

Flutter.

DEVS+502 MEETUP 2019.01

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Multiplatform Mobile Development App Engine (SDK)

Based on Dart and inspired on React

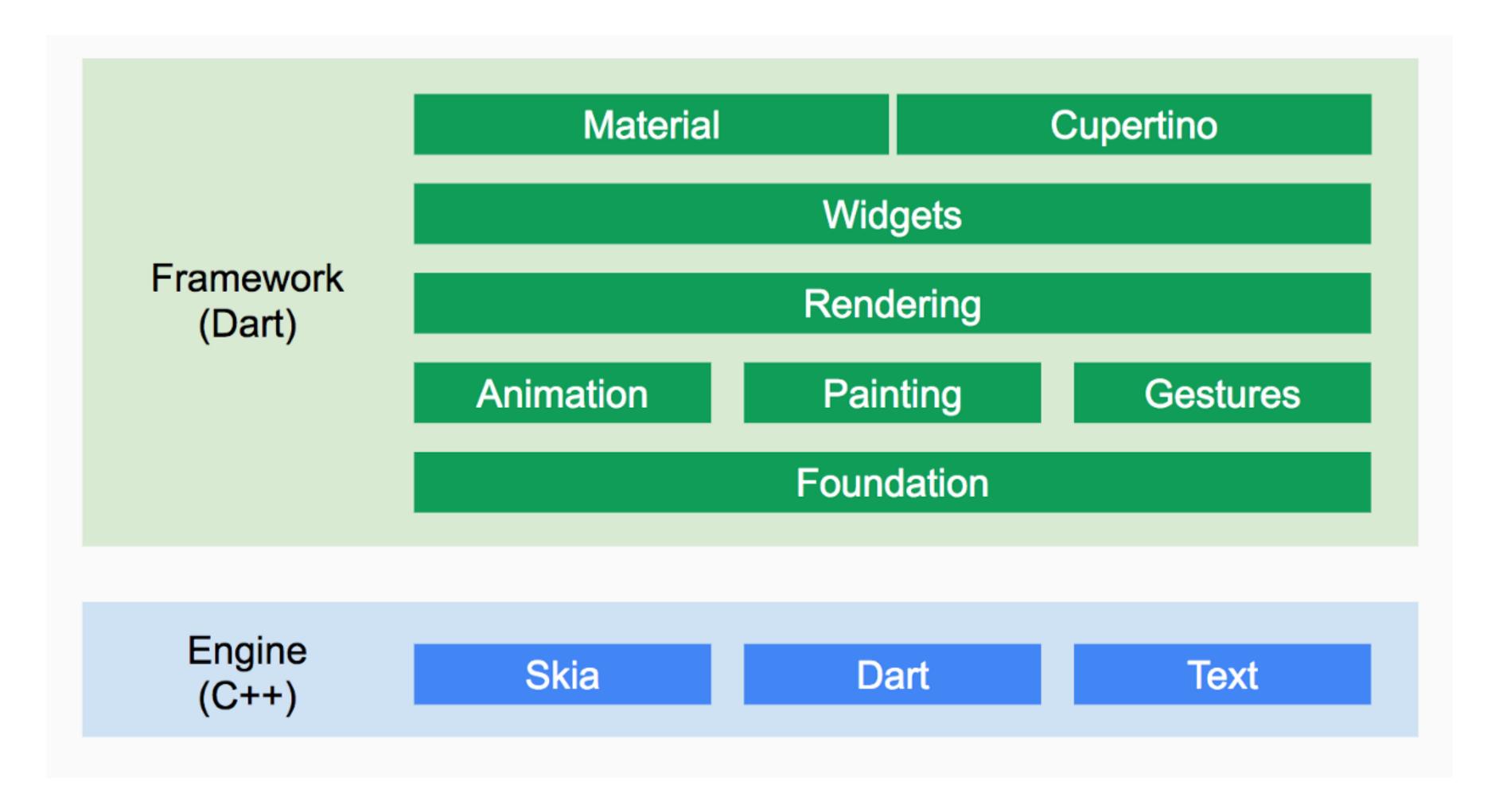


Characteristics of Flutter

- Flutter enables you to build beautiful apps.
- Flutter is fast.
- Flutter is productive.
- Flutter is Open.



