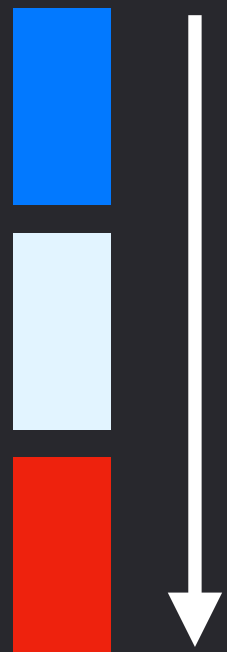# Stacks

HStack

Positionne les views selon un axe horizontal (de gauche à droite)
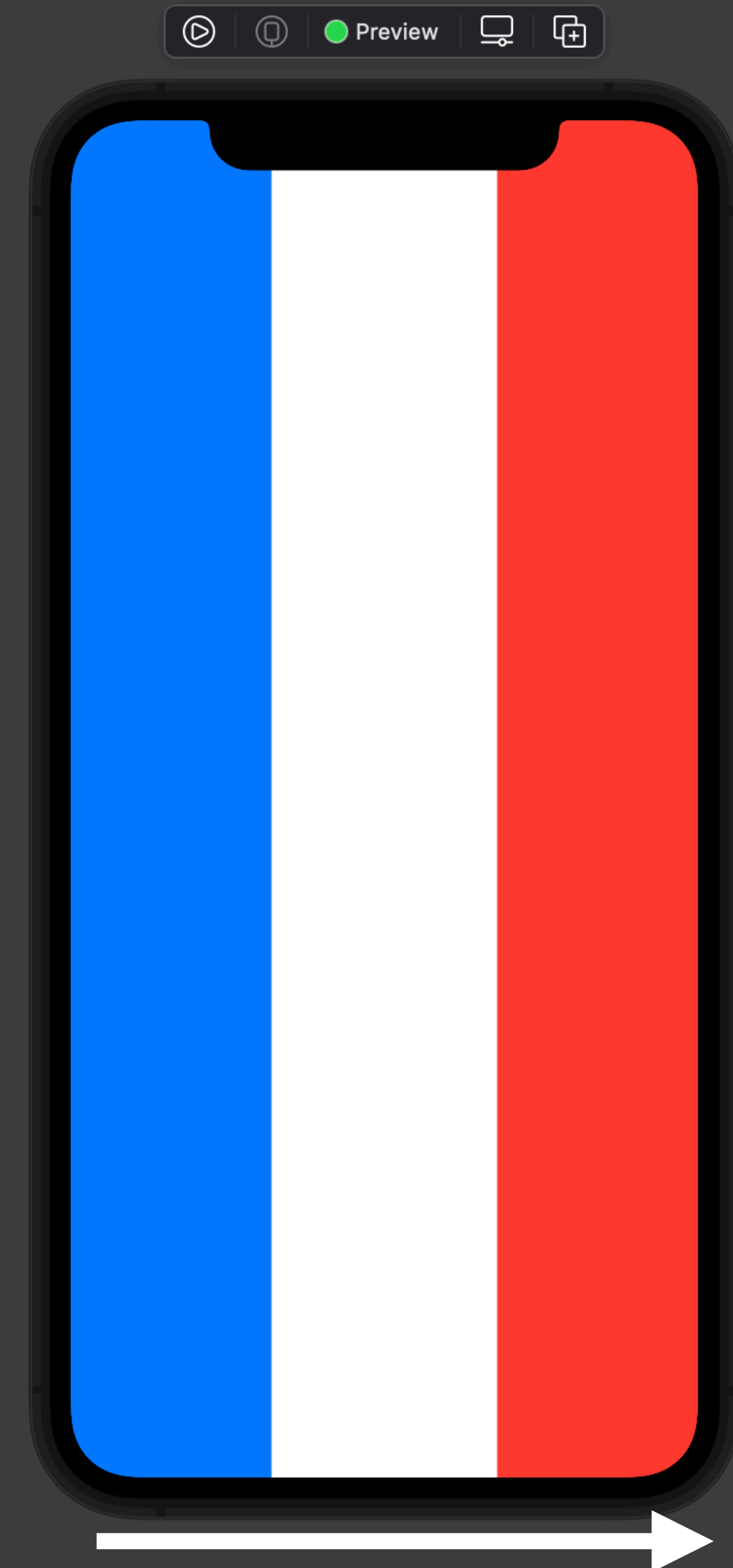
```swift
//
//  ContentView.swift
//  StacksLive
//
//  Created by Yannis Lang on 22/10/2021.
//

import SwiftUI

struct ContentView: View {
    var body: some View {
        HStack {
