## var - let - const

(scope, hoisting, everything you should know)

```
var variable1 = 1;
let variable2 = 2;
const variable3 = 3;
console.log(variable1, variable2, variable3); // 1 2 3
```

Scope is accessibility (visibility) of variables.

Hoisting is a JavaScript mechanism where variables and function declarations are moved to the top of their scope before code execution.



	var	let	const
scope	global/function	global/block	global/block
re-declaring	+	-	-
updateing	+	+	-
hoisting	+	+	+
default initialization	+ (as undefined)	-	-

## **SCOPE** types

```
•••
     // global scope
     var globalVar = "global var";
     let globalLet = "global let";
     const globalConst = "global const";
 5
     function fn() {
       // function scope
       var functionVar = "function var";
 8
       let functionLet = "function let";
10
       const functionConst = "function const";
11
     }
12
     if (true) {
13
14
       // block scope
15
       let blockLet = "block let";
16
       const blockConst = "block const";
     }
17
```



## Updating and Re-declaring

```
var testVar = 1;
     testVar = 2; // updating 🕝
     var testVar = 3; // re-declaring 
     let testLet = 1;
     testLet = 2; // updating Co
     let testLet = 3; // re-declaring 
     // TypeError: Identifier 'testLet' has already been declared
     const testConst = 1;
10
     testConst = 2; // updating 💥
11
     // TypeError: Assignment to constant variable.
12
     const testConst = 3; // re-declaring 
13
     // SyntaxError: Identifier 'testConst' has already been declared
14
```



## Hoisting

```
console.log(var1); // undefined
var var1 = "var";
console.log(let1);
// ReferenceError: Cannot access 'let1' before initialization
let let1 = "let";
console.log(const1);
// ReferenceError: Cannot access 'const1' before initialization
const const1 = "const";
```

