function in JavaScript which is used to print any kind of variables

It is like a command-line interface that runs JavaScript on your JavaScript engine.

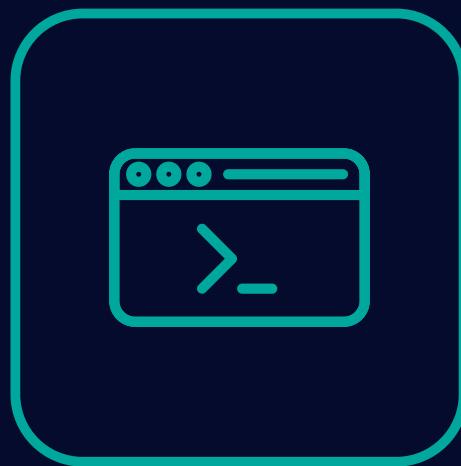


console.log()

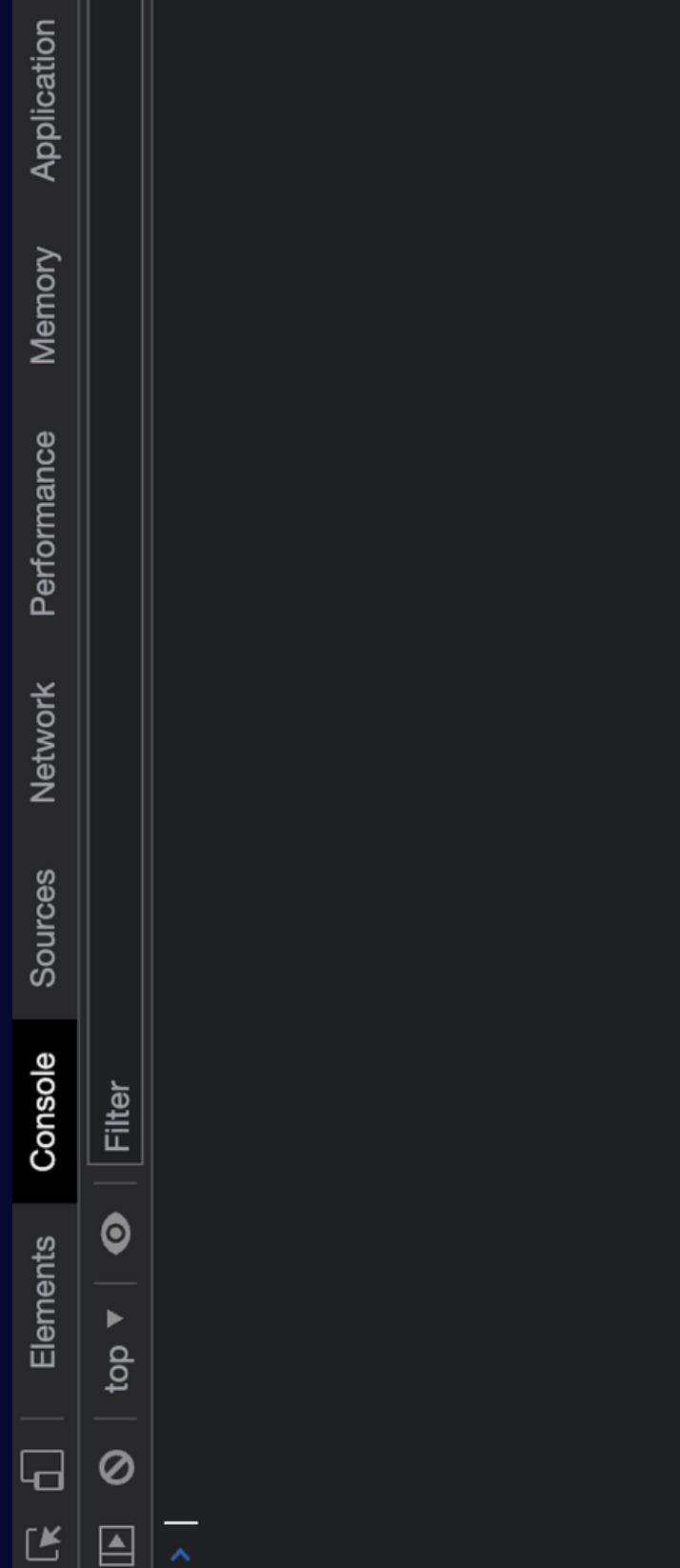


The console.log() is a function in JavaScript which is used to print any kind of variables

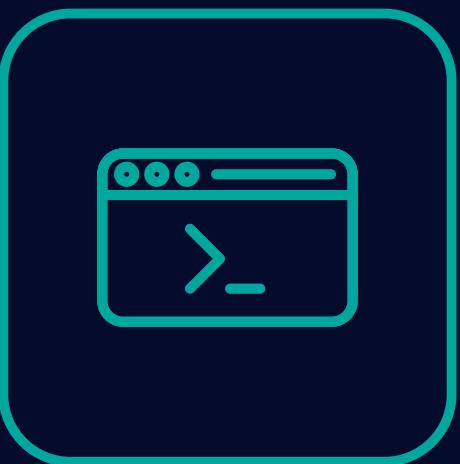
It is like a command-line interface that runs JavaScript on your JavaScript engine.



console.log()



- The console.log() is a function in JavaScript which is used to print any kind of variables
- It is like a command-line interface that runs JavaScript on your JavaScript engine.
- read-eval-print loop (REPL). This refers to the loop that the console runs



JS

Features of javascript



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js

Features of javascript



It's a single threaded language



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JS

Features of javascript



It's a single threaded language

It's a dynamically typed language



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Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language



Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language

It's a garbage collector



Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language

It's a garbage collector

It's a client-side language



Features of javascript



It's a single threaded language

It's a dynamically typed language

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Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language

It's a garbage collector

It's a client-side language

It's a server-side language

It's a non-blocking



Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language

It's a garbage collector

It's a client-side language

It's a server-side language

It's a non-blocking

It's a high-level language



Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language

It's a garbage collector

It's a client-side language

It's a server-side language

It's a non-blocking

It's a high-level language



This means that js executes the code line by line.



Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language

It's a garbage collector

It's a client-side language

It's a server-side language

It's a non-blocking

It's a high-level language



This means that the type of a variable can change during the program execution



Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language

It's a garbage collector

It's a client-side language

It's a server-side language

It's a non-blocking

It's a high-level language



It's a programming paradigm that uses objects as the primary way of representing data which uses Prototypal Inheritance



Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language

It's a garbage collector

It's a client-side language

It's a server-side language

It's a non-blocking

It's a high-level language

It's a process that frees up memory by removing objects that are no longer used in the program and it's called garbage collection.



Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language

It's a garbage collector

It's a client-side language

It's a server-side language

It's a non-blocking

It's a high-level language

Using javascript in the browser



Features of javascript



It's a single threaded language

It's a dynamically typed language

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It's a garbage collector

It's a client-side language

It's a server-side language

It's a non-blocking

It's a high-level language

Using javascript on the server



Features of javascript



It's a single threaded language

It's a dynamically typed language

object-oriented language

It's a garbage collector

It's a client-side language

It's a server-side language

It's a non-blocking

It's a high-level language

It's a code that runs concurrently in the background with the help of event loop



Features of javascript



High-level language



For high level programming languages like JavaScript, Python, Ruby, etc. resources management are done automatically



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Features of javascript



High-level language

multi paradigm language



This a coding approach to structure code

1. Functional programming
2. Object oriented programming
3. Procedural programming



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JS

V8 Engine



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JS

V8 Engine



V8 Engine



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JS

V8 Engine



Javascript engine is a computer program that runs javascript code



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V8 Engine



Javascript engine is a computer program that runs javascript code

Computers only understand machine code.



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V8 Engine



Javascript engine is a computer program that runs javascript code

Computers only understand machine code.

```
101001100010111  
000111010111001  
011010101001010  
110110110101010  
101010101001010
```



JS

Code execution process



V8 Engine



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Code execution process



V8 Engine

source code



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Code execution process



V8 Engine

source code

```
resp_iter = self._key.readmany(n)
statuses = {}
async for data in resp_iter:
    status = Status(
        status_id=data.id,
        name=data.name,
        statuses[status.name] = status
return statuses
```



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Code execution process



V8 Engine

source code

```
resp_iter = resp[key].responses[0]
status = {}
async for data in resp_iter:
    status = Status(
        status_id=data.id,
        name=data.name,
        statuses[status.name] = status
return statuses
```



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Code execution process



V8 Engine

source code



AST (abstract syntax tree)



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Code execution process



V8 Engine

source code



parser

AST (abstract syntax tree)



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Code execution process



V8 Engine

source code

parser



AST (abstract syntax tree)



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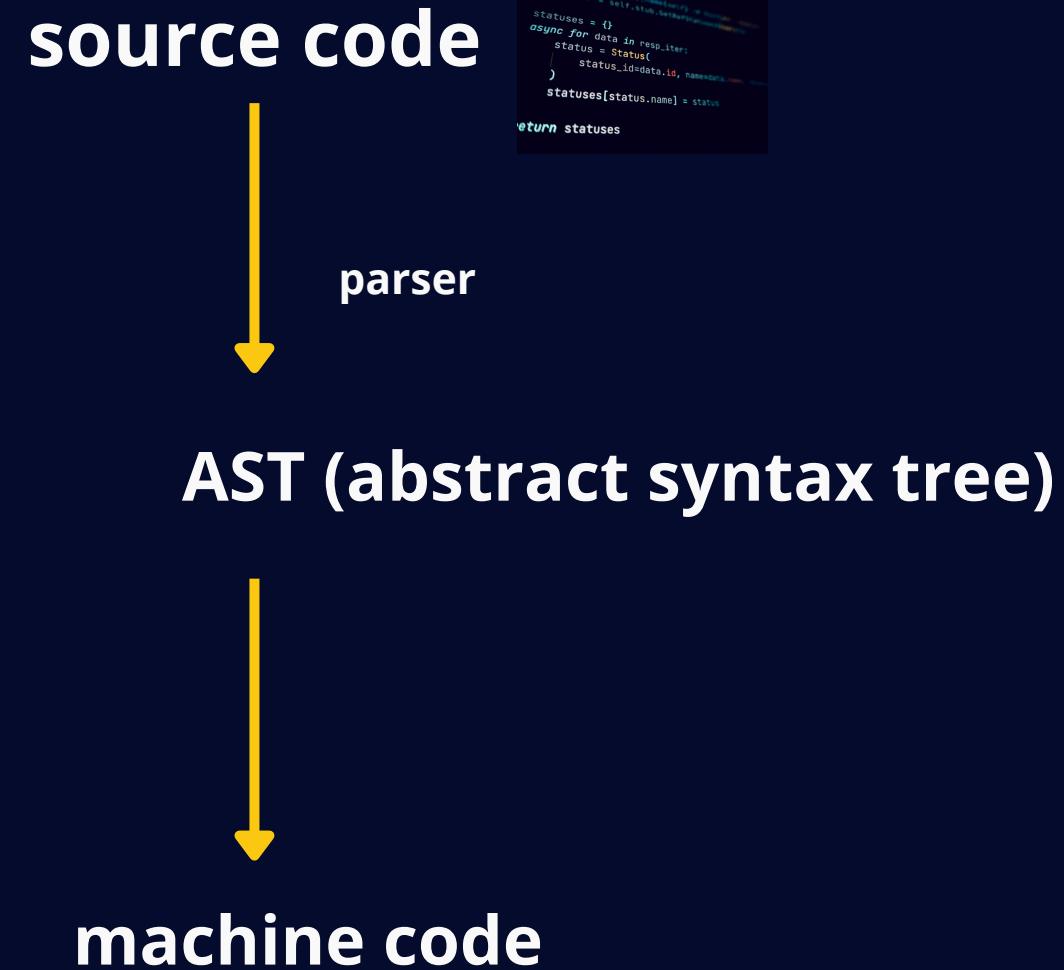


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Code execution process



V8 Engine



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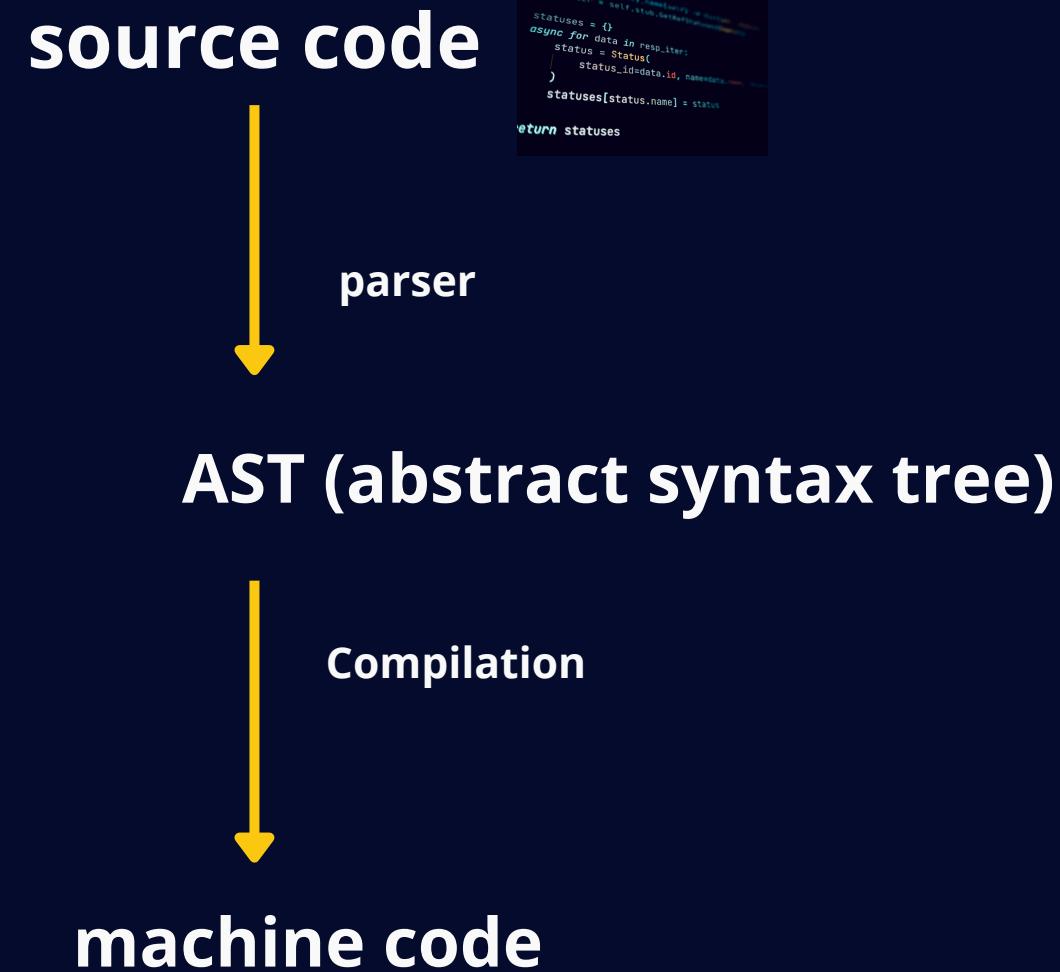


