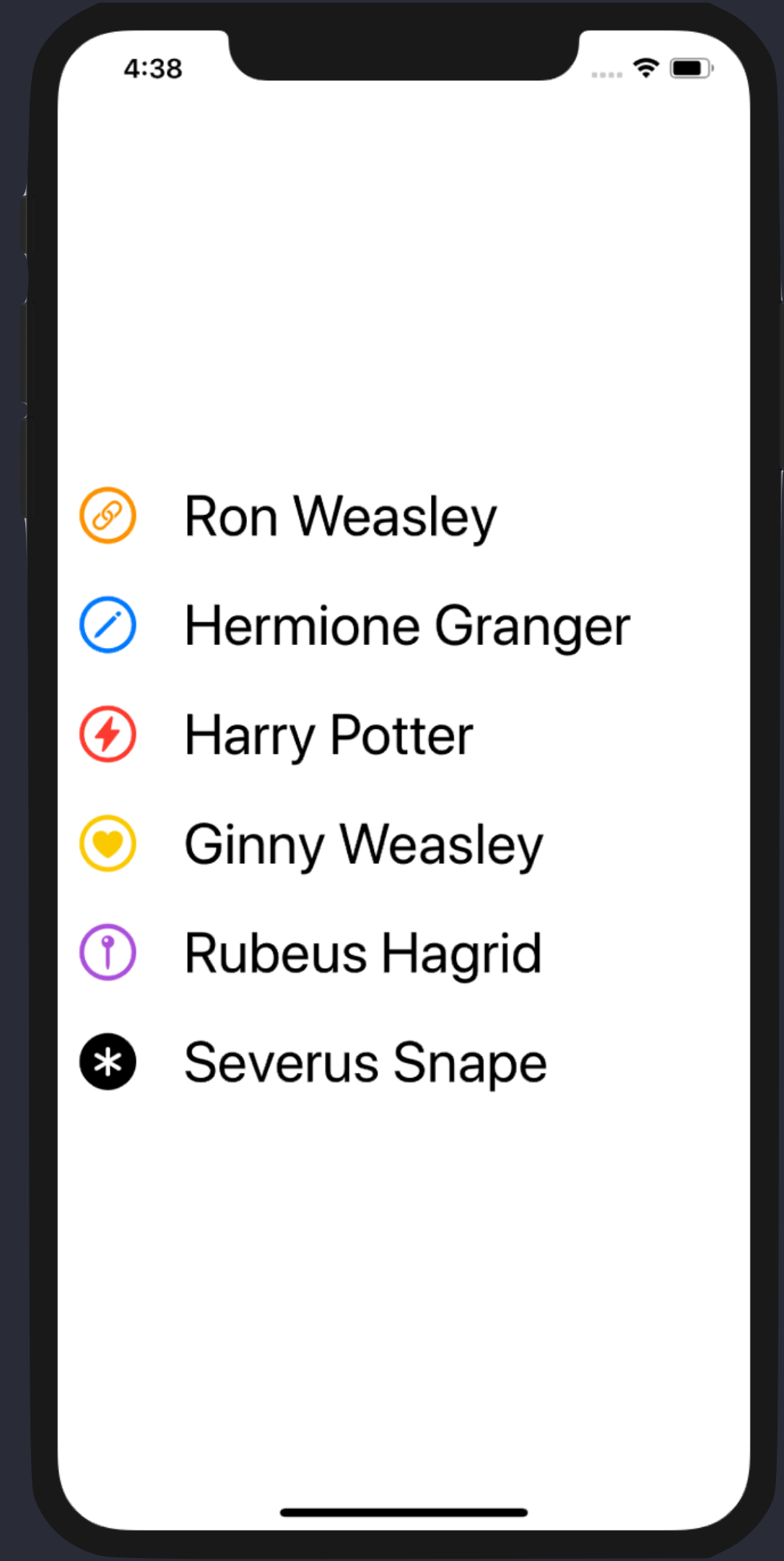


**Extraction de vues**

```

struct HeroList: View {
    var body: some View {
        VStack (alignment: .leading) {
            HStack {
                Image(systemName: "link.circle")
                    .foregroundColor( .orange )
                    .frame(width: 60)
                Text(" Ron Weasley")
            }.font(.largeTitle)
            HStack {
                Image(systemName: "pencil.circle")
                    .foregroundColor( .blue )
                    .frame(width: 60)
                Text(" Hermione Granger")
            }.font(.largeTitle)
            HStack {
                Image(systemName: "bolt.circle")
                    .foregroundColor( .red )
                    .frame(width: 60)
