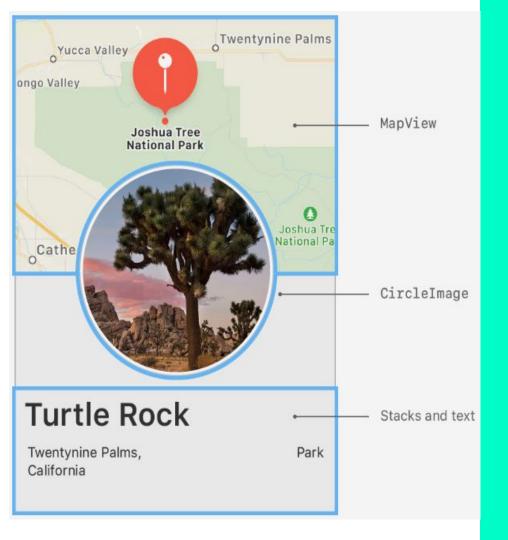
WHAT IS SWIFTUI



SwiftUI

May 21, 2020 Rediet Negash



SWIFT UI

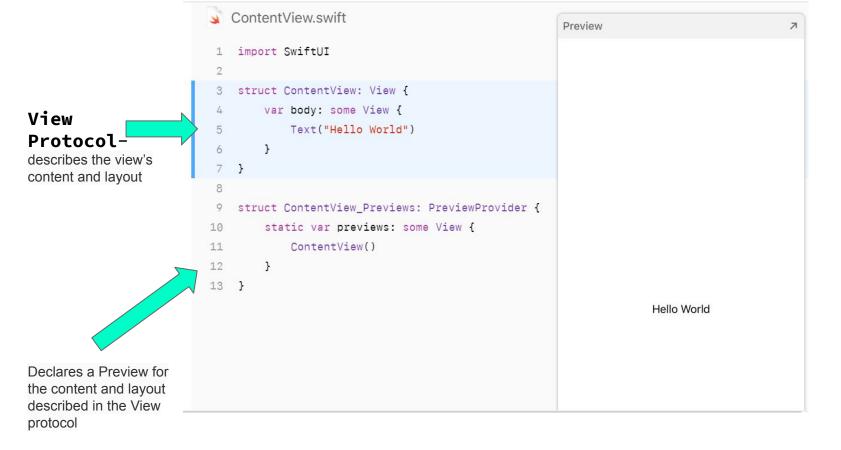
Swift UI is an innovative and streamlined way to build a user interface on any Apple platform based on Swift's performance.





With an easy-to-read and easy-to-write declarative Swift syntax, SwiftUI seamlessly integrates with the new Xcode design tools, allowing code and design to be fully synchronized.





SWIFT UI- EXPLORING CANVAS

SOFTWARE ENGINEERING BENEFITS

Declarative syntax

.padding()

In Swift UI, you'll write shorter code that's declarative, which makes it all about telling what the UI should do. It's readable and straight to the point

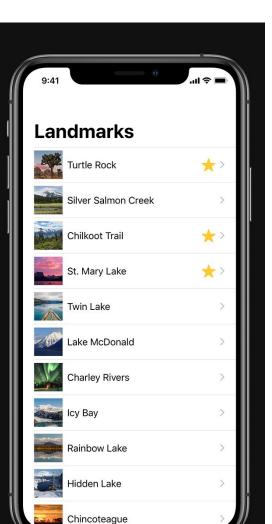
```
.frame(width: 100, height: 100)
.background(Color.blue)
.shadow(radius: 10)
.offset(x: 10, y:10)
.blur()
```

Example

Describe your layout just once.

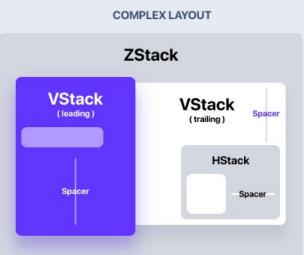
Declare the content and layout for any state of your view. SwiftUI knows when that state changes, and updates your view's rendering to match.

```
List(landmarks) { landmark in
  HStack {
      Image(landmark.thumbnail)
      Text(landmark.name)
      Spacer()
      if landmark.isFavorite {
         Image(systemName: "star.fill")
            .foregroundColor(.yellow)
```



```
VStack {
    Text("Card Back")
}
.frame(width: 340, height: 220.0)
```



