Quick Swift Tips and Tricks

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LOOP THROUGH NON-OPTIONAL VALUES

```
for case let datum? in data {
   print(datum)
}
```

LOOP OVER ENUMS WITH ASSOCIATED VALUE

```
for case let .rain(mm) in weather {
   print("Expect \(mm)mm rain.")
}
```

LOOP USING WHERE TO FILTER VALUES

```
for num in arr where num % 2 == 1 {
   print(num)
}
```

CHECK VALUE IS WITHIN A RANGE

```
if 45...55 ~= score {
    print("Your score was average")
}
```

FIND NAMES THAT START WITH TAYLOR

```
let result = names.filter {
   $0.hasPrefix("Taylor")
}
```

FIND HIGHEST OF THREE NUMBERS

```
let largest = max(max(first,
second), third)
```

MAKE A STRING BY REPEATING A CHARACTER

```
let str = String(repeating: "=",
count: 5)
```

LOAD A TEXT FILE OR USE DEFAULT VALUE

```
let savedText = (try?
String(contentsOfFile: "saved")) ??
"Default text here"
```

CREATE CONSTANTS WITH DESTRUCTURING

```
let (captain, chef, engineer) =
("Janeway", "Neelix", "Torres")
```

REMOVE DUPLICATE VALUES FROM AN ARRAY

```
let scores = [5, 3, 6, 1, 5, 3, 9]
let scoresSet = Set(scores)
let uniqueScores = Array(scoresSet)
```

FIND LOWEST AND HIGHEST NUMBER IN ARRAY

```
let lowest = numbers.min
let highest = numbers.max
```

CHECK CONDITION IN DEBUG/RELEASE MODE

```
assert(1 == 2, "Failed!")
precondition(1 == 2, "Failed!")
```

COUNT CHARACTERS USED IN STRING ARRAY

```
let names = ["Jane", "Tim", "Dave"]
let count = names.reduce(0) {
   $0 + $1.characters.count
}
```

COUNT TIMES A STRING APPEARS IN ARRAY

```
let arr = ["Bob", "Dave", "Bob"]
let set = NSCountedSet(array: arr)
print(set.count(for: "Bob"))
```

READ FROM THE COMMAND LINE

```
if let name = readLine() {
   print("Hello, \(name)!")
}
```

VALIDATE THAT ALL STRINGS IN AN ARRAY ARE OVER FOUR CHARACTERS

```
let names = ["Jane", "Tim", "Dave"]
let longEnough = names.reduce(true)
{ $0 && $1.characters.count > 4 }
```

UPPERCASE AN ARRAY OF STRINGS

```
let fruits = ["Apple", "Cherry",
"Orange", "Pineapple"]
let upperFruits = fruits.map {
   $0.uppercased()
}
```

REMOVE NIL ITEMS IN AN ARRAY

```
let songs: [String?] = ["Red", nil,
"Mean", nil, "Fifteen", nil]
let result = songs.flatMap { $0 }
```

CONVERT AN ARRAY OF STRINGS TO INTEGERS, REMOVING INVALID VALUES

```
let scores = ["100", "Fish", "85"]
let flatMapScores = scores.flatMap {
   Int($0)
}
```

GENERATE RANDOM STRING WITH UUID

```
let uuid = UUID().uuidString
```