                Text(" Harry Potter")
            }.font(.largeTitle)
            HStack {
                Image(systemName: "heart.circle")
                    .foregroundColor( .yellow )
                    .frame(width: 60)
                Text(" Ginny Weasley")
            }.font(.largeTitle)
            HStack {
                Image(systemName: "mappin.circle")
                    .foregroundColor( .purple )
                    .frame(width: 60)
                Text(" Rubeus Hagrid")
            }.font(.largeTitle)
        }
    }
}

```

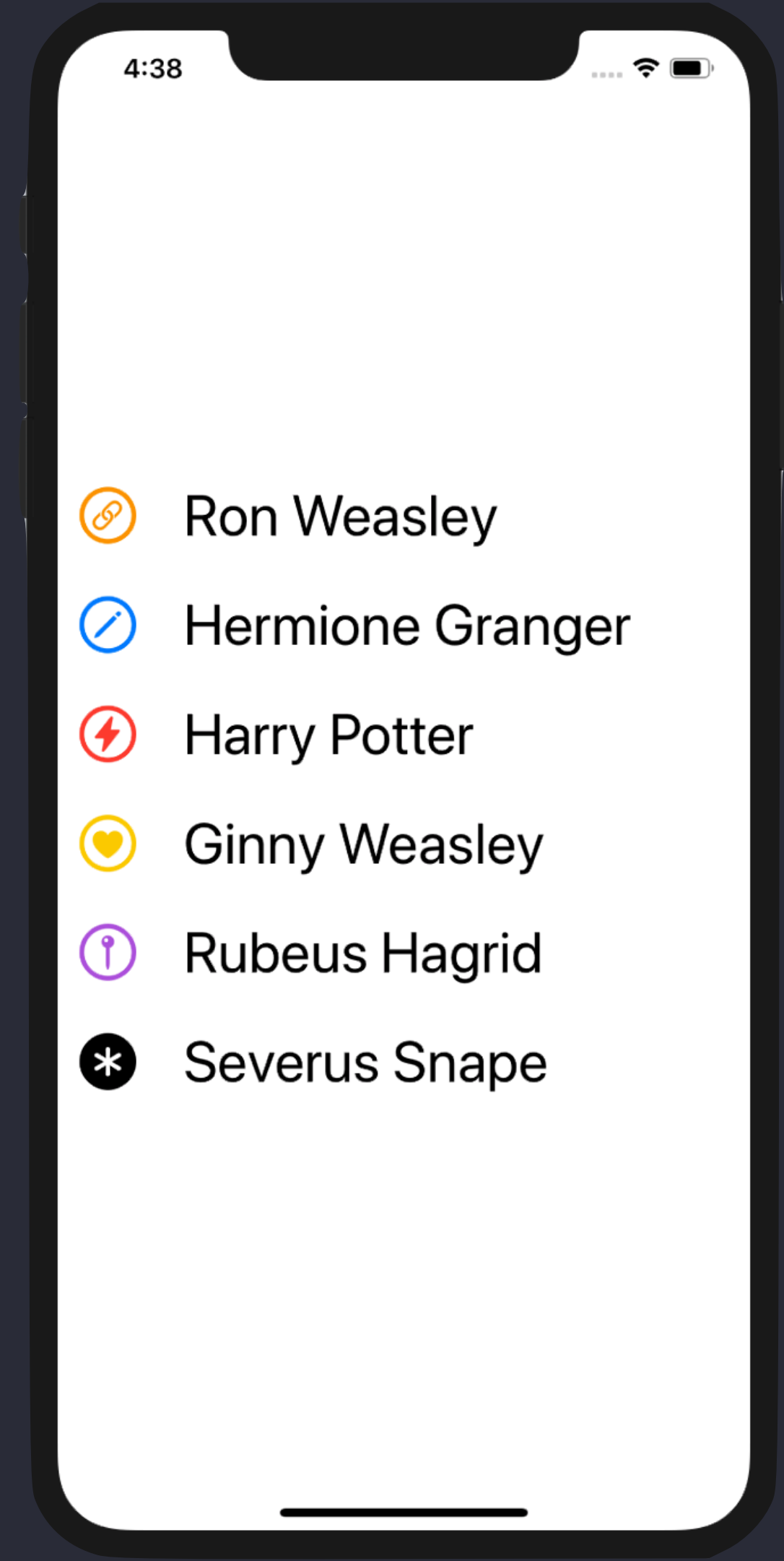


```

struct HeroList: View {
    var body: some View {
        VStack (alignment: .leading){
            HeroRow(icon: "link.circle", name: " Ron Weasley", color: .orange)
            HeroRow(icon: "pencil.circle", name: " Hermione Granger", color: .blue)
            HeroRow(icon: "bolt.circle", name: " Harry Potter", color: .red)
            HeroRow(icon: "heart.circle", name: " Ginny Weasley", color: .yellow)
            HeroRow(icon: "mappin.circle", name: " Rubeus Hagrid", color: .purple)
            HeroRow(icon: "asterisk.circle.fill", name: " Severus Snape", color: .black)
        }
    }
}

struct HeroRow: View {
    let icon: String
    let name: String
    let color: Color
    var body: some View {
        HStack {
            Image(systemName: icon)
                .foregroundColor(color)
                .frame(width: 60)
            Text(name)
        }.font(.largeTitle)
    }
}

