

# Cheatsheets / JavaScript: Arrays, Loops, and Objects

## Scope

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*Scope* is a concept that refers to where values and functions can be accessed.

Various scopes include:

- *Global* scope (a value/function in the global scope can be used anywhere in the entire program)
- *File* or *module* scope (the value/function can only be accessed from within the file)
- *Function* scope (only visible within the function),
- *Code block* scope (only visible within a `{ ... }` codeblock)

```
function myFunction() {  
  
    var pizzaName = "Volvo";  
    // Code here can use pizzaName  
  
}  
  
// Code here can't use pizzaName
```

## Block Scoped Variables

`const` and `let` are *block scoped* variables, meaning they are only accessible in their block or nested blocks. In the given code block, trying to print the `statusMessage` using the `console.log()` method will result in a `ReferenceError`. It is accessible only inside that `if` block.

```
const isLoggedIn = true;  
  
if (isLoggedIn == true) {  
    const statusMessage = 'User is logged in.';  
}
```

```
}  
  
console.log(statusMessage);  
  
// Uncaught ReferenceError: statusMessage is not defined
```

## Global Variables

JavaScript variables that are declared outside of blocks or functions can exist in the *global scope*, which means they are accessible throughout a program. Variables declared outside of smaller block or function scopes are accessible inside those smaller scopes.

**Note:** It is best practice to keep global variables to a minimum.

```
// Variable declared globally  
const color = 'blue';  
  
function printColor() {  
  console.log(color);  
}  
  
printColor(); // Prints: blue
```

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