# Java Script



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# **Introduction**

In JavaScript, variables are used to store and manage data in your programs. There are three keywords for declaring variables: `let`, `const`, and `var`. Each has its own purpose and rules. Let's explore them one by one.

### 1. let

- The let keyword was introduced in ES6(2015)
- Variables defined with let cannot be **Redeclared**.
- Variables defined with let must be **Declared** before use.
- Variables defined with let have Block Scope
- let cannot be **Redeclared**.

Variables defined with let cannot be redeclared.

With var, we can be redeclared..

#### Initialization

```
index.js : x + ...  

Run  

index.js : x + ...  

index.js : x +
```

# 2. var

- Variables declared with the var keyword can NOT have block scope.
- Variables declared inside a { } block can be accessed from outside the block.

- Redeclaring variables using var.
- Redeclaring a variable using the var keyword can impose problems.
- Redeclaring a variable inside a block will also redeclare the variable outside the block:

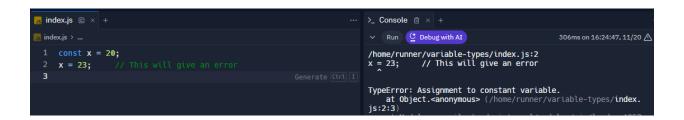
#### Initialization

# 3. Const

- The const keyword was introduced in ES6 (2015)
- Variables defined with const cannot be Redeclared.
- Variables defined with const cannot be Reassigned.
- Variables defined with const have Block Scope.

#### Cannot be reassigned.

A const variable cannot be reassigned.



#### Initialization

```
index.js © × + ...
index.js © × + ...
index.js © × + ...

Console ① × + ...

Run © Debug with AI 912ms on 16:33:12, 11/20 △

// home/runner/variable-types/index.js:1
console.log(x)

// home/runner/variable-types/index.js:1
console.log(x)

ReferenceError: Cannot access 'x' before initialization
at Object.<anonymous> (/home/runner/variable-types/index.js:1
:13)
```

# **Summarization:**

# Difference Between var, let and const

	Scope	Redeclare	Reassign
var	No	Yes	Yes
let	Yes	No	Yes
const	Yes	No	No