```

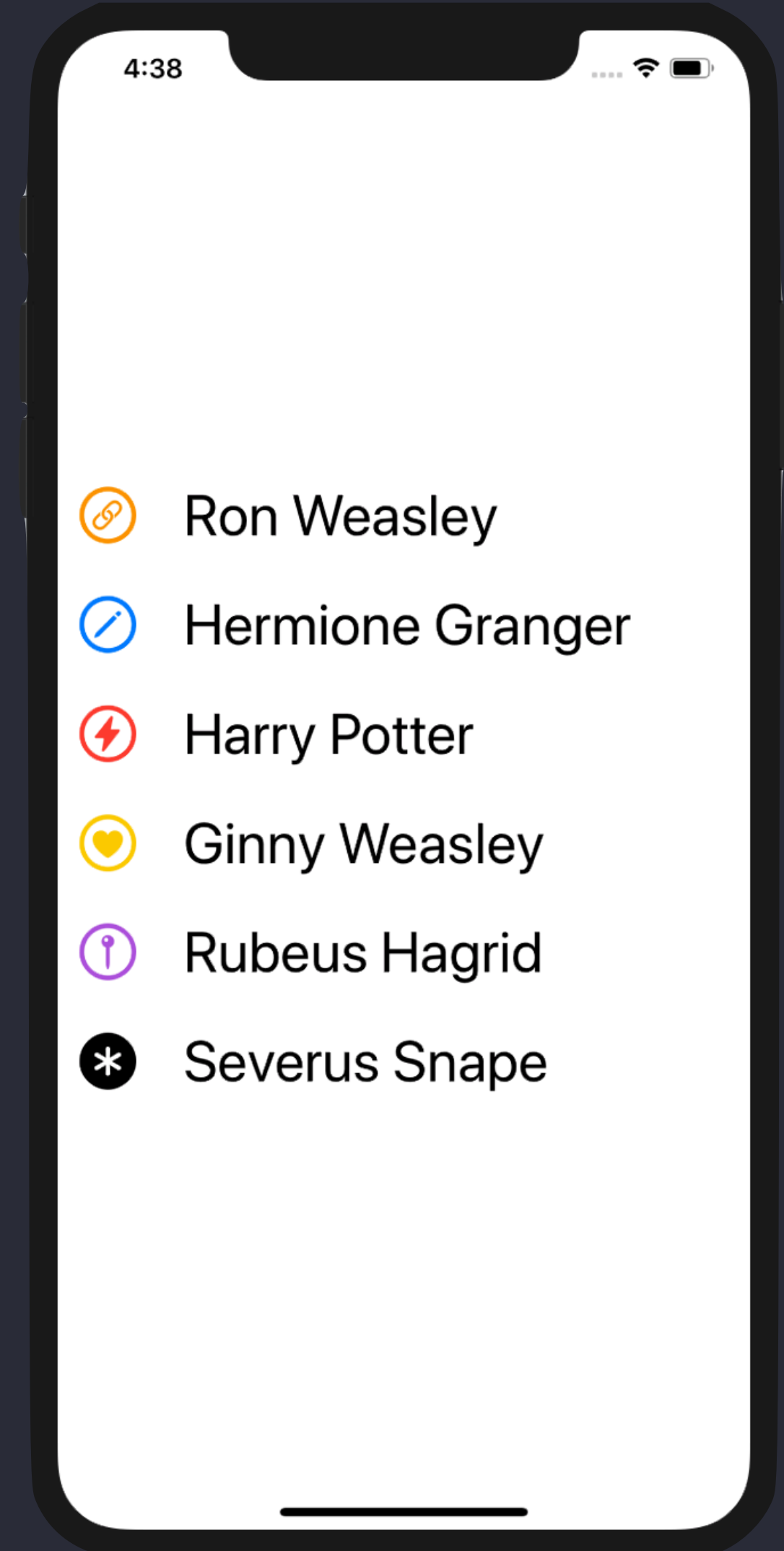


```

struct HeroList: View {
    var body: some View {
        VStack (alignment: .leading){
            HeroRow(icon: "link.circle", name: " Ron Weasley", color: .orange)
            HeroRow(icon: "pencil.circle", name: " Hermione Granger", color: .blue)
            HeroRow(icon: "bolt.circle", name: " Harry Potter", color: .red)
            HeroRow(icon: "heart.circle", name: " Ginny Weasley", color: .yellow)
            HeroRow(icon: "mappin.circle", name: " Rubeus Hagrid", color: .purple)
            HeroRow(icon: "asterisk.circle.fill", name: " Severus Snape", color: .black)
        }
    }
}

struct HeroRow: View {
    let icon: String
    let name: String
    let color: Color
    var body: some View {
        HStack {
            Image(systemName: icon)
                .foregroundColor(color)
                .frame(width: 60)
            Text(name)
        }.font(.largeTitle)
    }
}

```



# Pourquoi ? 🤔

- Éviter de dupliquer du code
- Plus facile à lire
- Plus facile à maintenir
- Moins de risque de bugs
- Réutilisabilité
  - Un composant complexe personnalisable avec quelques paramètres !