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Code execution process



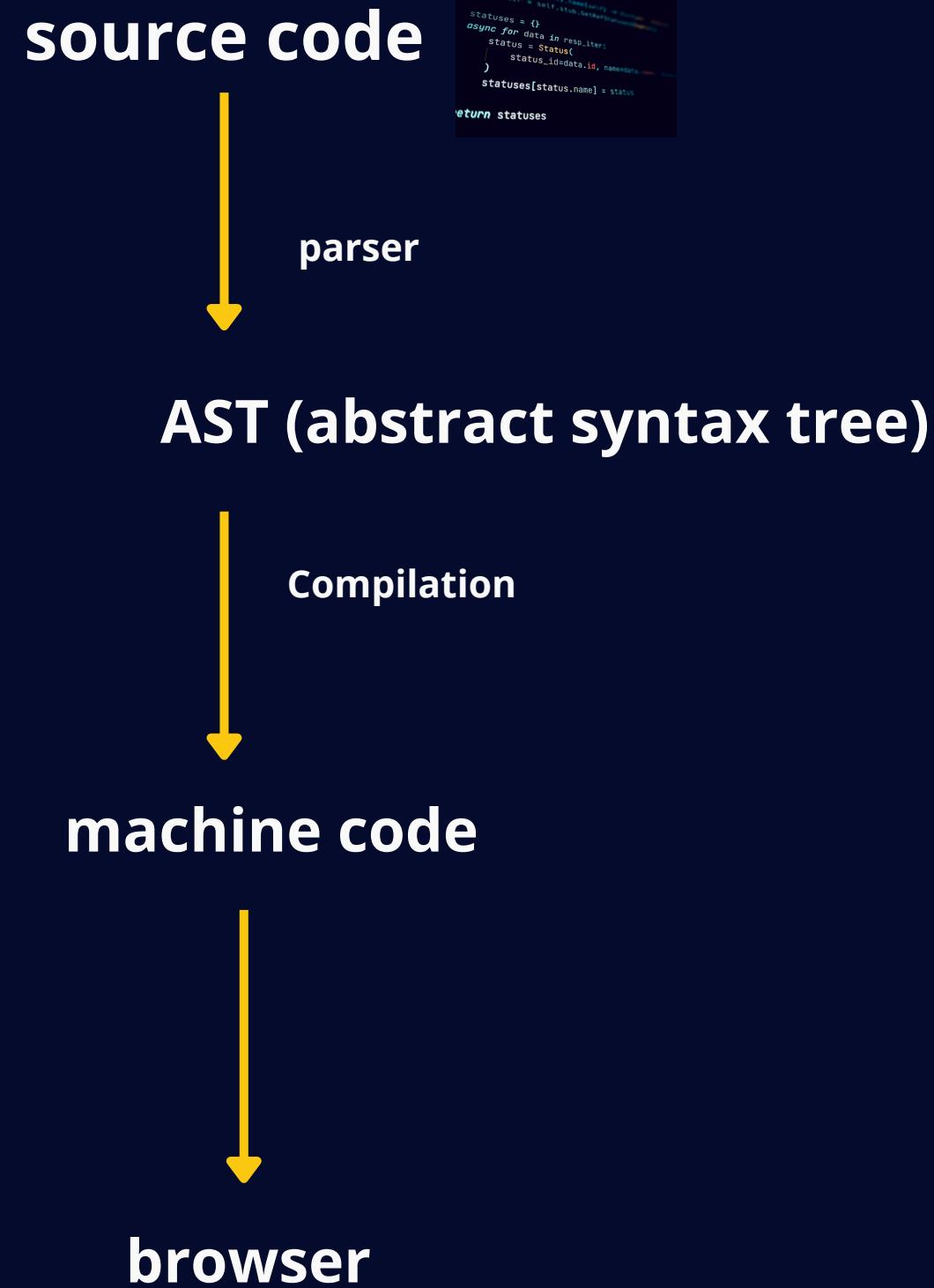
V8 Engine



Code execution process



V8 Engine



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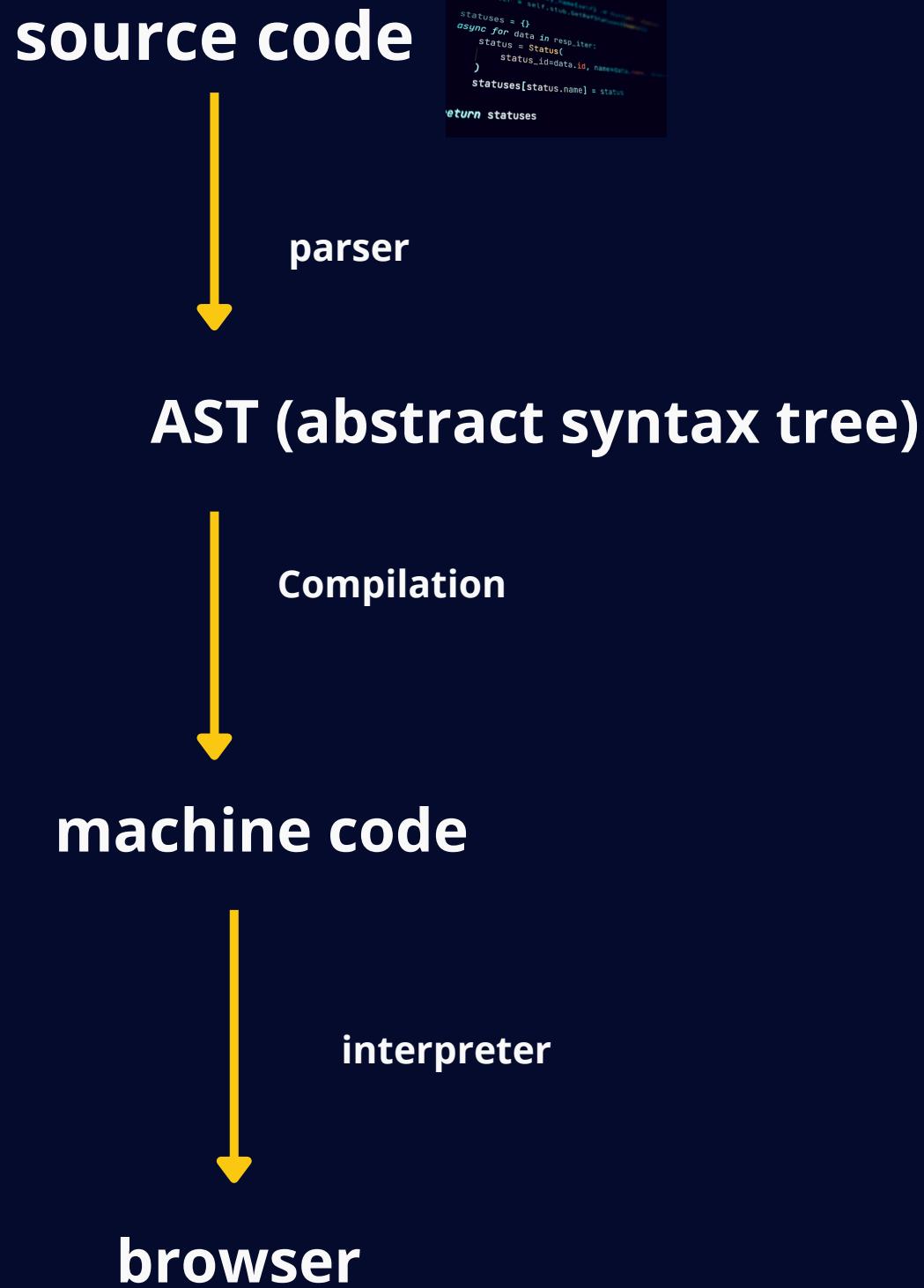


