

SWIFT



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SWIFT



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EXPECTED RELEASE DATE:
LATE 2017

STAGE 1 & 2

STAGE 1

STRINGS



NO

STRINGS IN SWIFT 4

RE-EVALUATE THE API¹

¹ [HTTPS://GITHUB.COM/APPLE/SWIFT/BLOB/MASTER/DOCS/STRINGMANIFESTO.MD](https://github.com/apple/swift/blob/master/docs/StringManifesto.md)

² LOCALIZATION & INTERNATIONALIZATION ITSELF ARE PLANNED FOR SWIFT 5

STRINGS IN SWIFT 4

RE-EVALUATE THE API¹

> **HOW** TO USE INTERNATIONALIZATION API'S CORRECTLY²

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- > **HOW** TO USE INTERNATIONALIZATION API'S CORRECTLY²
 - > BETTER **UNICODE** SUPPORT

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 - > NO MORE **.characters** FOR MOST OPERATIONS

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 - > SUPPORTING Range **IN FAVOR OF** NSRange

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 - > **REGEX**

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WHAT ABOUT SOURCE STABILITY?

SE-0141³ TO THE RESCUE

```
@available(swift 4, *)
extension Collection {
    func index(offset: IndexDistance) -> Index {
        return index(startIndex, offsetBy: offset)
    }
    func offset(of i: Index) -> IndexDistance {
        return distance(from: startIndex, to: i)
    }
}
```

³ [HTTPS://GITHUB.COM/APPLE/SWIFT-EVOLUTION/BLOB/MASTER/PROPOSALS/0141-AVAILABLE-BY-SWIFT-VERSION.MD](https://github.com/apple/swift-evolution/blob/master/proposals/0141-available-by-swift-version.md)



STAGE 2

'SOME TIME IN SPRING 2017'

SWIFT-EVOLUTION⁴

⁴ [HTTPS://APPLE.GITHUB.IO/SWIFT-EVOLUTION/](https://apple.github.io/swift-evolution/)

WHAT IS UPON US?⁵

⁵ [HTTPS://GITHUB.COM/APPLE/SWIFT-EVOLUTION/PULLS?
UTF8=✓&q=label%3A%22out%20of%20scope%20for%20current%20release%22](https://github.com/apple/swift-evolution/pulls?utf8=✓&q=label%3A%22out%20of%20scope%20for%20current%20release%22)

WHAT IS UPON US?⁵

> ENFORCE CALLING SUPER

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WHAT IS UPON US?⁵

- > ENFORCE CALLING **SUPER**
- > **MULTI-LINE** STRING LITERALS

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WHAT IS UPON US?⁵

- > ENFORCE CALLING **SUPER**
- > **MULTI-LINE** STRING LITERALS
- > USER-PROVIDED WARNING DIAGNOSTICS **AT COMPILE TIME**

⁵ [HTTPS://GITHUB.COM/APPLE/SWIFT-EVOLUTION/PULLS?](https://github.com/apple/swift-evolution/pulls?utf8=✓&q=label%3A%22out%20of%20scope%20for%20current%20release%22)

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 - > THE **PIPELINE** (|>) OPERATOR

⁵ [HTTPS://GITHUB.COM/APPLE/SWIFT-EVOLUTION/PULLS?](https://github.com/apple/swift-evolution/pulls?utf8=✓&q=label%3A%22out%20of%20scope%20for%20current%20release%22)

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- > **MULTI-LINE** STRING LITERALS
- > USER-PROVIDED WARNING DIAGNOSTICS **AT COMPILE TIME**
 - > THE **PIPELINE** (|>) OPERATOR
- > INCREASED OBJECTIVE-C & SWIFT **INTEROPERABILITY**

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- > **MULTI-LINE** STRING LITERALS
- > USER-PROVIDED WARNING DIAGNOSTICS **AT COMPILE TIME**
 - > THE **PIPELINE** (|>) OPERATOR
- > INCREASED OBJECTIVE-C & SWIFT **INTEROPERABILITY**
 - > MUCH MORE ONCE STAGE 2 STARTS...

⁵ [HTTPS://GITHUB.COM/APPLE/SWIFT-EVOLUTION/PULLS?](https://github.com/apple/swift-evolution/pulls?utf8=✓&q=label%3A%22out%20of%20scope%20for%20current%20release%22)

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AND OF COURSE...

⁶ [HTTPS://LISTS.SWIFT.ORG/PIPERMAIL/SWIFT-EVOLUTION-ANNOUNCE/2017-JANUARY/000307.HTML](https://lists.swift.org/pipermail/swift-evolution-announce/2017-January/000307.html)

⁷ [HTTPS://GITHUB.COM/SWIFT-SERVER](https://github.com/swift-server)

AND OF COURSE...

- > **SWIFT PACKAGE MANAGER IMPROVEMENTS⁶**

⁶ [HTTPS://LISTS.SWIFT.ORG/PIPERMAIL/SWIFT-EVOLUTION-ANNOUNCE/2017-JANUARY/000307.HTML](https://lists.swift.org/pipermail/SWIFT-EVOLUTION-ANNOUNCE/2017-JANUARY/000307.html)

⁷ [HTTPS://GITHUB.COM/SWIFT-SERVER](https://github.com/swift-server)

AND OF COURSE...

- > **SWIFT PACKAGE MANAGER IMPROVEMENTS⁶**
 - > **SWIFT ON THE SERVER⁷**

⁶ [HTTPS://LISTS.SWIFT.ORG/PIPERMAIL/SWIFT-EVOLUTION-ANNOUNCE/2017-JANUARY/000307.HTML](https://lists.swift.org/pipermail/swift-evolution-announce/2017-january/000307.html)

⁷ [HTTPS://GITHUB.COM/SWIFT-SERVER](https://github.com/swift-server)

AND OF COURSE...

- > SWIFT PACKAGE MANAGER IMPROVEMENTS⁶
 - > SWIFT ON THE SERVER⁷
 - > ???

⁶ [HTTPS://LISTS.SWIFT.ORG/PIPERMAIL/SWIFT-EVOLUTION-ANNOUNCE/2017-JANUARY/000307.HTML](https://lists.swift.org/pipermail/SWIFT-EVOLUTION-ANNOUNCE/2017-JANUARY/000307.html)

⁷ [HTTPS://GITHUB.COM/SWIFT-SERVER](https://github.com/swift-server)

WORLD DOMINATION

@BASTHOMAS
@SWIFTLYBRIEF⁸

⁸ [HTTPS://SWIFTWEEKLY.GITHUB.IO](https://swiftweekly.github.io)