

SwiftUI

Declarative UI

Based on existing UI librarires (UIKit / AppKit)

One "language" for all the platforms

Interactful

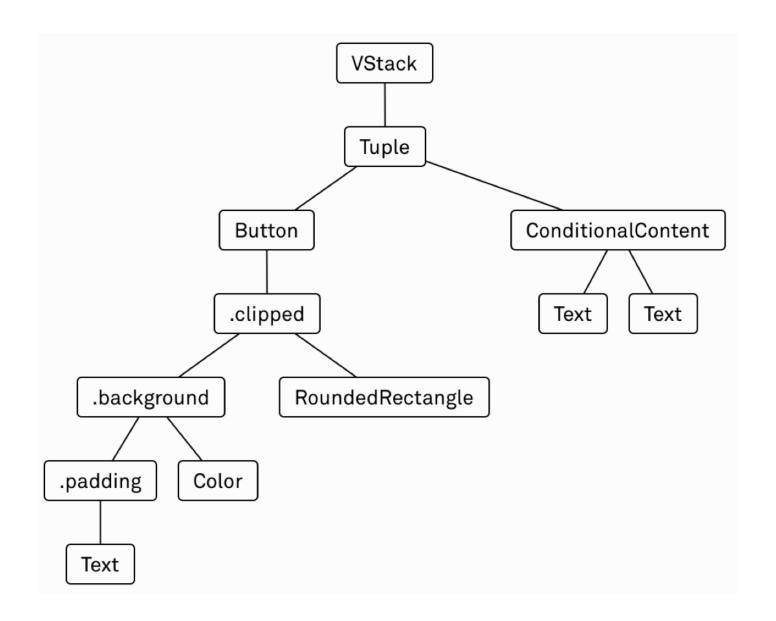


Everything is View

Everything is struct

A tree representing the UI is created by successive assembly

Tree



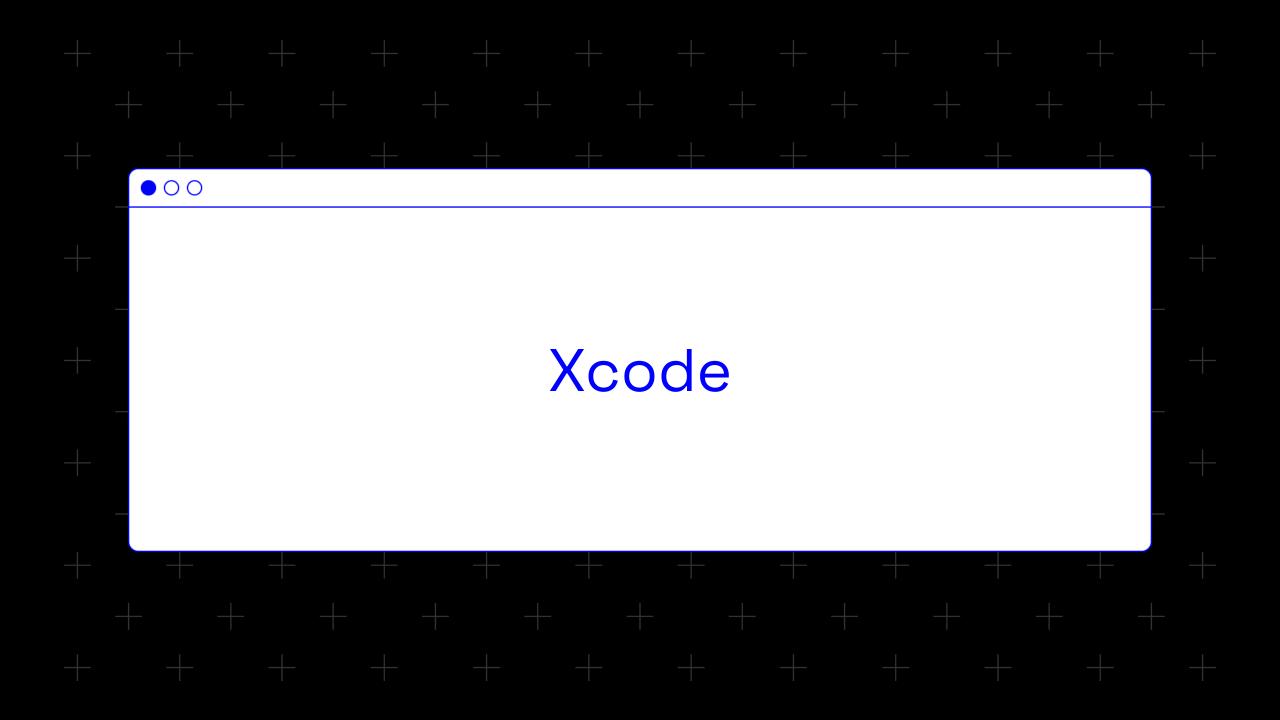
some View

Opaque type

Resolves generics - no need to specify explicitly

Compilator does know about the exact type it's working with

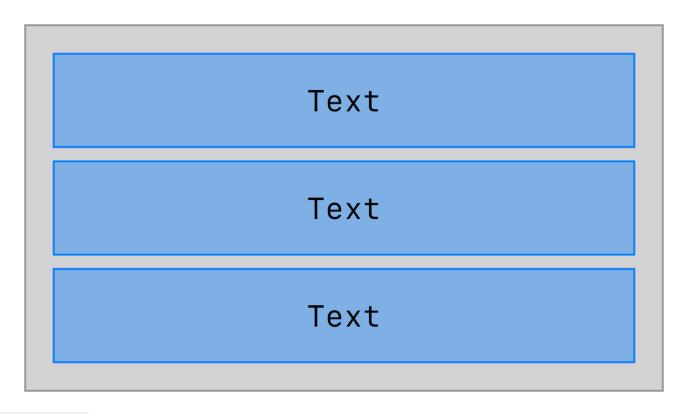
Return type has to be the same for all possible passes



Questions?

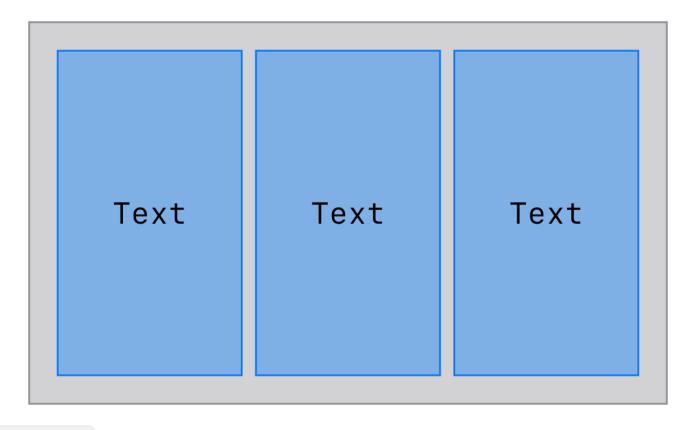
- SwiftUI
- ☐ Views
- some View
- → Xcode

VStack



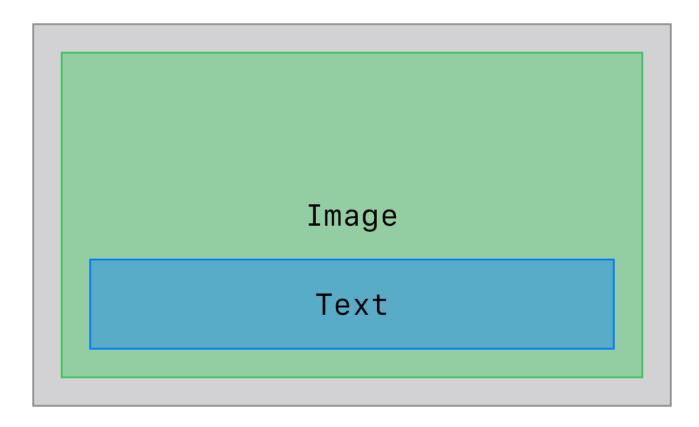
alignment a spacing can be customized

HStack



alignment a spacing can be customized

ZStack

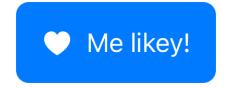


Only alignment, but has more options

Text

A simple representation of a text string in UI

Button



Consists of two parts:

- action what should happen after tap
- ☐ label how the button should look

Don't forget about the pressed/highlighted state!

It should be clear at first glance what user can interact with

Image

Representation of image in UI

Images are stored in Asset catalog

Apple system icons can be used

Other Basic Views

```
Color
Shapes (Rectangle, RoundedRectangle, Capsule, Ellipse, Circle)
Label
Group
Spacer
Divider
```

SFSymbols

Apple system icons

Simple and good-looking icons that match the native system style

Native app for browsing the icons

Questions?

- ☐ VStack, HStack, ZStack
- Text
- Button
- Image
- → SFSymbols



Two phases

1. Top-down

View receives the maximum possible size to render from its parent

- If it's a leaf, the top-down does not continue
- If it's not a leaf, View gradually passes size for his descendants



Two phases

2. Bottom-up

- Stars in a leaf, which is rendered to given size and then sends its size to parent
- Parent collects the sizes of its children, renders itself, and sends the size to its parent

View modifiers

Modifies given View, or all its nested descendants

Applying view modifier creates a new View

Are propagated top-down

Order matters !



jmeno.uzivatele



176 240 To se mi líbí

jmeno.uzivatele Super popisek mého příspěvku na FITstagram, který bude mít určitě hromady lajků.

Zobrazit všechny komentáře (2 356)





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Questions?

