

Swift 5 Reference Cheat Sheet by zyqhi via cheatography.com/79780/cs/19305/

Closures

```
// Syntax
{ (parameters) -> return type in
    statements
}
```

1. Closures are self-contained blocks of functionality that can be passed around and used in your code.

Closures Syntax Optimizations

```
let names = ["Chris", "Alex", "Ewa", "Barry",
"Daniella"]
// 1
revers edNames = names.s or ted(by: { (s1: String,
s2: String) -> Bool in
       return s1 > s2
})
// 2. Inferring Type From Context
revers edNames = names.s or ted(by: { s1, s2 in
return s1 > s2 })
// 3. Implicit Returns from Single -Ex pre ssion
Closures
revers edNames = names.s or ted(by: { s1, s2 in s1
> s2  )
// 4. Shorthand Argument Names
revers edNames = names.s or ted(by: \{ \$0 > \$1 \} )
// 5. Operator Methods, operator (>) is a method
revers edNames = names.s or ted(by: >)
// 6. Trailing Closures
revers edNames = names.s or ted() { $0 > $1 }
// function with only one arguement
revers edNames = names.s orted { $0 > $1 }
```

1. A trailing closure is written after the function call's parentheses, even though it is still an argument to the function.

Escaping Closures

```
var completionHandlers: [() -> Void] = []
func someFu nct ion Wit hEs cap ing Clo sur e(h -
andler: @escaping () -> Void) {
        com ple tio nHa ndl ers.ap pen d(h andler)
}
func someFu nct ion Wit hNo nes cap ing Clo sur -
e(c losure: () -> Void) {
```

Escaping Closures (cont)

```
> closure()
}
class SomeClass {
  var x = 10
  func doSomething() {
    someFunctionWithEscapingClosure {
       self.x = 100
    }
    someFunctionWithNonescapingClosure {
       x = 200
    }
}
```

- 1. A closure is said to escape a function when the closure is passed as an argument to the function, but is called after the function returns.
- 2. Marking a closure with *@escaping* means you have to refer to self explicitly within the closure.

Autoclosures

```
var customersInLine = ["Chris", "Alex", "Ewa",
"Barry", "Daniella"]
func serve( cus tomer custom erP rov ider:
@autoc losure () -> String) {
        pri nt( "Now serving \((cust ome rPr ovi - der ()) !")
}
serve( cus tomer: custom ers InL ine.re mov e(at: 0))
```

- 1. An *autoclosure* is a closure that is automatically created to wrap an expression that's being passed as an argument to a function.
- 2. An autoclosure lets you delay evaluation.

Functions



1. Functions are self-contained chunks of code that perform a specific task.



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Property

```
class SomeClass {
      // Type Property
       static var stored Typ ePr operty = "Some
value."
       static var comput edT ype Pro perty: Int {
              return 27
       class var overri dea ble Com put edT ype -
Pro perty: Int {
             return 107
      // Lazy Stored Property
      lazy var view = UIView()
      // Stored Property
      let data = [String]()
      // Computed Property
      var id: Int = 0 {
              willSet {
                  pri nt( " About to set \
(newV alu e)")
              didSet {
                      pri nt( "Did set id to \
(id), oldValue is \((oldV alu e)")
      var idStr: String {
              set {
                     id = Int(idStr) ?? 0
              }
              get {
                     return String(id)
      var desc: String {
              return " Rea donly proper ty."
```

Property (cont)

> }

- 1. Computed properties must be declared with the *var* keyword, because their value is not fixed.
- 2. A lazy stored property is a property whose initial value is not calculated until the first time it is used.

Enumeration

```
/// Use enum
enum Planet {
     case mercury, venus, earth, mars, jupiter,
saturn, uranus, neptune
}
var p = Planet.venus
p = .uranus
/// Iterating over Enumer ation Cases
enum Beverage: CaseIt erable {
     case coffee, tea, juice
let number OfC hoices = Bevera ge.a ll Cas es.c -
print( " \(n umb er0 fCh oices) beverages availa -
for beverage in Bevera ge.a ll Cases {
      pri nt( " bev ergae is \((beve rag e) ")
/// Associated Values
enum Barcode {
     case upc(Int, Int, Int, Int)
      case qrCode (St ring)
```

- **1.** An enumeration defines a common type for a group of related values and enables you to work with those values in a type-safe way within your code.
- 2. Conforming to the *CaseIterable* protocol makes a enum iterable.