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Code execution process



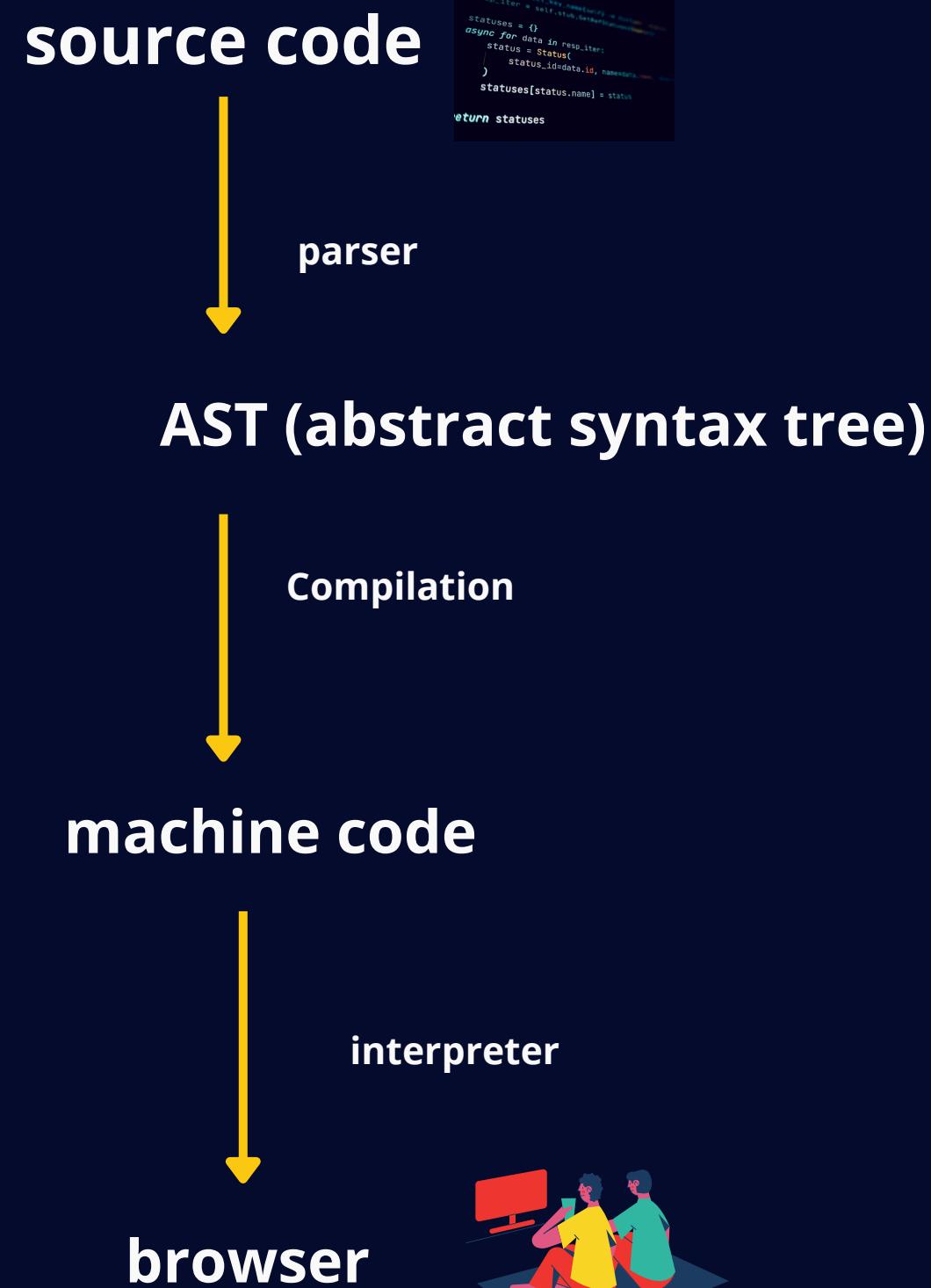
V8 Engine



Code execution process



V8 Engine



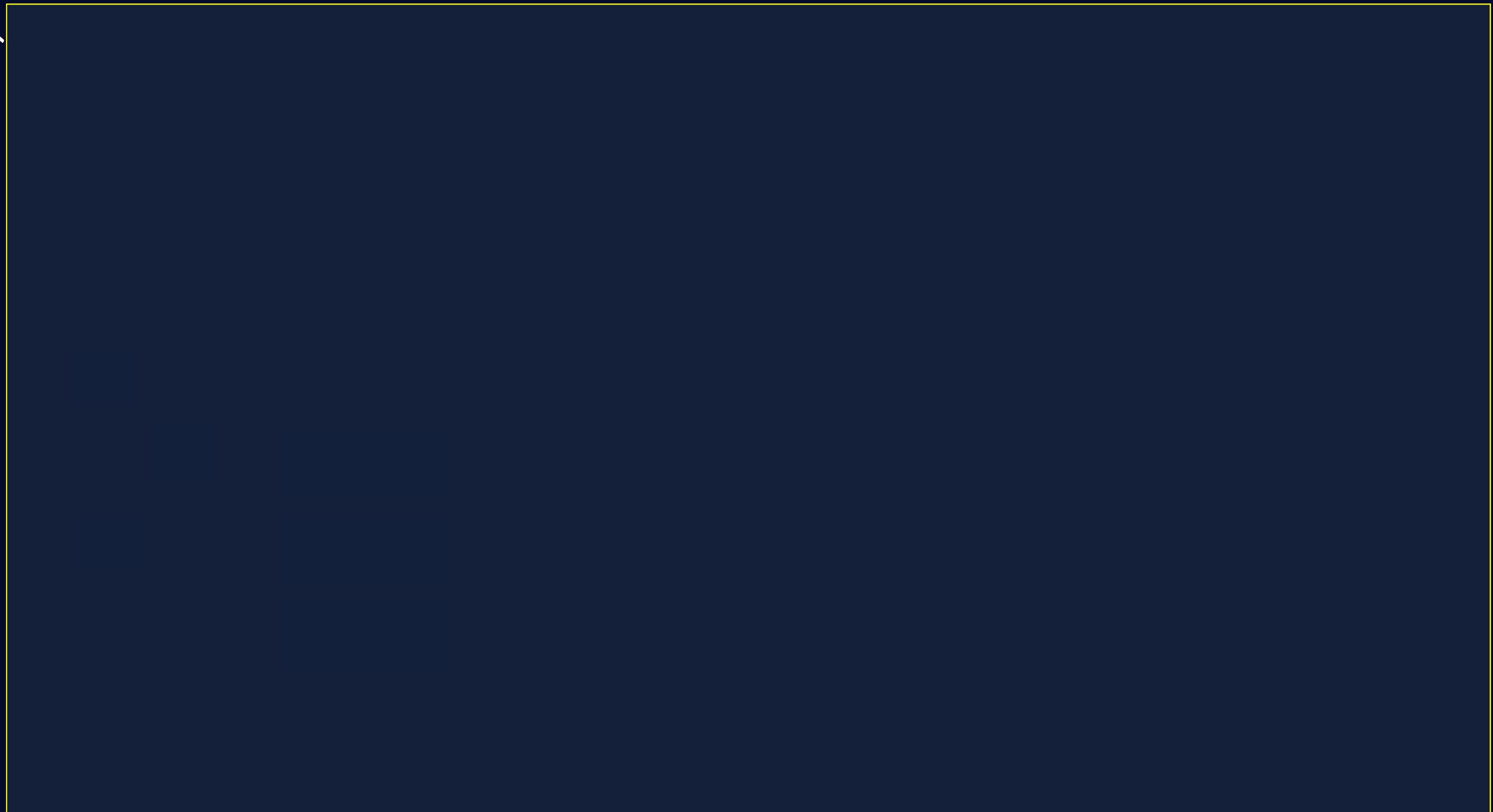
JS Runtime (Browser)



JS runtime, in a layman's point of view,
it's a box that contains all the things we
need to run our code.

JS

JS Runtime (Browser)



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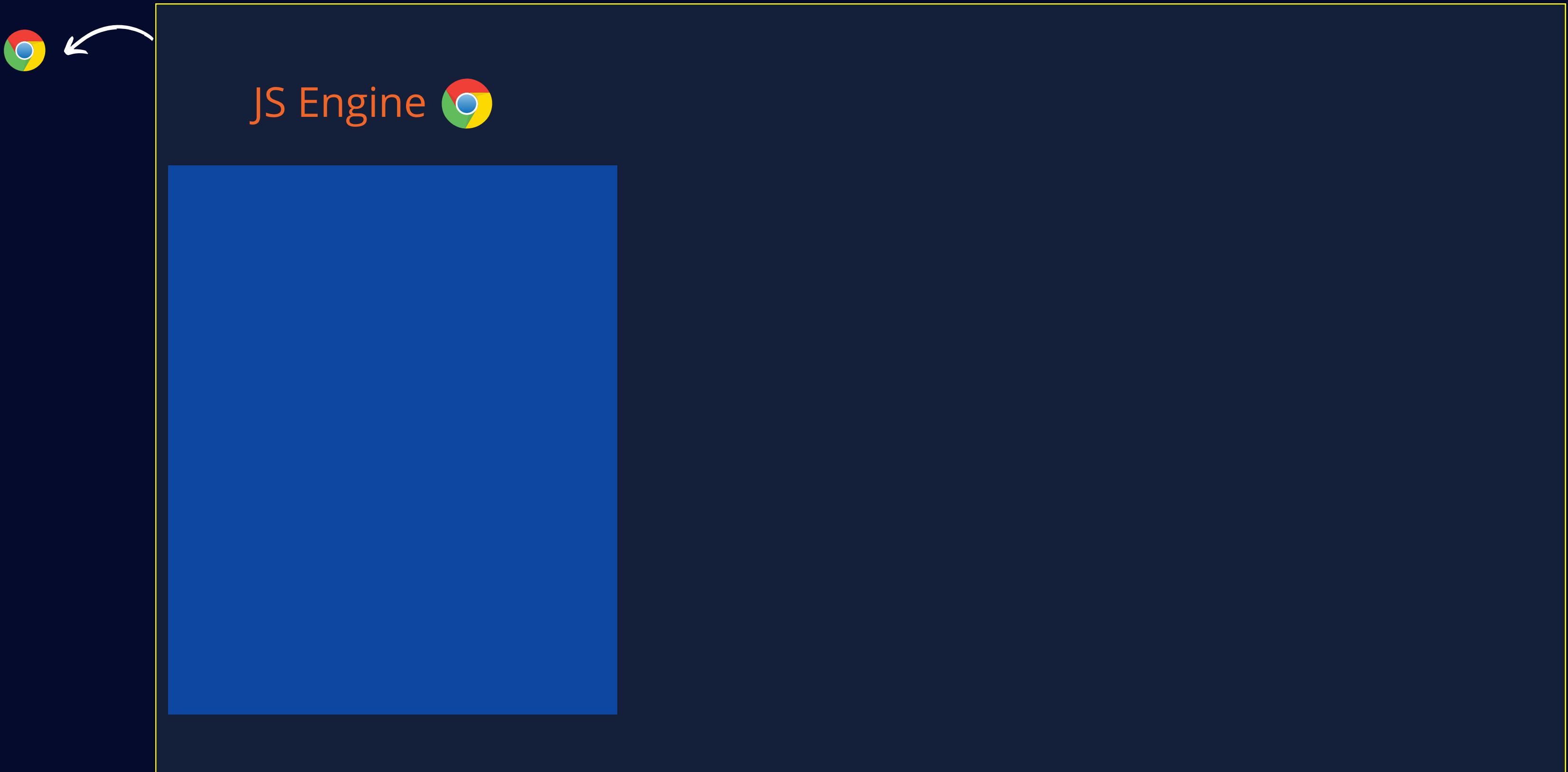
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JS

JS Runtime (Browser)



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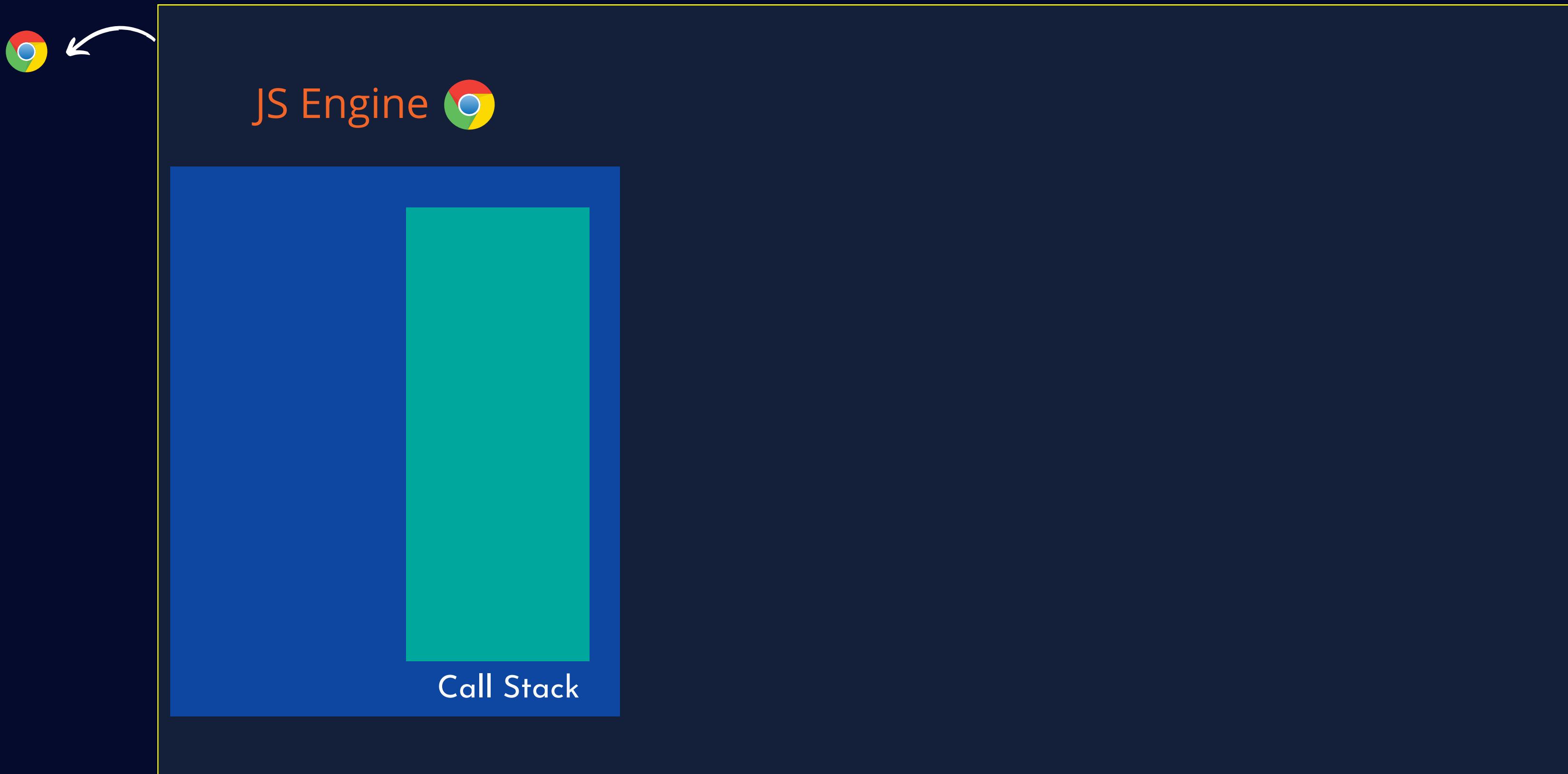
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JS

JS Runtime (Browser)



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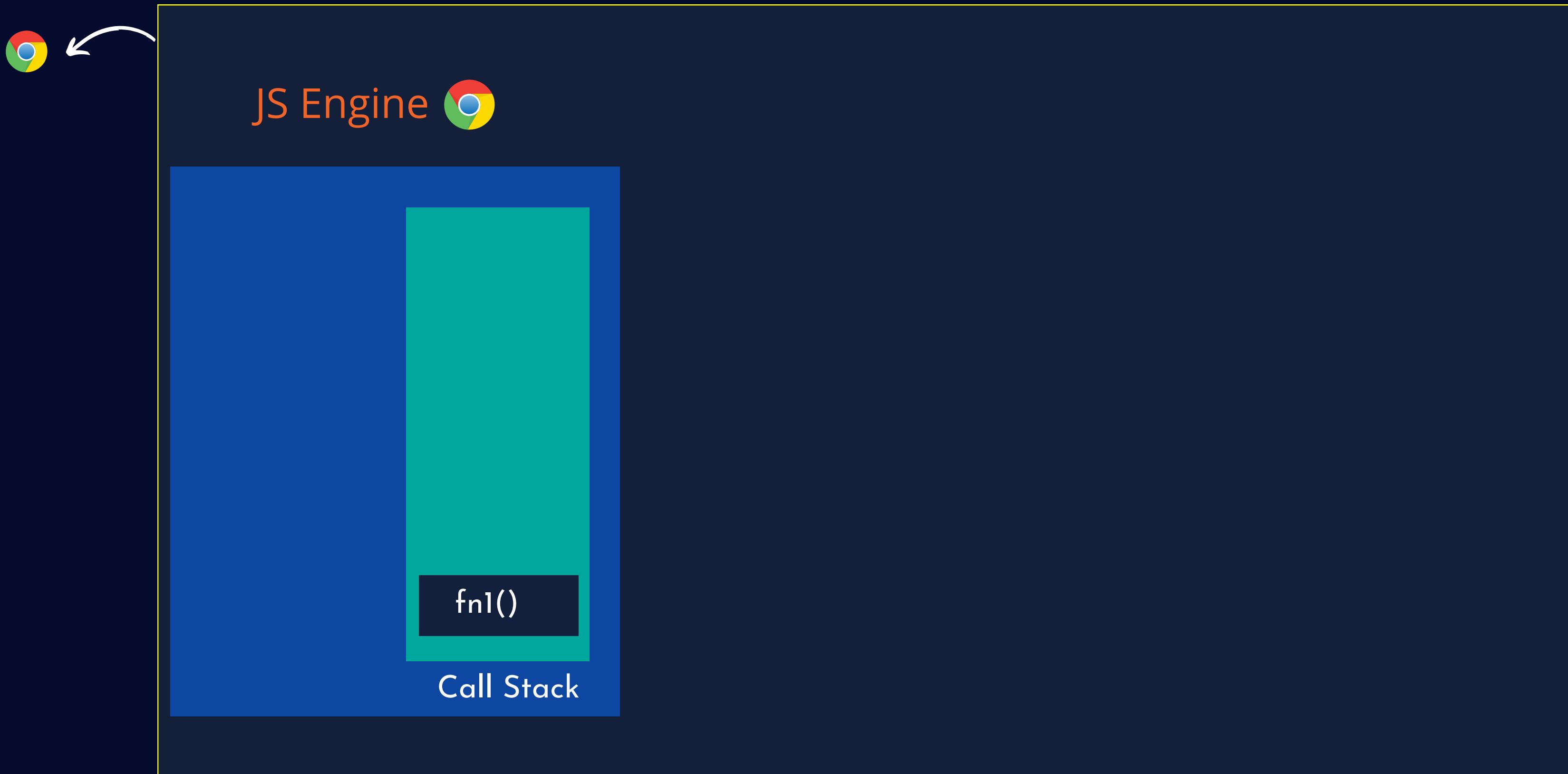
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JS