            Rectangle()
                .fill(Color.blue)
            Rectangle()
                .fill(Color.white)
            Rectangle()
                .fill(Color.red)
        }
    }
}

struct ContentView_Previews: PreviewProvider {•••}
```
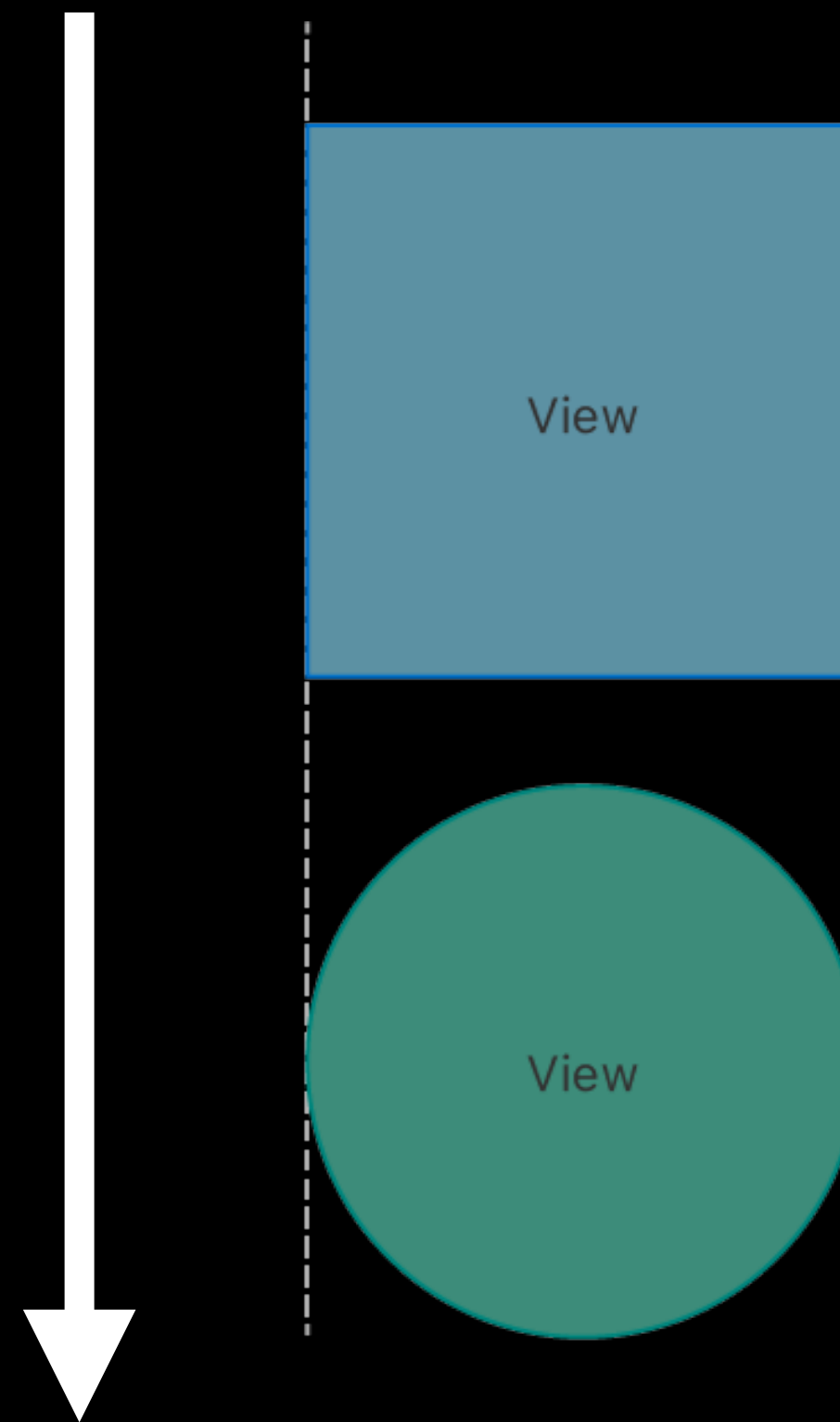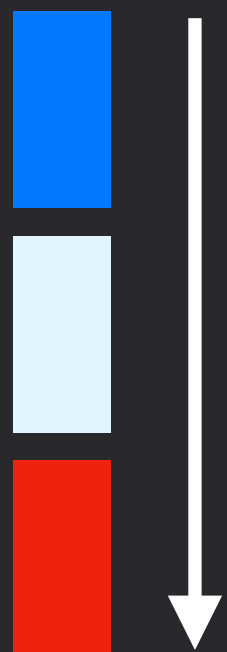
Preview

