## Extraction de vues

```
struct HeroList: View {
  var body: some View {
    VStack (alignment: leading) {
     HStack {
       Image(systemName: "link.circle")
          .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)
```

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- Ron Weasley
- Hermione Granger
- Harry Potter
- Ginny Weasley
- Rubeus Hagrid
- Severus Snape

```
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)
```

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- Ron Weasley
- Hermione Granger
- Harry Potter
- Ginny Weasley
- Rubeus Hagrid
- Severus Snape

```
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)
```

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Ron Weasley

Hermione Granger

Harry Potter

Ginny Weasley

Rubeus Hagrid

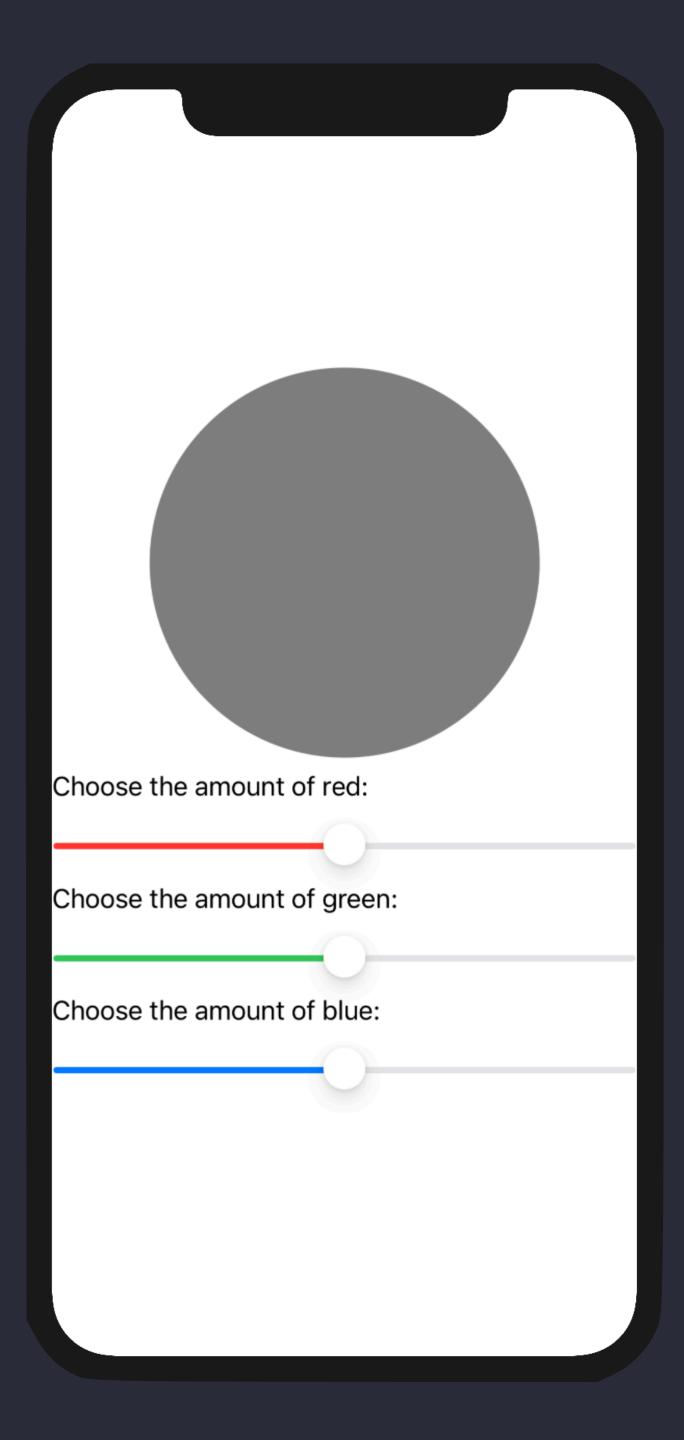
Severus Snape

## 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!

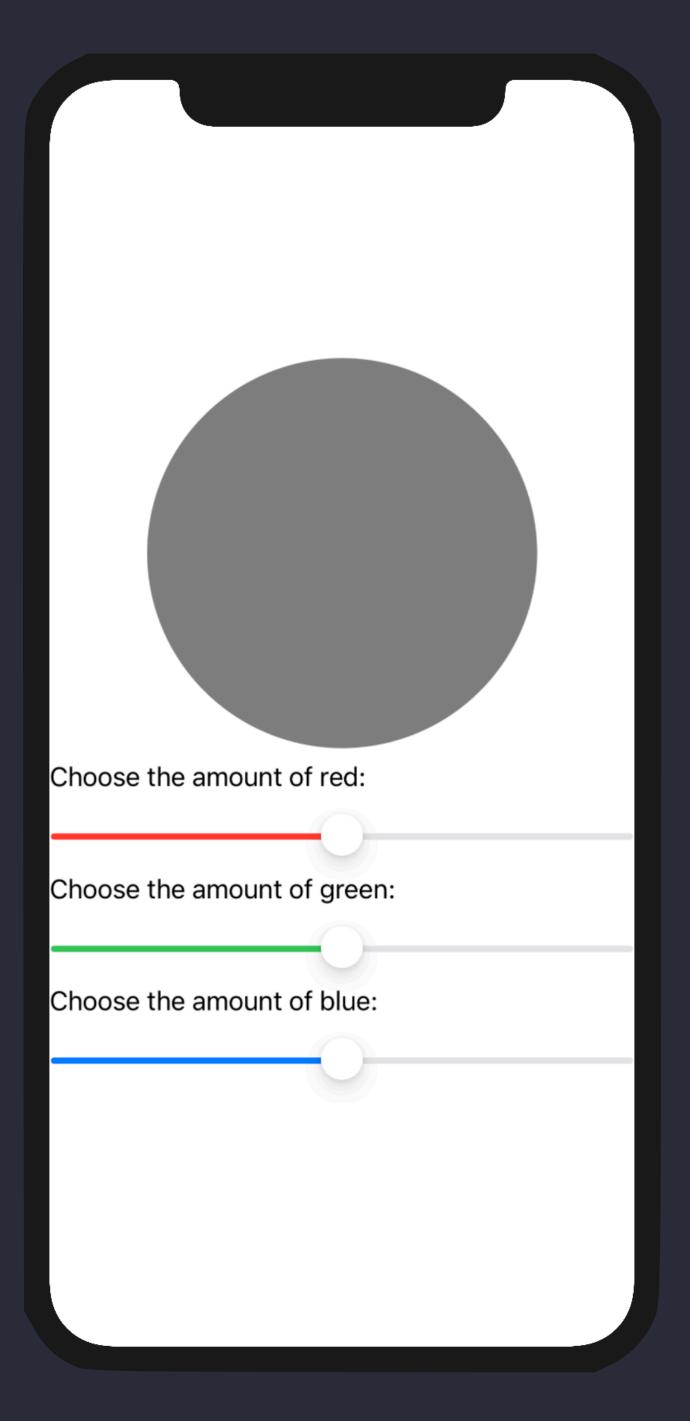
## Two way binding

```
