LeanCode

Flutter intro / Layouting 1

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Introduction

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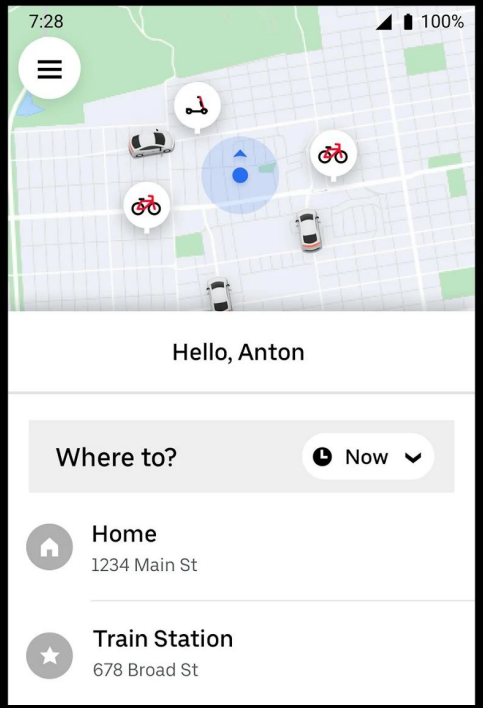
Choose your destination



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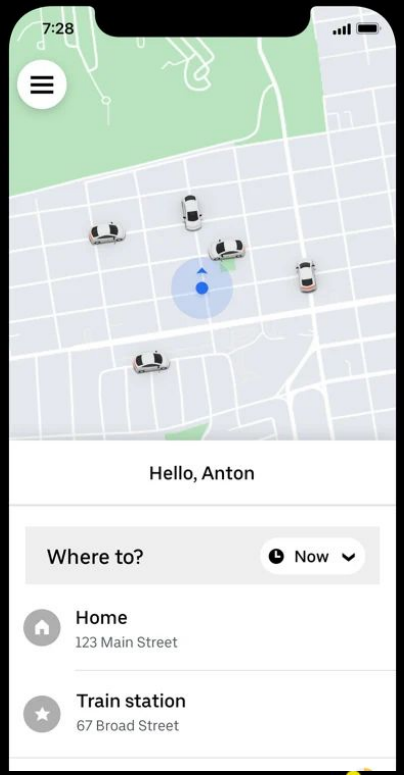

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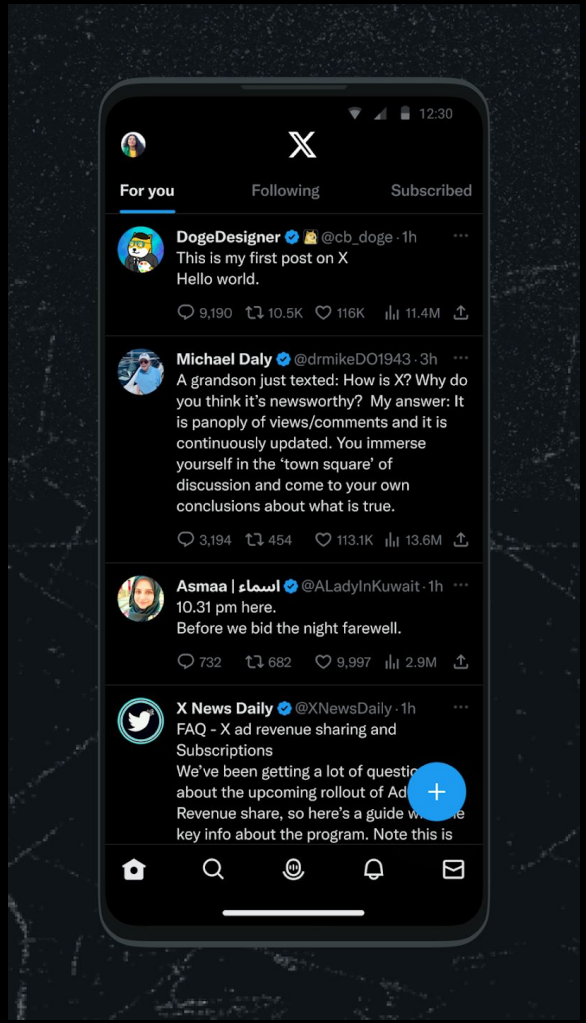
12:30
For you
Following
Subscribed
DogeDesigner @cb_doge · 1h
This is my first post on X
Hello world.
9,190 10.5K 116K 11.4M
Michael Daly @drmikeDO1943 · 3h
A grandson just texted: How is X? Why do you think it's newsworthy? My answer: It is panoply of views/comments and it is continuously updated. You immerse yourself in the 'town square' of discussion and come to your own conclusions about what is true.
3,194 454 113.1K 13.6M
Asmaa | اسماء @ALadyInKuwait · 1h
10.31 pm here.
Before we bid the night farewell.
732 682 9,997 2.9M
X News Daily @XNewsDaily · 1h
FAQ - X ad revenue sharing and Subscriptions
We've been getting a lot of questi
about the upcoming rollout of Ad
Revenue share, so here's a guide w
key info about the program. Note this is


