



ADC Applaudo
Developers
Conference
2020



A new hope:

UI development for humans
(Android, iOS and Flutter)



Gustavo Campos



@gustereo



@guseducampos



Pablo Reyes



@pablopantaleon



Rodrigo Miranda



@RMiranda77



@RodrigoMirandaMarengo



@rodrigo.miranda.marengo

Agenda

1. Intro (Declarative vs Imperative)
2. SwiftUI Live Coding
3. Jetpack Compose Live Coding
4. Flutter Live Coding
5. Q & A

UI development for humans?

Imperative

- Turn on the coffee machine.
- Let it warm up to 90 C.
- Grind the coffee beans.
- Pour water into the machine...
- Blah blah blah...
- ...



Declarative

- Coffee, please.

Imperative UI

"How"

Declarative UI

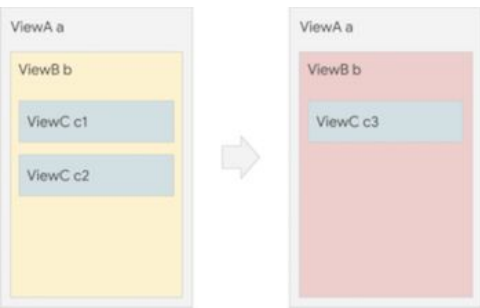
"What"



Consider this UI change

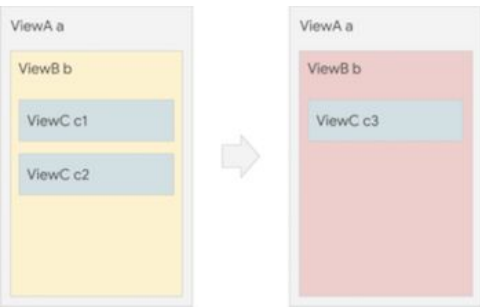
Source: <https://flutter.dev/docs/get-started/flutter-for/declarative>

The old way: Imperative UI



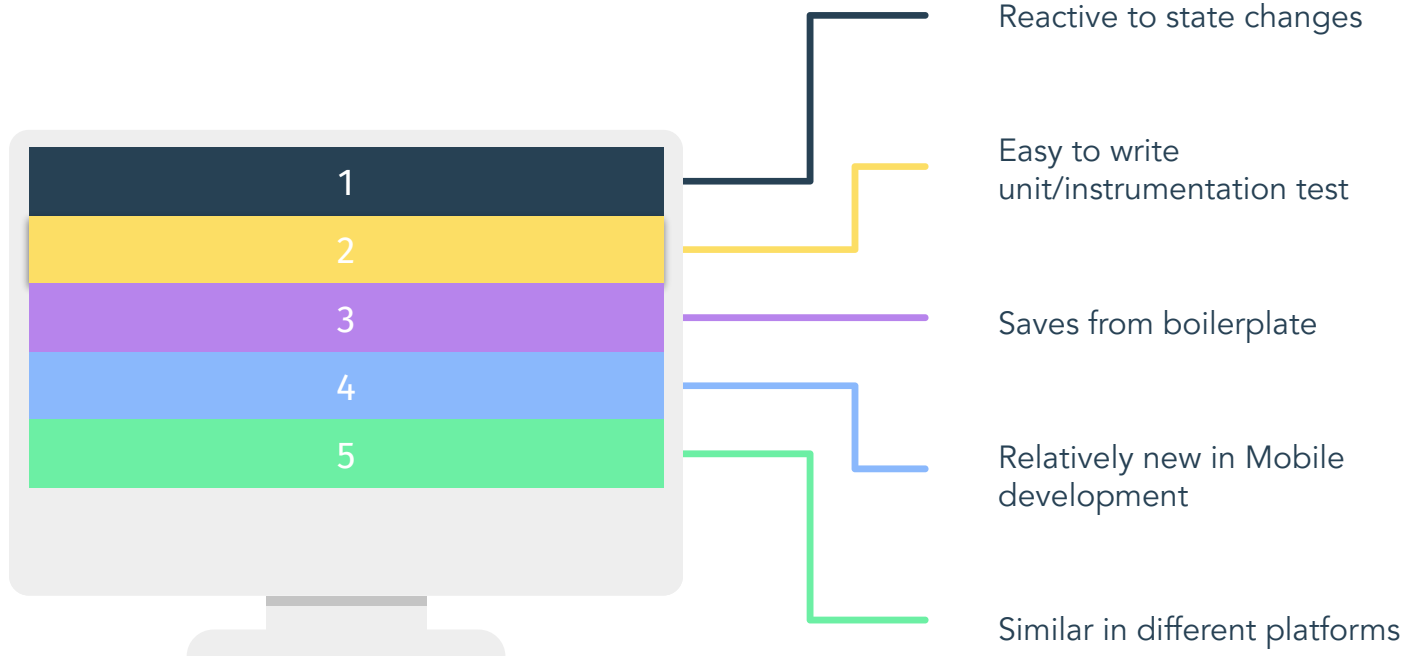
```
// Imperative style  
b.setColor(red)  
b.clearChildren()  
ViewC c3 = new ViewC(...)  
b.add(c3)
```

Enter: Declarative UI



```
// Declarative style  
return ViewB(  
  color: red,  
  child: ViewC(...),  
)
```

Declarative UI



Now let's see the same UI,
3 different approaches...

