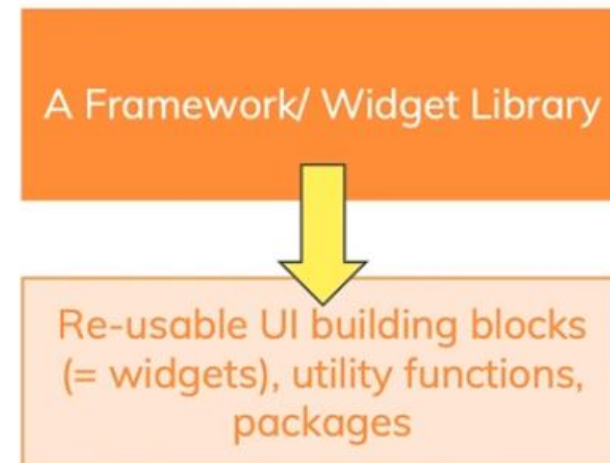
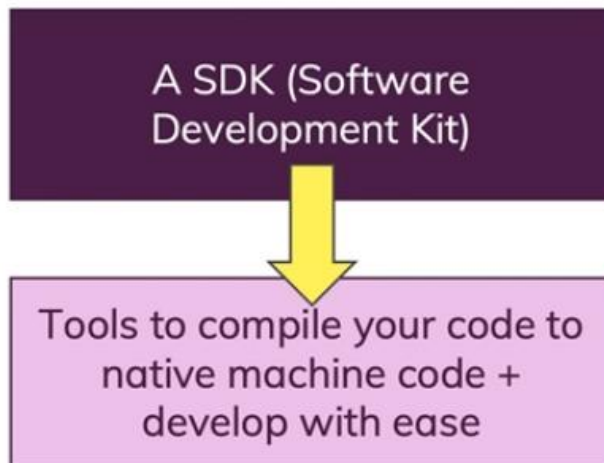


What is Flutter?

A “tool” that allows you to build native cross-platform (iOS, Android) apps with one programming language and codebase.



Dart?

Programming language developed by Google

Object-oriented &
Strongly Typed

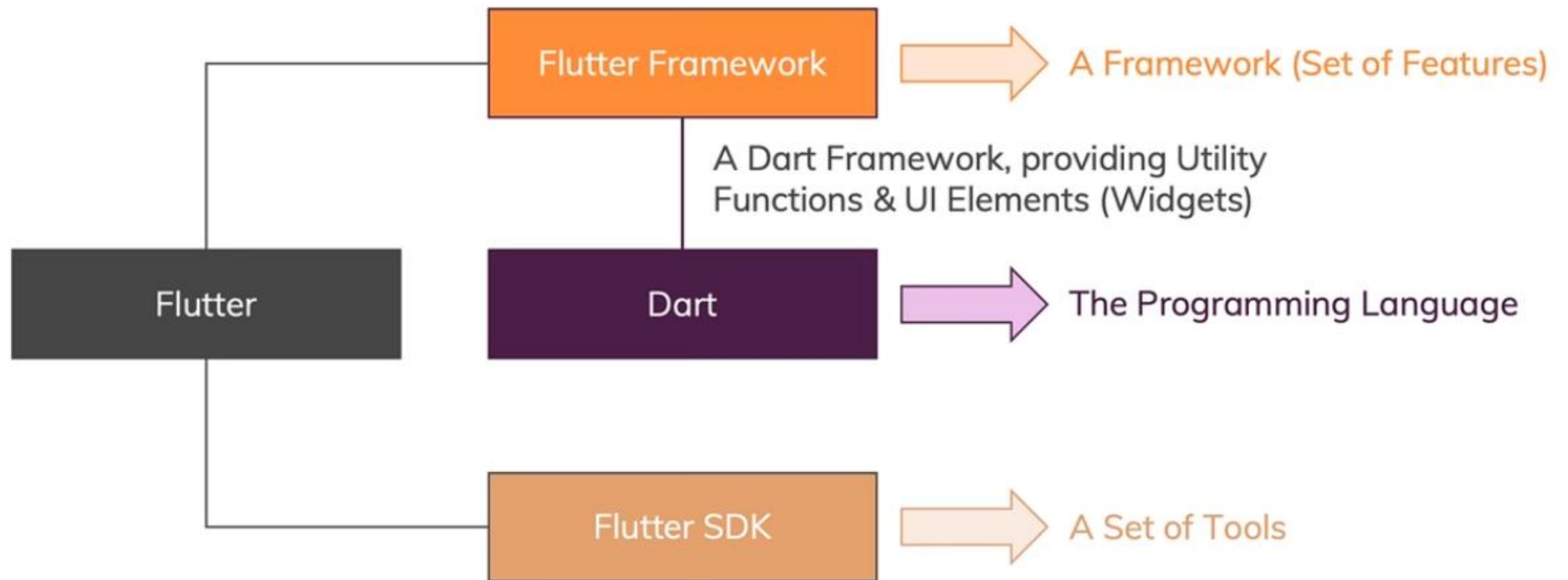


Syntax is like a mixture of
JavaScript, Java, C# (you don't
need to know these languages!)

