

Cheatsheets / Introduction to JavaScript

Scope

Scope

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
```