JS Runtime (Browser)



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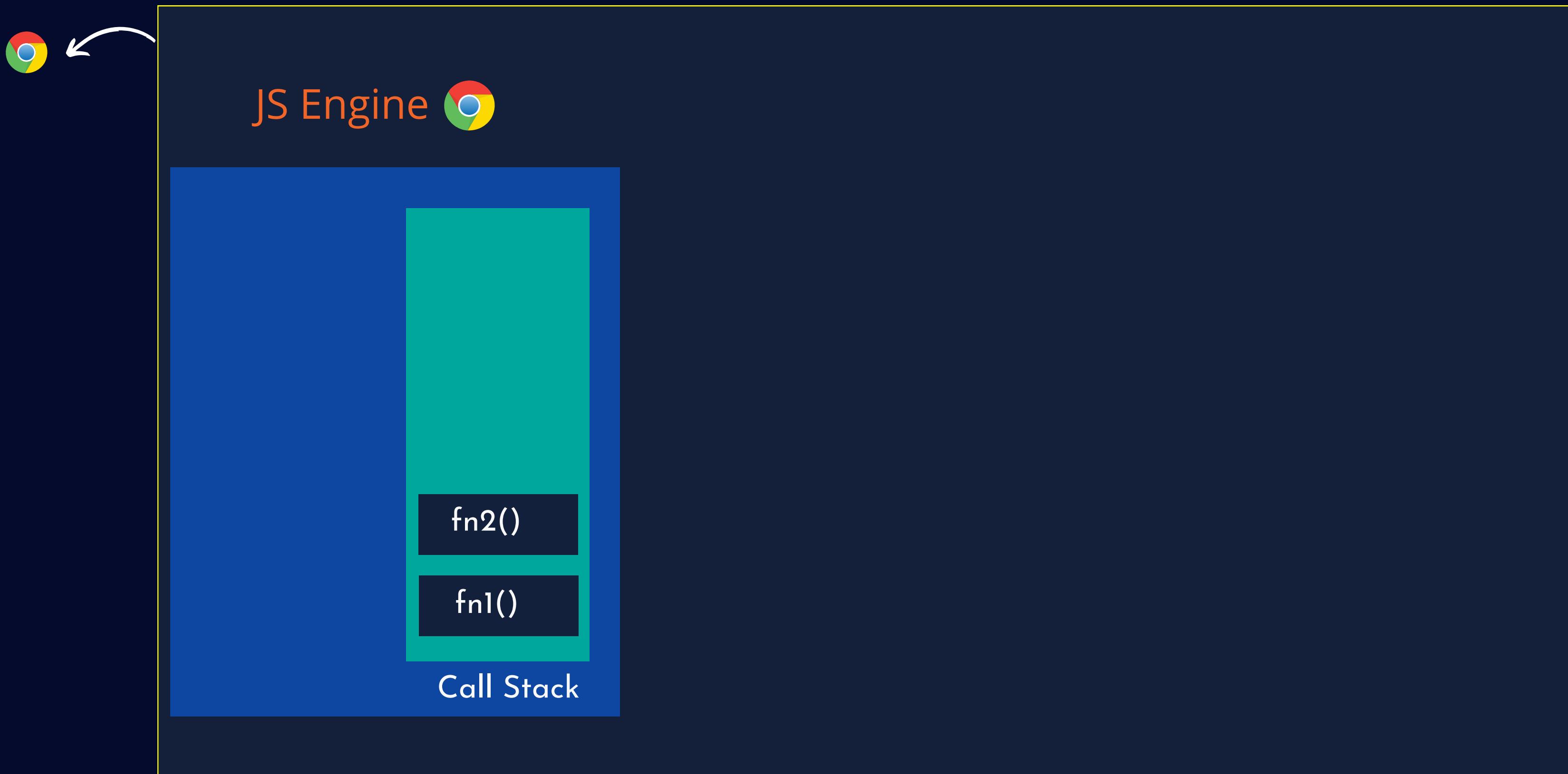
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JS

JS Runtime (Browser)



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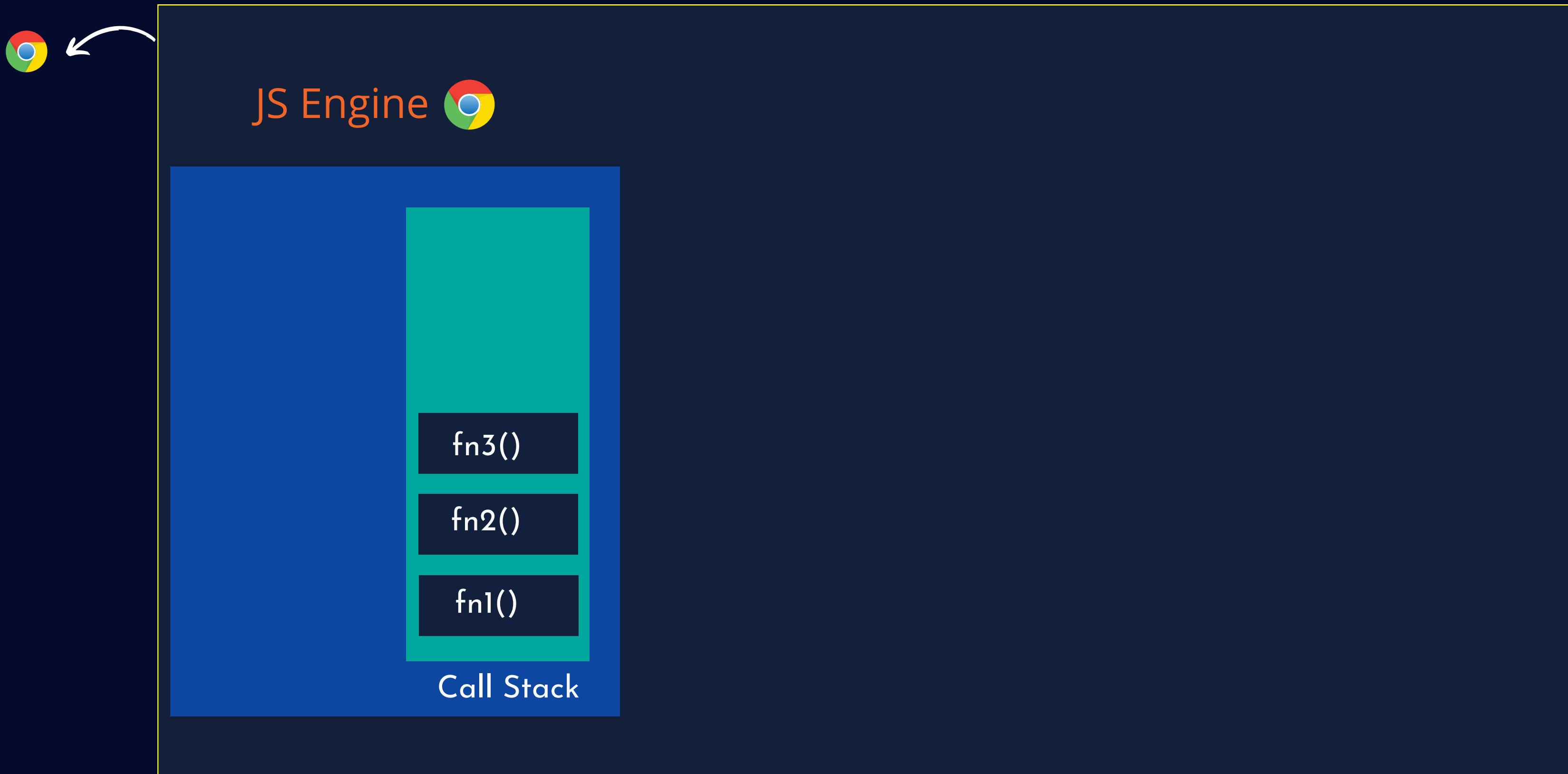


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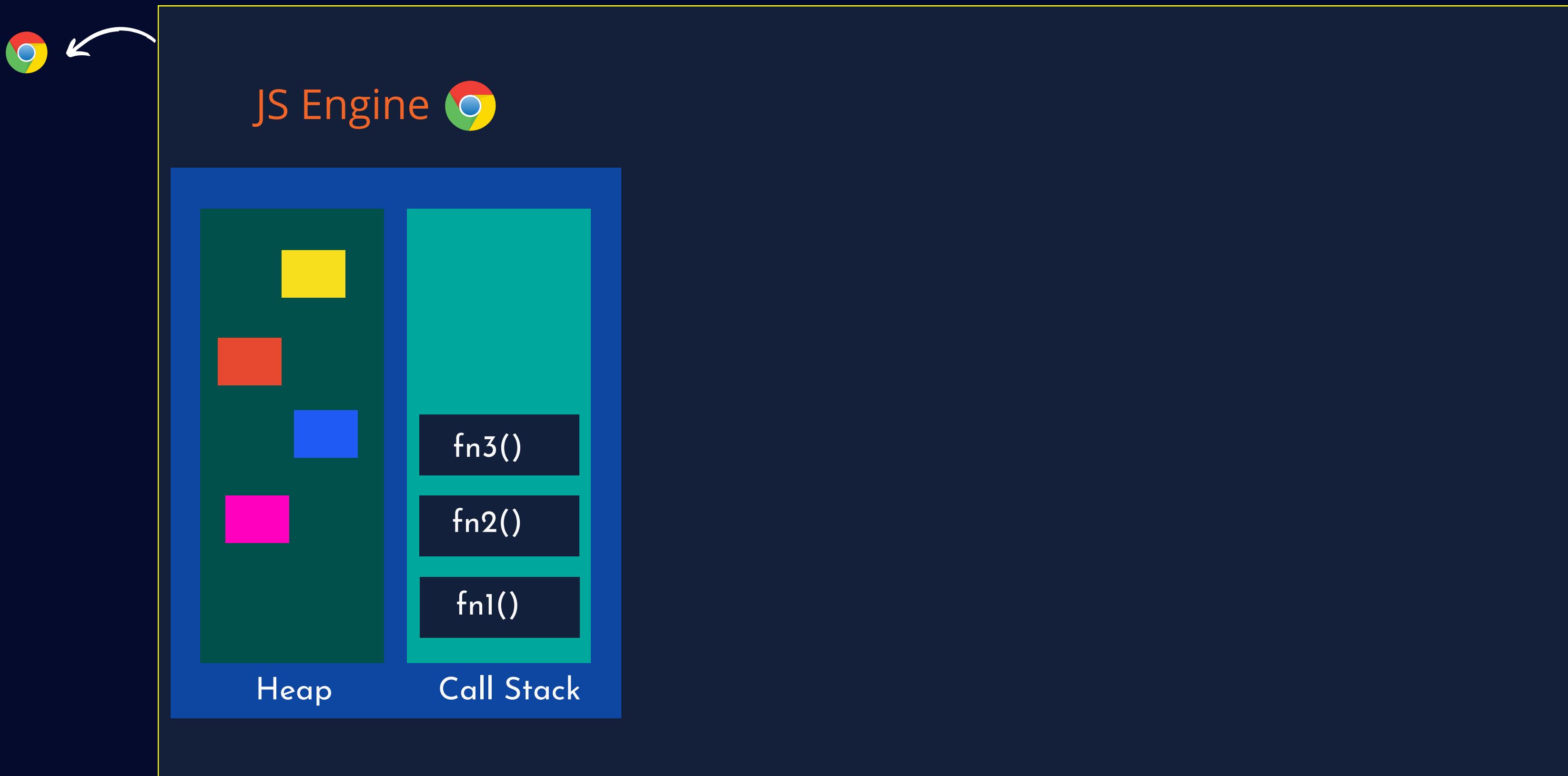


