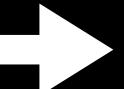
Swift Package Plugin In Use

Auto Generate your code

The problem

The problem

- SFG
 - III README
 - Package
 - > SFGSearch
 - SFGSequence
 - SFGShareLink
 - SFGSplitTileNG
 - SFGString
 - SFGSuggestionsClient
 - SFGSynchronized
 - SFGtoSugarIdService



- 🗸 📑 SFGUI
 - > 💕 Coachmark
 - OptionButtonView
 - PillViews
 - Resources
 - BasicShapes
 - Color + HTML
 - Calor + SFG
 - Font + SFG
 - NSAttributedString+SFG
 - NSMutableAttributedString+SFG
 - SFGAccessibilityFocus
 - SFGActivityIndicator
 - SFGAdaptiveStack
 - SFGAnimationDots
 - SEGRoldedSubText

Zero Maintenance

Avoid changes in production code

```
public extension Color {
    static var sfgFog:
        static var sfgFogLight:
    static var sfgFogMedium:
    static var sfgDark:
    static var sfgIgnite:
        Color { .init(.sfgFogMedium) }
        Color { .init(.sfgDark) }
        Color { .init(.sfgDark) }
        Color { .init(.sfgIgnite) }
        Col
```

WWDC 2022

```
Image(named: "Heart")
.resizable()

public let Heart = Image("Heart", bundle: .module)

Heart
.resizable()
```

BuildToolPlugin

```
import Foundation
import PackagePlugin
@main
struct SFGUIPreviews: BuildToolPlugin {
    func createBuildCommands(context: PackagePlugin.PluginContext, target: PackagePlugin.Target) async throws ->
[PackagePlugin.Command] {
        guard let target = target as? SourceModuleTarget else {
            return []
        let paths = target.sourceFiles(withSuffix: "swift").map { $0.path }
        let output = context.pluginWorkDirectory.appending(["SFGPreviewsCollection.swift"])
        let allPaths = paths.map({ $0.string }).joined(separator: ",")
        return [.buildCommand(displayName: "Generating constants for SFGUI",
                             executable: try context.tool(named: "SFGUIPreviewsCollector").path,
                             arguments: [allPaths, output.string],
                             inputFiles: paths,
                             outputFiles: [output])]
```

main.swift

```
var generatedCode = """
    import Foundation
    import SwiftUI
    struct SFGUIPreviewItem: Identifiable {
        let id = UUID().uuidString
        let previews: (any View)
        let title: String
        var readableTitle: String?
        var description: String?
    struct SFGUIColorItem: Identifiable {
        let id = UUID().uuidString
        let title: String
        let color: Color
    111111
```

```
import Foundation
import SwiftUI

struct SFGUIPreviewItem: Identifiable {
    let id = UUID().uuidString
    let previews: (any View)
    let title: String
    var readableTitle: String?
    var description: String?
}

struct SFGUIColorItem: Identifiable {
    let id = UUID().uuidString
    let title: String
    let color: Color
}
```

