Function Scope VIs Block Scope

We already know about function scope. Everytime we call a function we create a function scope, and we a can only access variables declared inside a function inside it we can't access them outside the function. Be cause they're within the function scople



So what's block scope? Block scope is the scope created inside E... 3 (carry brackets) Java Script follows block so function scople. And didnt achielly! have the concept of block supe until Ess was introduced. @code With Simran if (true) L var name = 15 imran console.log (name) > Simran Because if is not a function right? so name is still in global supe Explanation and is accessible. Basically when a name is declared So if we had inside function function sayName() a function supe var name = !Simman) is created and global suppe does > Reference error it's indunction supe



However, with the introduction of let and const, they ates come under block @codeWithSimran

swpe.

if (true) & At let name = 'Simman' } console. 109 (name)

> Simma Reference Error

Because since let and const are block supped using if statement is like block scope (E.3) Incre those variables are only accessible inside the block swipe.

Var still follows function supe.

Let and const bollow block -> Inerepore in most situations it's better to avoid & var





Immediatly invoked function expressions (IIFE)

Before that let's understand why global variables are bad and then now IIFE can help us:)

> we already spoke about memory leaks

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Okay, if space is the problem, can I use a few global windows Let's say we have included multiple script tags in a file

<script> var count = 1 < /script>
<script> var count = 2 < /script>

* Both files have a global variable
named "count" so now your count
will be overwritten by the lastest
count value which is 2

THAT'S BAD RIGHT?





As your coclebase gets larger it'll get hard to track there name collisions.

A All script tags get combined to one execution context so count is used across all and obviosly it can't have different value for different files. @codewithsimman

IIFE will help us here

IIFE is a function expression that woks like this

This brack says this is not a bunchion delcation, its a function expression

))(); (no pera name)

5 we are immediatly calling trus function



Summary

91's an function expression (we alredy learnt function expressions don't get completely woisted as JE does not wok at them as function declaration

That means whatever code we put inside this function will not be a part of global execution. context since this function itself is not part of global ex

@ code With Simran





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So fare we know whatever code (variables) we declare inside this TIFE are going to be good to this function. Ocodewith Simman

Jhis is how the z-execution context Looks

anony mouse) it's own variables vari

Global execution context

So a new execution context is created for this anonymous function and it has it is own local variables

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How doe we use life to we data (variables or functions) Innoughout the file? @codewithSimman var file1 = (function() { var name = Simran' function sayHello() { return 'Simran' return s a name: name, say Hello: Say Hello 3)() ** Since we're immediately invoking calling this IIFE files variable has one returned data or return value of trus II FE so we can simply do files. name file1. say Hello()



But again, we still have a glubal variable called file 1 so there is a better solution in modern Javascript called moduels we will study about it later.

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