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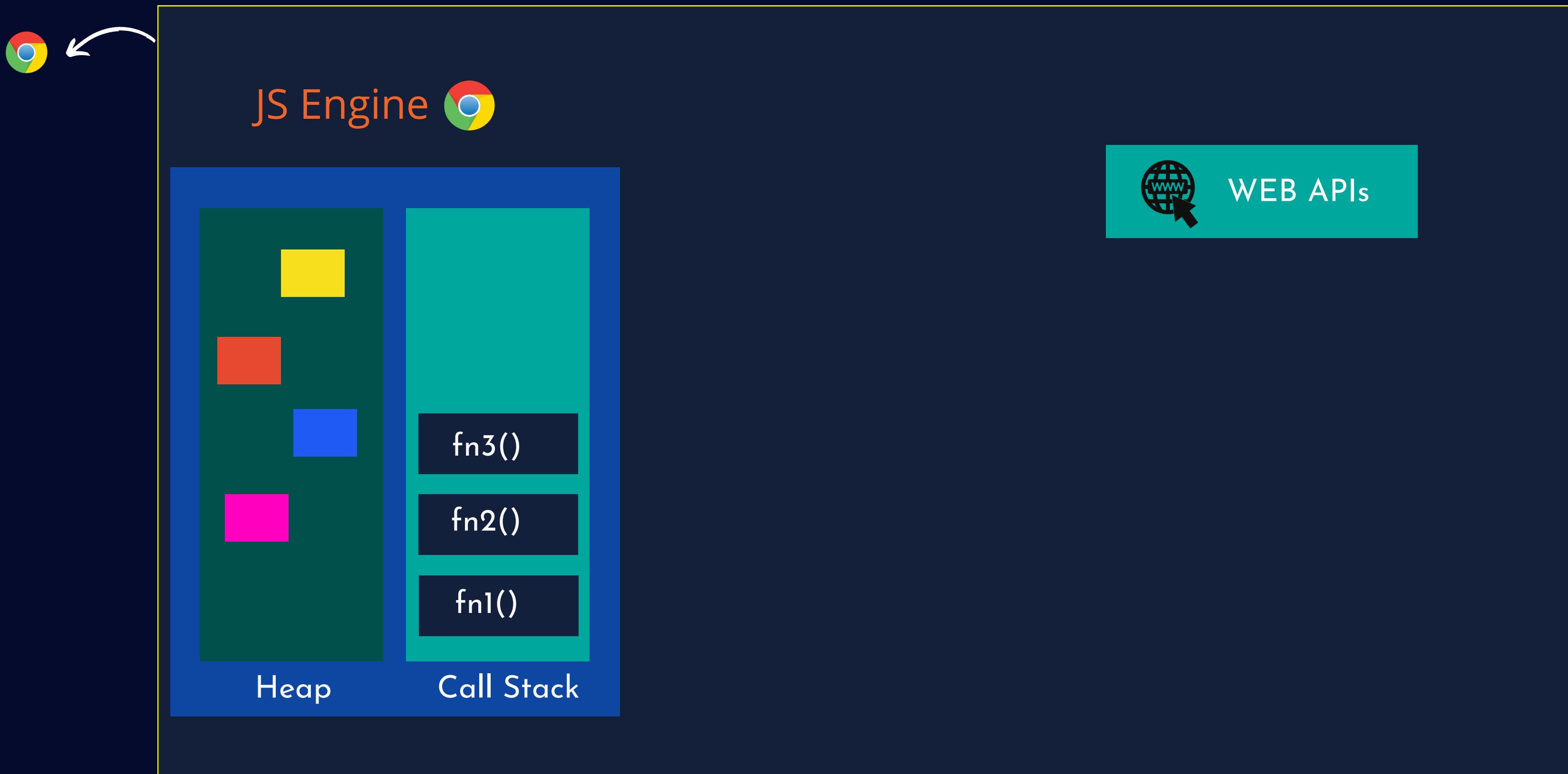
JS Runtime (Browser)



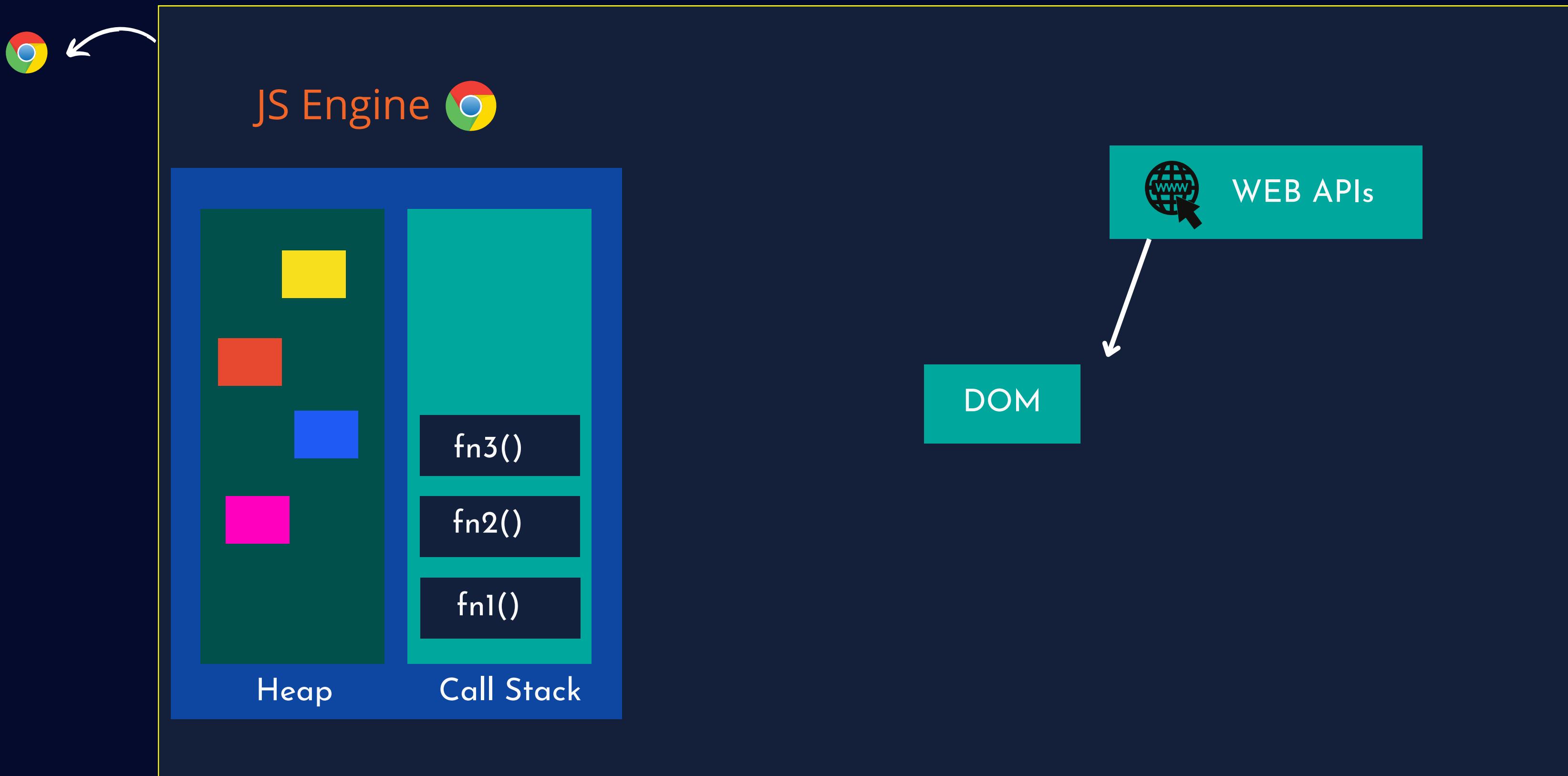
JS Runtime (Browser)



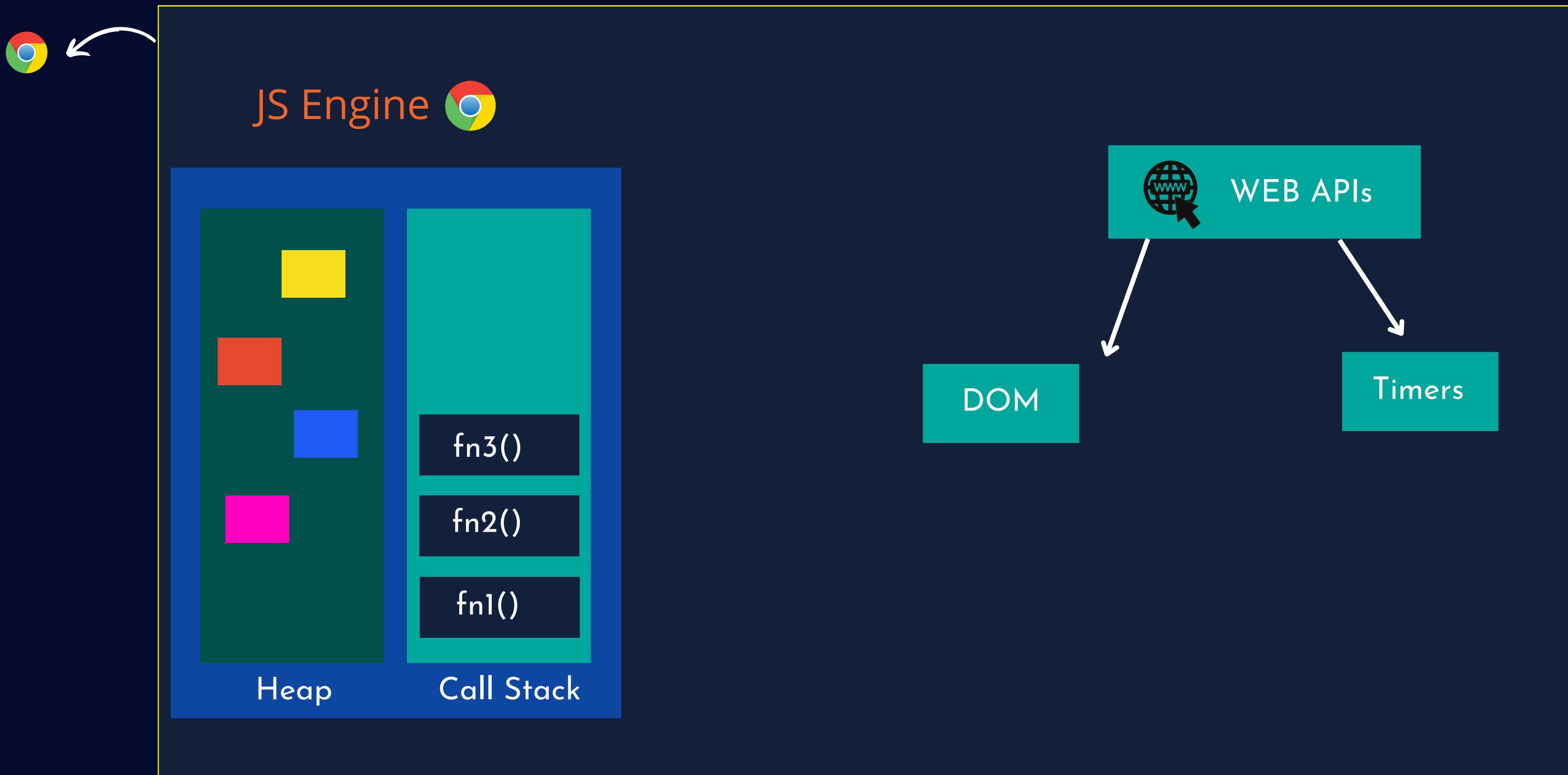
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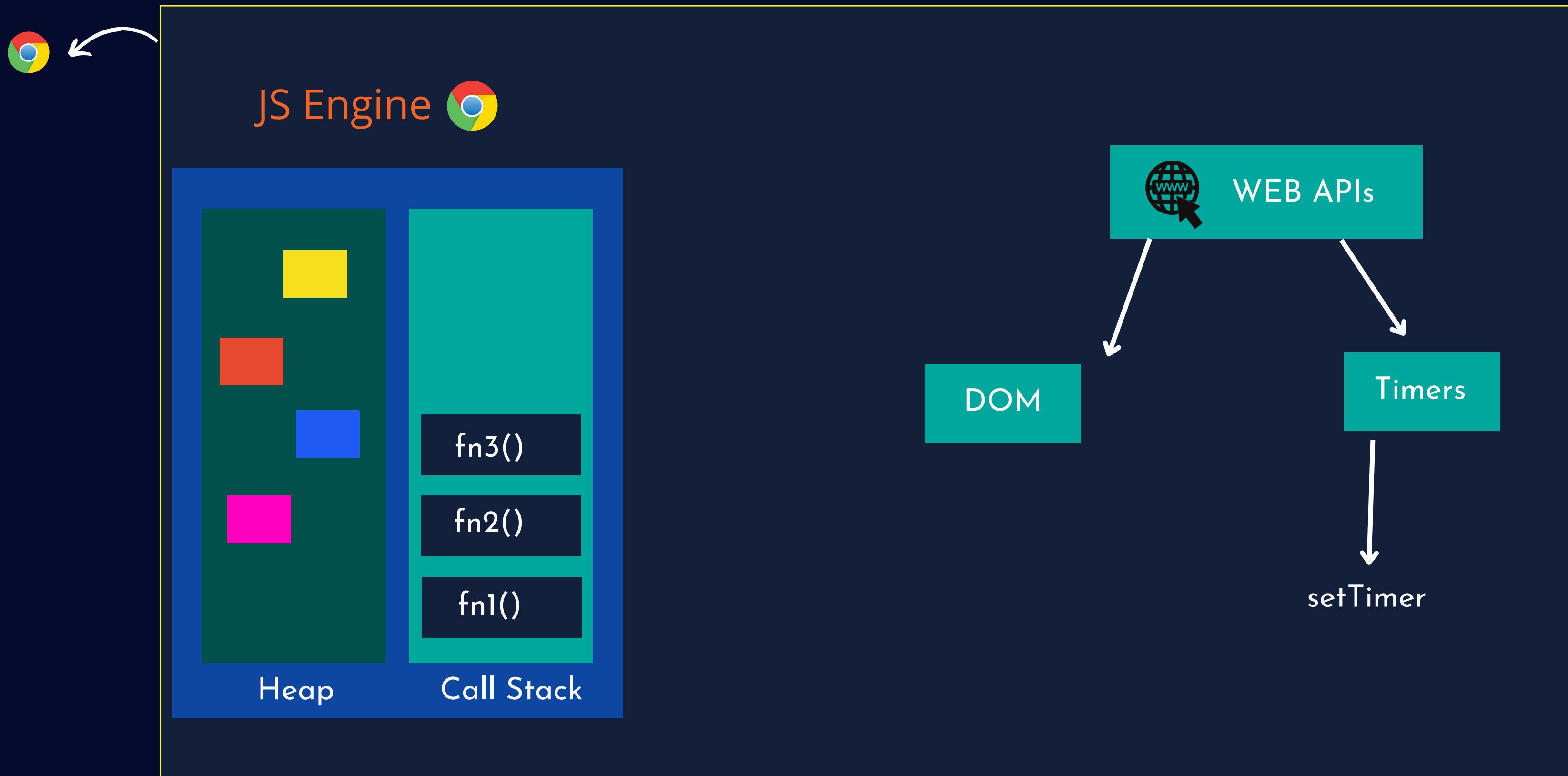
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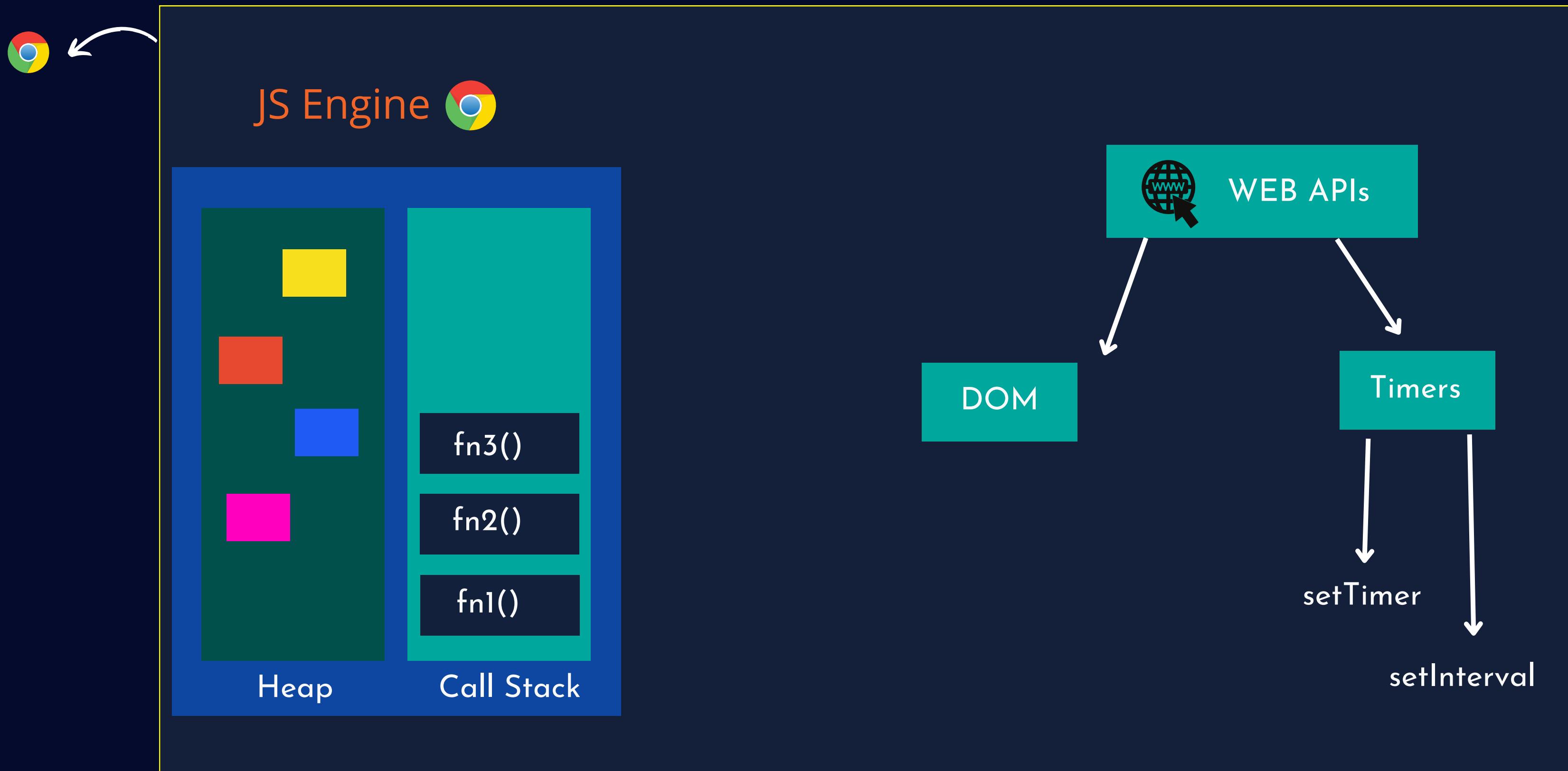
JS Runtime (Browser)



