Localization in SwiftU

Testing any languages & regions in seconds

Hi, I'm Ben

Senior Software Engineer @ SHOPBACK



Agenda

• Localization?

• SwiftUI & Xcode Preview X

Automation Testing

Localization?

Localization?

countries & regions

languages

Localization?

Bonjour

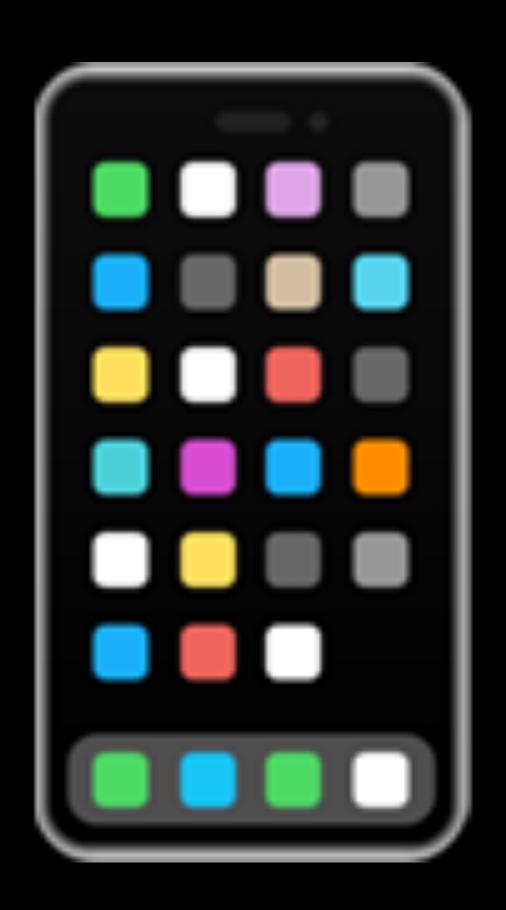
你好

Hello

Hallo

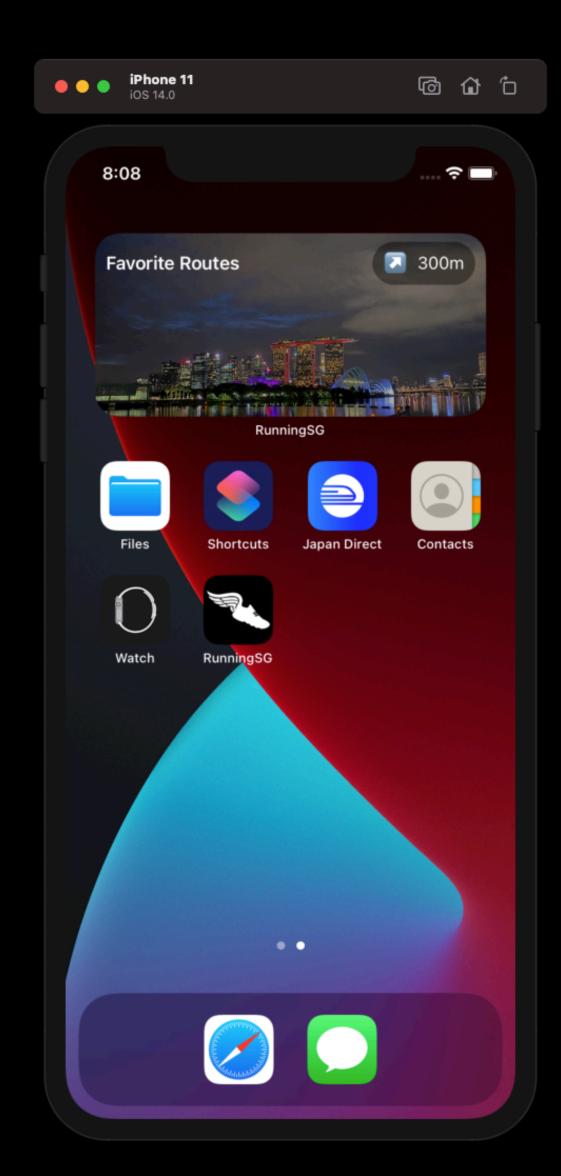
Olá