main.swift

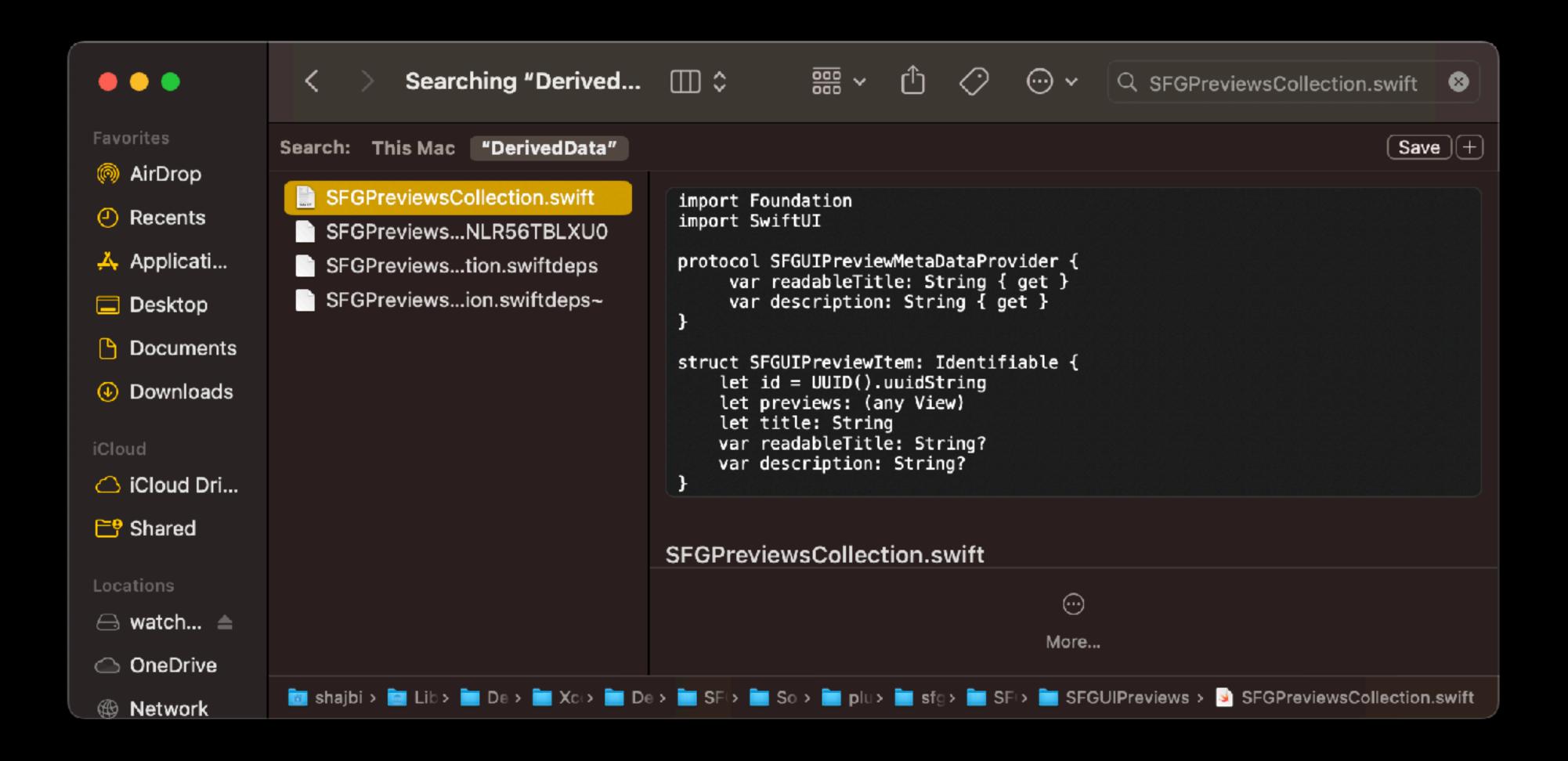
```
regex.enumerateMatches(in: fileString, range: range) { (match, _, _) in
   if let matchRange = match?.range(at: 1),
       let swiftUIPreviewNameRange = Range(matchRange, in: fileString) {
       let previewName = fileString[swiftUIPreviewNameRange]
       print("Found preview: \(previewName)")
       let name = "\(previewName.lowercased())_previewItem"
       previewsGeneratedCode.append(""""
            var \(name) = SFGUIPreviewItem(previews: \(previewName).previews,
                          title: "\(previewName.replacingOccurrences(of: "_Previews", with: ""))")
            let any_\(previewName): Any = \(previewName)()
           allPreviews.append(\(name))
        111111)
```

SFGPreviewsCollection.swift

```
func getAllSFGUIColors() -> [SFGUIColorItem] {
    var allColors: [SFGUIColorItem] = []
    let colorItem_sfgFog = SFGUIColorItem(title: ".sfgFog", color: Color.sfgFog)
    allColors.append(colorItem_sfgFog)
    let colorItem_sfgFogLight = SFGUIColorItem(title: ".sfgFogLight", color: Color.sfgFogLight)
    allColors.append(colorItem_sfgFogLight)
func getAllSFGUIPreviews() -> [SFGUIPreviewItem] {
 var allPreviews: [SFGUIPreviewItem] = []
  var sfgcoachmarkcontainerview_previews_previewItem =
      SFGUIPreviewItem(previews: SFGCoachMarkContainerView_Previews.previews, title: "SFGCoachMarkContainerView")
 allPreviews.append(sfgcoachmarkcontainerview_previews_previewItem)
```