For you
9:41
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X News Daily @XNewsDaily · 1h
FAQ - X ad revenue sharing and Subscriptions
We've been getting a lot of questions about the upcoming rollout of Ad Revenue
so here's a guide with the key info a
program. Note this is all based on cu
confirmed info - if anything ch... Show more

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Design systems are platform-independent

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Two separate dev teams

...and separate bugs, release cycles, deployments

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It costs a lot

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Xamarin

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APACHE CORDOVA™

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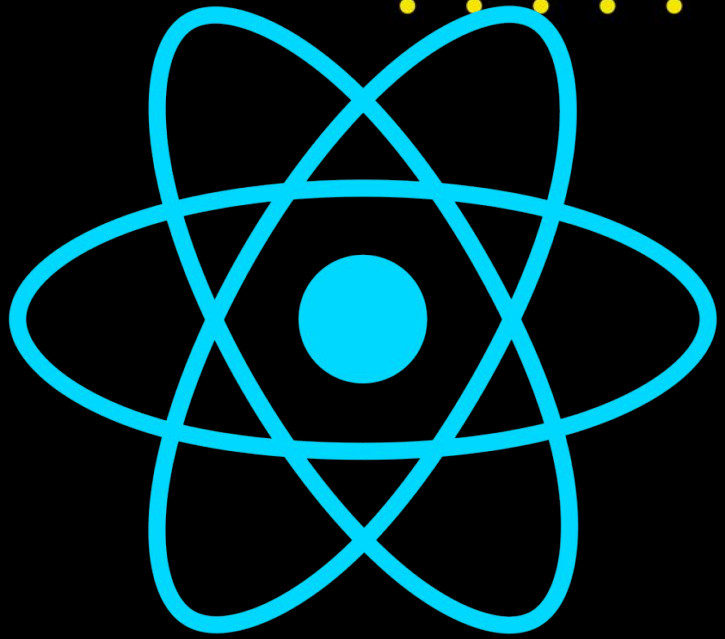
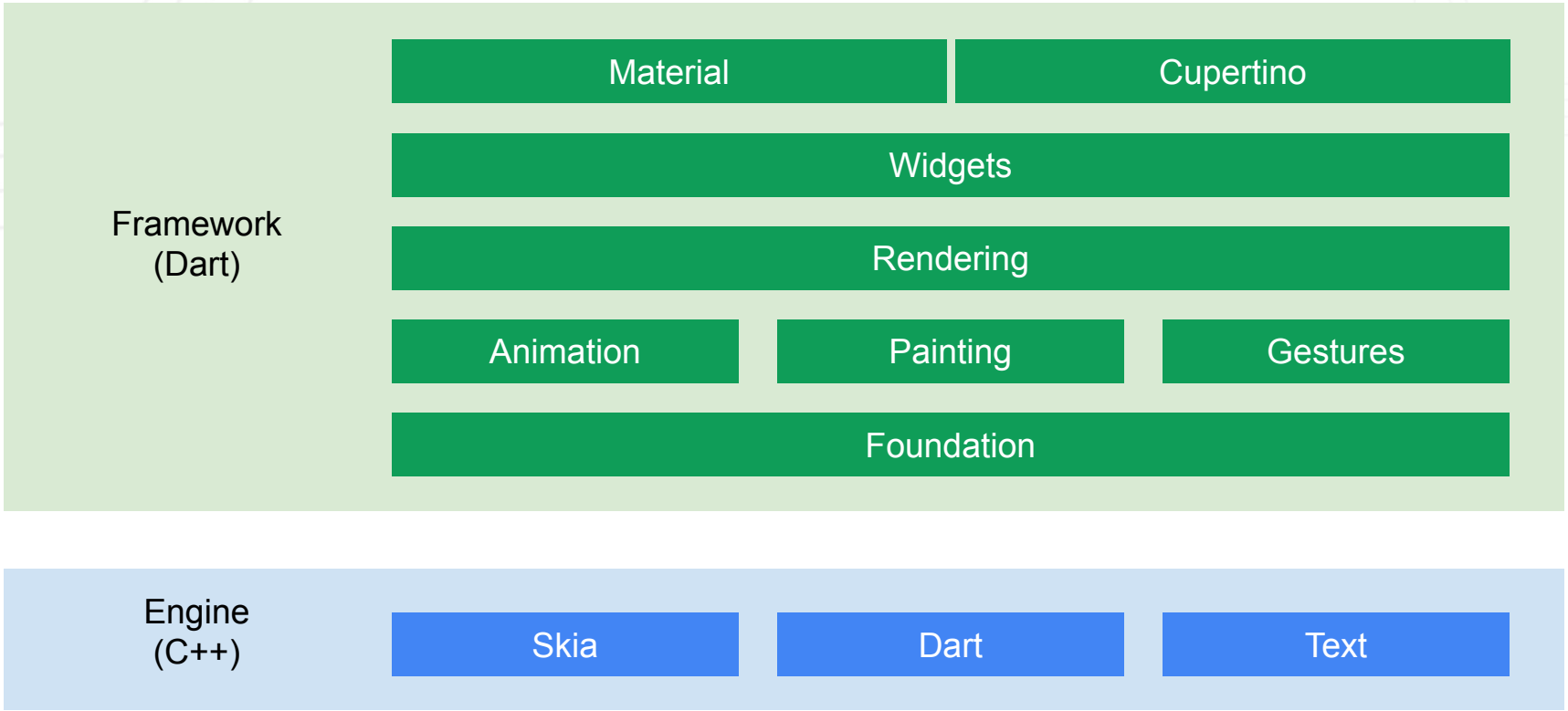