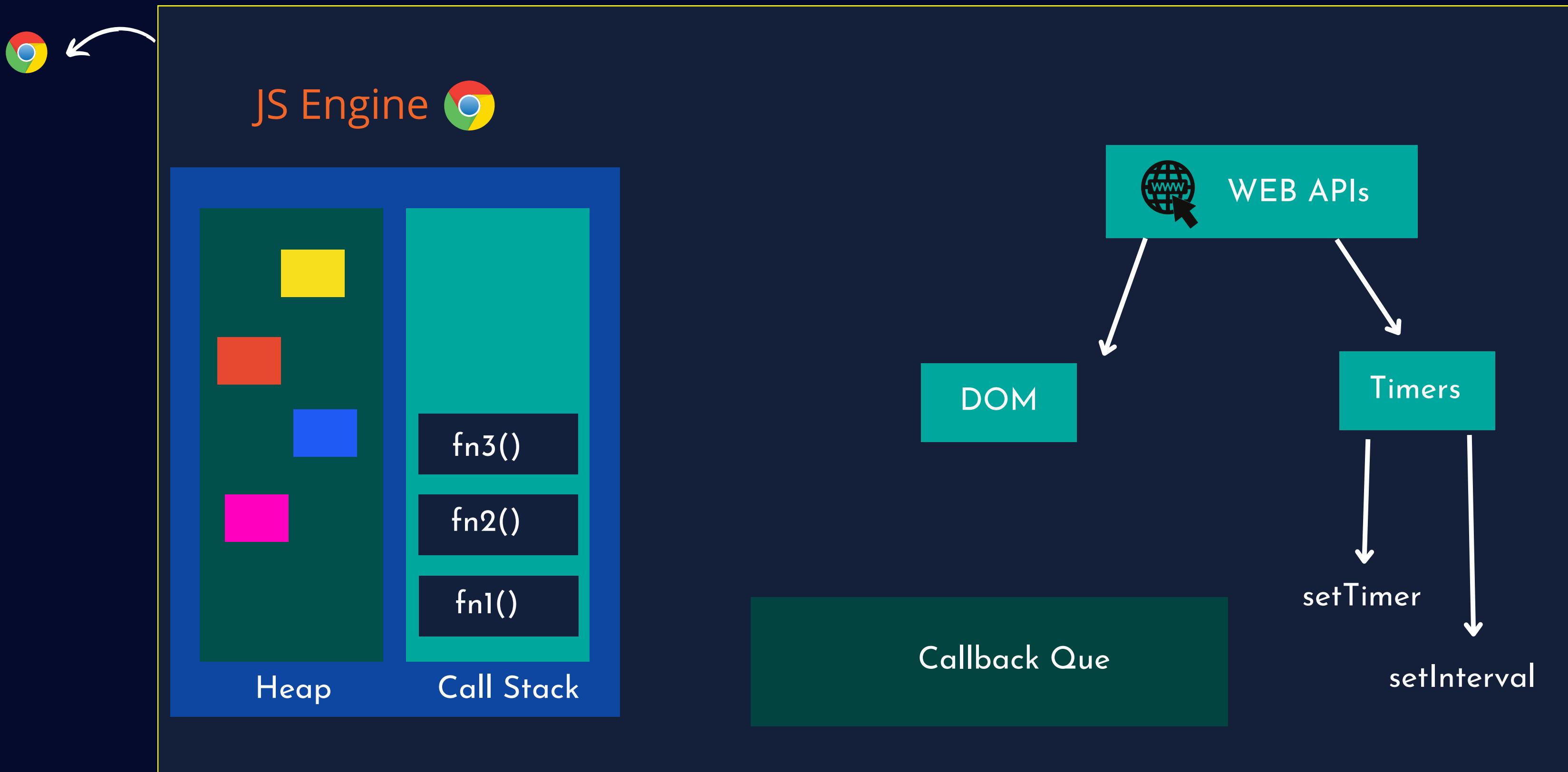
JS Runtime (Browser)



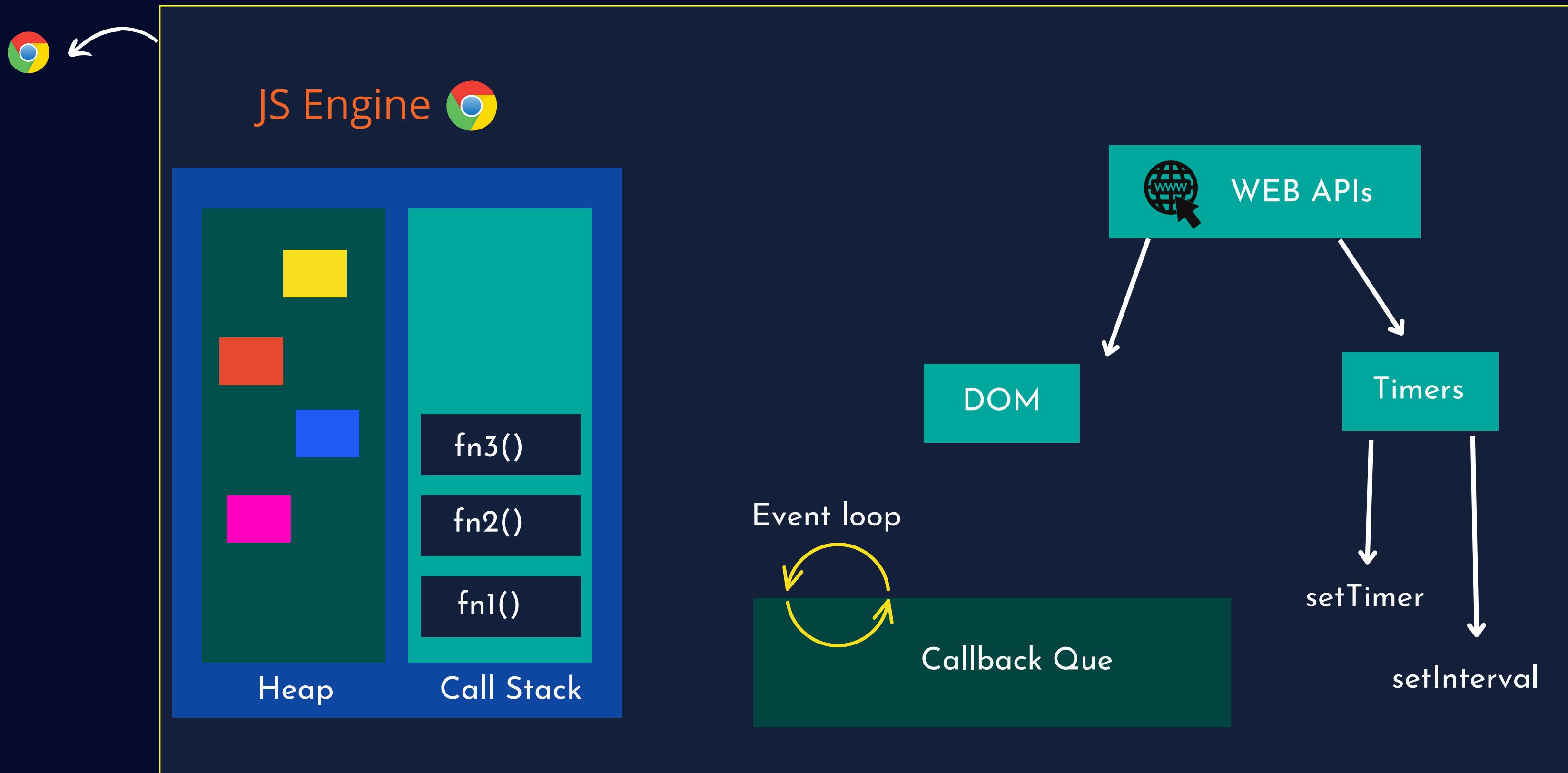
JS Runtime (Browser)