SFGPreviewsCollection.swift

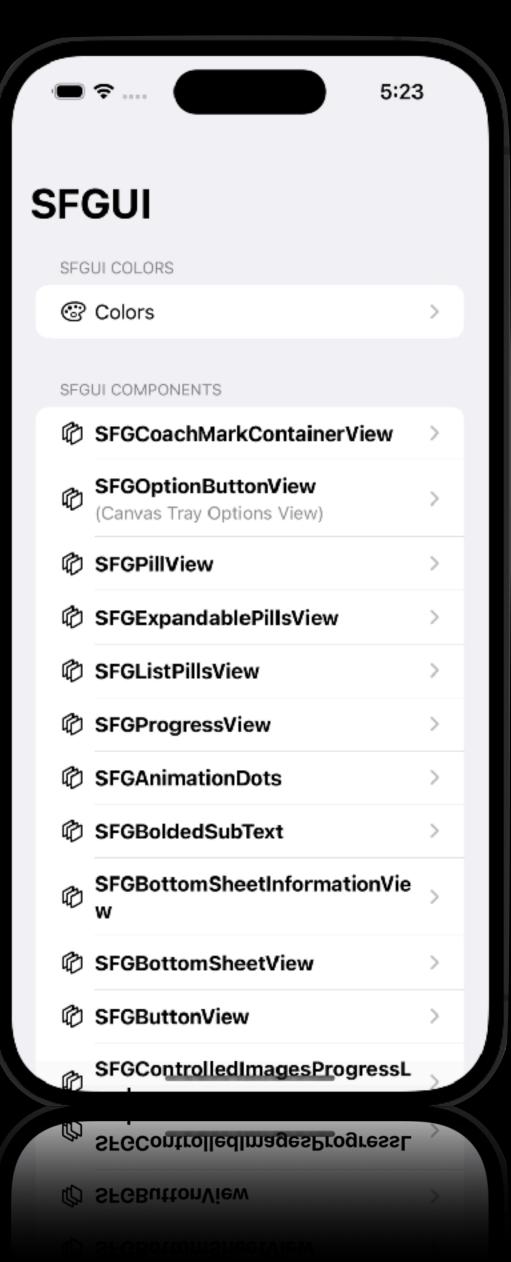
(Derived Data Folder)