Focused on frontend (mobile apps, web) user interface (UI)
development



Flutter vs Dart



Flutter Architecture



UI as Code: Build a
Widget Tree



Embrace Platform Differences



One Codebase



Flutter Overview

WIDGETS! WIDGETS!! WIDGETS!!!



Everything's a Widget!

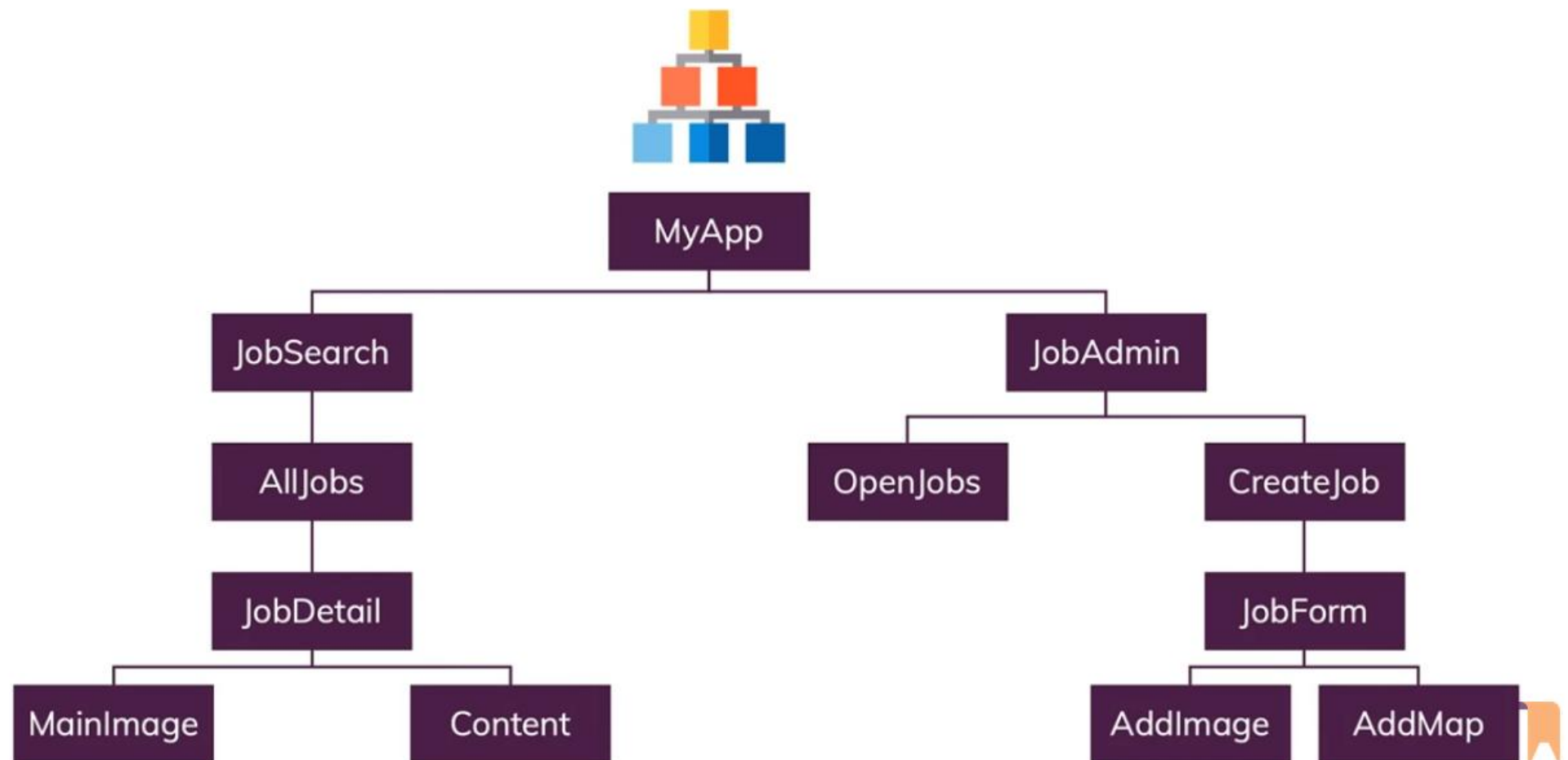
Widgets!



