

# JavaScript Cheatsheet

Learn JavaScript Correctly (Video course)

https://ilovecoding.org/courses/js2



# **Vocabulary around variables and scope**

var a;

a = 12;

## **Variable Declaration**

The creation of the variable.

Variable Initialization

The initial assignment of value to a variable.

a = "me";

Variable Assignment

Assigning value to a variable.

console.log(a);
var a = "me";

# Hoisting

Variables are declared at the top of the function automatically, and initialized at the time they are run.

#### Scope

The limits in which a variable exists.

# **Global scope**

The outer most scope is called the Global scope.

#### **Functional scope**

Any variables inside a function is in scope of the function.

# **Lexical Environment (Lexical scope)**

The physical location (scope) where a variable or function is declared is its lexical environment (lexical scope).

#### Rule:

- (1) Variables in the outer scope can be accessed in a nested scope; But variables inside a nested scope CANNOT be accessed by the outer scope. (a.k.a private variables.)
- (2) Variables are picked up from the lexical environment.

```
var a = "global";

function first(){
  var a = "fresh";

  function second(){
     console.log(a);
  }
}
```

#### Scope chain

The nested hierarchy of scope is called the scope chain. The JS engine looks for variables in the scope chain upwards (it its ancestors, until found)