

Swift Study #5

#이상한모임 @신촌

Subscripts

`someArray[0]`

`someDictionary["apple"]`

Subscript Syntax

```
subscript (index: Int) -> Int {  
    get {  
        ...  
    }  
    set(newValue) {  
        ...  
    }  
}
```

Read-Only

```
subscript (index: Int) -> Int {  
}
```

```
struct TimesTable {  
    let multiplier: Int  
    subscript(index: Int) -> Int {  
        return multiplier * index  
    }  
}  
  
let three = TimesTable(multiplier: 3)  
println(three[3])
```

Subscript Usage

```
var numberOfLegs  
    = ["spider": 8, "ant": 6, "cat": 4]
```

```
numberOfLegs["bird"] = 2
```

```
numberOfLegs["ant"] = nil
```

Subscript Options

```
struct Matrix {  
    let rows: Int, columns: Int  
    var grid: [Double]  
  
    init(rows: Int, columns: Int) {  
        self.rows = rows  
        self.columns = columns  
        grid = Array(count: rows * columns,  
repeatedValue: 0.0)  
    }  
    func indexIsValidForRow(row: Int, column: Int) ->  
Bool {}  
  
    subscript(row: Int, column: Int) -> Double {}  
}
```



```
subscript(row: Int, column: Int) -> Double {  
    get {  
        assert(indexIsValidForRow(row, column: column),  
"Index out of range")  
        return grid[(row * columns) + column]  
    }  
  
    set {  
        assert(indexIsValidForRow(row, column: column),  
"Index out of range")  
        grid[(row * columns) + column] = newValue  
    }  
}
```

```
func isValidForRow(row: Int, column: Int) ->
Bool {
    return row >= 0 && row < rows && column >= 0 &&
column < columns
}
```

```
var matrix = Matrix(rows: 2, columns: 2)
matrix[0, 1] = 1.5
matrix[1, 0] = 3.2

println(matrix[0,1])    //1.5
println(matrix[1,0])    //3.2
```