

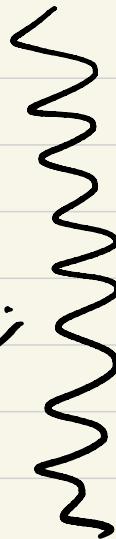

Agendas

- ① Recap of LEC
- ② Scope Chaining &
Lexical Scope
- ③ Closures

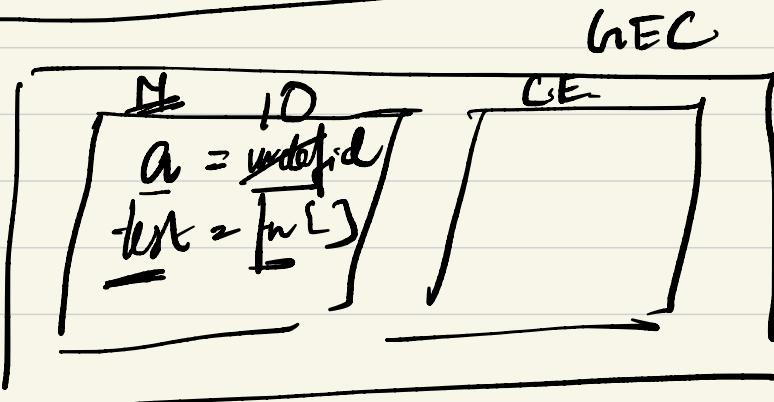
Recap

- ① Execution Context
 - ↳ Global EC
 - ↳ Function EC
- ② Hoisting ↳ initial value
undefined
- ③ Temporal Dead Zone

```
- console.log(a)  
- var a = 10  
- function test () {  
  console.log("this is a test.");  
}  
- }  
=> test()
```



undefined ✓
This is a test ✓



- test()
const test = function () /
var
}

```
function parent() {  
    var a = 10  
    function child() {  
        console.log(a)  
    }  
    child()  
}
```

~~Lexical Scope~~ (Confinement)

Where it is defined

~~var b = 10~~

function parent () {

~~var a = 10~~

function child () {

console.log (a)

}

child()

}

parent()

G E C

M-A:

~~var b = 10~~

~~parent = function~~

~~parent ()~~

Parent E-C

M-A: 10

~~parent~~

~~child = function~~

C-E

~~child~~

Child E-C

M-A:

~~C-E~~

Console.log(a)

Lexical Scope

Lexical scope is the ability for a function scope to access variables from parent scope (any ancestor).

We say that the child function is lexically bound to that of the parent.

When function keyword is used,

I will be able to access it before even defining it.

B E C A U S E the entire function gets started in the M-f phase.

Temporal Dead Zone.

For let & const, we cannot access the value before we declare it. (Although, it is stored as undefined)

Steps to create an execution context

M-A

① Figure out what variables are declared in the current EC

② If there is any function keyword, then store the value in M.A phase. (the entire function body)

③ If not, then assign memory location for all variables but store the value as undefined.

C.E.

① When you're trying to access a variable —

a) Can you access this variable? → X

(If let & const — we can't access
before initialization) * TDE

b) If we can, then figure out what is
the current value.

function P()

{
 |
 | function C()
 | {
 | | console.log('Hello');
 | | return 10
 | }
 | }
 | return C
 | }
 | }
 | }

return C
C
C

return 10
10

const value = P()

const value = child.

Value()

