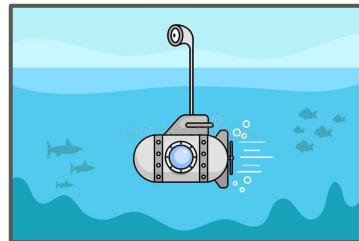


JavaScript **scope**: What is it?



tele scope	peri scope	stetho scope
tele-	peri-	stetho-
<i>at a distance (from Greek)</i>	<i>around (from Greek)</i>	<i>chest (from Greek)</i>
<i>What do you think scope means or has to do with?</i>		

Scope: Official Definition

What part of your script can use your variable?

global scope	function scope	block scope
Any part of your script can access/use the variable	Variable is only accessible/visible within a function	Variable is only accessible/visible within a code block { }
Avoid using variables that have global scope		Applies to variables <i>declared</i> (created) using let or const
		A code block begins with { and ends with }

JavaScript

```
var globalVar = "This is a global variable";

function myFunction() {
  // You can access the global variable here
  console.log(globalVar);
}

myFunction(); // This will print "This is a global variable"
```

Use code [with caution](#).



In this example, `globalVar` is declared outside of any function, making it globally accessible. The `myFunction` can access and print the value of `globalVar`.

function: A named chunk of code that performs a specific task.

Modern JavaScript **does not use the keyword `var`.**

Use `let` or `const` instead.

Variable with GLOBAL scope



Function Scope (using `var`):

- Variables declared with `var` inside a function are accessible throughout the entire function, even within nested blocks.
- This can lead to unintended side effects if a variable name is accidentally reused within the function.

```
function playGame() {  
  var score = 0; // Function scope with var  
  
  if (winCondition()) {  
    score += 10;  
    console.log("Score inside if:", score); // Accesses score  
  }  
  
  console.log("Final Score:", score); // Accesses score again  
}  
  
playGame();
```

In this example:

- `score` is declared with `var`, giving it function scope.
- It's accessible and modified within both the `if` block and the main function body.

function: A named chunk of code that performs a specific task.

Modern JavaScript does not use the keyword **var**.

Use **let** or **const** instead.

- Variables declared with `let` and `const` are only accessible within the specific code block where they are declared (e.g., `if` statement, loop, etc.).
- This provides more precise control over variable visibility and prevents accidental modifications from outside the block.

```
function playGame() {  
  if (winCondition()) {  
    // Block scope with let  
    let bonusScore = 10;  
    console.log("Score inside if:", bonusScore); // Accesses bonusScore  
  }  
  
  // console.log("Final Score:", bonusScore); // This will cause an error  
  // because bonusScore is not defined in this block  
}  
  
playGame();
```

- `bonusScore` is declared with `let` within the `if` block, limiting its scope to that block.
- Trying to access `bonusScore` outside the `if` block will result in an error because it's not defined in that scope.

A code block begins with `{` and ends with `}`.

Block scope (using `let` and `const`)