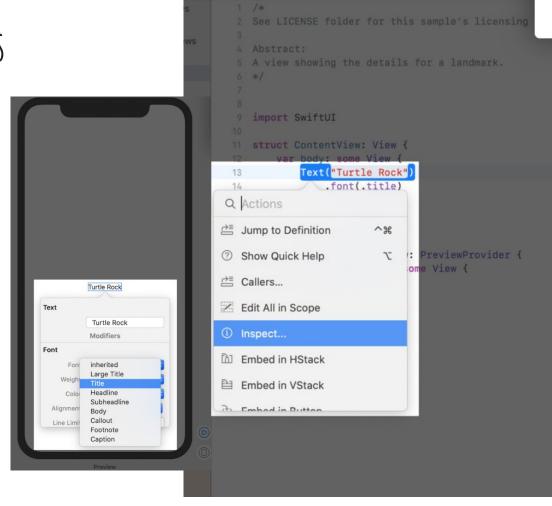


UI Components

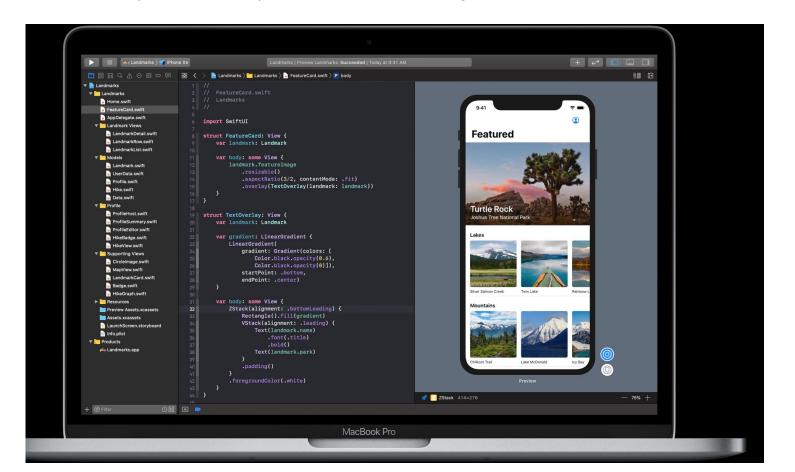
SOFTWARE ENGINEERING BENEFITS

Design tools

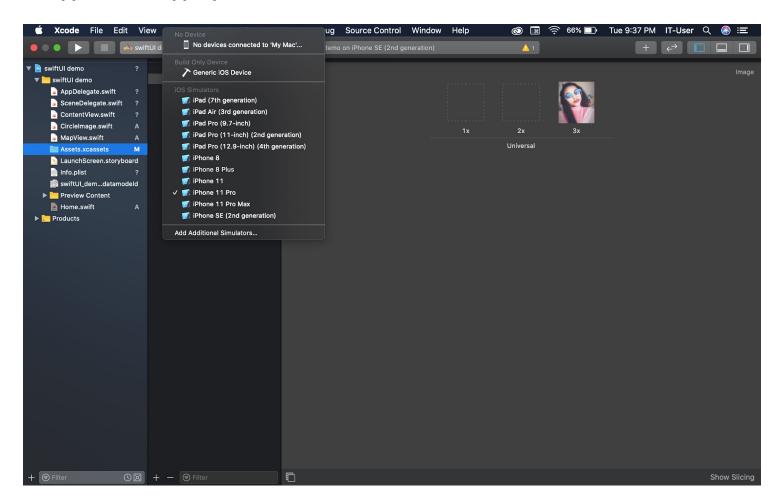
- Drag and drop
- Preview pop-up properties to allow quick changes to UI elements
- Views, Modifiers
 and Images can be
 dragged easily to
 preview