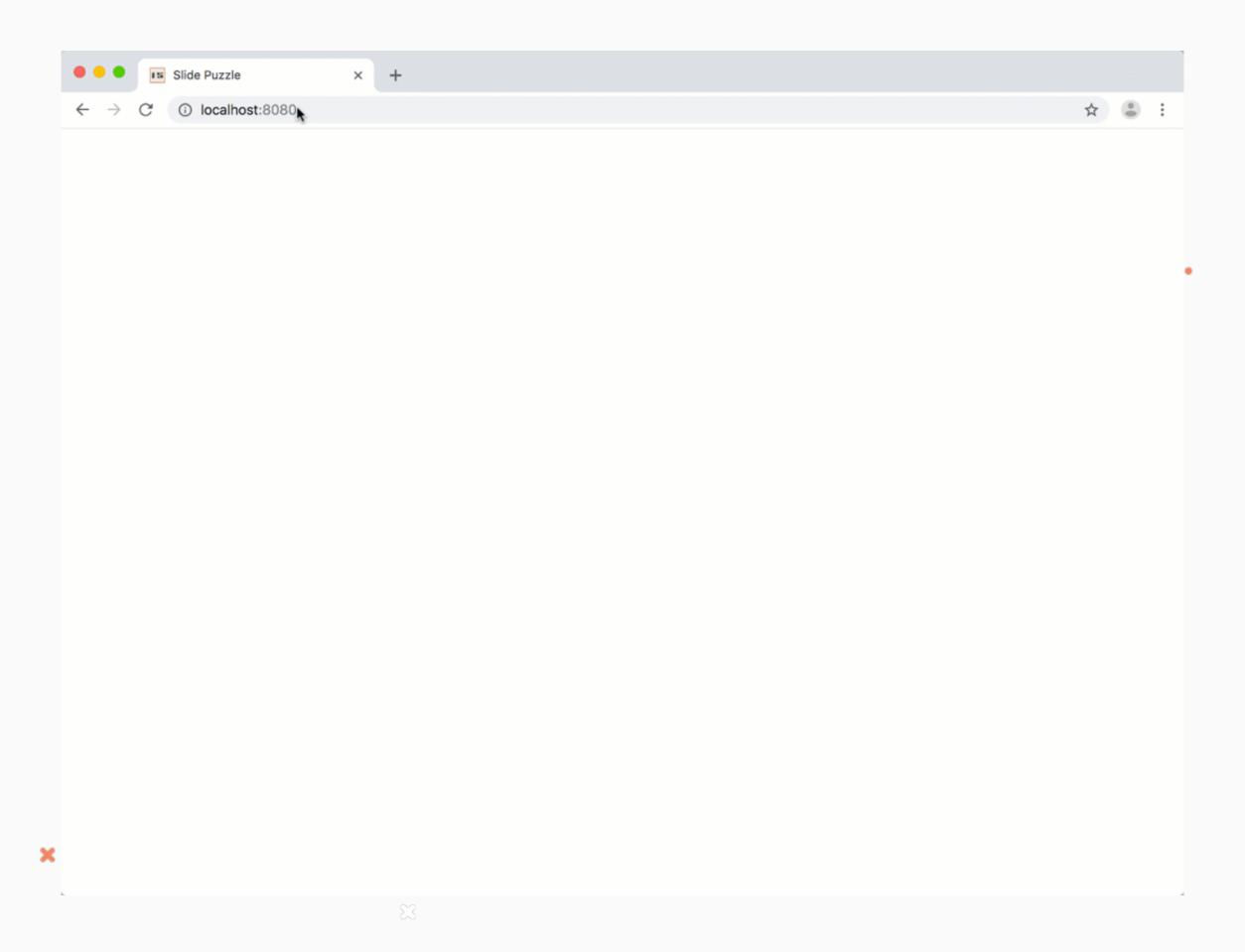
· Flutter Architecture







Hummingbird

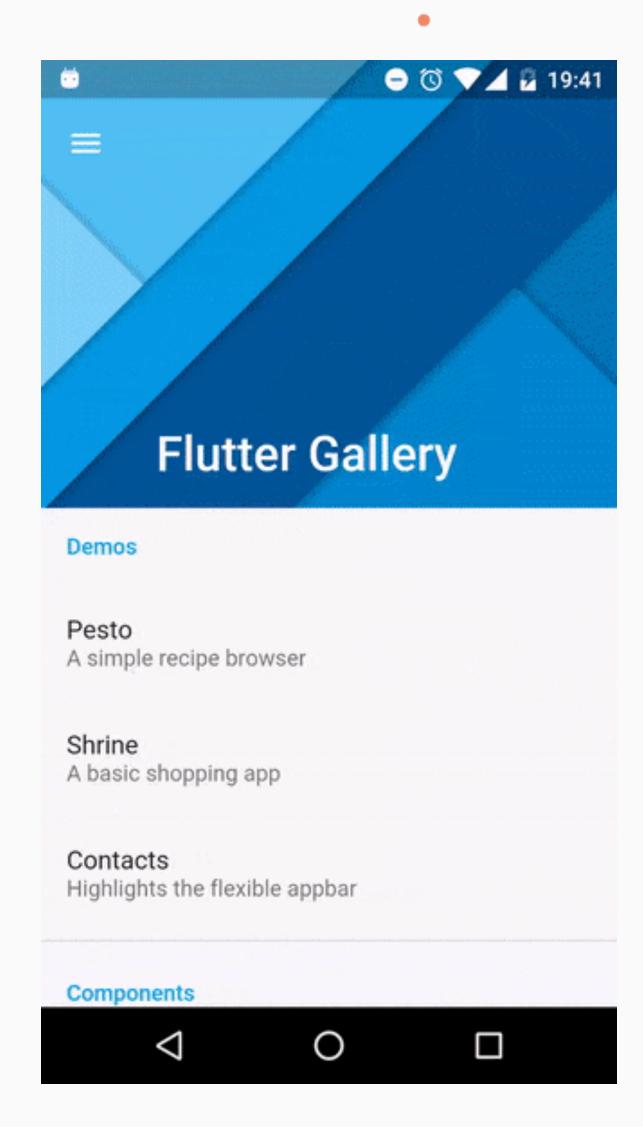




Flutter provides reactive-style views

- Thanks to Dart doesn't use JavaScript as bridge.
- Dart is compiled "ahead of time" (AOT) into native.
- Compiling to native code also improves app startup times.



