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### Cheatsheets / Wireframing and Creating a Project in Xcode

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## **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.

#### 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

$$x = 4 * 2 // x is now 8$$

$$x = 4 / 2 / / x is now 2$$

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

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var age: Int = 28

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### **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

#### **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.

### **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





```
var price: Double = 8.99
var message: String = "good nite"
var lateToWork: Bool = true
var apples = 6
print("I have \(apples) apples!")
// Prints: I have 6 apples!
var numberOfDogs = 100
numberOfDogs += 1
print("There are \(numberOfDogs) dalmations!")
```

// Prints: There are 101 dalmations!

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