VStack

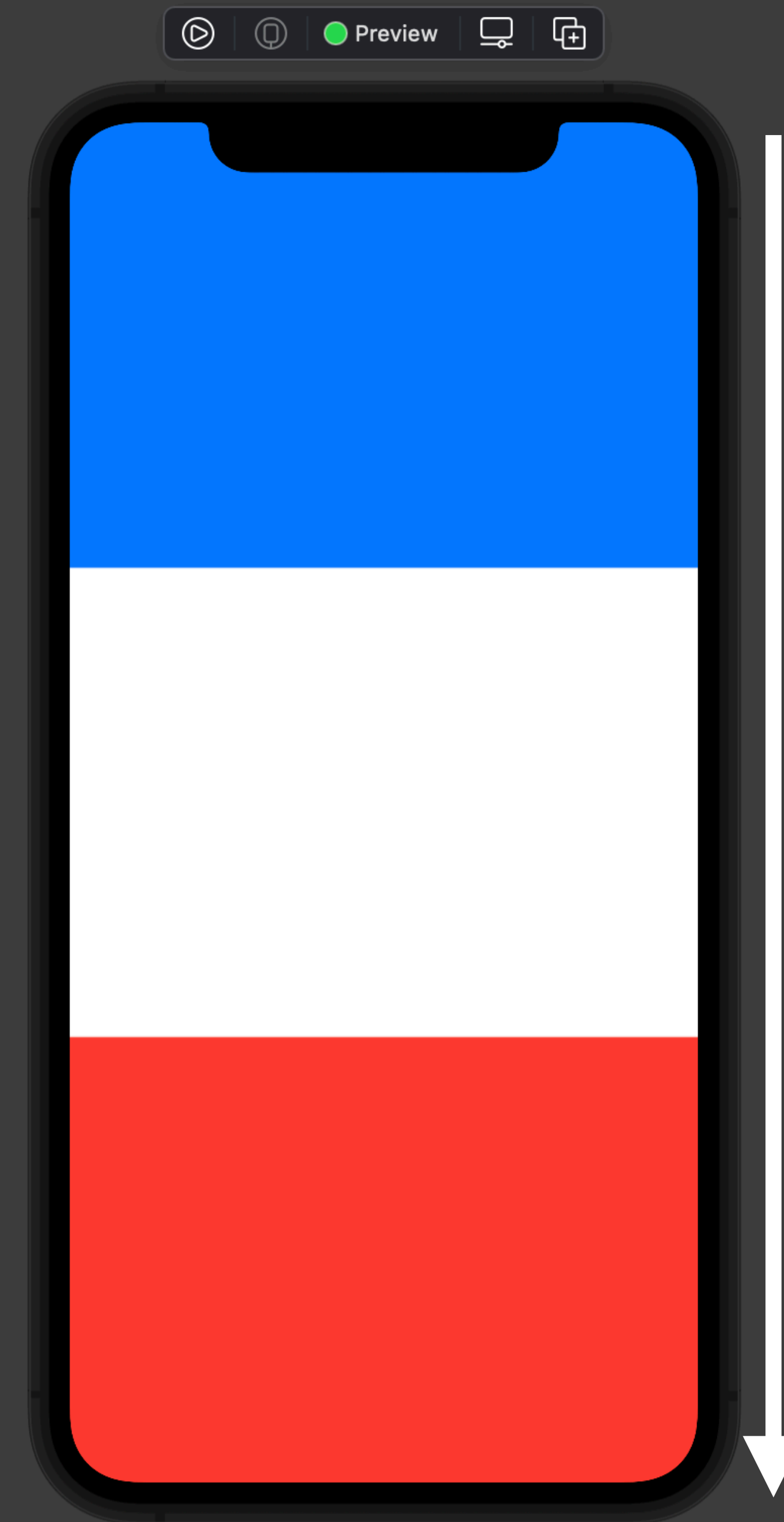Positionne les views selon un axe vertical (de haut en bas)

```swift
//
//  ContentView.swift
//  StacksLive
//
//  Created by Yannis Lang on 22/10/2021.
//

import SwiftUI

struct ContentView: View {
    var body: some View {
        VStack {
            Rectangle()
                .fill(Color.blue)
            Rectangle()
                .fill(Color.white)
            Rectangle()
                .fill(Color.red)
        }
    }
}

struct ContentView_Previews: PreviewProvider {●●●}
```
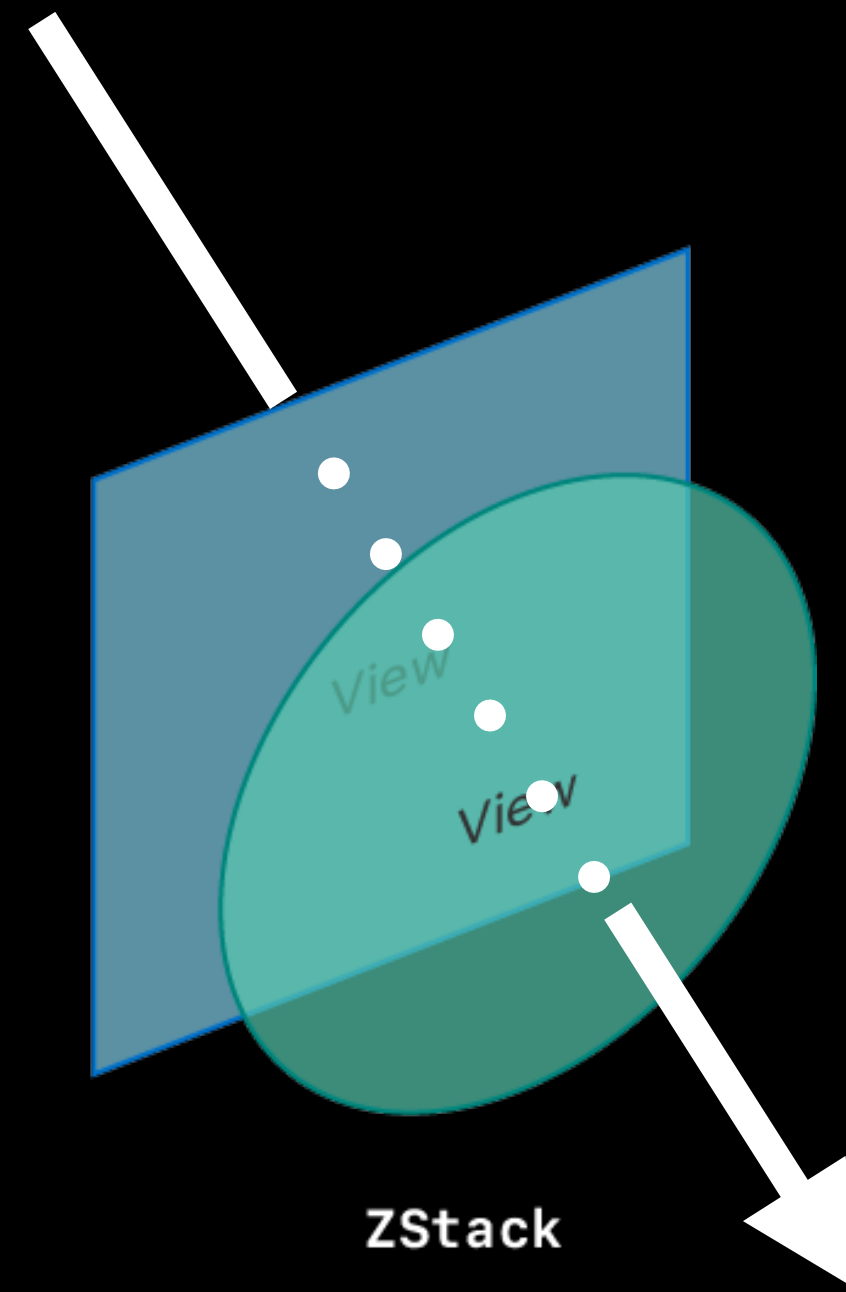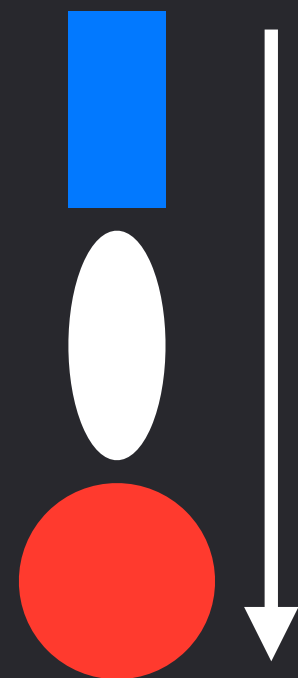
ZStack

