Function Scope VIs Block Scope

We already know about function supe. Everytime we call a function we call a function we excan only access variables dedared inside a function inside it. we can't access them outside the function. Be cause they're within the function suple

So what's block scope? Block scope is the scope created inside E... } (arry brackets) JavaScript follows block so function scople. And didnt actually! have the concept of block supe until Ess was introduced @code With Simran if (true) var name = 15 imran console.log (name) > Simran Because if is not a function right? global scope so name is stillin Explanation and is accessible. Basically when mame is declared So if we had inside function function sayName() a function supe var name = Simman) is created and global suppe does not have name console. lug (name) it's inhunction sope >Reference error

However, with the introduction of let and const, they also come under block accodewithsimman

if (true)

E A let name = 'Simran' } console. log (name)

> Simman Reference Error

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

Var still follows function Suppe.

Let and const follow block Scope. Inerpore 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 how IIFE can help us:)

=> we already spoke about memory leaks @codewithSimran

Okay, if space is the problem, can I use a few global variables.

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
ramed "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 para name)

5 we are immediatly calling thus 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

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So fare we know whatever code (variables) we declare inside this TIFE are going to be geto local to this function. @codewithSimman

Jhis is how the R-execution context Looks

anony mous() variables

variables

variables

Global execution context

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

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How doe we use 11FE to we data (variables or functions) Innoughout the file? fileis @codewithSimman var file1 = (function() & var name = Simran function sayHello() { return 'Simran' B return s a name: name, say Hello: Say Hello 3)() ** Since we're immediately invoking /calling this IIFE files variable has one returned data orreturn value of trus II FE so we can simply do files. name file1. say Hello() etc

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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