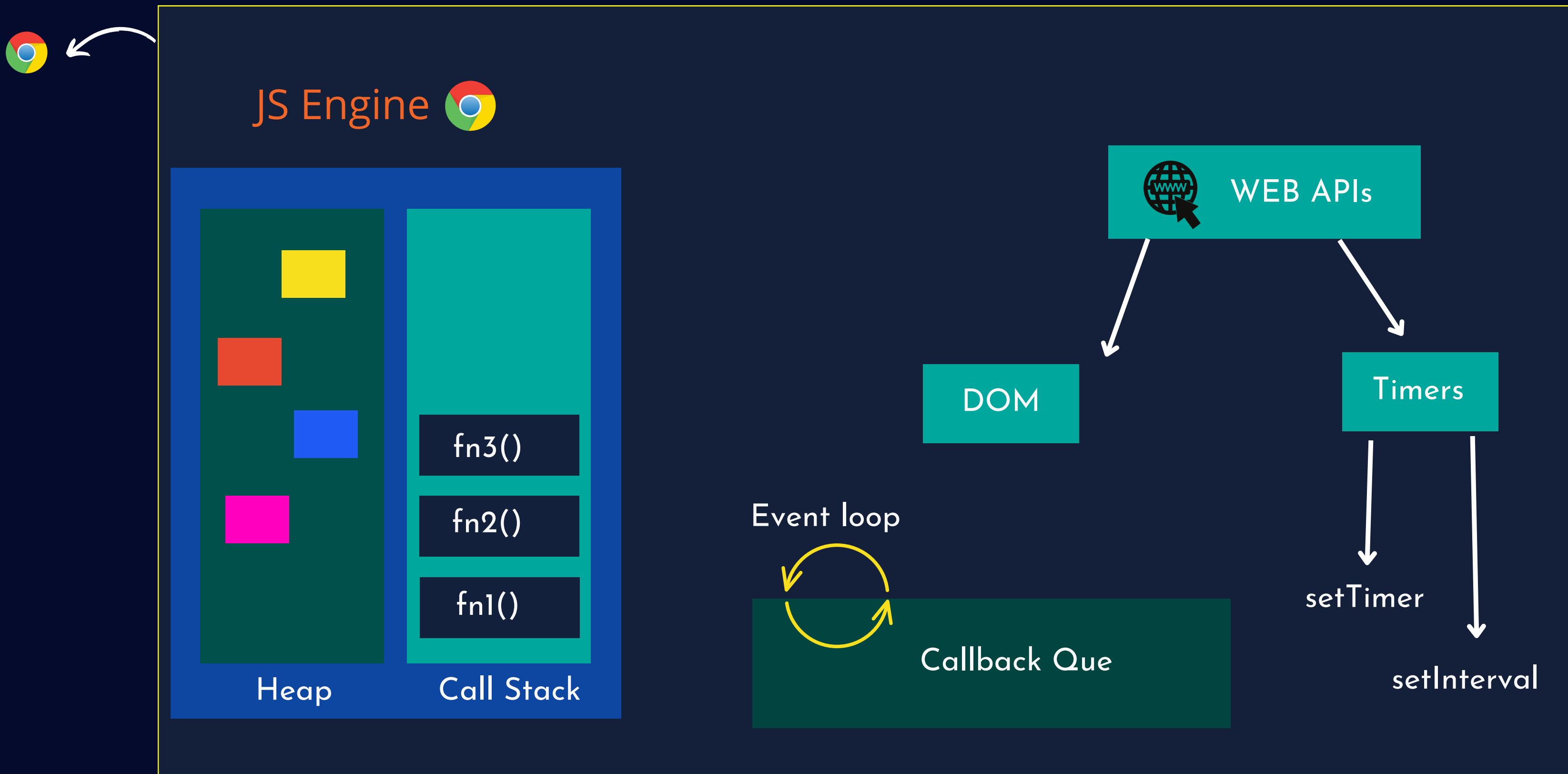
JS Runtime (Browser)



JS Runtime (Browser)



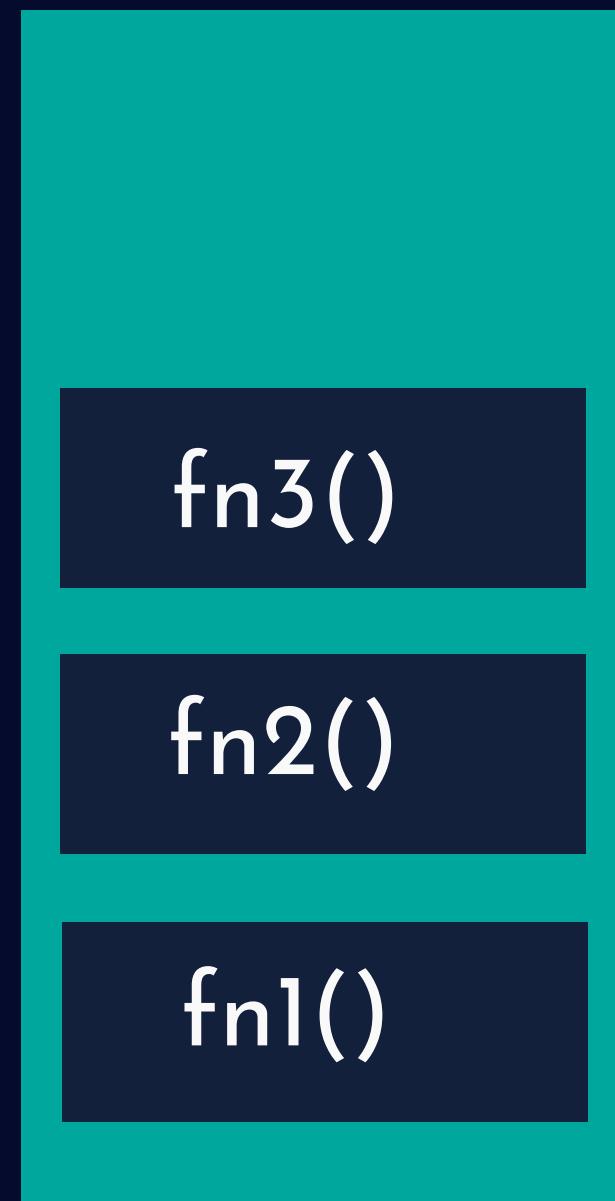
JS Runtime (Browser)



JS Callstack



Call Stack



Synchronous vs Asynchronous programming

Synchronous vs Asynchronous



Synchronous code is executed in a linear fashion, one line at a time. Asynchronous code, on the other hand, can be executed out of order or in parallel.



Synchronous

Single threaded

Code blocking

Handle one request at a time

Poor user experience

Asynchronous

Multi threaded

None blocking code

Handle multiple requests at a time

Improve user experience

Synchronous programming

single threaded



JS

Synchronous programming



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JS

Synchronous programming



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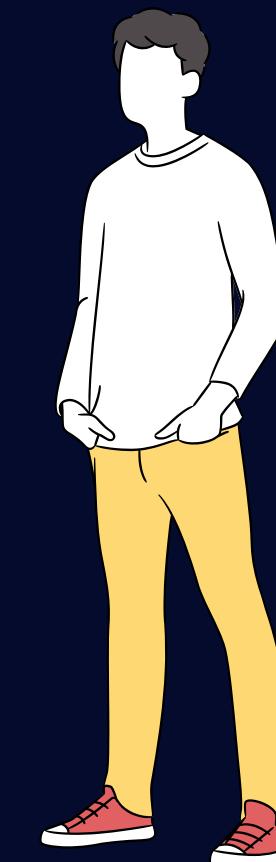
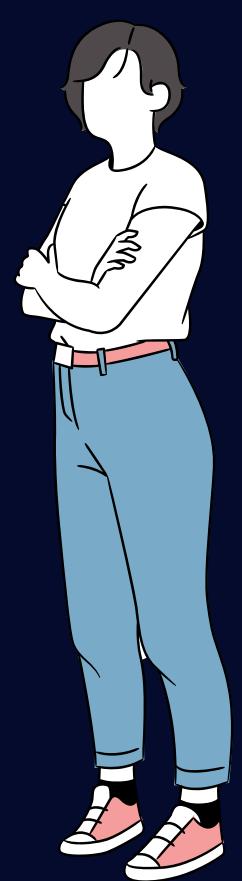
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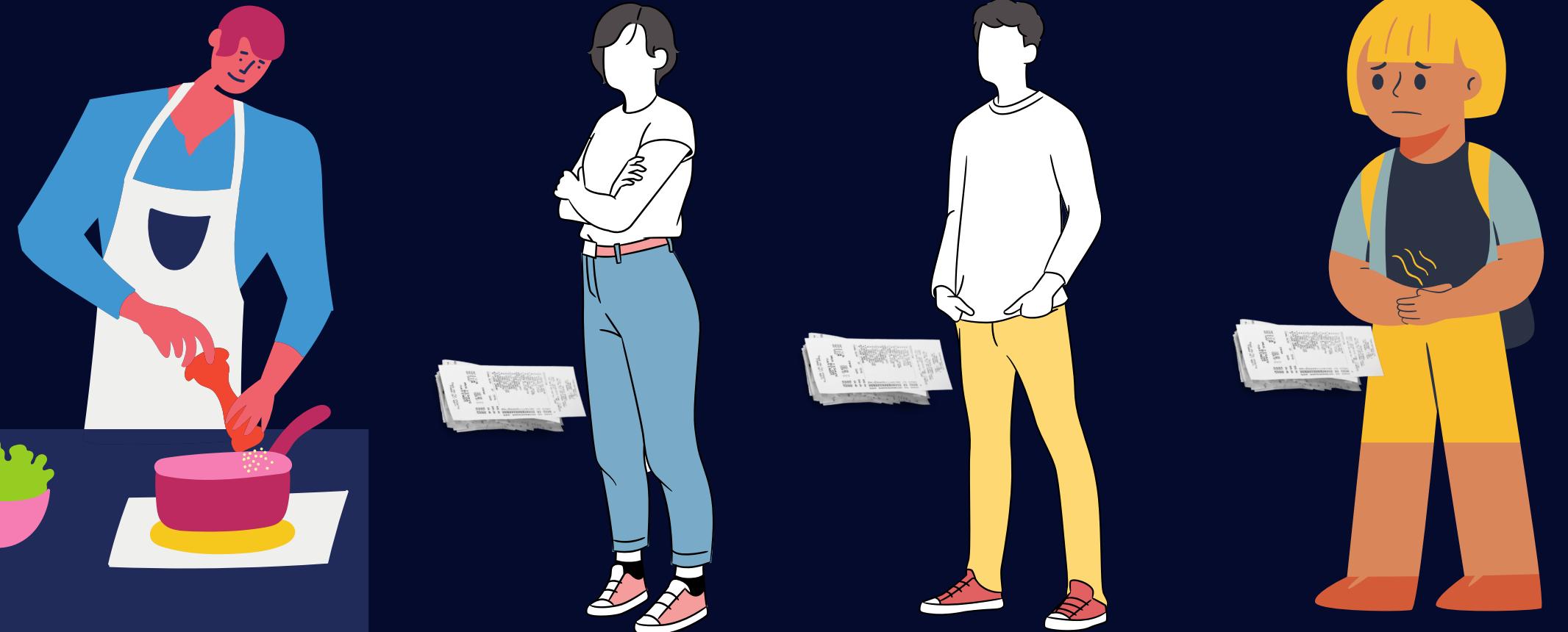
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JS