Superpose les views (de l'arrière de plan vers le premier plan)
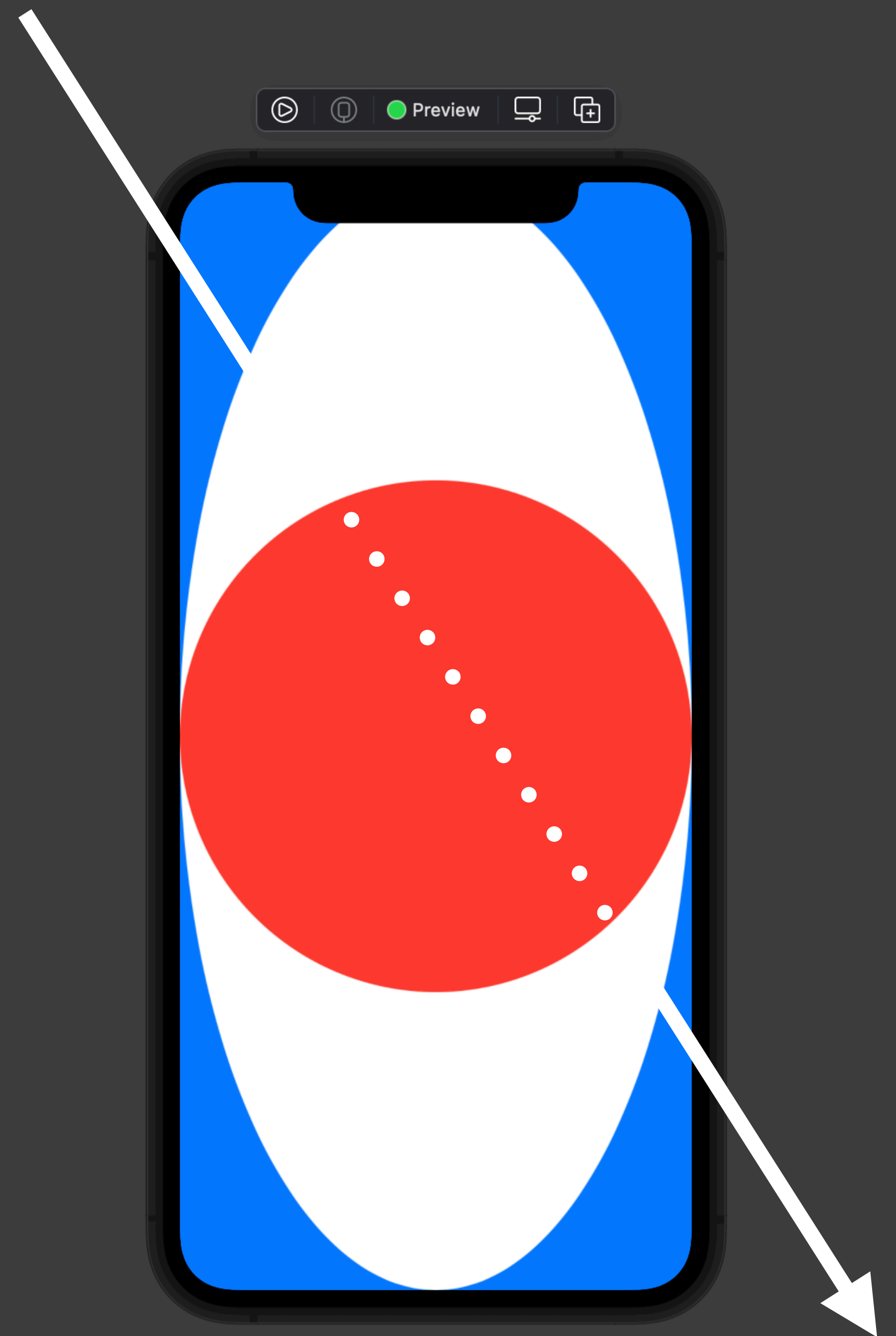
```swift
//
//  ContentView.swift
//  StacksLive
//
//  Created by Yannis Lang on 22/10/2021.
//

import SwiftUI

struct ContentView: View {
    var body: some View {
        ZStack {
            Rectangle()
                .fill(Color.blue)
            Ellipse()
                .fill(Color.white)
            Circle()
                .fill(Color.red)
        }
    }
}

struct ContentView_Previews: PreviewProvider {●●●}
```