React Native

Flutter



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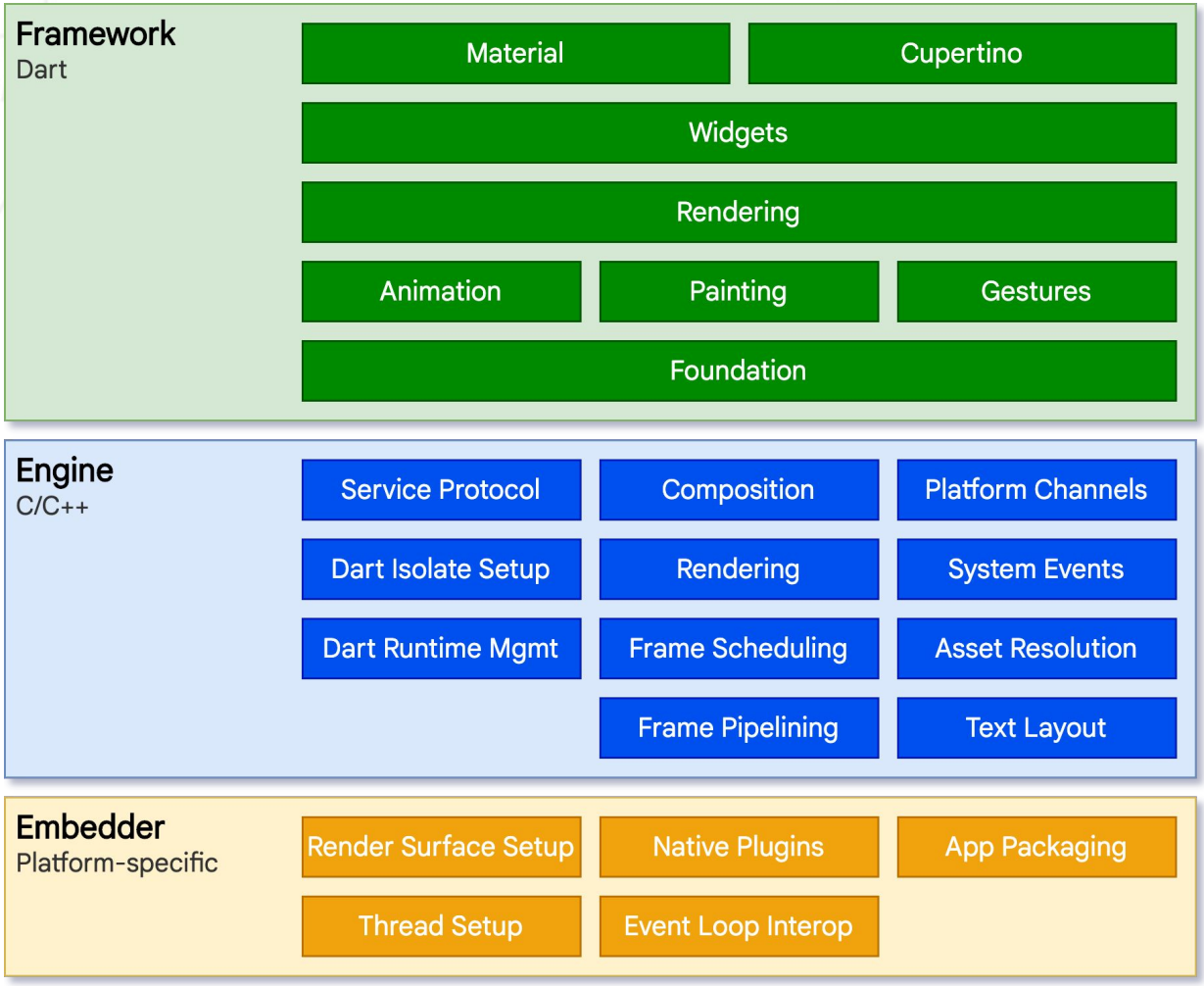

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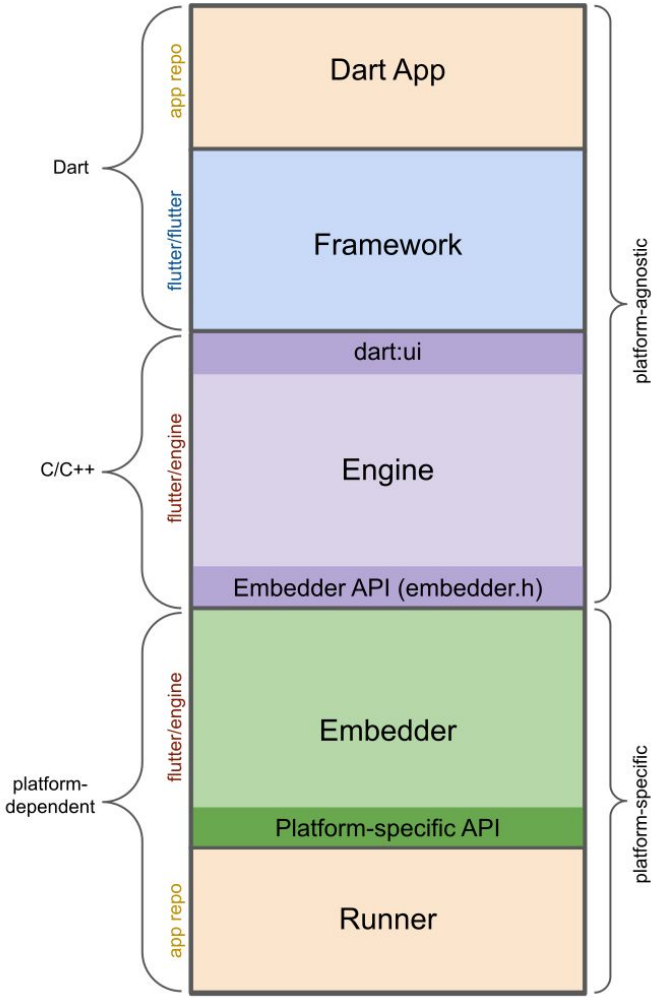