**Two way binding**

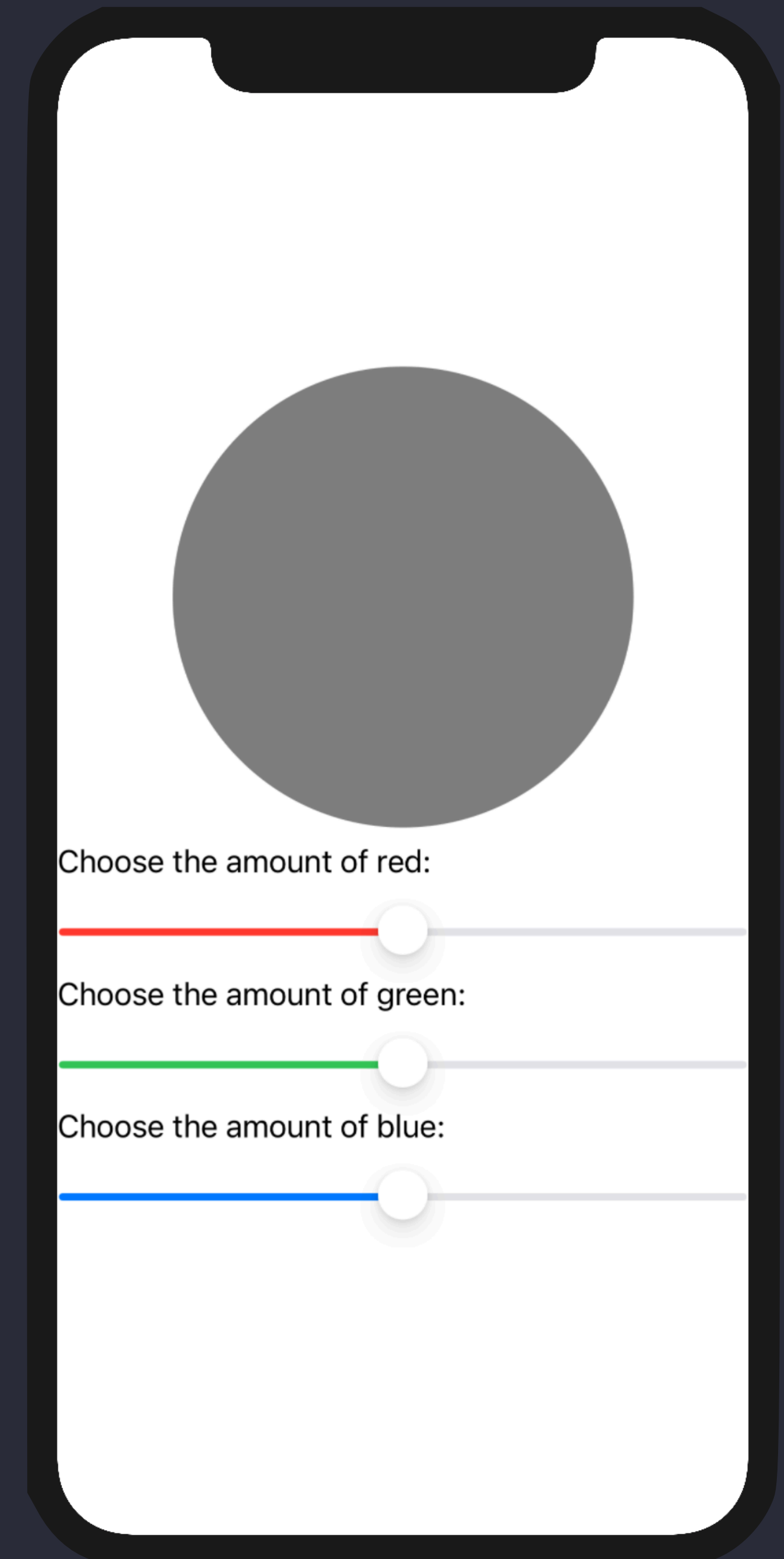
```

struct ColorPickerView: View {

    @State var red: Double = 0.5
    @State var green: Double = 0.5
    @State var blue: Double = 0.5

    var body: some View {
        VStack {
            Color(red: red, green: green, blue: blue, opacity: 1)
                .frame(width: 250, height: 250)
                .mask(Circle())
            VStack(alignment: .leading) {
                Text("Choose the amount of red:")
                Slider(value: $red, in: 0...1) {
                    Text("Red Slider")
                }
                .accentColor(.red)
            }
            VStack(alignment: .leading) {
                Text("Choose the amount of green:")
                Slider(value: $green, in: 0...1) {
                    Text("Green Slider")
                }
                .accentColor(.green)
            }
            VStack(alignment: .leading) {
                Text("Choose the amount of blue:")
                Slider(value: $blue, in: 0...1) {
                    Text("Blue Slider")
                }
                .accentColor(.blue)
            }
        }
    }
}