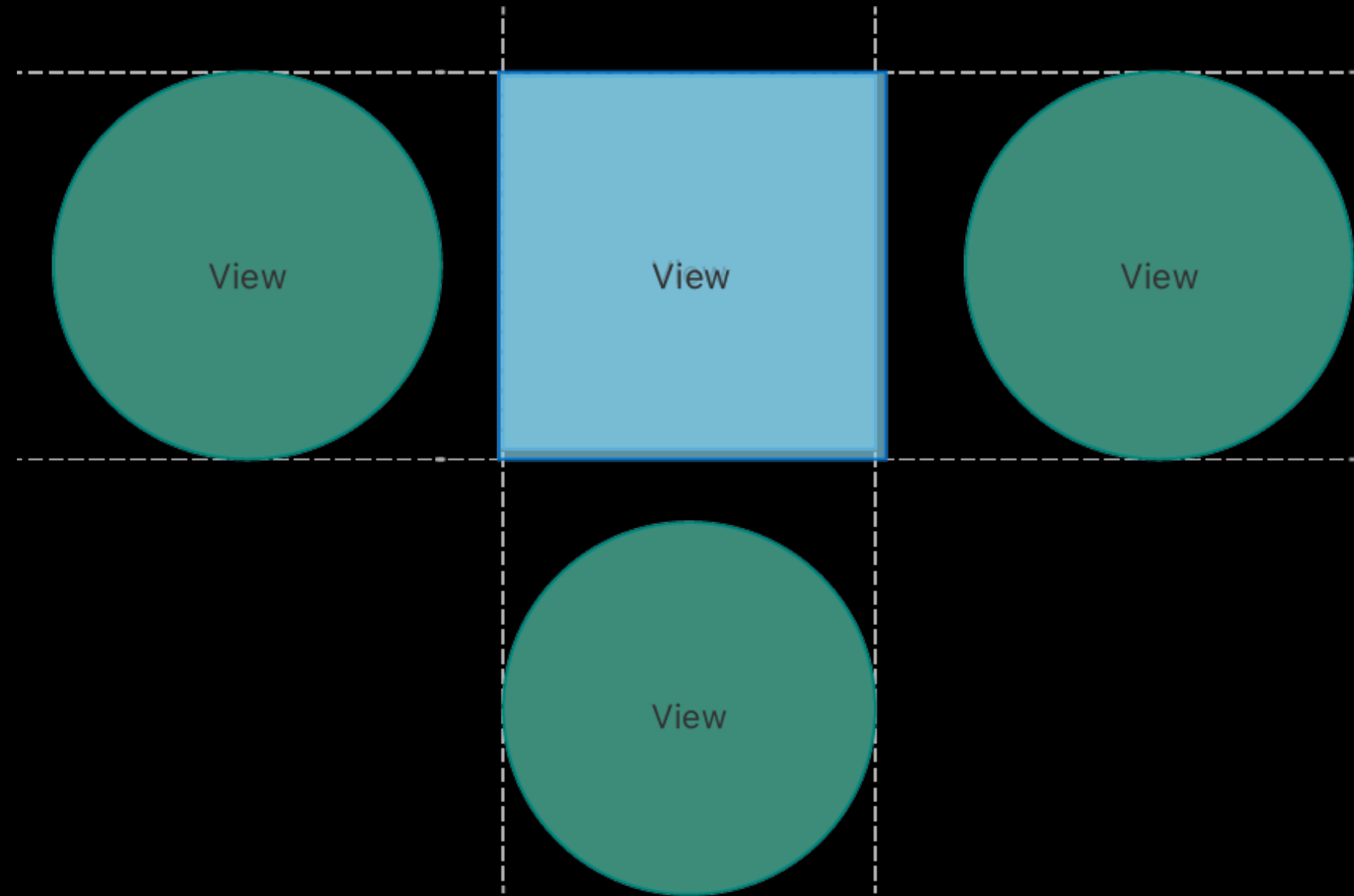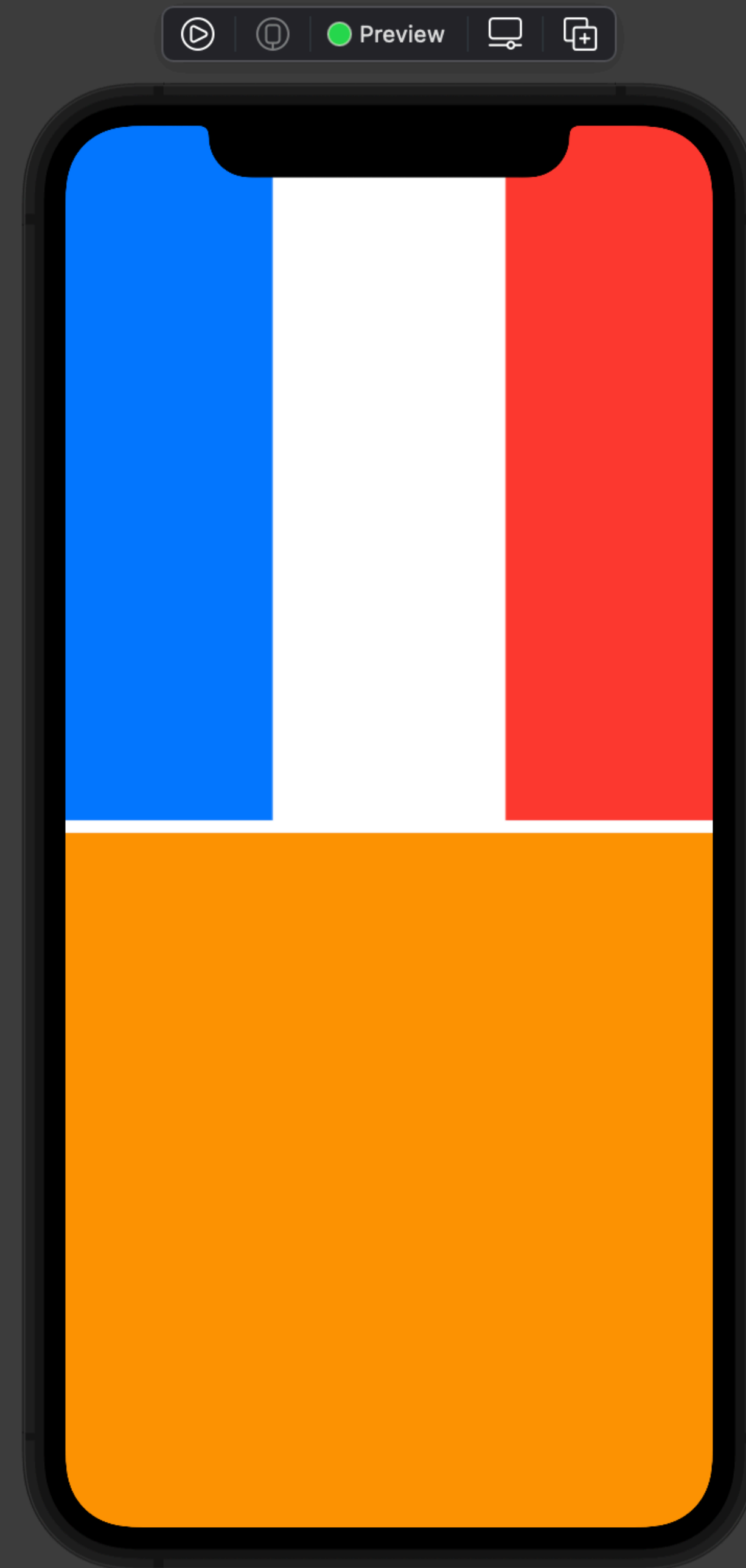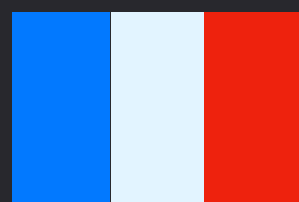
Stacks dans Stacks

```swift
//
//  ContentView.swift
//  StacksLive
//
//  Created by Yannis Lang on 22/10/2021.
//

import SwiftUI

struct ContentView: View {
    var body: some View {
        VStack {
            HStack {
                Rectangle()
                    .fill(Color.blue)
                Rectangle()
                    .fill(Color.white)
                Rectangle()
                    .fill(Color.red)
