

Chapter Seventeen

Why Does Javascript Act Like Asynchronous

Javascript is A Single Threaded Language

Thats Mean, Javascript Process One Task at A Time



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Javascript Uses Two Data Structure to Handle Variables and Function Calls

Heap to Manage
Variables

Stack to Manage
Function Calls



```
→ let responseA = serverCall(url)
   let responseB = serverCall(url)
   let responseB = serverCall(url)

   console.log(responseA)
   console.log(responseB)
   console.log(responseC)
```

Call Stack



serverCall()

Main()



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```
let responseA = serverCall(url)
→ let responseB = serverCall(url)
let responseB = serverCall(url)

console.log(responseA)
console.log(responseB)
console.log(responseC)
```

Call Stack



serverCall()

Main()



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```
let responseA = serverCall(url)
```

```
let responseB = serverCall(url)
```

```
→ let responseB = serverCall(url)
```

```
console.log(responseA)
```

```
console.log(responseB)
```

```
console.log(responseC)
```

Call Stack

serverCall()

Main()



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JAVASCRIPT ENGINE



Call Stack

Web API

Event Loop

Callback Queue



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