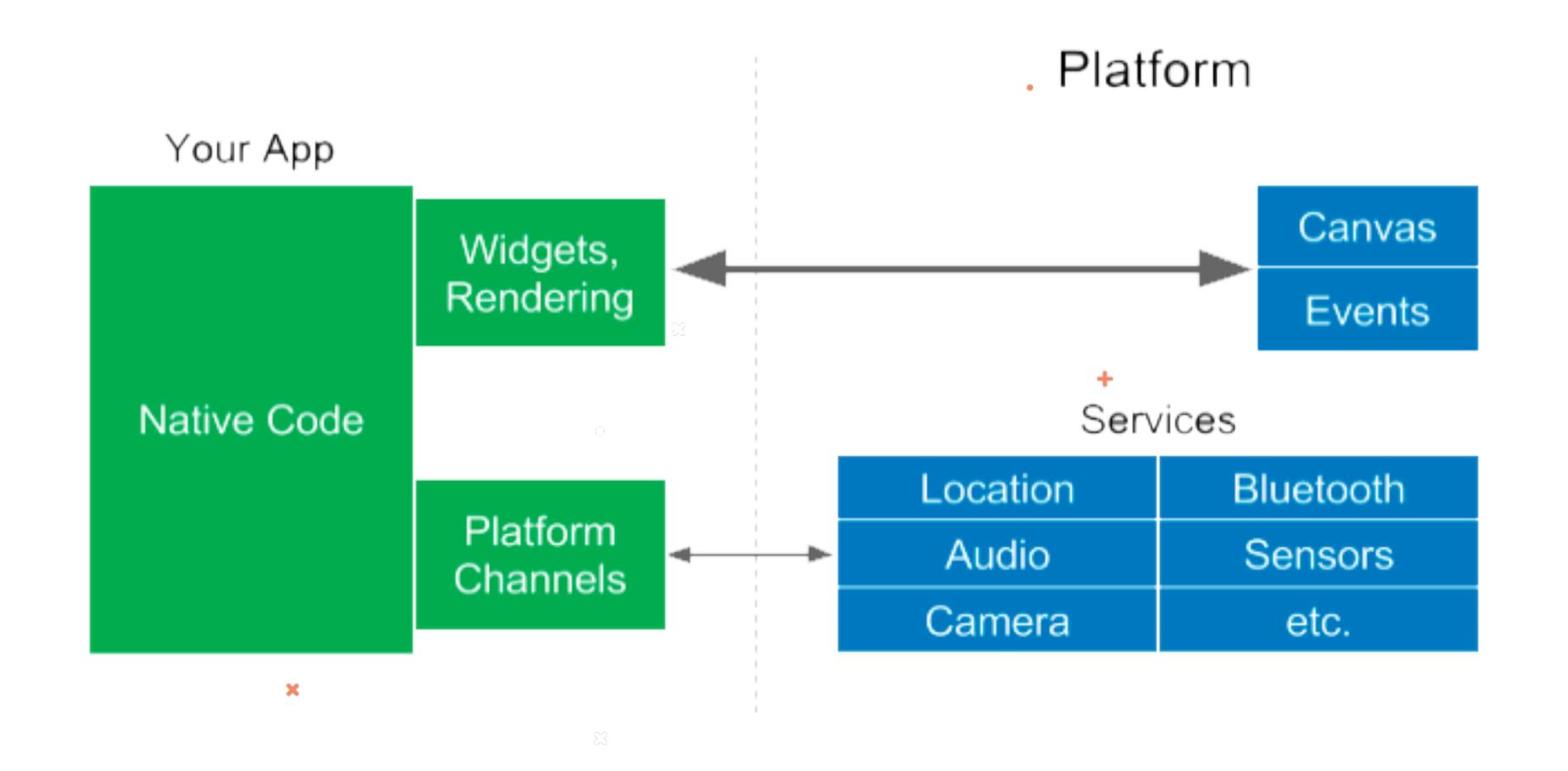


Flutter Widget

- The look and feel of widgets is paramount.
- They must perform fast.
- They should be extensible and customizable.



Flutter Widget







Flutter Layout

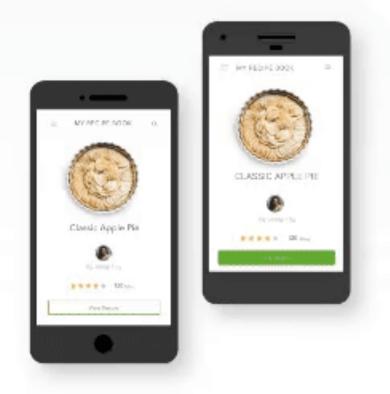
- Constraints for determines the size and positions of widgets.
- Will be defined by rules, more simple than css.
- Google experimented with Chrome browser.



Flutter Layout

Welcome to Flutter