            }
            Rectangle()
                .fill(Color.orange)
        }
    }
}

struct ContentView_Previews: PreviewProvider { ••• }
```
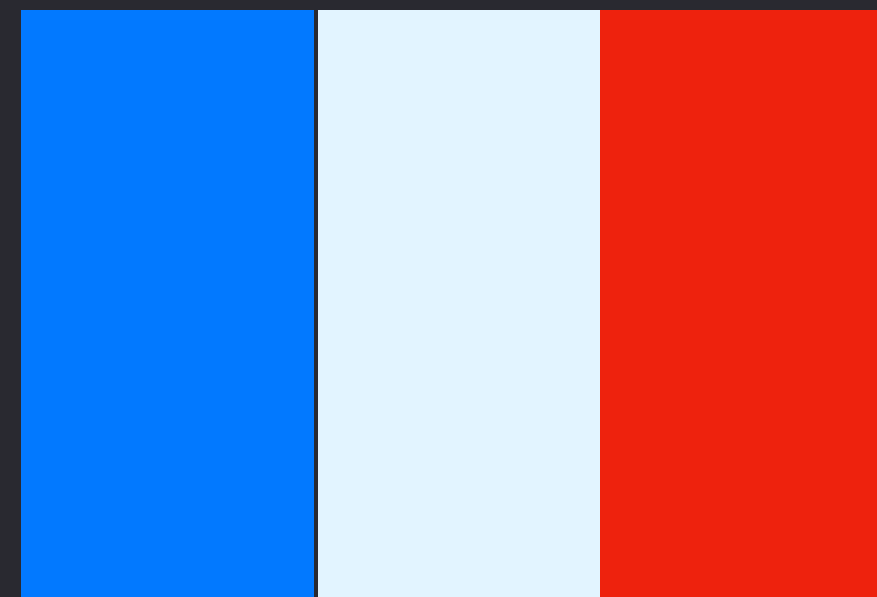
```
HStack {
    Rectangle()
        .fill(Color.blue)
    Rectangle()
        .fill(Color.white)
    Rectangle()
        .fill(Color.red)
}
```
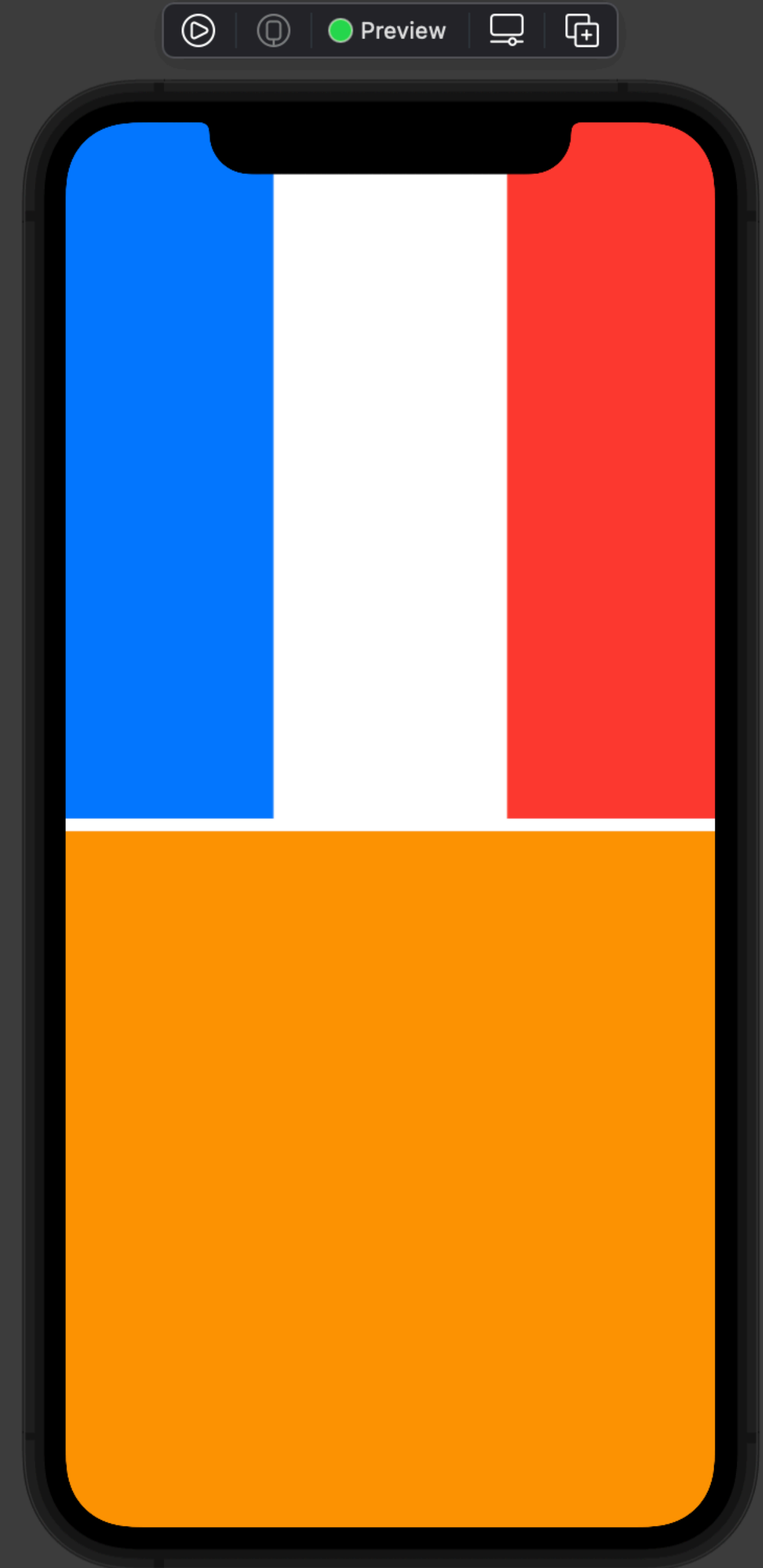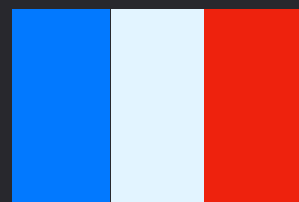
```swift
//
//  ContentView.swift
//  StacksLive
//
//  Created by Yannis Lang on 22/10/2021.
//

import SwiftUI

