

Chapter Seventeen

Understanding Asynchronous Programming in Javascript



What is Synchronous Programming?

Synchronous basically means that you can only execute one thing at a time.



synchronous

/ˈsɪŋkrənəs/

adjective

1. existing or occurring at the same time.
"glaciations were approximately synchronous in both hemispheres"
2. **ASTRONOMY**
making or denoting an orbit around the earth or another celestial body in which one revolution is completed in the period taken for the body to rotate about its axis.



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```
var a = 10
```

```
var b = 20
```

```
var result = a + b  
console.log(result)
```

```
→ var response = storeResult(result)  
  if(response.success) {  
    console.log('Successfully Stored')  
  } else {  
    console.log('Data Store Failed')  
  }
```

Waiting



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What is Asynchronous Programming?

Asynchronous means that you can execute multiple things at a time and you don't have to finish executing the current thing in order to move on to next one



asynchronous

/ei'sɪŋkrənəs/

adjective

1. not existing or occurring at the same time.
2. **COMPUTING • TELECOMMUNICATIONS**
controlling the timing of operations by the use of pulses sent when the previous operation is completed rather than at regular intervals.



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```
var a = 10
```

```
var b = 20
```

```
var result = a + b  
console.log(result)
```

```
→ var response = storeResult(result) Waiting Silently  
  if(response.success) {  
    console.log('Successfully Stored')  
  } else {  
    console.log('Data Store Failed')  
  }
```

