



Javascript

***Difference between
let, const, and var***

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var:

- Variables declared with **var** are function-scoped, meaning they are only available within the function in which they are declared. If declared outside any function, they become global.
- **var** variables are hoisted, which means the declaration is moved to the top of its scope during the compilation phase, but the assignment (if any) remains in place.



```
1 console.log(x); // undefined (hoisted)
2 var x = 5;
```

let:

- Variables declared with **let** are block-scoped, meaning they are only available within the block (a pair of curly braces) in which they are defined.
- **let** variables are not hoisted in the same way as **var**, and attempting to access them before declaration results in a **ReferenceError**.



```
1 console.log(y); // ReferenceError: y is not defined
2 let y = 10;
```


const:

- Similar to **let**, **const** is block-scoped.
- The key difference is that variables declared with **const** must be assigned a value at the time of declaration, and their values cannot be reassigned.



```
1  const z = 15;  
2  z = 20; // Error: Assignment to constant variable
```

- It's important to note that while **const** prevents the reassignment of the variable itself, it does not make objects or arrays immutable. The properties or elements of a **const** object or array can still be modified.

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