Flutter is a mobile app SDK for building highperformance, high-fidelity, apps for iOS and Android.





START EXPLORING

Layout could be simplified significantly:

- Each widget would specify its own simple layout model.
- Layout can be optimized heavily.
- Almost everything is a widget.





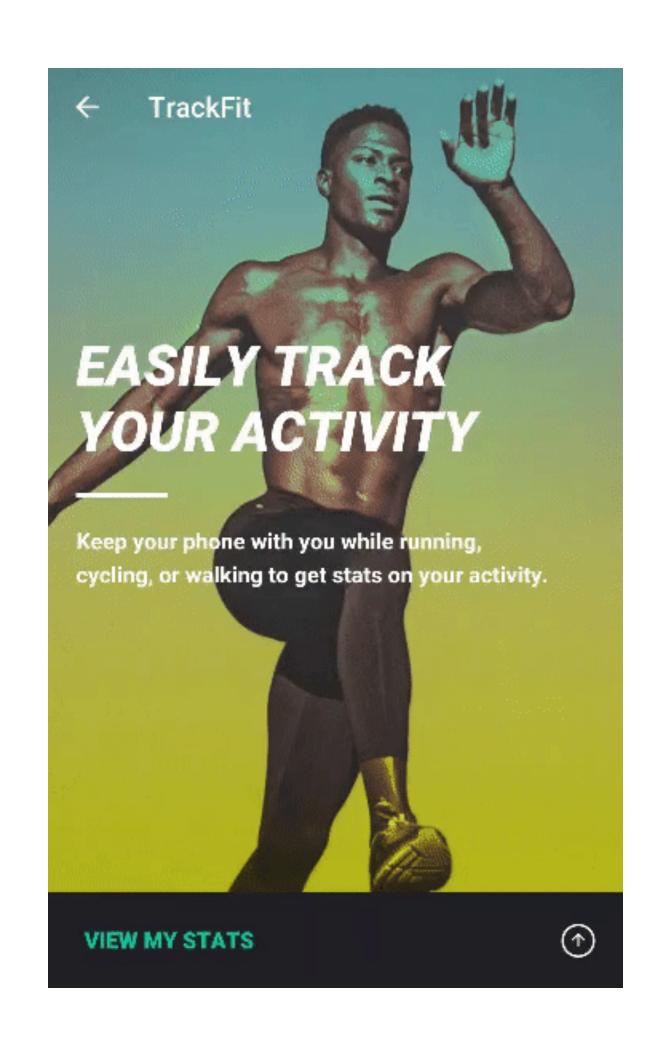
Flutter Layoug

```
new Center(
  child: new Column(
    children: [
        new Text('Hello, World!')),
        new Icon(Icons.star, color: Colors.green)
    ]
  )

Hello, World!
```