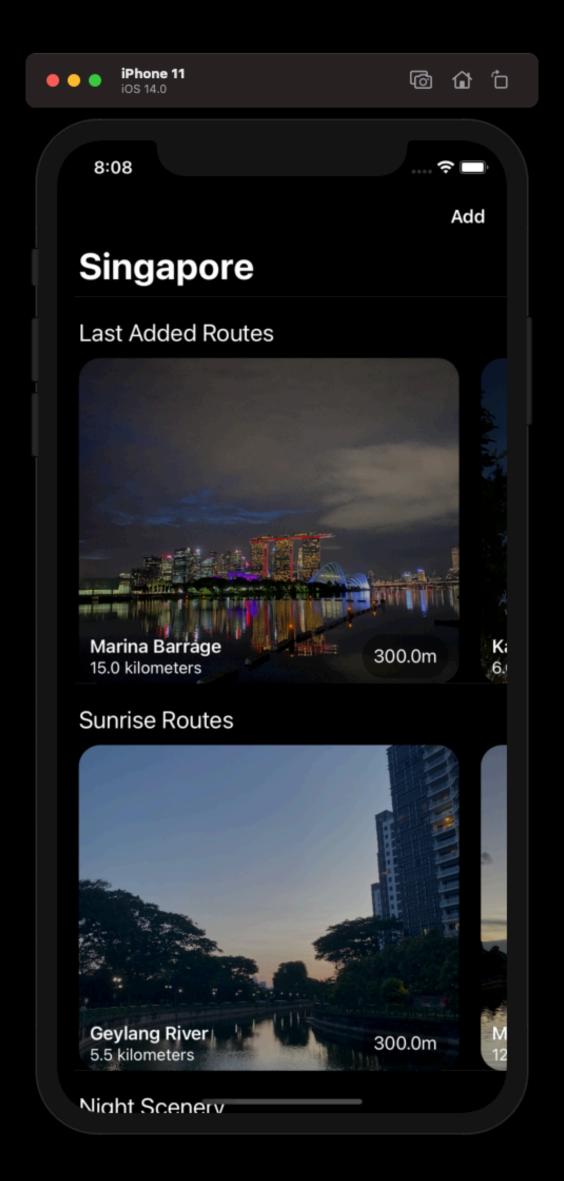
Ciao

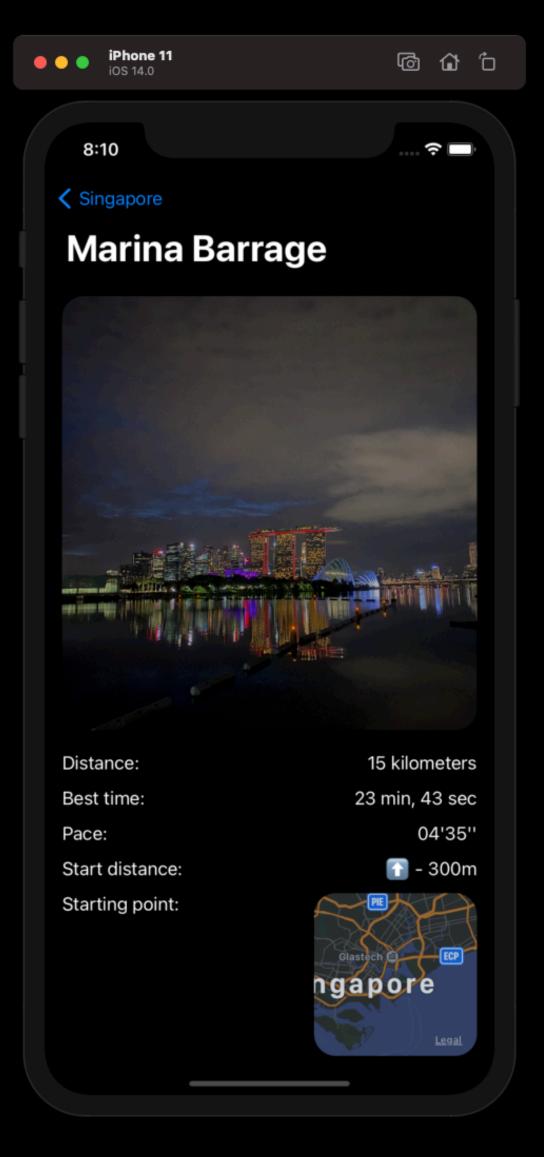


SwiftUI and Xcode Preview X









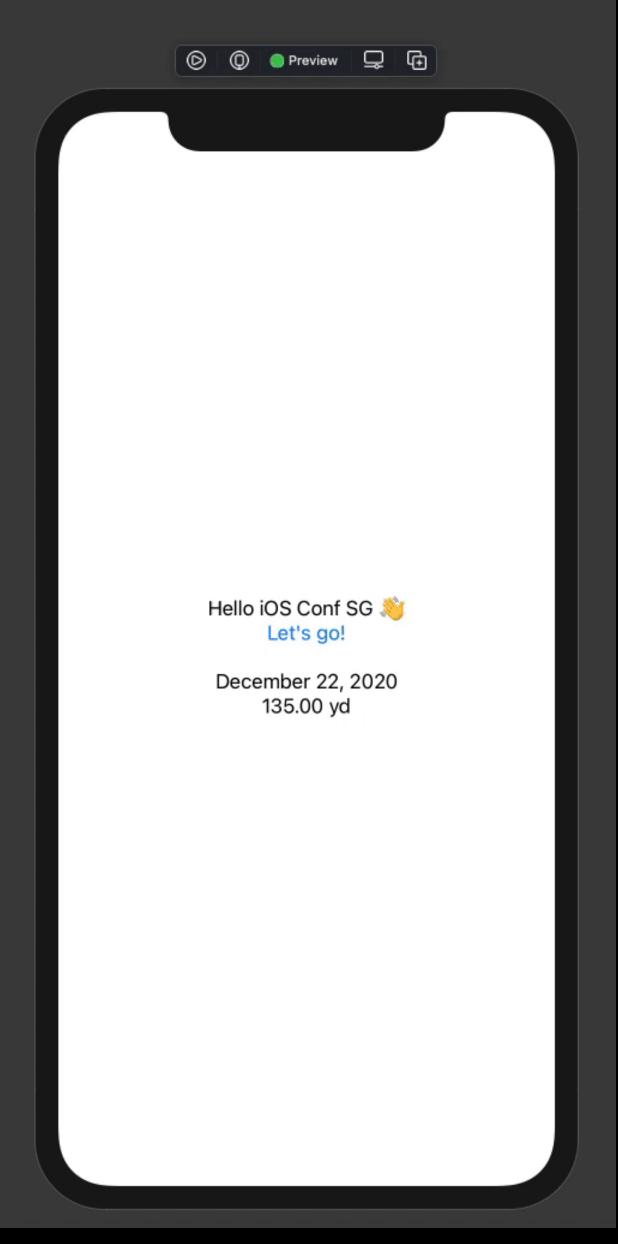
LocalizedStringKey (AB)