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)
```

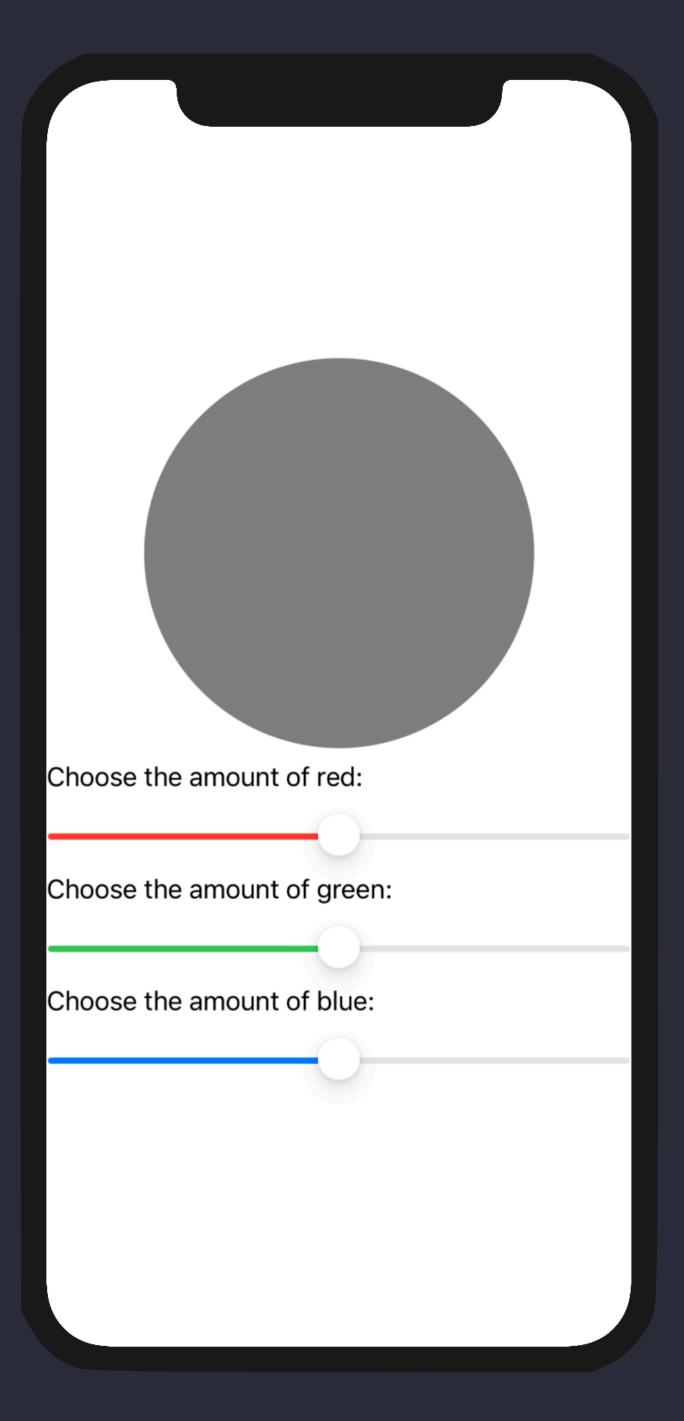


```
struct ColorPickerView: View {
    @State var red: Double = 0.5
    @State var green: Double = 0.5
    @State var blue: Double = 0.5
    var body: some View {
        VStack {
            Color(red: red, green: green, blue: blue, opacity: 1)
                 .frame(width: 250, height: 250)
                 mask(Circle())
            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) {
                                                             Cannot convert value of type 'Double' to expected argument type 'Binding<Double>'
                Text("\(colorName.capitalized) Slider")
            .accentColor(color)
```

```
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())
            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 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())
            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)
```



## @State, @Binding ou pas

