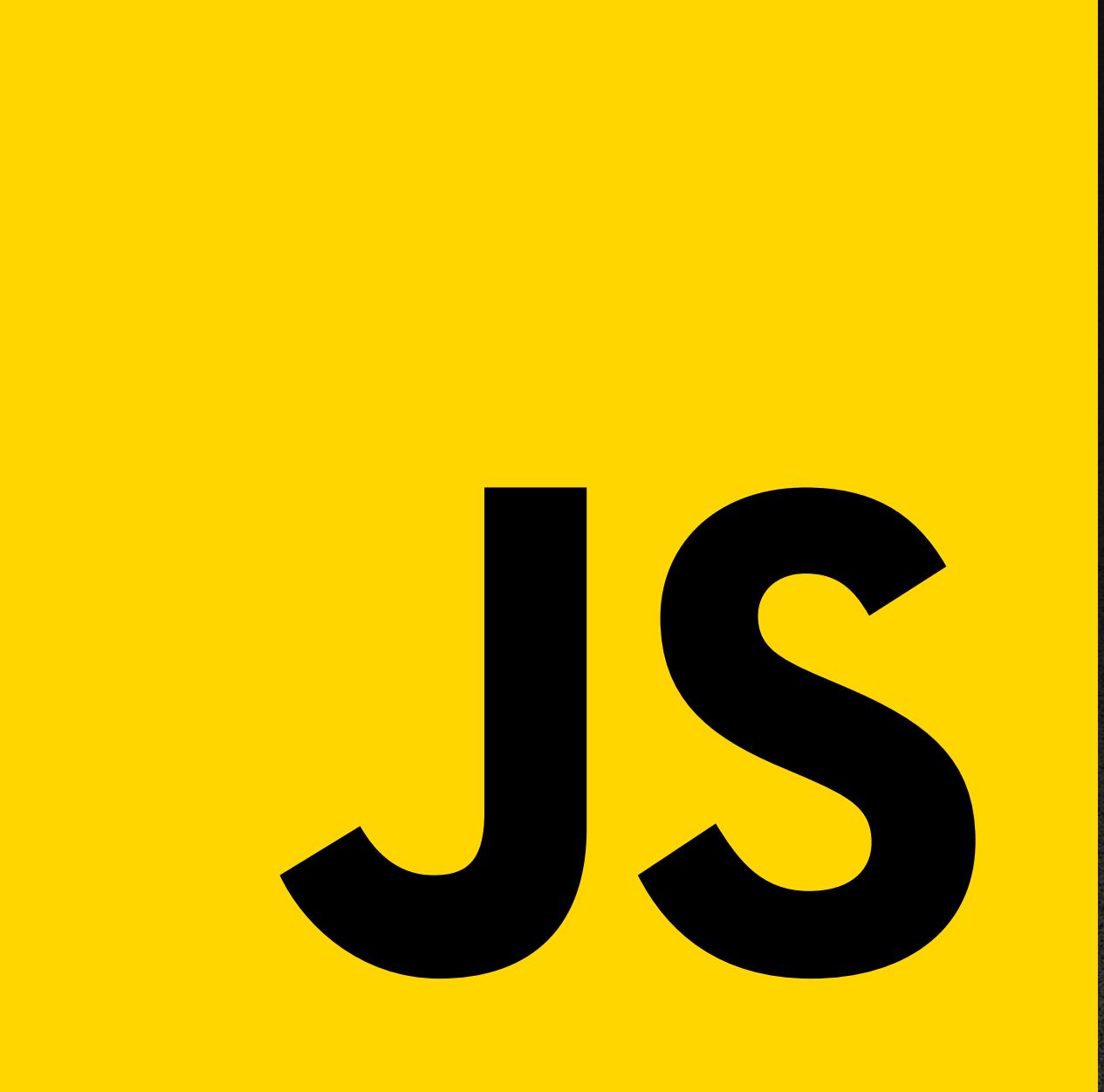


Java Script

Let, Const, Var

What is the difference ?



JS

[Don't Miss It]



Let

- Variables declared with let are block-scoped. They are confined to the block (curly braces) in which they are defined.
- Let variables can be updated but not re-declared within their scope.
- They are also hoisted, but not initialized, so you cannot use them before they are declared.



```
1 function exampleLet() {  
2     if (true) {  
3         let score = 100;  
4     }  
5     console.log(score); // Throws an error: score is not defined  
6 }  
7 exampleLet();
```



Const

- Variables declared with const are block-scoped and cannot be reassigned after they are initialized.
- Const is commonly used for values that should remain constant throughout the program.
- If the value being assigned is an object or an array, the variable itself cannot be reassigned to a new object or array, but the properties or elements of the object or array can be modified.

```
1 const PI = 3.14159;
2 PI = 3.14; // Throws an error: Assignment to constant variable
3
4 const person = { name: "Alice" };
5 person.name = "Bob"; // Valid, the property of the object can be
                      changed
6 person = { name: "Charlie" }; // Throws an error: Assignment to
                                constant variable
```



Var

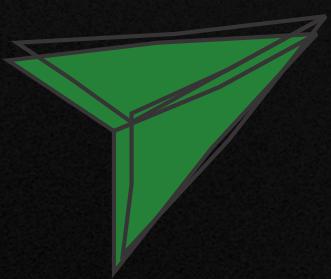
- Variables declared with var are function-scoped or globally scoped, but they are not block-scoped.
- They are hoisted to the top of their scope during execution, which means you can use a variable before it's declared (though its value will be undefined).
- Var variables can be re-declared and updated within their scope.
- Since var doesn't have block scope, it can lead to unintended issues when used in loops and conditionals.



```
1  function example() {  
2      if (true) {  
3          var x = 10;  
4      }  
5      console.log(x); // Outputs 10  
6  }
```



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IT
HELPFUL ?**



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