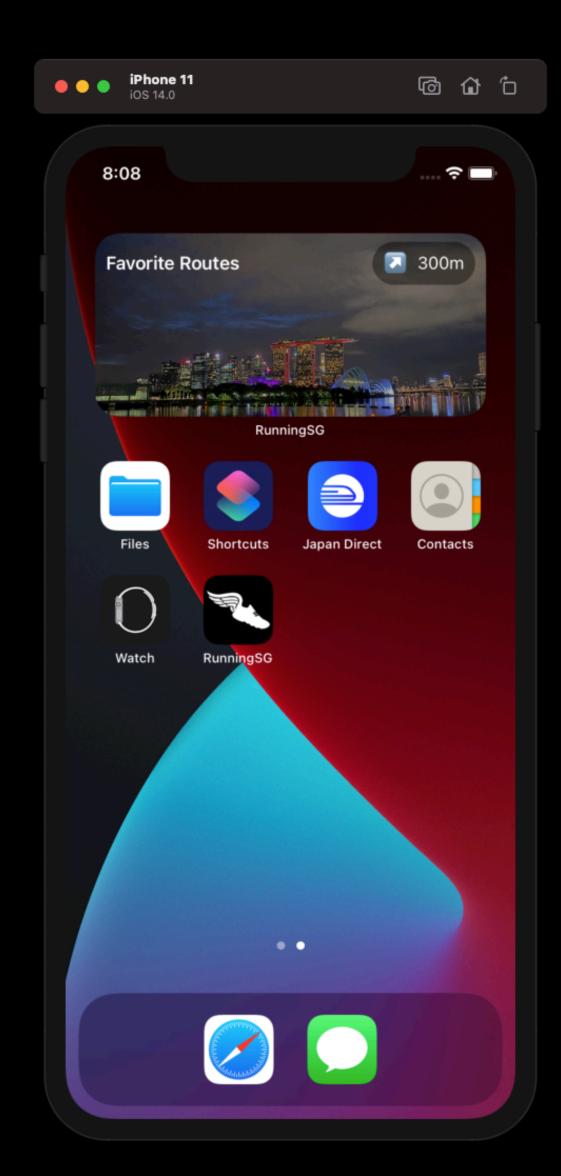
- Text
- TextField
- Button
- Navigation Title
- Navigation Link

