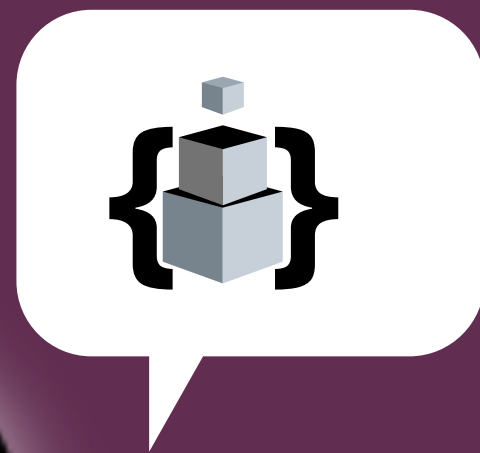


JavaScript Scope



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Types

Global scope

Local scope

- Function scope
- Blockscope



Global scope

- The outside all the functions is consider the global scope and the variables defined inside the global scope can be accessed and altered in any other scopes

```
let carName = "Volvo";  
// code carName
```

```
function myFunction() {  
  // code carName  
}
```

Function scope

- Each function creates a new scope.
- Variables defined inside a function are not accessible (visible) from outside the function.

```
function name(){  
  var fruit = 'apple';  
  console.log('inside function:', fruit);  
}  
name() //apple  
console.log(fruit) // error
```

Block scope

- ES6 introduced two important new JavaScript keywords: **let** and **const**.
- These two keywords provide Block Scope in JavaScript.
- declared inside a { } block cannot be accessed from outside the block

```
function foo(){  
  if(true){  
    var fruit1 = 'apple';    //exist in function scope  
    let or const fruit2 = 'banana';  //exist in block scope  
  }  
  console.log(fruit1);  
  console.log(fruit2);  
}  
foo();  
//apple  
//error: fruit2 is not defined
```

BONUS(Lexical)

- Lexical scope means the children scope have the access to the variables defined in the parent scope

```
function Name1(){  
    var fruit1 = 'apple';  
    const fruit2 = 'banana';  
    function Name2(){  
        console.log(fruit1);  
        console.log(fruit2);  
    }  
    Name2();  
}  
Name1();
```

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