

Intro to SwiftUI

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Objetivos

- Declarativo
- Automático
- Composição
- Consistente

O que é uma View?

- Similar a **UIView**
- É um protocolo e não uma classe.
- **View** deve sempre retornar uma **View** na propriedade **body**.

```
struct ContentView: View {  
    var body: some View {  
        Text("Hello World")  
    }  
}
```

Criando Stack

- Se você quiser colocar três **Labels** acima um do outro
- HStack, VStack e ZStack

```
var body: some View {
    VStack {
        Text("Hello World")
        Text("Hello World")
        Text("Hello World")
    }
}
```

Criando *List*

- Registrar célula
- Dizer quantidade de items
- Fazer dequeue
- Configurar a célula
- Etc...

Criando *List*

```
struct UserRow: View {  
    var user: User  
  
    var body: some View {  
        Text("\(user.firstName) \(user.lastName)")  
    }  
}
```

```
struct ContentView: View {  
    var body: some View {  
        // create some example data  
        let user1 = User(id: 1, firstName: "Piper", lastName: "Chapman")  
        let user2 = User(id: 2, firstName: "Gloria", lastName: "Mendoza")  
        let users = [user1, user2]  
  
        // show that data  
        return List(users) { user in  
            UserRow(user: user)  
        }  
    }  
}
```

Apresentando tela de detalhes

```
struct DetailView: View {  
    var selectedUser: User  
  
    var body: some View {  
        Text(selectedUser.lastName)  
            .font(.largeTitle)  
            .foregroundColor(.red)  
    }  
}
```

```
return NavigationView {  
    List(users) { user in  
        NavigationLink(destination: DetailView(selectedUser: user)) {  
            UserRow(user: user)  
        }  
    }.navigationBarTitle("Users")  
}
```

Demo

UIKit equivalente no SwiftUI

UIKit	SwiftUI	Note
UILabel	Text	
UITabBar	TabView	
UITabBarItem	TabView	.tabItem under TabView
UITextField	TextField	For password (<code>isSecureTextEntry</code>) use SecureField
UITableView	List	also VStack and Form
UINavigationBar	NavigationView	Part of NavigationView
UIBarButtonItem	NavigationView	.navigationBarItems in NavigationView
UICollectionView	-	
UIStackView	HStack	.axis == .Horizontal
UIStackView	VStack	.axis == .Vertical

UIKit equivalente no SwiftUI

UIScrollView	ScrollView	
UIActivityIndicatorView	-	
UIImageView	Image	
UIPickerView	Picker	
UIButton	Button	
UIDatePicker	DatePicker	
UIPageControl	-	
UISegmentedControl	Picker	A style (<code>SegmentedPickerStyle</code>) of Picker
UISlider	Slider	
UIStepper	Stepper	
UISwitch	Toggle	
UIToolBar	-	

Integração de frameworks

- UIKit no SwiftUI

```
struct ActivityIndicator: UIViewRepresentable {  
    @Binding var isAnimating: Bool  
  
    func makeUIView(context: Context) -> UIActivityIndicatorView {  
        let v = UIActivityIndicatorView()  
  
        return v  
    }  
  
    func updateUIView(_ uiView: UIActivityIndicatorView, context:  
        Context) {  
        if isAnimating {  
            uiView.startAnimating()  
        } else {  
            uiView.stopAnimating()  
        }  
    }  
}
```

Integração de frameworks

- SwiftUI no UIKit

```
let vc = UIHostingController(rootView: ContentView())|
```

Sugestões para aprendizado

<https://developer.apple.com/tutorials/SwiftUI>

Peguntas?

Obrigado