

If / else if / else

```
if var1 == var2 {
    pri nt( " Ok")
} else if var1 < var2 {
    pri nt( "Not ok")
} else {
    pri nt( " Maybe ok")
}
```

Switch

```
switch (var1, var2) {
    case (3, 8):
        print("Su re")
    case (1...15, 20..<25):
        print("Ra nge s")
    case (let localVar1, let localVar2) where
localVar1 + localVar2 > 30:
        print(local Var1, localVar2)
    default:
        print("No thi ng")
}
```

while / repeat while

```
var digit = 5
while digit > 0 {
    digit -= 1
    pri nt( digit)
}
repeat {
    digit -= 1
    pri nt( digit)
} while digit >= 0
```

for in

```
for item in ["item1", "item2"] {
    pri nt( item)
}
```

Guard

```
guard var1 >= 3 else {
    pri nt( " Lower than 2")
    con tinue
}
```

Optionals

```
var optional1: String?
var optional2: Int? = 10
```



By [deleted]

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Not published yet.

Last updated 19th August, 2018.

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Basic class

```
class Adventurer {
    var name: String
    var hp: Int
    let maxHealth: Int = 100

    static var credo = "Defend the helpless"

    var specialMove: String?

    var toFullHp: Int {
        return maxHealth - hp
    }

    var health: Int {
        get {
            return hp
        }
        set {
            hp = newValue
        }
    }

    init(name: String, hp: Int) {
        self.name = name
        self.hp = hp
    }

    convenience init(name: String) {
        self.init(name: name, hp: 100)
    }
}
```

Subclass

```
class Adventurer {
    var name: String
    static var credo = "Defend the helpless"

    init(name: String) {
        self.name = name
    }

    func attack(damage: Int) {
        print("Attacking for \(damage) damage.")
    }

    static func printCredo() {
        print(credo)
    }
}

class Ranger: Adventurer {

    var classAdvantage: String

    init(name: String, advantage: String) {
        self.classAdvantage = advantage
        super.init(name: name)
    }

    override func attack(damage: Int) {
        print("Ranger attack for \(damage) ")
    }

}

var adventurer = Adventurer(name: "Harrison")
var ranger = Ranger(name: "Steven", advantage: "Stealth")
```



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Array

```
var Array: Array<String> = []
var Array2 = Array<String>()
var Array3 = [Double]()
var Array4: [Int] = []
```

Dictionary

```
var dict1: Dictionary<Int, Int> = [:]
var dict2 = Dictionary<Int, String>()
var dict3 = [String : String]()
var dict4: [String : String] = [:]
```

Tuple

```
var tuple = (string: "str", int: 1, isBool: true)
var tuple2: (string: String, int: Int, isBool: Bool)
tuple2 = ("str", 1, true)
var tuple3: (String, Int, Bool) = ("str", 1, true)
```

Set

```
var set = Set<Int>()
var set2: Set<Int> = []
```

Basic function

```
func myFunction(value: String) -> Bool {
    print("Basic function")
    return true
}
```

Complex function

```
func myFunction(value1: String = "Value1", value2: Int = 2) -> (return1: String, return2: Int) {
    print("Complex function")
    return ("string", 3)
}
```

Functions as parameter

```
func superFunc(value: Int) -> Int {
    return value * 4
}
func myFunc(value: Int, anotherFunc: (Int) -> Int) {
    let var1 = anotherFunc(value)
    print(var1)
}
myFunc(2, superFunc)
```



Empty Closure

```
var closureDeclaration: () -> () = {}
```

Basic shorthand

```
var closure = { (parameterString: String) -> Void
in
    pri nt( par ame ter String)
}
```

Closure shorthand

```
var closure: (String) -> String = { value in
    return " \ (v alu e)"
}
```

Closures as function parameters

```
func myFunc(closure: ([String]) -> Void) {
    let array = ["va lue 1", " val ue2 ", " -
val ue3 ", " val ue4 "]
    clo sur e(a rray)
}
myFunc { (values) in
    for value in values {
        pri nt( " \ (v alu e)")
    }
}
```



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