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Skia is an open source 2D graphics library which provides common APIs that work across a variety of hardware and software platforms. It serves as the graphics engine for Google Chrome and Chrome OS, Android, Flutter, Mozilla Firefox and Firefox OS, and many other products.

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(Almost) everything is a widget

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Widget in a widget

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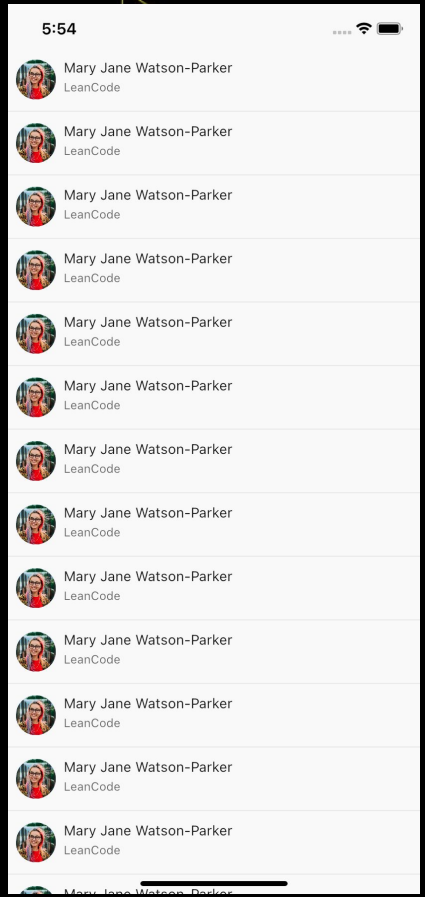