```



```

struct ColorPickerView: View {

    @State private var red: Double = 0.5
    @State private var green: Double = 0.5
    @State private var blue: Double = 0.5

    var body: some View {
        VStack {
            Color(red: red, green: green, blue: blue, opacity: 1)
                .frame(width: 250, height: 250)
                .mask(Circle())
            ColorPickerSlider(colorValue: red, colorName: "red", color: .red)
            ColorPickerSlider(colorValue: green, colorName: "green", color: .green)
            ColorPickerSlider(colorValue: blue, colorName: "blue", color: .blue)
        }
    }
}

```

```

struct ColorPickerSlider: View {

```

```

    var colorValue: Double
    let colorName: String
    let color: Color

```

```

    var body: some View {
        VStack(alignment: .leading) {
            Text("Choose the amount of \(colorName):")
            Slider(value: colorValue, in: 0...1) {
                Text("\(colorName.capitalized) Slider")
            }
            .accentColor(color)
        }
    }
}

```



Cannot convert value of type 'Double' to expected argument type 'Binding<Double>'



```

struct ColorPickerView: View {

    @State private var red: Double = 0.5
    @State private var green: Double = 0.5
    @State private var blue: Double = 0.5

    var body: some View {
        VStack {
            Color(red: red, green: green, blue: blue, opacity: 1)
                .frame(width: 250, height: 250)
                .mask(Circle())
            ColorPickerSlider(colorValue: $red, colorName: "red", color: .red)
            ColorPickerSlider(colorValue: $green, colorName: "green", color: .green)
            ColorPickerSlider(colorValue: $blue, colorName: "blue", color: .blue)
        }
    }
}

