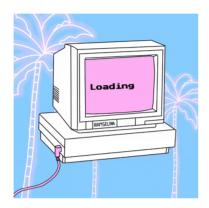
Asynchronous JavaScript



Synchronous? Asynchronous? Wdym?



Consider the code below...

Now:

```
//the line below is evaluated immediately
console.log(data[0].name)
```

Later:

Consider the code below...

```
function now () {
   return 21
}

function later () {
   answer = answer * 2
   console.log("Meaning of life:", answer)
}

var answer = now()

setTimeout(later, 1000)
```

Now:

```
function now() {
   return 21
}

function later() { .. }

var answer = now()

setTimeout( later, 1000 )
```

Later:

```
answer = answer * 2;
console.log( "Meaning of life:", answer );
```

Callbacks

```
$.get('https://swapi.dev/api/people', function(data) {
  console.log(data) /* yay got some data! */
})
```

Callbacks

```
$.get('https://swapi.dev/api/people', function(data) {
  console.log(data) /* yay got some data! */
})
```

this can easily turn into...callback hell

Promises

And we are finally here to talk about Promises in JavaScript!



Promises

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Before we jump into looking at code...let's have a little story time!

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Promise constructor

```
new Promise((resolve, reject) => {
  resolve('success!')
  ...
  reject('error!')
})
```

live coding guided project

examples and some explanations borrowed from You Don't Know JS by Kyle Simpson

If you'd like to dive deeper into JS, I highly recommend reading his books!

His books can be found free here:

 $\underline{https://github.com/getify/You-Dont-Know-JS/blob/1st-ed/README.md}$