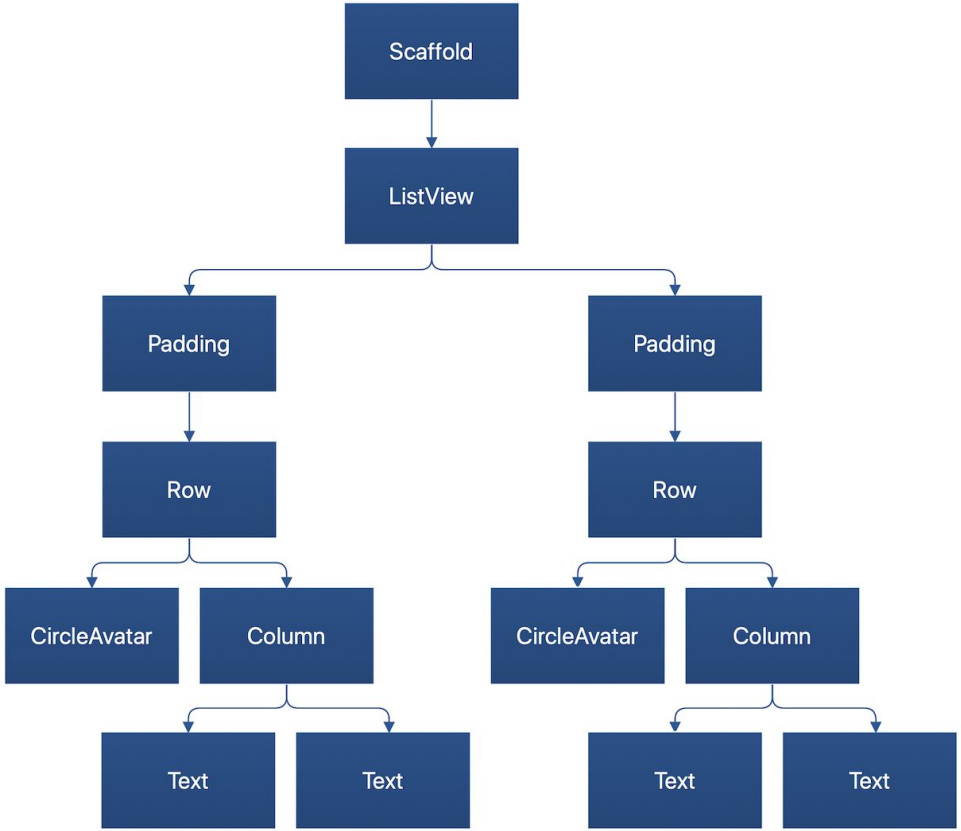

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