```

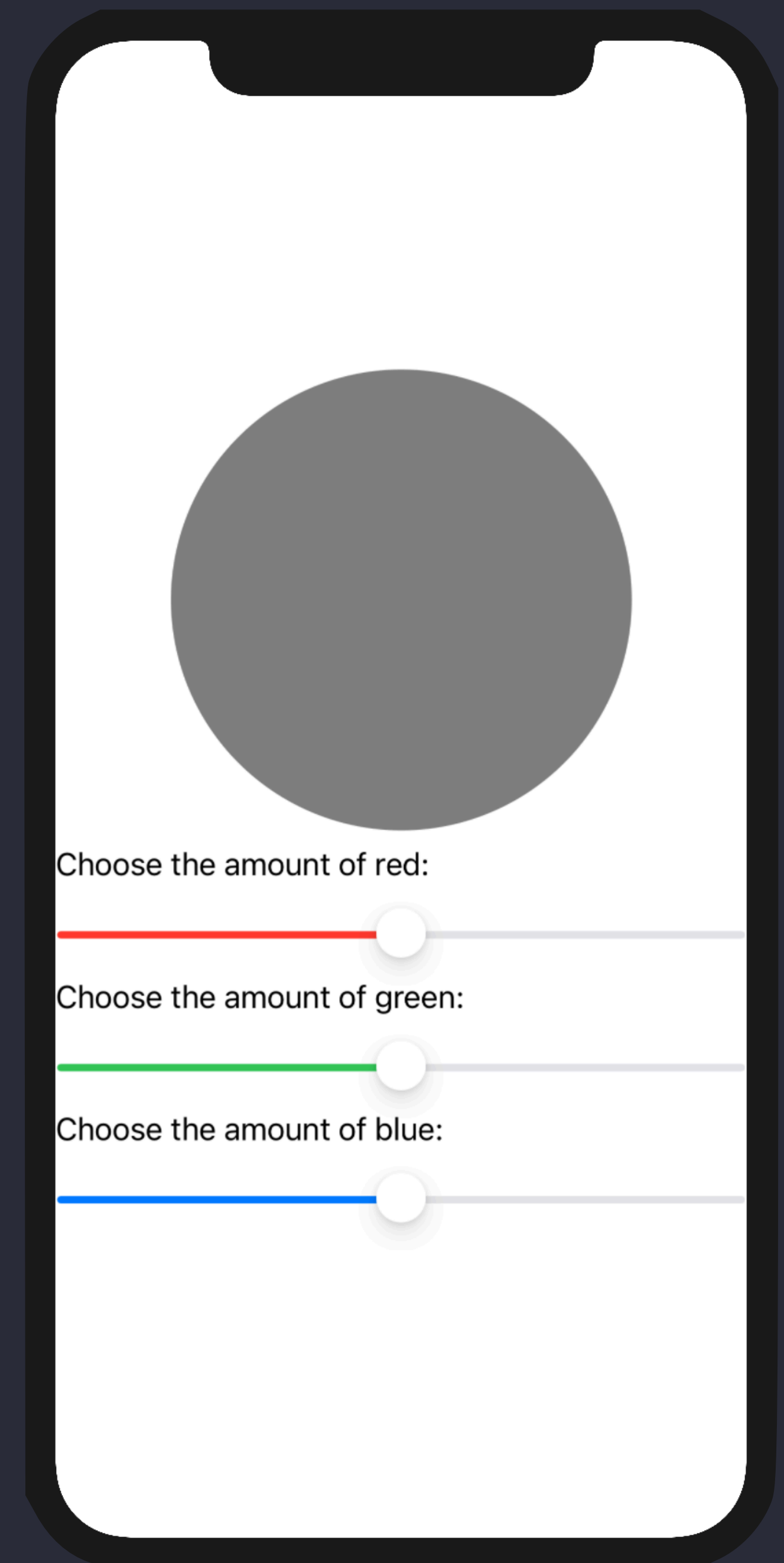
```

struct ColorPickerSlider: View {

    @Binding var colorValue: Double
    let colorName: String
    let color: Color

    var body: some View {
        VStack(alignment: .leading) {
            Text("Choose the amount of \(colorName):")
            Slider(value: $colorValue, in: 0...1) {
                Text("\(colorName.capitalized) Slider")
            }
            .accentColor(color)
        }
    }
}

```



```

struct ColorPickerView: View {

    @State private var red: Double = 0.5
    @State private var green: Double = 0.5
    @State private var blue: Double = 0.5

    var body: some View {
        VStack {
            Color(red: red, green: green, blue: blue, opacity: 1)
                .frame(width: 250, height: 250)
                .mask(Circle())
            ColorPickerSlider(colorValue: $red, colorName: "red", color: .red)
            ColorPickerSlider(colorValue: $green, colorName: "green", color: .green)
            ColorPickerSlider(colorValue: $blue, colorName: "blue", color: .blue)
        }
    }
}

