

Swift Cheat Sheet

by nixiko9 via cheatography.com/212204/cs/47199/

Simple Values

Control Flow (cont)

let for constants; var for variables Constants: value doesn't need to be known at compile time, but must assign it

Rule for types: constant or variable must have the same type as the value you want to assign it.

Inferring Types: Type can be inferred if value provided when creating constant/var.

let explic itD ouble: Double Specifying types: Write after the variable, separated by colon

Values are never implicitly converted to another type. If conversion required, print (opt ion als tring == nil) must be done explicitly

```
let lottoS tring = " Today's winning lotto number is "
        let lottoN umber = 94
       let lottoS entence = lottoS tring + String (lo tto Numbe unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let, which makes the unwrapped and assigned to constant after let and the unwrapped and assigned to constant after let and the unwrapped and assigned to constant after let and the unwrapped and assigned to constant after let and the unwrapped and assigned to constant after let and the unwrapped and assigned to constant after let and the unwrapped and assigned to constant after let and the unwrapped and assigned to constant after let and the unwrapped and
```

Backslash string interpolation

```
let friend Count = 2
let friend Cou ntS tring = "I have \((frie ndC ount) number greeting = " Hello, \((name ))"
of
 friend s."
```

Use three double quotation marks for strings that take up multiple lines.

Create arrays and dictionaries using brackets, and access their elements by ?? operator: If optional value missing, default value used instead writing the index or key in brackets.

```
var toys = ["la bub u", " sim ski ", "furby"]
toys[1] = "fug gle r"
toys.a ppe nd( " jel lyc at")
var bestIt emO fThing = [ " summer fruit" : " man go",
bestIt emO fTh ing ["summer fruit"] = " pea ch"
```

Arrays grow automatically.

For empty array, write excell ent Fruits = []. For an empty dictionary, and the end of each case's write medioc reF ruits = [:].

If assigning empty array or dict to new var, you need to specify type.

```
let arrayO fGo odC off eeC afes: [String] = []
let dictCa fes Wit hMa tch aAn dRa tings: [String: Float] print( " Jasmine sambac, ambret tolide musk")
= [:]
```

Control Flow

```
let scoreD eco ration = if teamScore > 10 {
} else {
```

Optionals: either contains a value or contains nil to indicate a value is

 $\underline{\underline{A}}$ question mark after type of value marks it as optional.

```
var option alS tring: String? = " Hel lo"
 // prints " fal se"
```

Use if and let to work with missing values. If optional value is nil, or ional is false and code in braces is skipped. Otherwise, optional value is value available inside block of code.

```
var option alName: String? = "Big Dog"
var greeting = " Hel lo! "
 if let name = option alName {
     greeting = " Wow !"
```

```
let holida yInNov: String? = nil
let holida yInDec: String = " Bal i"
let welcomeMsg = " Enjoy \((holi day InNov ?? holida)
```

Switches: support any kind of data and variety of comparisons

let perfume = "Eau Rose"

After executing the code inside the switch case that matched, program from the switch statement. Execution doesn't continue to the next case,

```
switch perfume {
case " Ele ctric Cherry ":
case "On a Date", "Born In Roma":
  print( " These have a black currant note.")
case let x where x.hasS uff ix( " ros e"):
  print( "Is it a fragrance with (x)?")
default:
  print( "A delicious choice.")
// Prints "Is it a fragrance with rose?"
```

for-in: Use to iterate over items in a dict by providing pair of names for-in: key-value pair.

```
Conditionals: if, switch
```

Loops: for-in, while, repeat - while

Parentheses around condition/loop variable are optional, braces are required

```
let croiss ant Scores = [1.2, 2.3, 2.2, 4]
for score in croiss ant Scores {
   if score > 2.5 {
      print( " Great croiss ant !!")
   }
}
```

In if statement, conditional must be a boolean expression.if $\verb"scor"$ e $\{$... $\}$ is an error, not implicit comparison to zero.

You can assign if conditions to an assignment

```
let intere sti ngN umbers = [
   " country codes from my holida ys": [66, 1, 86, 82]

" cricket player s": [49, 56, 26, 30],
]

var largest = 0
for (_, numbers) in intere sti ngN umbers {
   for number in numbers {
     if number > largest {
        largest = number
     }
   }
}
```



By nixik09

cheatography.com/nixik09

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