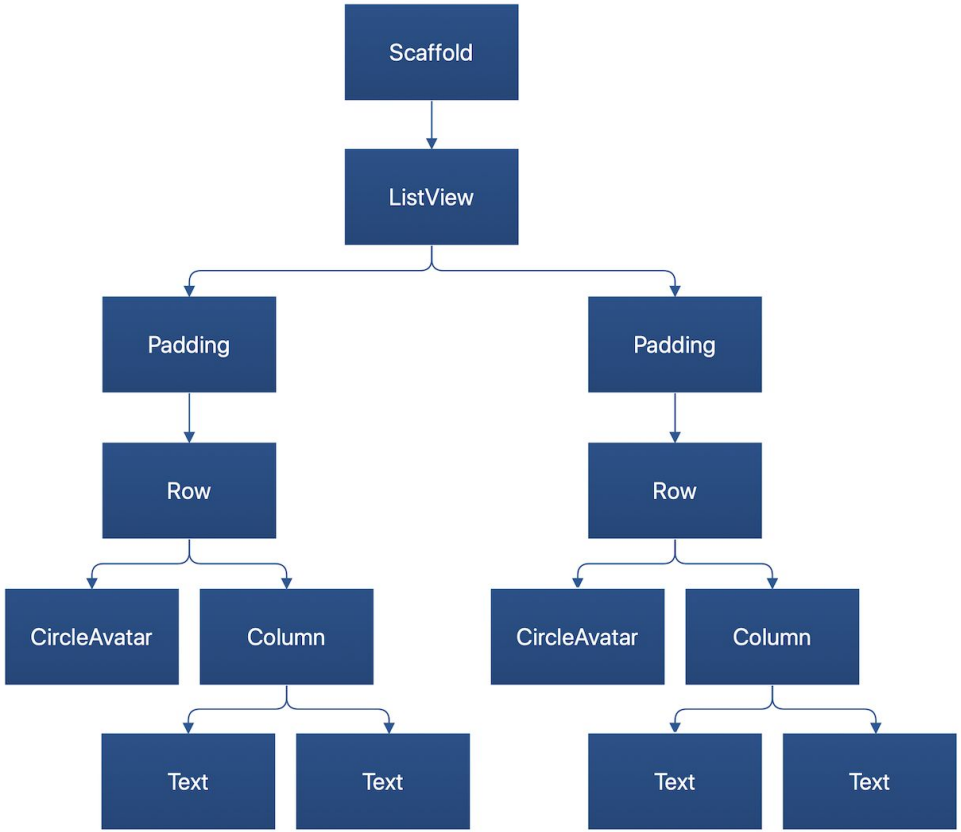
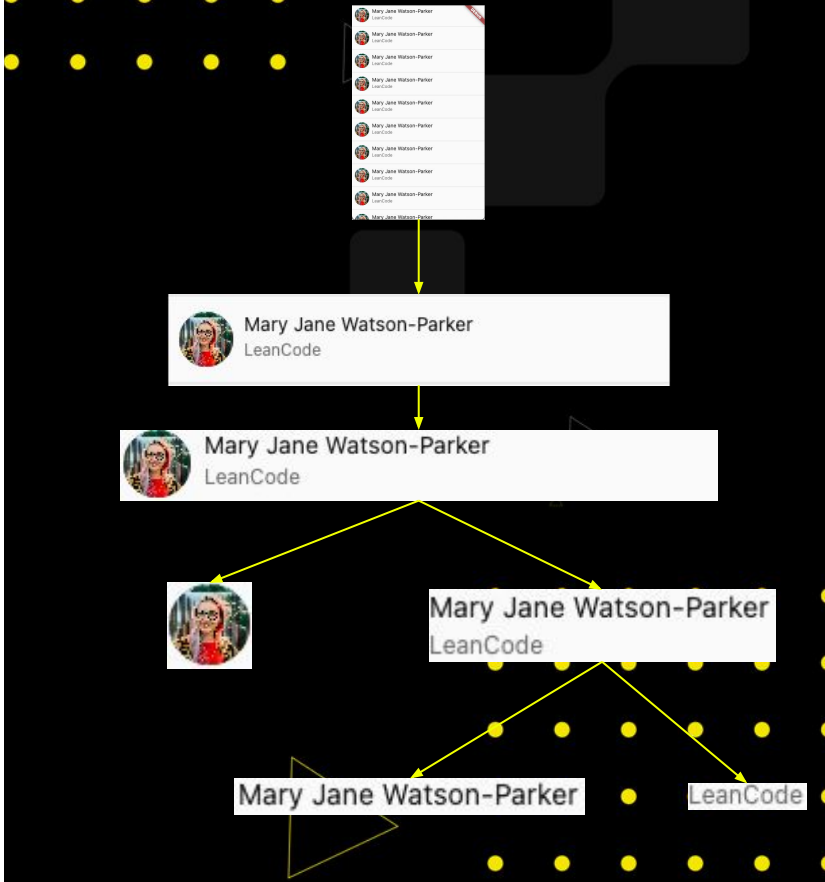

