

JAVASCRIPT CLOSURE
ARE REALLY
EASY!!



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INTRODUCTION

A closure is a function that has access to variables in its parent scope, even after the parent function has returned.

Think of it as a function with a backpack that contains the variables.

In closures, the inner function can access the variable in the outer function's scope, but the outer function cannot access the variables within the inner function.



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EXAMPLE

Here's an example of closure. Take a look at it before going to the next slide.



```
● ● ● JS index.js

function parent() {
    let user = "Hassan"
    let location = "Mars"

    return function child() {
        return {
            user,
            location
        }
    }
}

const func = parent();

func();
// { user: "Hassan", location: "Mars"}
```



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HOW IT WORK

There are two functions, the **child** function is defined and returned inside the **parent** function.



```
JS index.js

function parent() {
    // ...
    return function child(){
        // ...
    }
}
```

Variables are declared outside the **child** function but they are accessible inside the child because of **lexical scoping**.



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HOW IT WORK

Once the **parent** function is invoked and stores the return value in **func**, it is no longer available but what's saved is the **child** function. The **func** looks like this:



```
JS index.js

function child() {
  return {
    user,
    location
  }
}
```

The **child** already inherited these values, so even though there is no **parent** function, the values are still available.

That's why I said it's a function with a backpack containing the values.



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