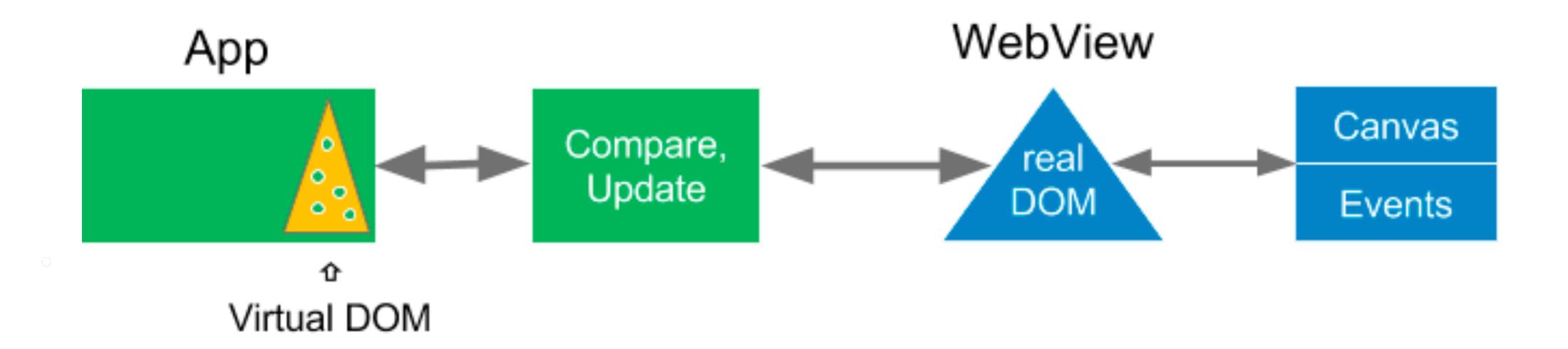
Flutter Layout



- Flutter includes quite a few widgets for doing layout.
- Widgets like columns, rows, grids, lists, etc.
- Silver Layout Model for scrolling.
- Custom Designs thanks to Widgets.



