

< What is the @Environment property wrapper?

What is the @FocusState property wrapper? >

What is the @Binding property wrapper?

Paul Hudson @twostraws May 3rd 2021

Updated for Xcode 13.2

@Binding lets us declare that one value actually comes from elsewhere, and should be shared in both places. This is *not* the same as @ObservedObject or @EnvironmentObject, both of which are designed for reference types to be shared across potentially many views.

For example, we might have a ContentView with an @State property storing whether a child view is being presented or not, like this:

```
struct ContentView: View {
    @State private var showingAddUser = false

    var body: some View {
        VStack {
            // your code here
        }
        .sheet(isPresented: $showingAddUser) {
            // show the add user view
        }
    }
}
```

That uses showingAddUser for the isPresented parameter of our sheet, which means when that Boolean becomes true the add user view will be shown. However, how can we allow the add user view to dismiss itself if it needs to – if the user taps a Done button, for example?

What we *want* to happen is for the add user view to set showingAddUser back to false, which will cause ContentView to hide it. This is exactly what @Binding is for: it lets us create a property in the add user view that says “this value will be provided from elsewhere, and will be shared between us and that other place.”

So, we might create an add user view like this:


```
struct AddView: View {
    @Binding var isPresented: Bool

    var body: some View {
        Button("Dismiss") {
            isPresented = false
        }
    }
}
```

That property literally means “I have a Boolean value called isPresented, but it’s being stored elsewhere.” So, when we create that AddView to replace the // show the add user view comment from earlier, we’d need to provide the value so it can be manipulated:

```
.sheet(isPresented: $showingAddUser) {
    AddView(isPresented: $showingAddUser)
}
```

This allows both ContentView and AddView to share the same Boolean value – when it changes in one place it also changes in the other.



Raycast

SPONSORED Get work done faster with [Raycast](#). The Mac app brings the macOS Spotlight experience to the next level: Search files, create GitHub pull requests, close Jira issues and so much more. Use the [Xcode extension](#) to open recent projects, search iOS documentation and clear derived data. Or, build your own extension with an easy-to-use API.

[Find out more](#)

Sponsor Hacking with Swift and reach the world's largest Swift community!

Similar solutions...

- All SwiftUI property wrappers explained and compared
- What is the @GestureState property wrapper?
- What is the @Published property wrapper?
- How to fix “Cannot convert value of type 'String' to expected argument type 'Binding'”
- How to create a List or a ForEach from a binding

< What is the @Environment property wrapper?

What is the @FocusState property wrapper? >

BUY OUR BOOKS

PRO SWIFT

SWIFT DESIGN PATTERNS

TESTING SWIFT

HACKING WITH iOS

SWIFT CODING CHALLENGES

SWIFT ON *Sundays*

SERVER-SIDE SWIFT VAPOR

ADVANCED iOS VOLUME ONE

ADVANCED iOS VOLUME TWO

ADVANCED iOS VOLUME THREE

HACKING WITH watchOS

HACKING WITH tvOS

macOS

DIVE INTO SPRITEKIT

Swift IN SIXTY SECONDS

Objective-C For Swift Developers

SERVER-SIDE SWIFT KITURA

Beyond Code

Was this page useful? Let us know!



Average rating: 3.9/5

Click here to visit the Hacking with Swift store >>



@twostraws



paul@hackingwithswift.com



Sponsor the site

About

Glossary

Privacy Policy

Refund Policy

Update Policy

Code of Conduct

Thanks for your support, Jay Welshofer!

Swift, SwiftUI, the Swift logo, Swift Playgrounds, Xcode, Instruments, Cocoa Touch, Touch ID, AirDrop, iBeacon, iPhone, iPad, Safari, App Store, watchOS, tvOS, Mac and macOS are trademarks of Apple Inc., registered in the U.S. and other countries. Pulp Fiction is copyright © 1994 Miramax Films. Hacking with Swift is ©2021 Hudson Heavy Industries.



You are not logged in

Log in or create account