Synchronous programming



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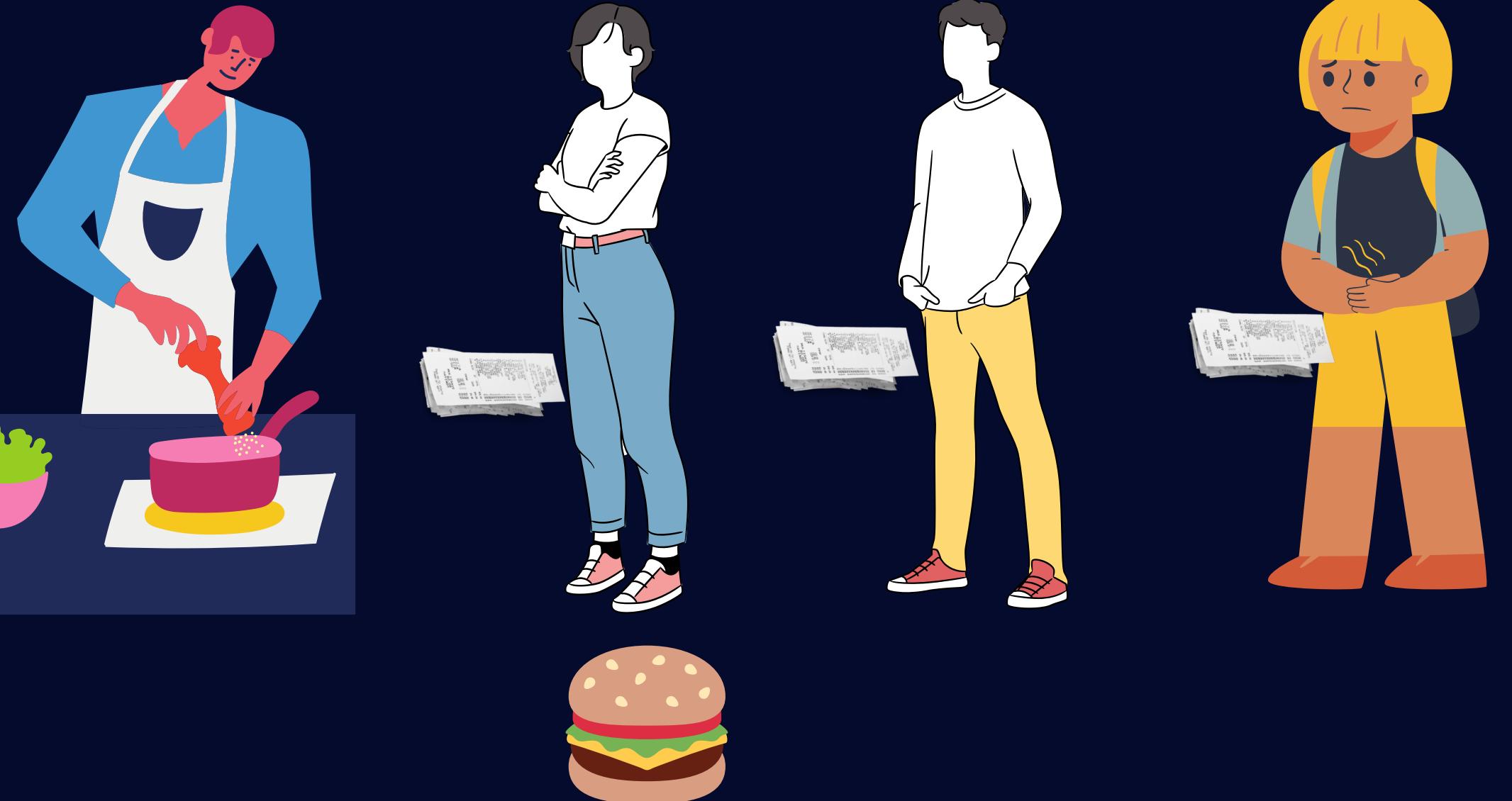
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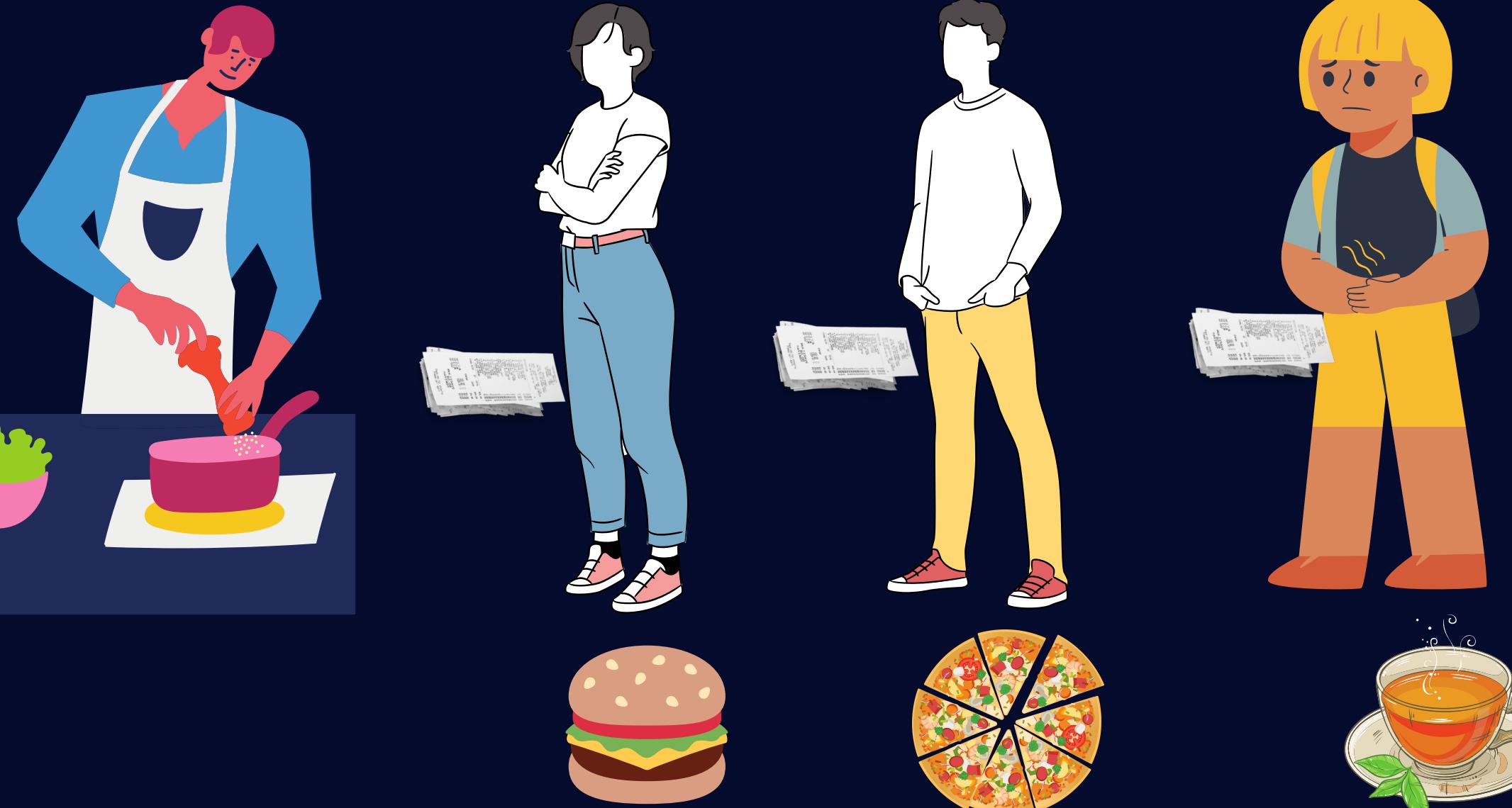
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Synchronous programming



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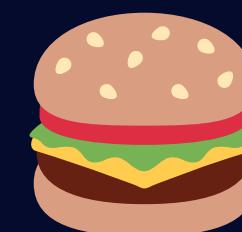


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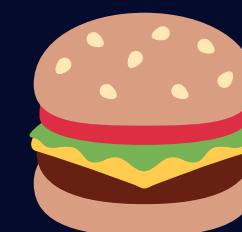
Synchronous programming



50 minutes to cook



Synchronous programming



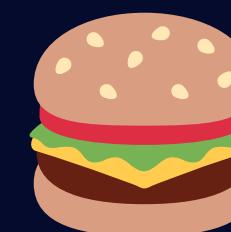
50 minutes to cook



10 minutes to cook



Synchronous programming



50 minutes to cook



10 minutes to cook

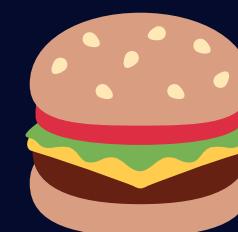
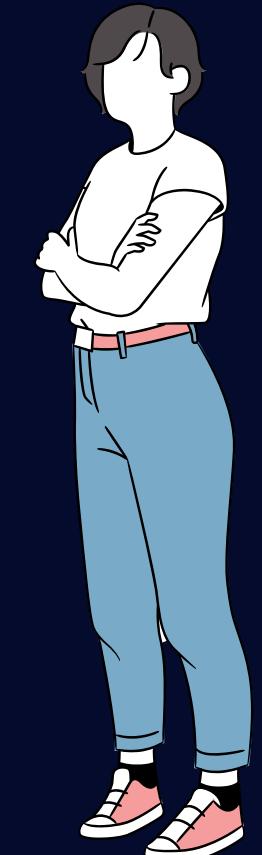


3 minutes to cook

Synchronous programming



Synchronous programming



50 minutes to cook



10 minutes to cook



3 minutes to cook

Synchronous programming



Synchronous programming



JS

Synchronous programming



3 minutes to cook



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JS

Synchronous programming



3 minutes to cook



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JS

Synchronous programming



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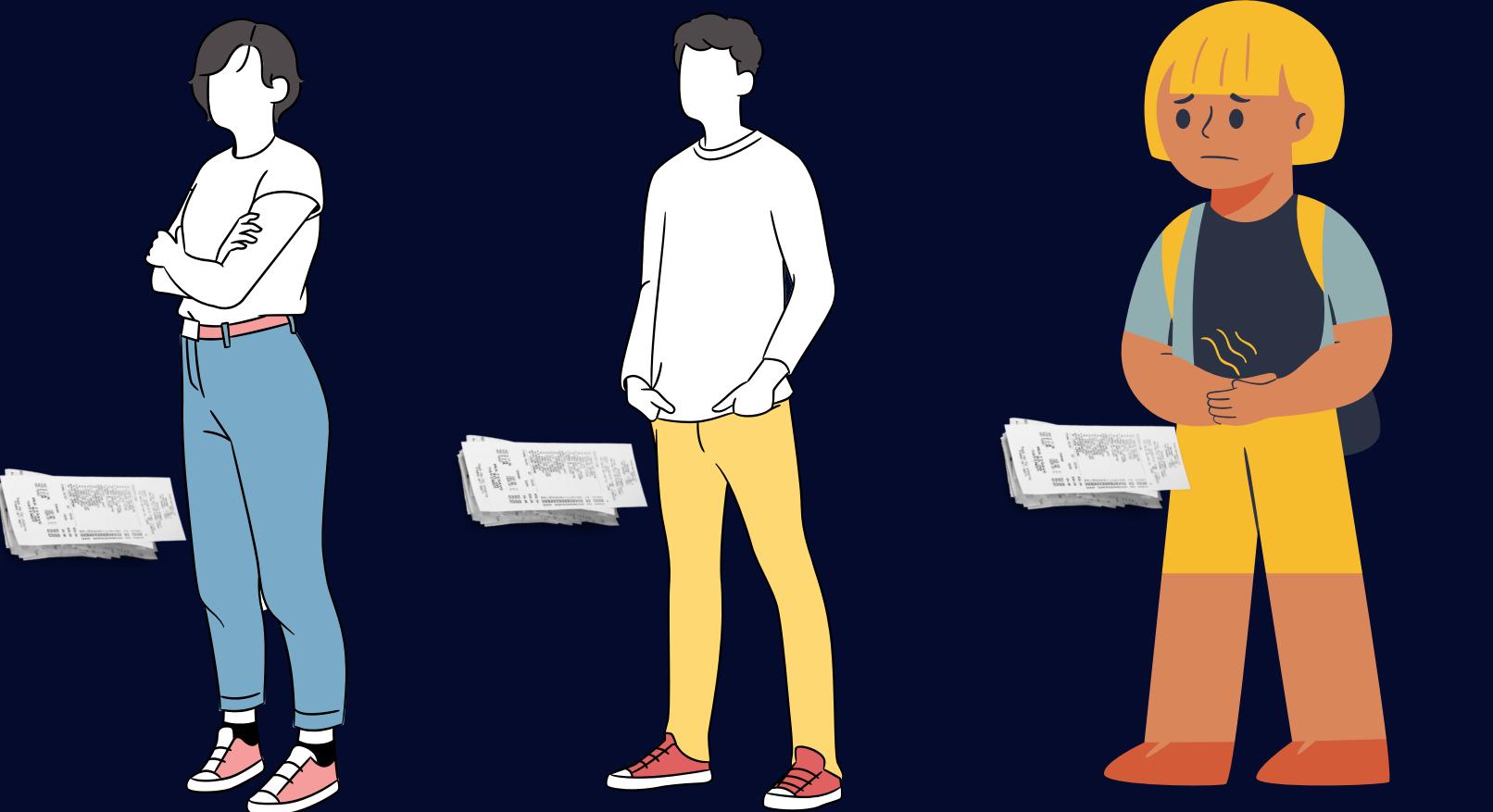


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Asynchronous programming

Multi threaded

Asynchronous programming



Multi threaded



50 minutes to cook



10 minutes to cook

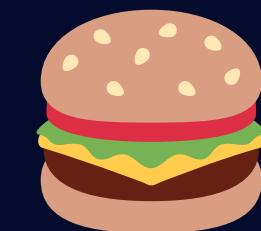


3 minutes to cook

Asynchronous programming



Multi threaded



50 minutes to cook



10 minutes to cook

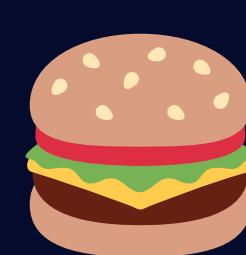


3 minutes to cook

Asynchronous programming



Multi threaded



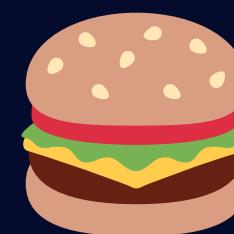
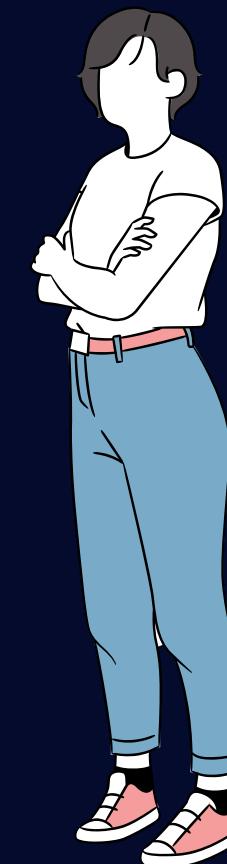
50 minutes to cook



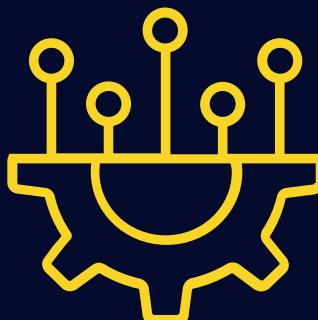
10 minutes to cook

JS

Asynchronous programming



50 minutes to cook



Multi threaded



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JS

Asynchronous programming



Multi threaded



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Ways of writing

Asynchronous code

JS

Ways of writing Async Code



SetTimeout



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Ways of writing Async Code



SetTimeout



Callback



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Ways of writing Async Code



SetTimeout



Callback



Promise





SetTimeout