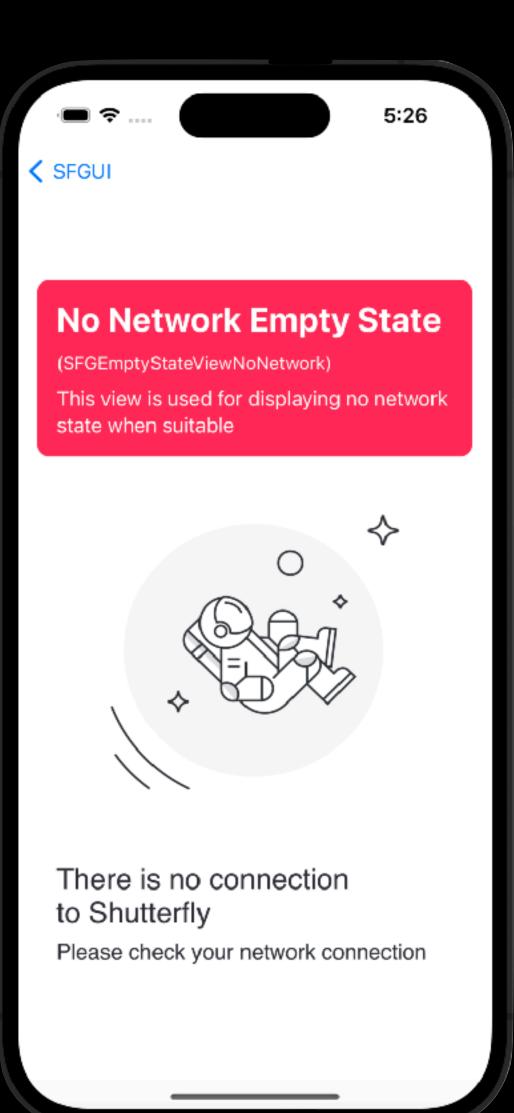


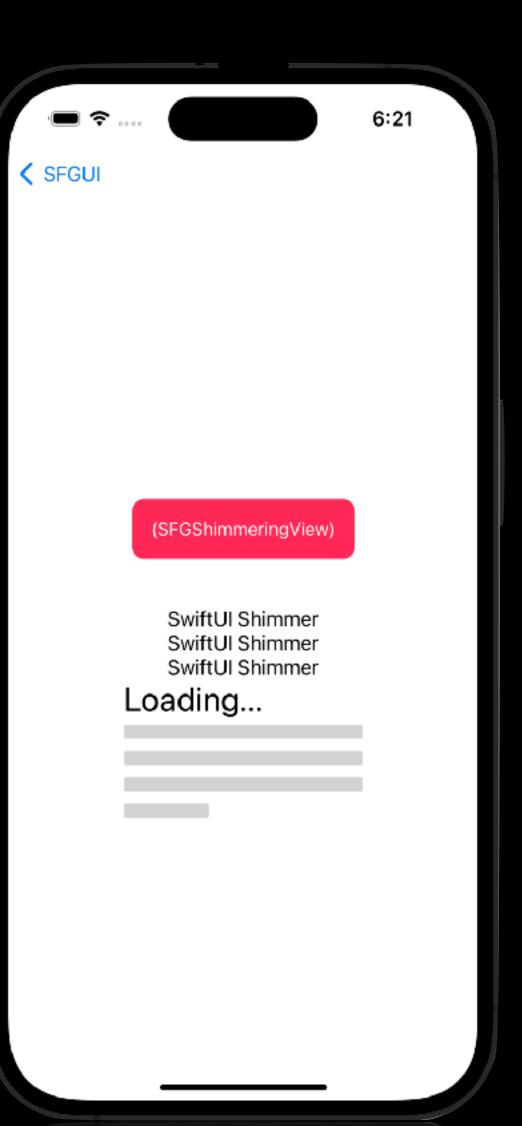
SFGPreviewsView.swift

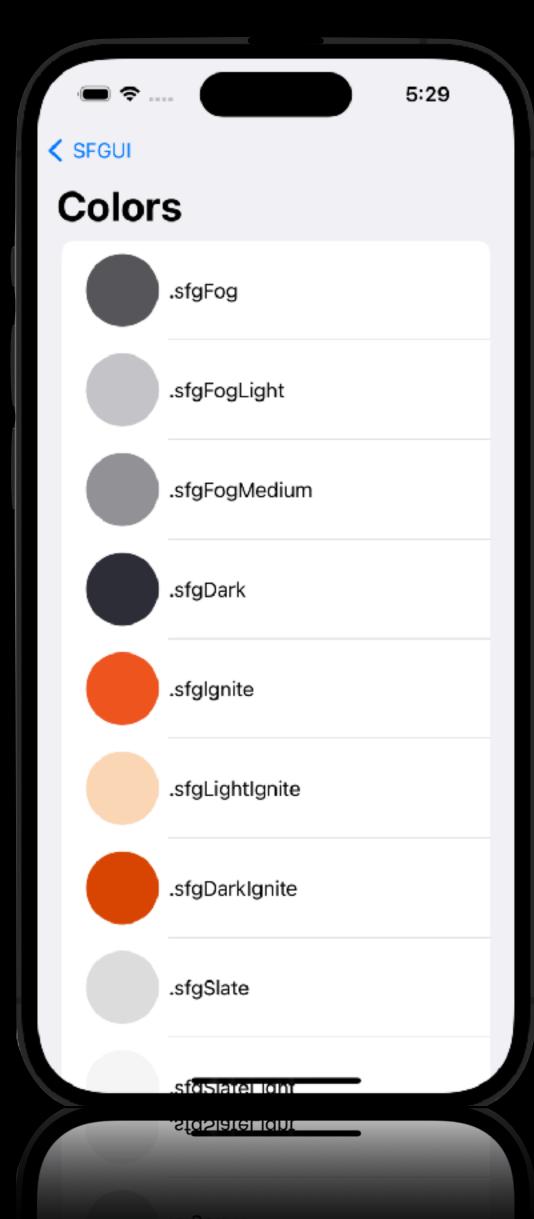
```
@State var previews: [SFGUIPreviewItem] = getAllSFGUIPreviews()

Section(header: Text("SFGUI Components")) {
    ForEach(previews) { previewItem in
        SFGUIPreviewItemView(previewItem: previewItem)
    }
}
```









Thanks