<https://github.com/RodrigoMirandaMarenco/Declarative-UI>

Swift UI

Apple making UI fun



What is SwiftUI?

- SwiftUI is an UI Framework released By Apple in 2019
- SwiftUI only runs in Apple platform (maybe someday in other OSes)
- Is inspired by Elm Architecture and React
- Use Swift's type system to apply view diffing

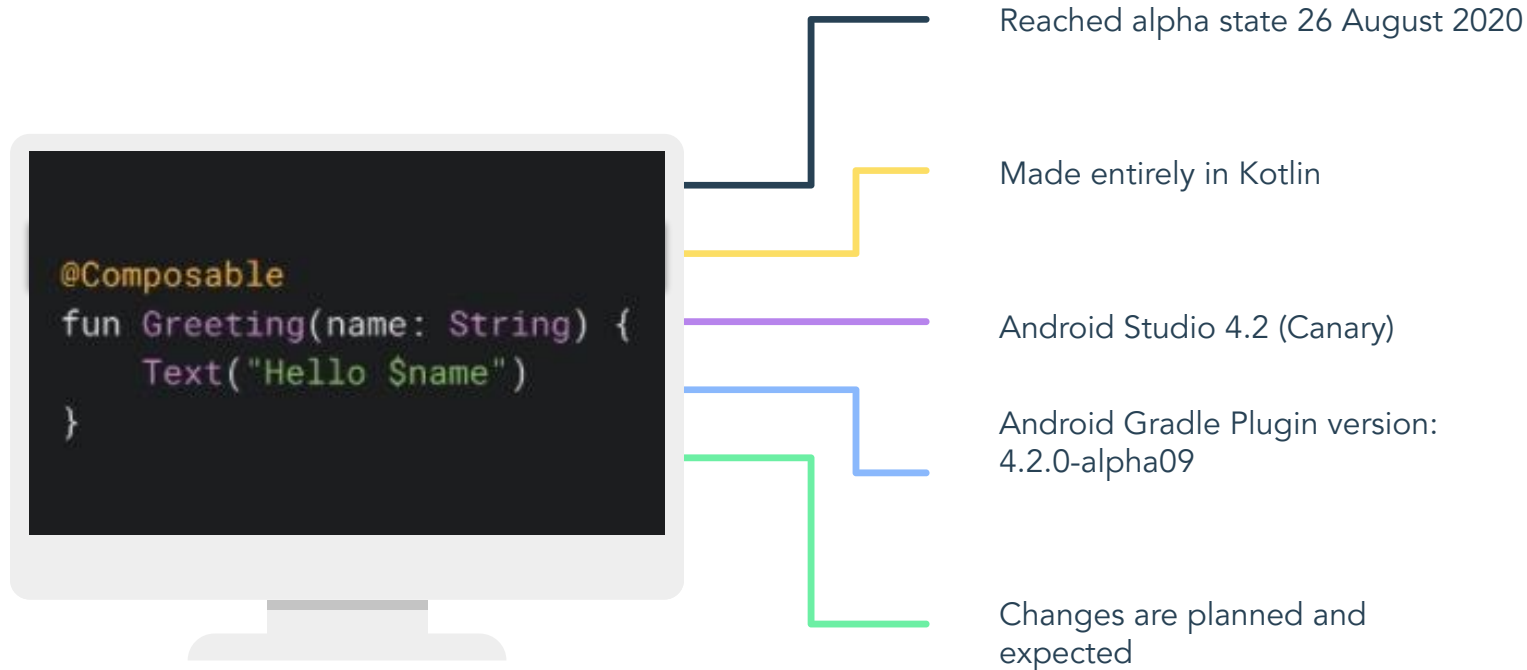
Let's do some SwiftUI!

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Jetpack Compose

Native Declarative UI in Android

Jetpack Compose



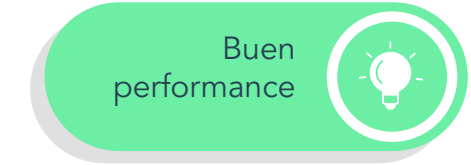
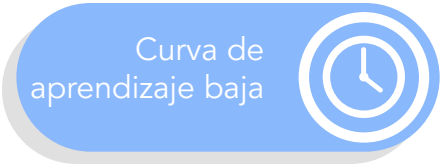
Let's do some Compose!

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Flutter

Una nueva forma para desarrollar aplicaciones

Porque Flutter?



Let's do something awesome!

.

Q & A



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