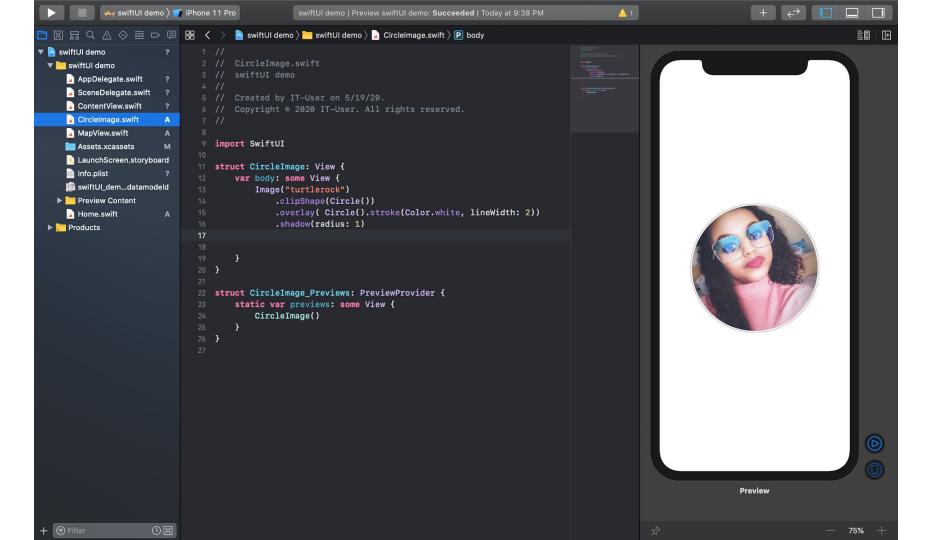


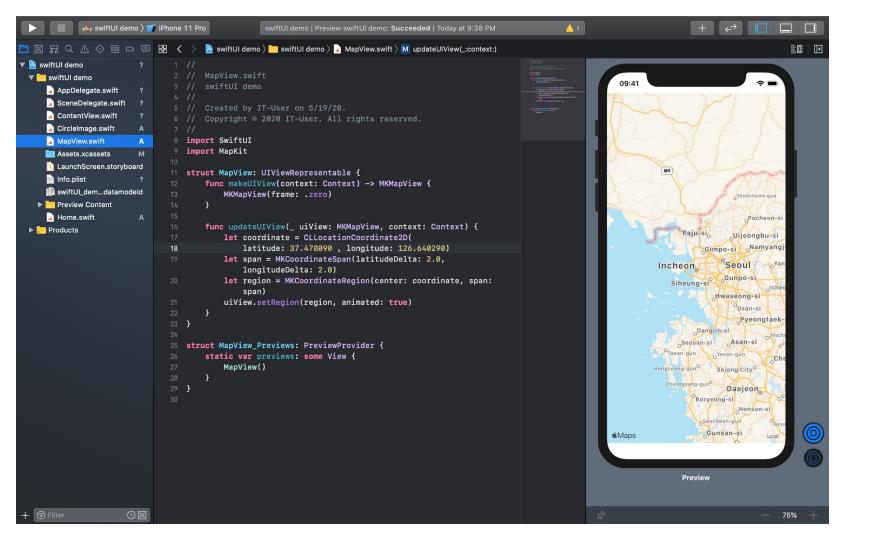
Live mode. Instantly see design changes with one or multiple precision previews. When you put Design Canvas into live mode, you can instantly interact with apps running on Xcode or connected devices.

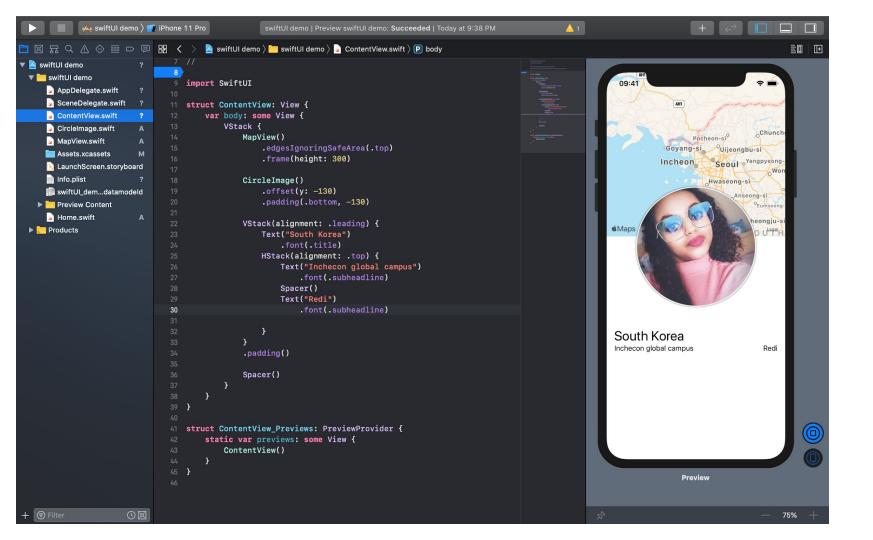


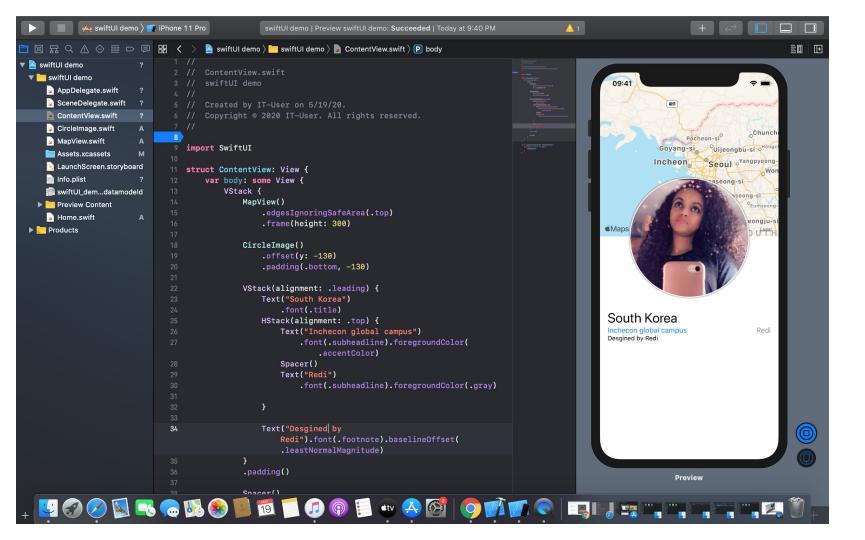
Native support on all Apple platforms











RESOURCES AND LINKS

https://developer.apple.com/tutorials/swiftui/

https://www.hackingwithswift.com/articles/196/learn-swiftui-with-free-tutorials

https://designcode.io/swiftui-course

The philosophy for Swift UT is not to write once, apply everywhere, but to learn once, apply anywhere.

THANK YOU!