```

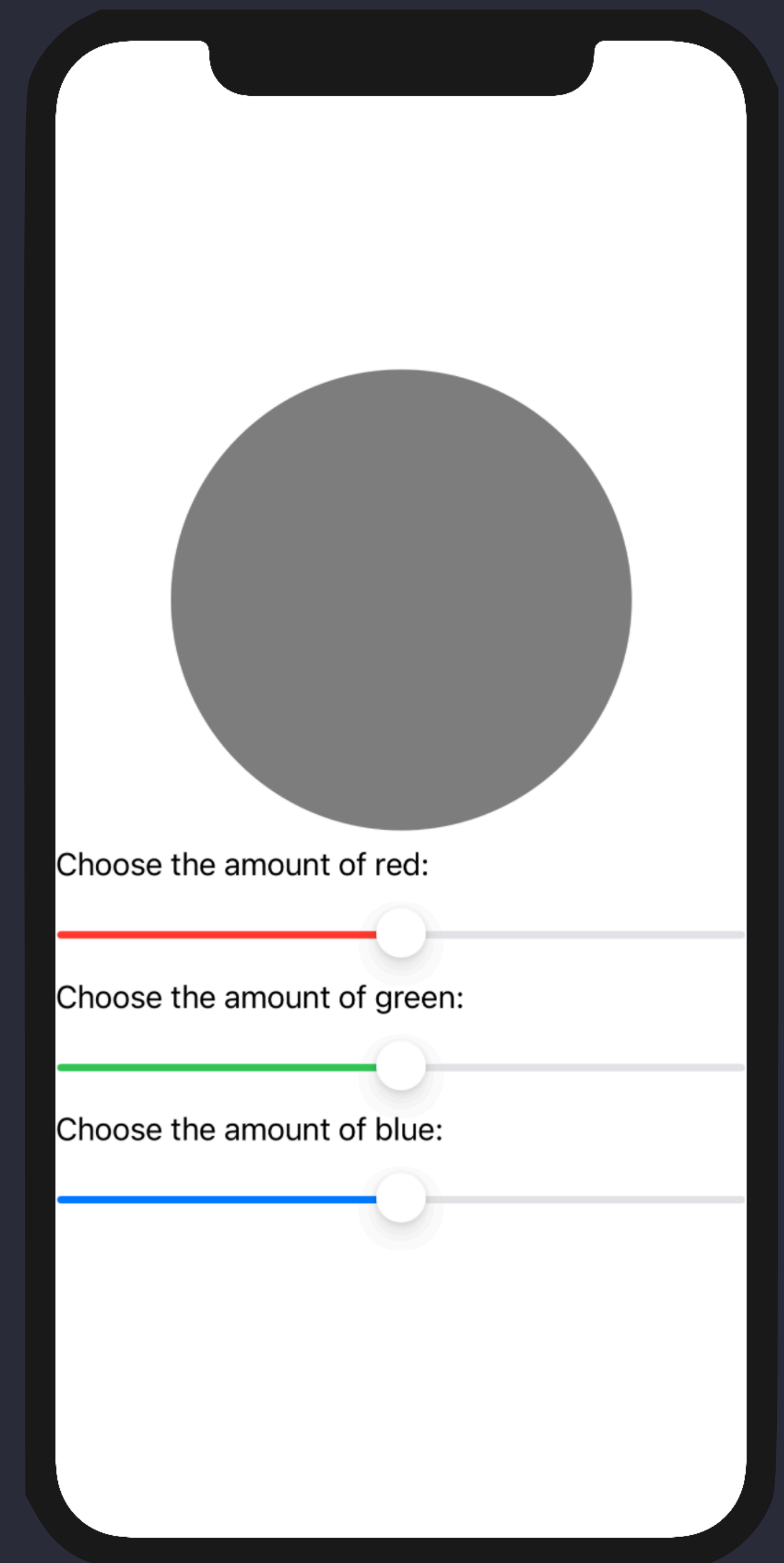
```

struct ColorPickerSlider: View {

    @Binding var colorValue: Double
    let colorName: String
    let color: Color

    var body: some View {
        VStack(alignment: .leading) {
            Text("Choose the amount of \(colorName):")
            Slider(value: $colorValue, in: 0...1) {
                Text("\(colorName.capitalized) Slider")
            }
            .accentColor(color)
        }
    }
}

```



# Résumé

- Ne pas avoir un gros paquet de code répétitif, mais extraire les composants
  - S'il y a un état qui se retrouve d'un côté et de l'autre, utiliser `@Binding`
- Extraire aussi les modifieurs selon le même principe
- Permet d'avoir un code
  - plus propre
  - plus lisible
  - plus facile à modifier
  - moins de bugs