Scaffold
ListView
Padding
Padding
Row
Row
CircleAvatar
Column
CircleAvatar
Column
Text
Text
Text
Text


Mary Jane Watson-Parker
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Flutter Desktop

macOS + Windows + Linux

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Flutter Web

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Flutter Embedded

Imperative UI

Windows Forms / Android / iOS / GTK

Add callback which on change does:

- Set color
- Remove child
- Add child
- Set position

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Declarative UI

React / Flutter / Jetpack Compose / SwiftUI

For this state return a View with red background color and children consisting of a text message and a button.

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```
final title = Text();
title.data = 'Please tap the button to finish';

final button = Button();
button.text = 'Finish';
button.onPressed = () {
  print('Button pressed!');
};

view.backgroundColor = Colors.white;
view.children = [];
view.children.add(title);
view.children.add(button);
```

```
return View(
  children: [
    Text('Please tap the button to finish'),
    Button(
      text: 'Finish',
      onPressed: () {
        print('Button pressed!');
      }
    ),
  ],
);
```

Let’s make some Hello World!

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```dart
import 'package:flutter/material.dart';

void main() {
  runApp(
    const Center(
      child: Text(
        'Hello world!',
        textDirection: TextDirection.ltr,
      ),
    ),
  );
}
```

Constraints go down. Sizes go up. Parent sets position.

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BoxConstraints({double minWidth, double maxWidth, double minHeight, double maxHeight})

Creates box constraints with the given constraints.

const

Layout algorithm

1. Widget gets constraints from its parent
2. For every child, it requests its size within given constraints (could be different from the first constraints)
3. Knowing children sizes, now the widget positions every of them
4. Knowing children sizes and positions, now the widget can pass its own size to its parent

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Show me the code

Thanks!