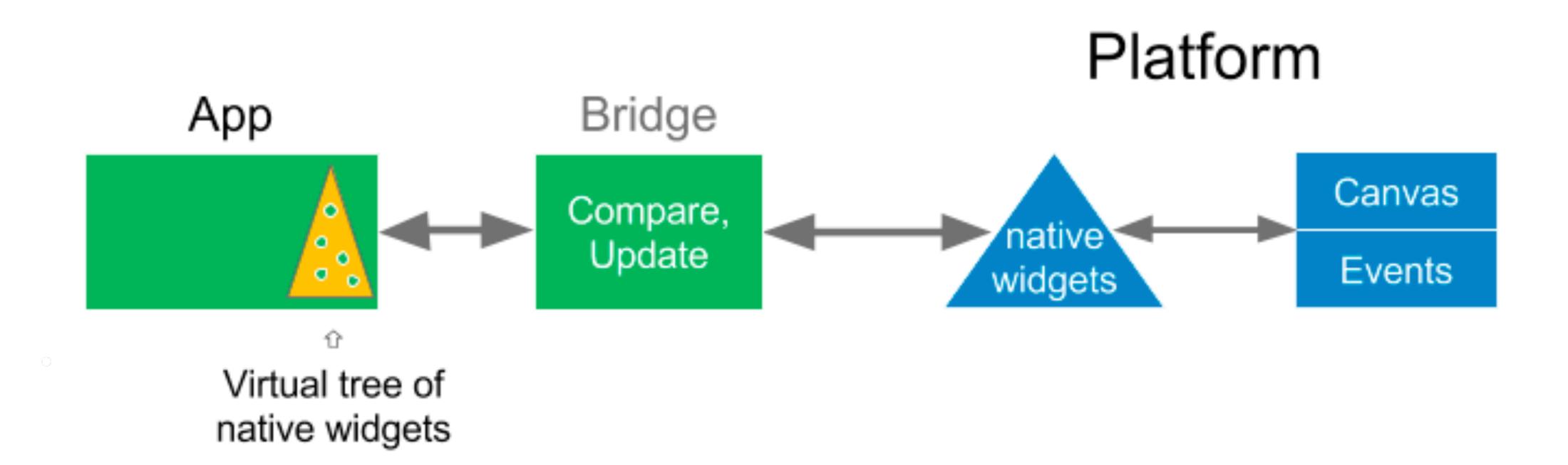
Reactive Views





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Reactive Views

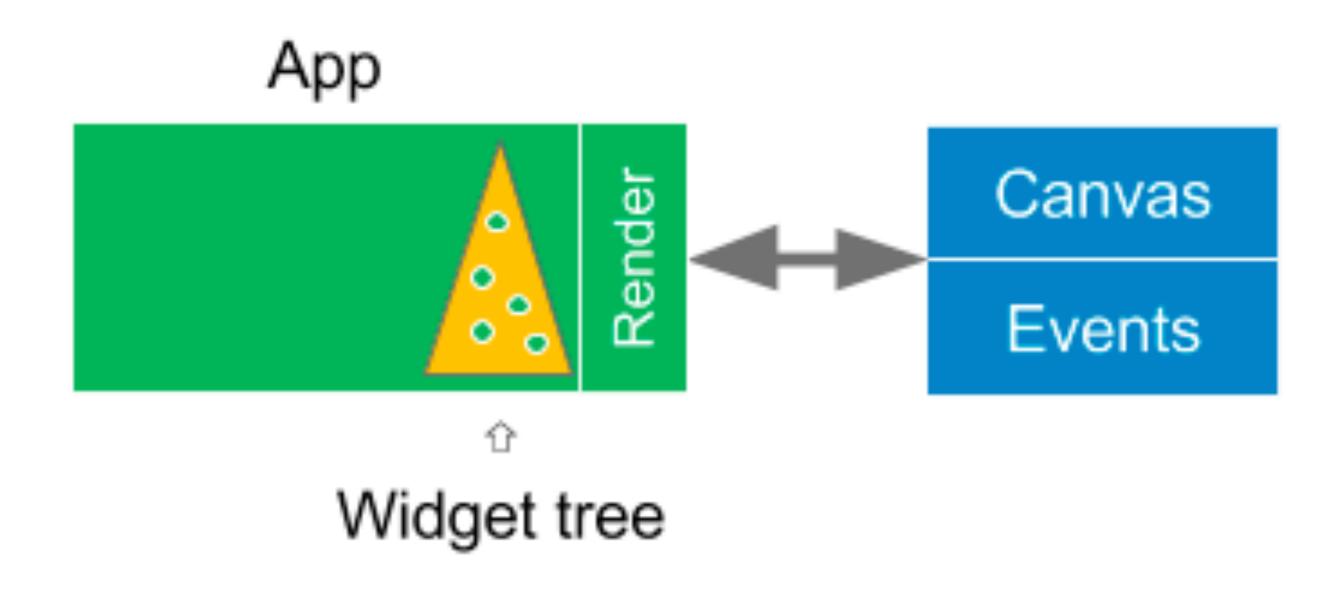




@itrjwyss

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Reactive Views in Flutter





Hot Reload

```
main.dart - hot-reload - [~/tmp/hot-reload]
                                                                              iPhone 5s - iOS 10.3 (14E269)
                 iPhone 5s 🔻 🏑 hot-reload 🔻 📐
                                                                                      2:33 PM
main.dart
                                                                          Flutter Demo Home Page
         int _counter = 0;
         void _incrementCounter() {
           setState(() {
             _counter++;
           });
         @override
         Widget build(BuildContext context) {
           return new Scaffold(
             appBar: new AppBar(
               title: new Text(widget.title),
             body: new Center(
               child: new Text(
                                                                               Button tapped 0 times.
                  'Button tapped $_counter time${ _counter == 1 ?
Run 4 hot-reload
   ☐ Console 👉 🍊 🐚 💍
```



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