

# JS JavaScript for Developers Callbacks | Asynchronous programming



#### Callbacks

✓ Function is a type

✓ It can act like a variable

- ✓ Callbacks
  - = callback functions
  - = function use as argument to call back later

#### Callbacks

#### ✓ Use function as a parameter

```
const phepCong = (a,b) => (a+b);
const phepTru = (a,b) => (a-b);
const phepNhan = (a,b) => (a*b);
const phepChia = (a,b) => (a/b);

const tinhToan = (phepTinhFunc, a, b) => {
    const kq = phepTinhFunc(a, b);
    return kq;
}
```

#### Callbacks in action

## ✓ A function call later | Asynchronous

```
const sayHello = () => {
    console.log("Hello");
}

const sayGoodBye = (name1, name2) => {
    console.log("Good bye " + name1 + ", " + name2);
}

setTimeout(sayGoodBye, 3000, "Cong", "Cuong");

sayHello();
```

#### Callbacks in action

## ✓ If function only use in one place

```
const sayGoodBye = () => {
    console.log("Good bye!");
}
setTimeout(sayGoodBye, 3000);
```



```
setTimeout(() => {
    console.log("Good bye!");
}, 3000);
```

#### Callbacks in action

### √ Real world example

```
const fs = require("fs");

console.log("Ready to read file!");
fs.readFile("data.txt", 'utf-8', (err, data) => {
    if(err){
        console.log(err.message);
    }else{
        console.log("Data: " + data);
    }
})
console.log("--- THE END ---");
```

## Refs

https://www.w3schools.com/js/js callback.asp

https://www.w3schools.com/js/js asynchronous.asp

https://nodejs.dev/learn/reading-files-with-nodejs





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