



SwiftUI

Better apps. Less code.

SwiftUI

Native framework from Apple.

Declarative view.

Views are structs.

SwiftUI uses states.

SwiftUI creates a binding with the state

When a states change SwiftUI render a new view.

@State

property wrapper

- SwiftUI manages the storage of any property you declare as a state. When the state value changes, the view invalidates its appearance and recomputes the body. Use the state as the single source of truth for a given view.
- Declares @State as private because you should only access a state property from inside the view's body
- To pass a state property to another view in the view hierarchy, use the variable name with the \$prefix operator.

@Binding

property wrapper

- Use a binding to create a two-way connection between a property that stores data, and a view that displays and changes the data. A binding connects a property to a **source of truth** stored elsewhere, instead of storing data directly.

```
struct PlayButton: View {  
    @Binding var.isPlaying: Bool  
  
    var body: some View {  
        Button(action: {  
            self.isPlaying.toggle()  
        }) {  
            Image(systemName: isPlaying ? "pause.circle" : "play.circle")  
        }  
    }  
}
```

Observable Object protocol

- A type of object with a publisher that emits before the object has changed.
- We can add the `@ObservedObject`
- To get the changes of the object

```
class Contact: ObservableObject {  
    @Published var name: String  
    @Published var age: Int  
  
    init(name: String, age: Int) {  
        self.name = name  
        self.age = age  
    }  
  
    func haveBirthday() -> Int {  
        age += 1  
        return age  
    }  
}  
  
let john = Contact(name: "John Appleseed", age: 24)  
cancelable = john.objectWillChange  
    .sink { _ in  
        print("\(john.age) will change")  
    }  
print(john.haveBirthday())  
// Prints "24 will change"  
// Prints "25"
```

Property

@Environment



BindableObject

@State

@Binding