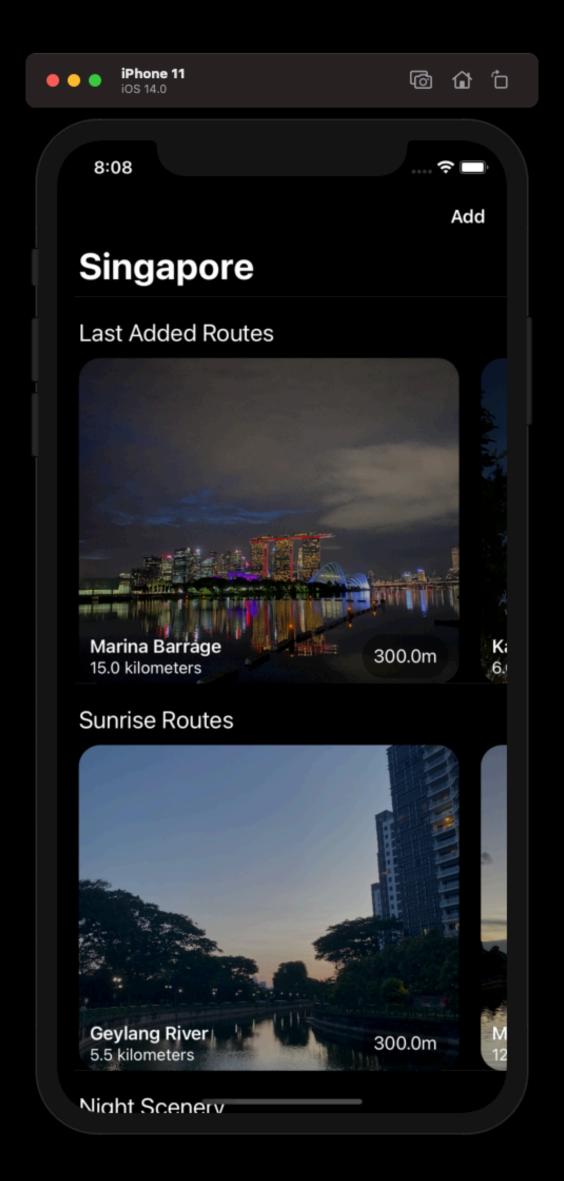


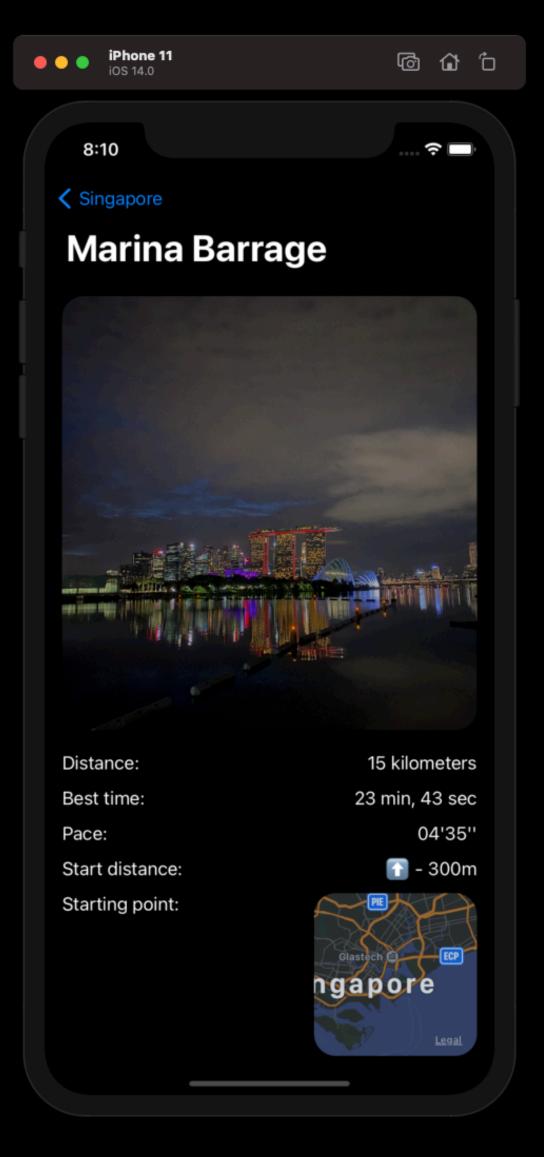
- Date and Style
- Formatter, ReferenceConvertible & NSObject
- Date Range
- Date Interval

```
4 //
5 // Created by Benoit PASQUIER on 22/12/2020.
6 //
8 import SwiftUI
10 struct SampleView: View {
       let formatter: LengthFormatter
       let subject: NSNumber
12
13
       init() {
           self.formatter = LengthFormatter()
           self.formatter.numberFormatter.minimumFractionDigits = 2
16
           self.formatter.numberFormatter.maximumFractionDigits = 2
17
           self.subject = NSNumber(value: 123.45)
19
       var body: some View {
21
           VStack(spacing: 20) {
22
               VStack {
23
                   Text("Hello iOS Conf SG")
24
                   Button("Let's go!", action: { })
25
27
               VStack {
                   Text(Date(), style: .date)
29
                   Text(subject, formatter: formatter)
31
32
33
34 }
35
36 struct SampleView_Previews: PreviewProvider {
       static var previews: some View {
37
           SampleView()
38
               .environment(\.locale, Locale(identifier: "ert"))
39
40
41 }
42
```









Demo in

Localization Preview (1)