struct ContentView: View {
    var body: some View {
        VStack {
            HStack {
                Rectangle()
                    .fill(Color.blue)
                Rectangle()
                    .fill(Color.white)
                Rectangle()
                    .fill(Color.red)
            }
            Rectangle()
                .fill(Color.orange)
        }
    }
}

struct ContentView_Previews: PreviewProvider {···}
```
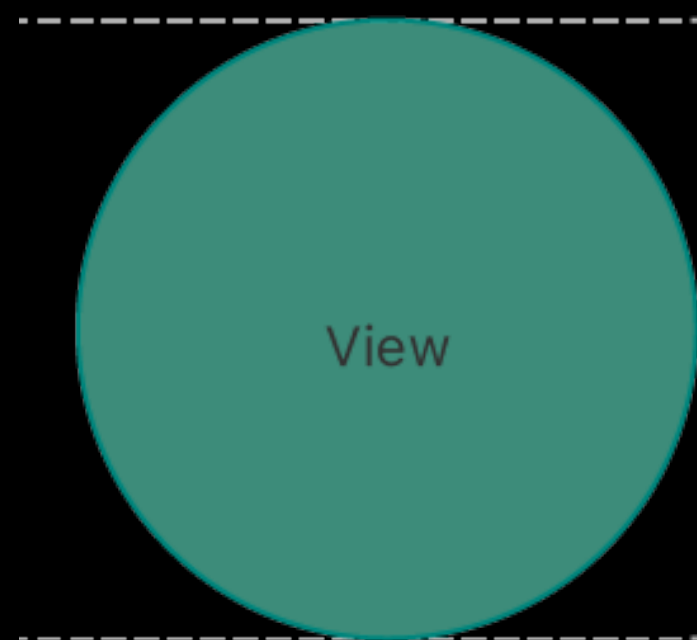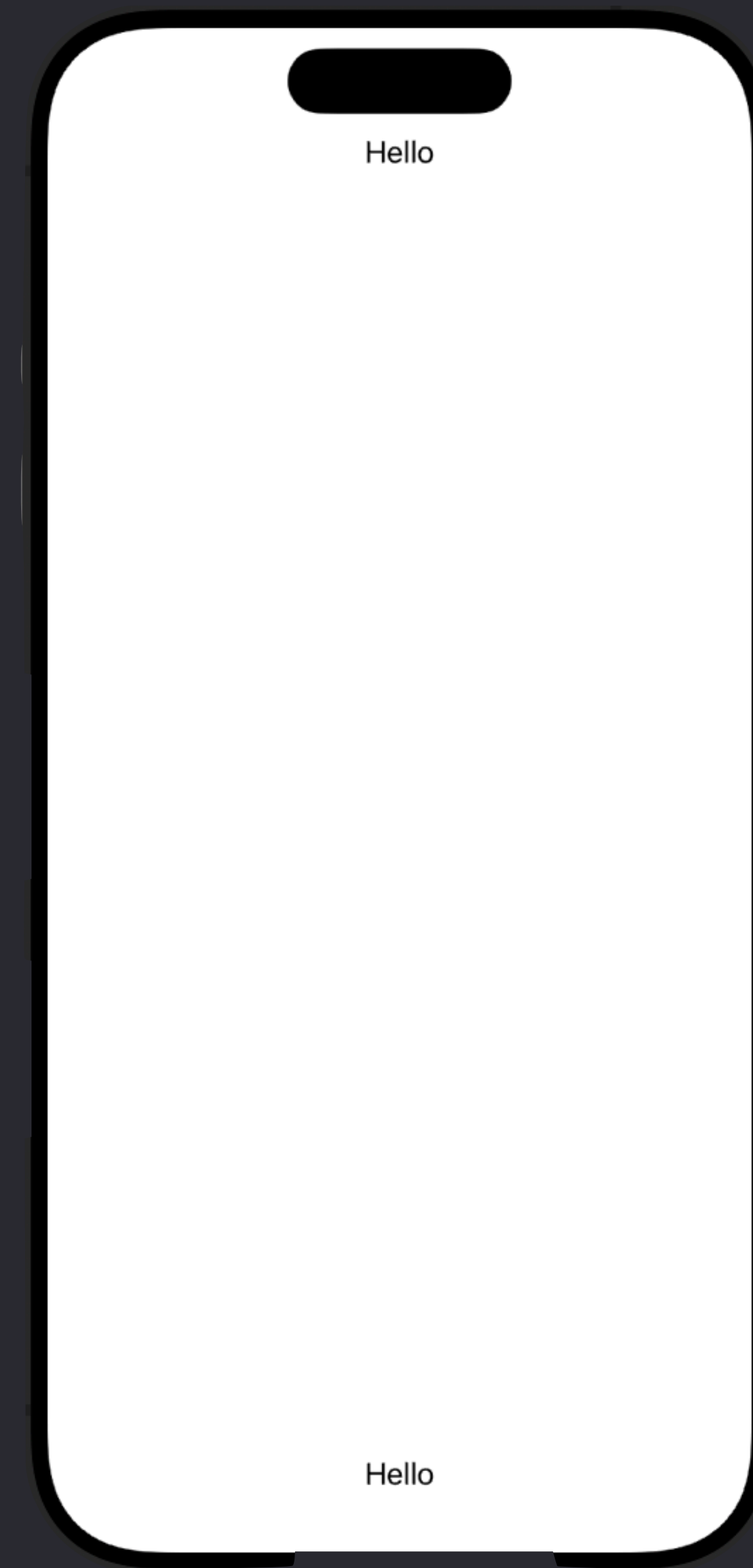
View Spacer View View