5
10
"Hello"
true
undefined

func () — execution

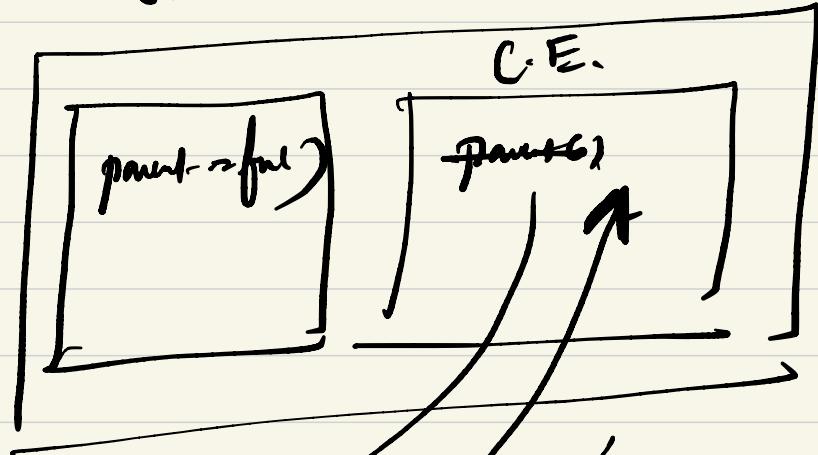
func → referring to func body.

```

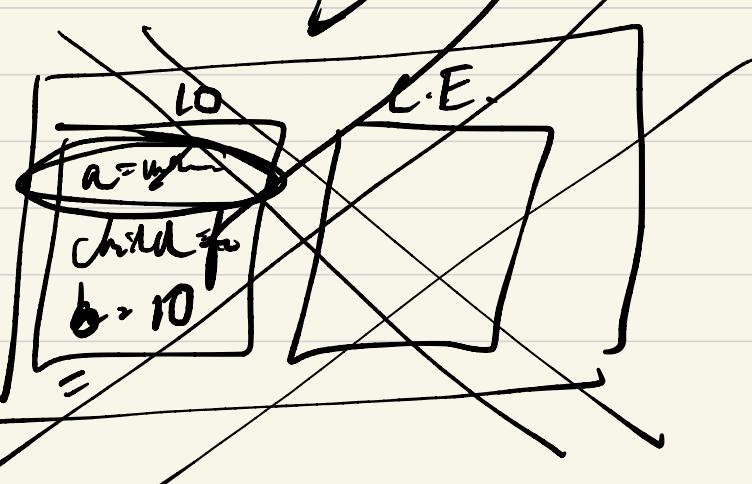
function parent() {
    var a = 10
    var b = 10
    function child() {
        console.log((a))
    }
    return child
}
parent()

```

G.E.

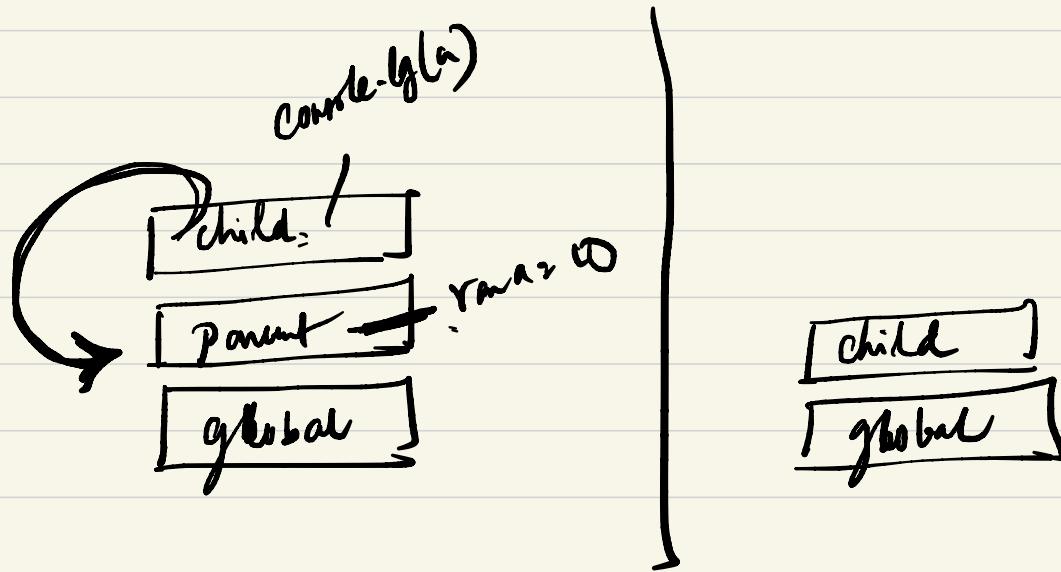


C.E.



Closure → A closure is a feature of JS using which a child function can have access to parent's lexical scope although the parent E.C has been destroyed.

Example 1



"Hello World"

H
e
l
l
o

W
o
r
l
d

- reverse()