String type

Formatters

• String.localizedStringWithFormat(...) 🚳

Preview Workaround

LocalizedStringKey everything

Abstraction

Code generation

```
protocol LengthFormatterProtocol {
    var numberFormatter: NumberFormatter! { get set }
    func string(fromValue value: Double, unit: LengthFormatter.Unit) -> String
    func string(fromValue value: Double, unit: LengthFormatter.Unit, unitStyle: Formatter.UnitStyle) -> String
}

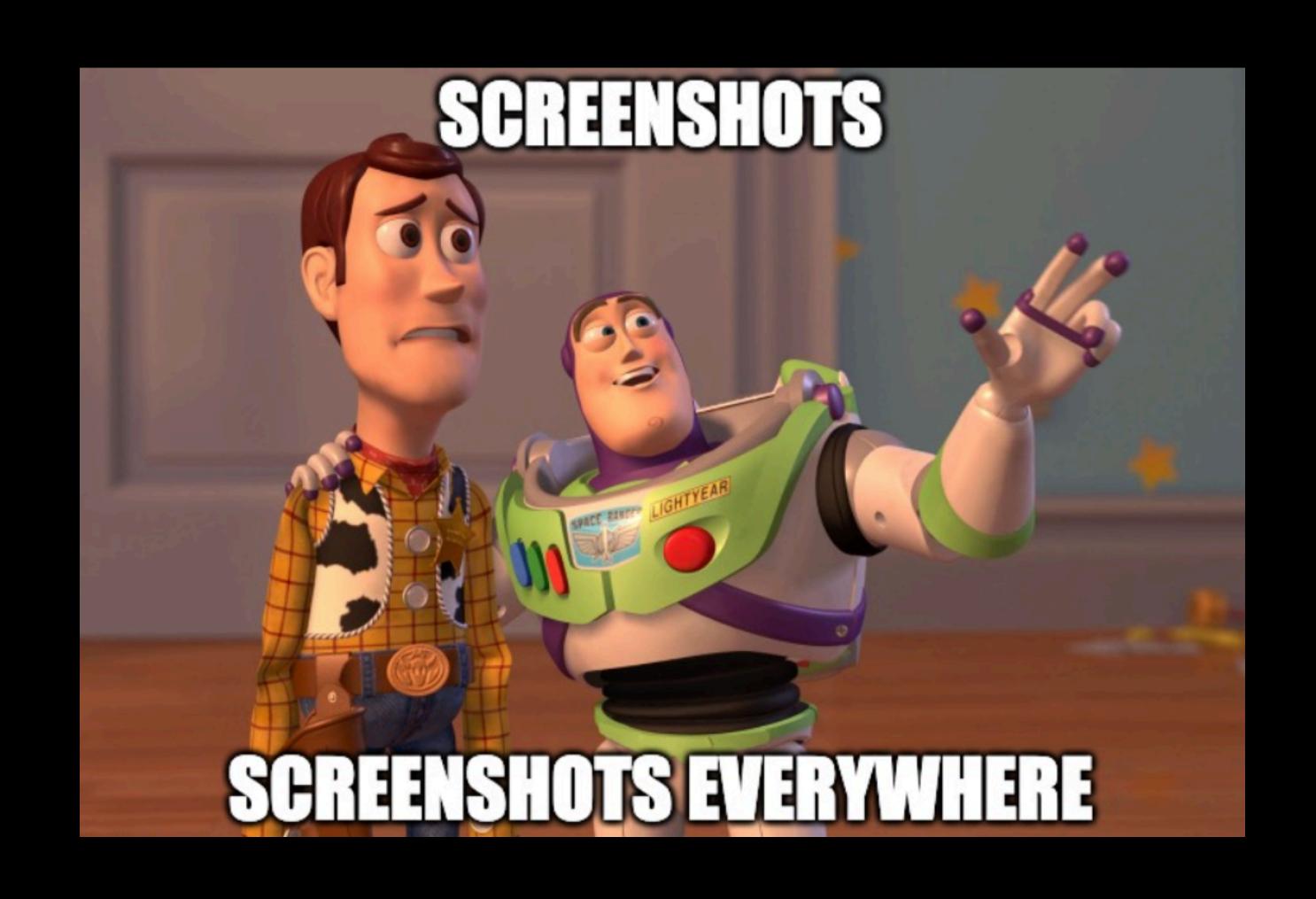
extension LengthFormatter: LengthFormatterProtocol {
    func string(fromValue value: Double, unit: Unit, unitStyle: Formatter.UnitStyle) -> String {
        self.unitStyle = unitStyle
        return string(fromValue: value, unit: unit)
    }
}
```

Demo in

Automation Testing 👜



Automation Testing 💩



Demo in

Conclusion

Localization

SwiftUI & Xcode Preview **

Automation Testing

Find me @BenoitPasquier_ and https://benoitpasquier.com