Hello
Hello

Hello

Spacer

Hello

Hello

Spacer

Hello

```
VStack {
  Text("Hello")
  Spacer()
  Text("Hello")
}
```

Hello
Hello
Spacer

Hello

Hello

Spacer

```
VStack {
 Text("Hello")
 Text("Hello")
 Spacer()
}
```

Hello
Hello

Hello   Hello

Hello Spacer Hello
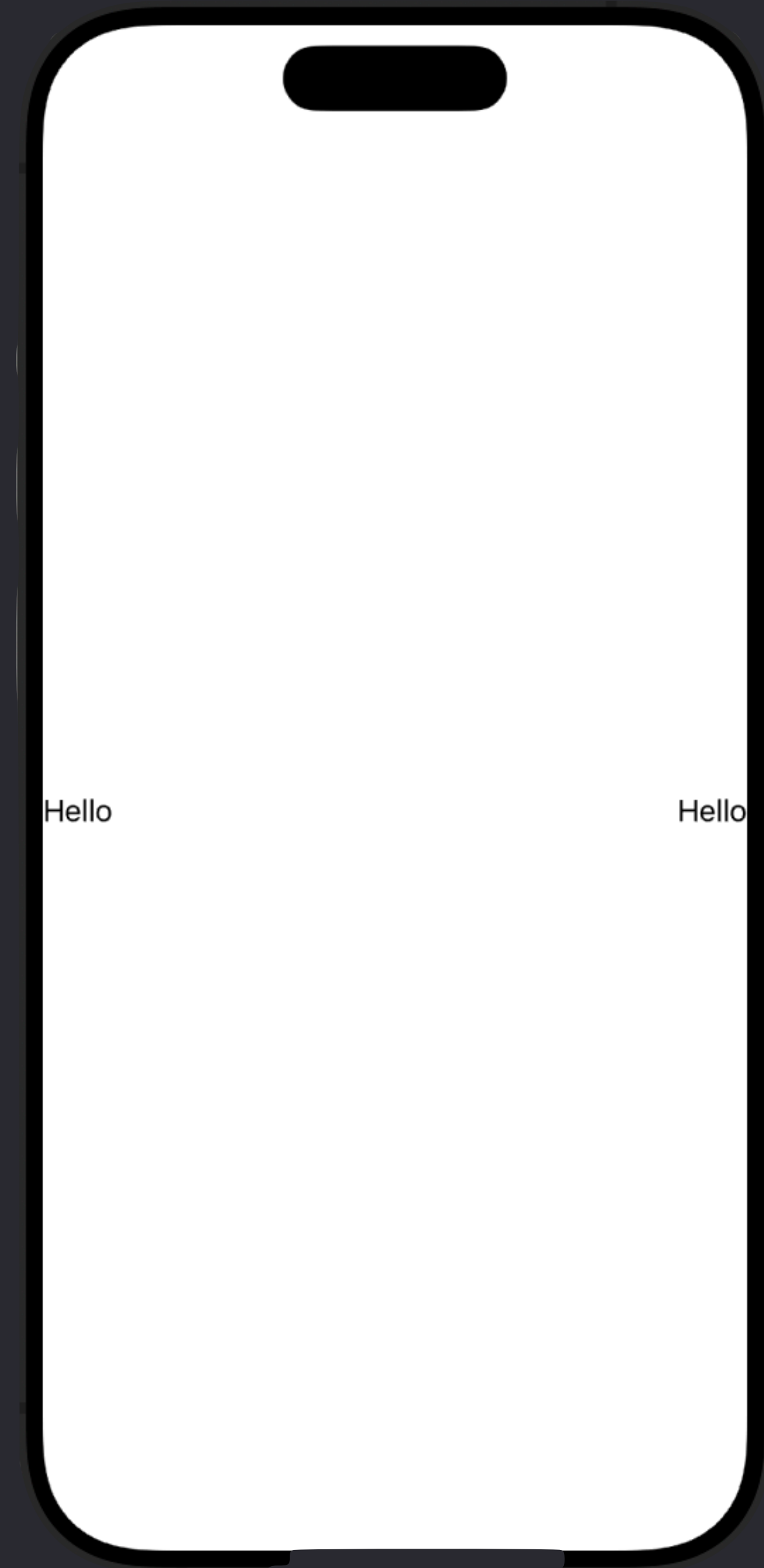
Hello   Spacer   Hello

```
HStack {
  Text("Hello")
  Spacer()
  Text("Hello")
}
```

Hello   Hello

Hello

```
Text("Hello")
```

Hello

```
VStack {
  Text("Hello")
  Spacer()
}
```

Hello

```
VStack {
  HStack {
    Text("Hello")
    Spacer()
  }
  Spacer()
}
```

Hello

```
VStack {
  HStack {
    Text("Hello")
    Spacer()
  }
  Spacer()
}
```

Spacer()

Hello

Spacer()