Cheatsheets / Learn Swift

Variables

Variables

A variable refers to a storage location in the computer's memory that one can set aside to save, retrieve, and manipulate data.

var score = 0

Constants

Constants refer to fixed values that a program may not alter during its execution. One can be declared by using the let keyword.

let pi = 3.14

Arithmetic Operators

Swift supports arithmetic operators for:

- + addition
- subtraction
- * multiplication
- / division
- % remainder

var x = 0

x = 4 + 2 // x is now 6

x = 4 - 2 // x is now 2

x = 4 * 2 // x is now 8

x = 4 / 2 // x is now 2x = 4 % 2 // x is now 0

Types

Type annotation can be used during declaration.

The basic data types are:

• Int: integer numbers

• Double : floating-point numbers

• String: a sequence of characters

• Bool: truth values

var age: Int = 28

var price: Double = 8.99

var message: String = "good nite"

var lateToWork: Bool = true

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String Interpolation

String interpolation can be used to construct a String from a mix of variables, constants, and others by including their values inside a string literal.

```
var apples = 6
print("I have \(apples\) apples!")
// Prints: I have 6 apples!
```

Compound Assignment Operators

Compound assignment operators provide a shorthand method for updating the value of a variable:

- += add and assign the sum
- -= subtract and assign the difference
- *= multiply and assign the product
- /= divide and assign the quotient
- %= divide and assign the remainder

```
Saved
```

```
→ Print
```



```
var numberOfDogs = 100
numberOfDogs += 1

print("There are \((numberOfDogs)\))
dalmations!")

// Prints: There are 101 dalmations
```

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