

# Async-Await in JS

## Agenda :

- 1) What is 'Async' & 'Await'
- 2) Promises → relation with async, await
- 3) Examples, error handling

## # async-await :

### WHAT :

- modern JS syntax (ES-6)/ES-2017).
- More readable / Easy Syntax.
- Easy debugging
- ✓ Built on top of promises

### WHY :

-

ASYNCHRONOUS OPERATIONS



✓ Non blocking operations

eg. fetch data from API,  
Reading large files.

↓  
Promises ✓

async - await ⇒ Further Simplifies the  
Syntax.  
Eye-pleasing code.

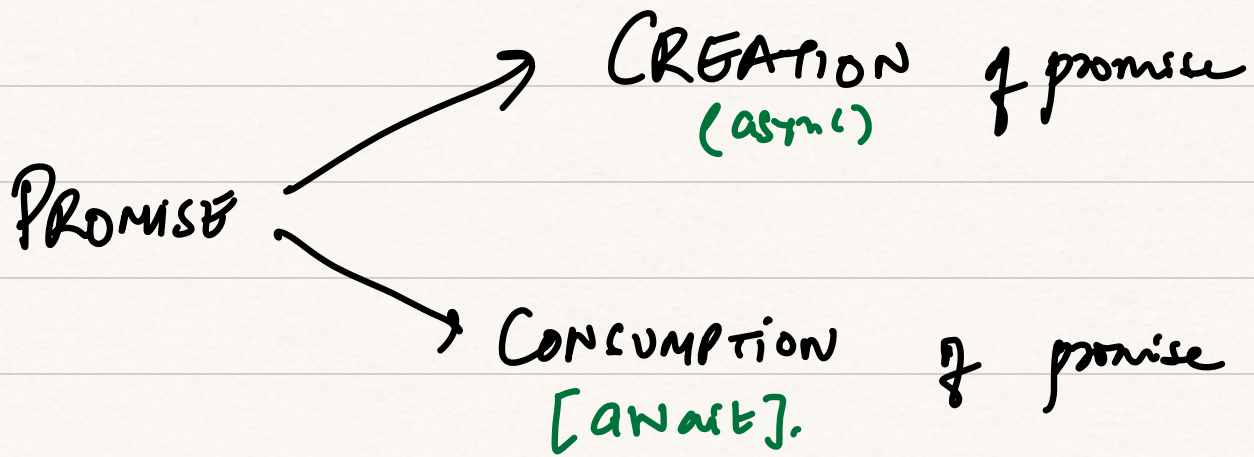
## FUNDAMENTALS of async - await

Two keywords → async  
→ await

```
async function getData ( ) {  
    return 'Hello'
```

```
}  
const data = await getData ( )
```

An async function returns a promise.



note:

- On using async key word with a function, it will always start returning a promise with a value
- 'await' keyword can only be used inside async keyword

## # Coffee Shop Problem

Coffee, No other drink.

→ Coffee → Accepted → Processed →



any other drink → Reject

Served  
↓  
Bill

Task → To promisify the process

lec-14 // Coffee.js

Callback Hell

```
fun A() {  
  fun B() {  
    fun C() {  
      fun D()  
    }  
  }  
}
```

Promise Chaining

```
A().then()  
B().then()  
C().then()  
D().then()
```

Async-await be Code should always  
inside

try, catch block

async function serveOrder() {

try {

// HAPPY Flow ✓

}

Catch (error) {

}

→ if any error comes.