

iOS Development

Swift 5

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Swift

"Swift is a general-purpose programming language built using a modern approach to safety, performance, and software design patterns."

Not just for iOS, NodeJS-like webserver in Swift

Introduction to Swift

```
import UIKit // Imports UIKit module

// Create a constant. Implicit caste

// to String type

var str = "Hello, playground"
```

Introduction to Swift

```
import Foundation // Imports Foundation module
// Create a constant. Implicitly set to
// to Float type
let interestRate = 0.04
// Explicit
let initialPrincipal:Float = 100
```

Mutability (Swift 5)

Immutable: let String
Mutable: var String

Immutable: let Array
Mutable: var Array

Immutable: let Dictionary
Mutable: var Dictionary

Immutable: let Data
Mutable: var Data

Introduction to Swift - Functions

```
func greet(person: String, day: String) -> String
{
    return "Hello \(person), today is \(day)."
}
greet(person: "Bob", day: "Tuesday")
```

Introduction to Swift - Classes

```
class NamedShape {
    var numberOfSides: Int = 0
    var name: String
     init(name: String) {
          self.name = name
     func simpleDescription() -> String {
          return "A shape with \((numberOfSides)) sides."
Excerpt From: Apple Inc. "The Swift Programming Language (Swift 3 Beta)." iBooks. https://itun.es/us/k5SW7.1
```

Introduction to Swift - Instantiation

```
var namedShapeInstance = NamedShape(name: "shape name")
```

```
let simpleDescriptionString: String =
namedShapeInstance.simpleDescription()
```

Excerpt From: Apple Inc. "The Swift Programming Language (Swift 3 Beta)." iBooks. https://itun.es/us/k5SW7.1

Introduction to Swift - Unicode

```
"let π = 3.14159
let 你好 = "你好世界"
let 设 : "dogcow"
```

Excerpt From: Apple Inc. "The Swift Programming Language (Swift 3 Beta)." iBooks. https://itun.es/us/k5SW7.1

```
39
40
41 let = "Greatest ever!"
42
43
```

Introduction to Swift - Loops

```
while( Bool ) {
    // Do something until Bool is false
}
```

Introduction to Swift - Loops

```
for index in 0 ..< 10 {
    print("\(index\) is the index")
}

for index in 0 ... 10 {
    print("\(index\) is the index")
}</pre>
```

Conversions

```
var floatValue = 0.4
let intValue:Int = Int(floatValue) // 0
floatValue = Float(intValue) // 0.0
```

Xcode and Playgrounds

Demo