CALLBACKS

What are callbacks?

A callback is a function that is to be executed after another function (normally asynchronous) has finished executing—hence the name 'call back'.

A way for one part of our program to communicate with another part, that it has finished running.

Example

Example We have 2 functions

Example

We have 2 functions

Function 1 "getLanguage" 🧐



Example

We have 2 functions

Function 1 "getLanguage" 🧐



Function 2 "greeter" 🤗



Function 1 "getLanguage" 🧐 - RUNS

Function 1 "getLanguage" 🧐 - RUNS

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Function 1 "getLanguage" (29 - RUNS

.....COMPLETES & CALLS

Function 2 "greeter" 🤗

```
1 function getLanguage() {
2 }
3 
4 function greeter() {
5 }
```

```
1 function getLanguage(callback) {
2 }
3
4 function greeter() {
5 }
6
7 getLanguage();
```

```
function getLanguage(callback) {
    callback();
}

function greeter() {
}

getLanguage(greeter);
```

Why

greeter

instead of

greeter()

?

```
1 function getLanguage(callback) {
2         console.log("running getLanguage");
3         callback();
4 }
5
6 function greeter() {
7         console.log("running greeter");
8 }
9
10 getLanguage(greeter);
```

You can pass in information into a callback

```
function getLanguage(callback) {
            console.log("running getLanguage");
 2
 3
           const language = "ENGLISH";
 4
 5
 6
           callback(language);
 8
 9
   function greeter(language) {
           console.log("running greeter");
10
11
12
           if(language === "ENGLISH") {
                    console.log("Hello!");
13
14
15 }
```

Why use callbacks?

- Some code might take longer to run for example, if you need to contact a server
- Allows one part of the program to "wait" for another part of our program
- Behaviour is asynchronous, meaning we can continue to execute other code (non-blocking)