What is hoisting?

@codeWith Simran

console. log (name)
var name = 'Simran'

> undefined

value.

Why undefined? Should'nt it say name 's no dosen't exist (Reference error)

It's because of hoisting!!!

During the creation phase

JE sees this variable (name)

and allocates memory for it

and keeps undefined as its

memory unclefined

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So since hoisting happens in creation phase there is already a variable name name in the memory with value undefind. @coclewithsimman So during execution phase when it runs the file from top to bottom trus is what it sees [not physically we'll see that in a while? var name = undefinded sonsole.log(name) name = 'Simran') this is hoisting

note this is an assignment and does not have var

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NOTE: Variables are partially

noisted @codewithsimman

Meaning: They are allocated memory but not assigned actual value what we give. They're simply assigned undefined.



var name = 'Simran' var name = 'Simran'

What about this? How many times will name be hoisted?

ONCE!! Why! Since the valve dosent matter. JE will the Say I atteady have hoisted name.

Example 3

@codewith simman

Say Helloc);

function sayHello() {

console.log ('smy Hello')

3

> Hello

Just like variables, functions

are also noisted.

BUT!! Functions are

completely hoisted.

Meaning: The entire

function with defination

is hoisted.

So it wont give us

undefined. @codewithsimman

Exampley

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Just a danification

JE dosen't physically move variables and functions to top of file. It just allocated memory for them & before & running the code.

sayHello(); > function expression

var sayHello = function(){

console.log('Hello')

Sundefined It was treated like a var and given undefined as It dosen't care about the value

Examples sayHello(); @coclewith Simman Say Hel function sayHello() { console.log("Hello"); function say Helloc) & console·log ("Bollo"), > Bollo Since functions are completely hoisted, when same function comes and time, JE will say I've already allocated memory bor say Mello, let me replace 1ts content from console. 109("Hello") to console .109 ("Bollo")

Example 6

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TRICKY ONE

Just remember when a function is called a new execution context is created for that function.

Var name = 'Simran'

var change Name = function() {

console.log("Name", name);

Var name = "John";

console.log("Changed name",

name);

3: @codeWithSimran

change Name ();

what you probably expect . Wrong

> Name Simran

> changed Name John

> Name undefined





What?? Why?

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When you called a new. execution context was created on top of global execution context.

This execution wontext is created for the function when it is called

> name: undqind = execution (since we context of declared name say Helloi) again in bunc)

say Hello: fnc)

name: undefine -> 9 lobal execution

Go and look at the problem again, you'll get eit. :)

BUT STILL, JS is tricky and weird .!

Oh! guess why they introduced let and const:)
They are thoisted!!!

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Even though they're hoisted they're not assigned anything (not even undefined) and we get reference error if we try to access them before using them