

Scope means "where you can access a variable" in your code.

There are mainly **two types of scopes**:

- 1. Global Scope
- 2. Block Scope

□Global Scope

If a variable is declared **outside** of any { }, it's in **global scope**.

```
Example:

js

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let a = 10;

const b = 20;

var c = 30;

console.log(a); // 10

console.log(b); // 20

console.log(c); // 30

You can access these variables anywhere in your program.
```

2Block Scope

If a variable is declared **inside** { } (like in if, for, or function), then it's in **block scope**.

```
Example:
js
CopyEdit
if (true) {
  let a = 10;
  const b = 20;
```

```
var c = 30;
}

console.log(a); // X Error: a is not defined

console.log(b); // X Error: b is not defined

console.log(c); // Output: 30 (because var is NOT block-scoped)
```

▲ Important Difference:

Keyword Scope Can Access Outside Block?

let Block X No

const Block X No

var Function/Global Ves (Not recommended)

Real Life Example:

Think of variables as **items in a room**:

- If you put a toy **inside a drawer (block)**, it can only be used **inside** that drawer.
- If you keep it on the table (global), anyone in the room can use it.

Why not use var?

Because var ignores block scope and might create bugs in bigger programs. That's why **let and const are preferred**.

Final Summary:

- {} creates a block scope.
- Use let and const for better safety.
- Avoid var in modern JavaScript.