Actually, the whole page is a Widget!



Your App's UI is a Widget Tree



No Visual Editor

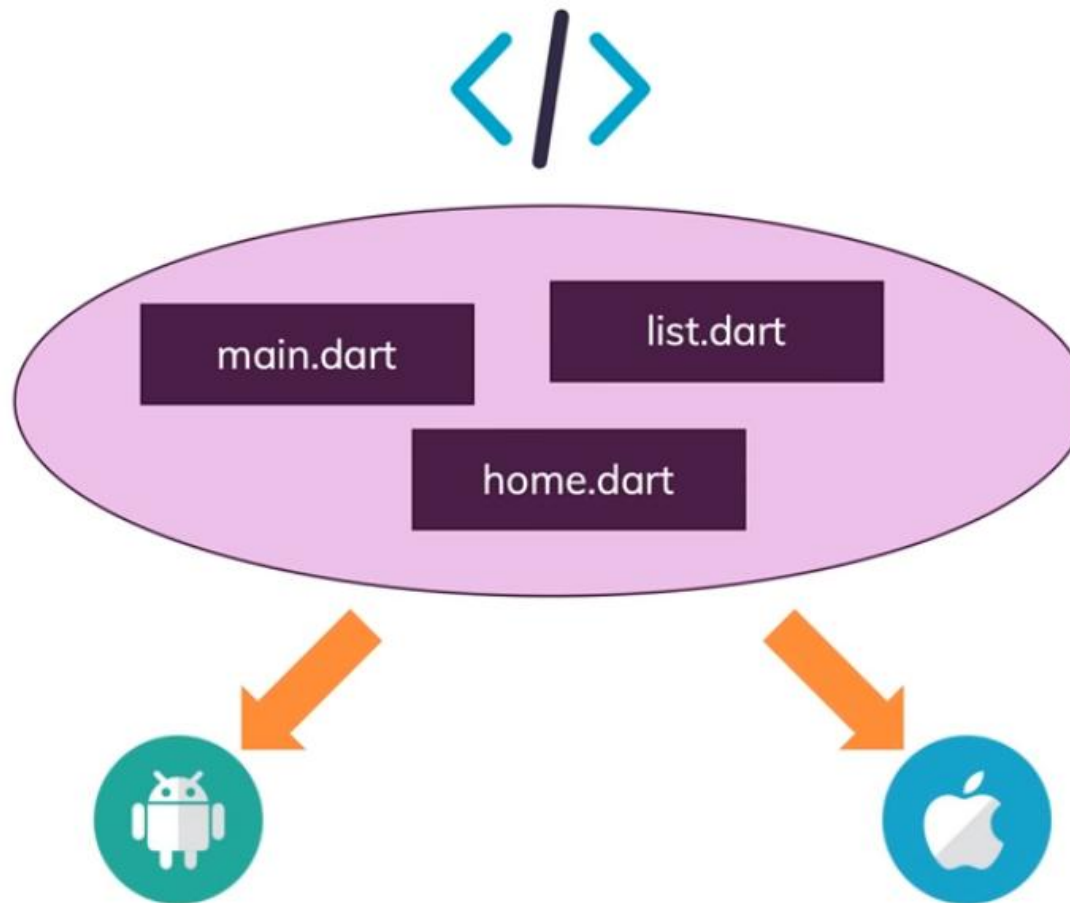
But extremely straightforward



```
body: Stack(
  children: <Widget>[
    Container(
      decoration: BoxDecoration(
        image: DecorationImage(
          image: AssetImage('assets/images/store.jpg'),
          fit: BoxFit.cover,
          alignment: Alignment.center,
        ), // DecorationImage
      ), // BoxDecoration
    ), // Container
    Container(
      // width: double.infinity,
      // height: double.infinity,
      decoration: BoxDecoration(
        gradient: LinearGradient(
          colors: [
            Color.fromRGBO(215, 117, 255, 1).withOpacity(0.5),
            Color.fromRGBO(255, 188, 117, 1).withOpacity(0.9),
          ],
          begin: Alignment.topLeft,
          end: Alignment.bottomRight,
          stops: [0, 1],
        ), // LinearGradient
      ), // BoxDecoration
    ), // Container
  ],
) SingleChildScrollView(
```



One Codebase

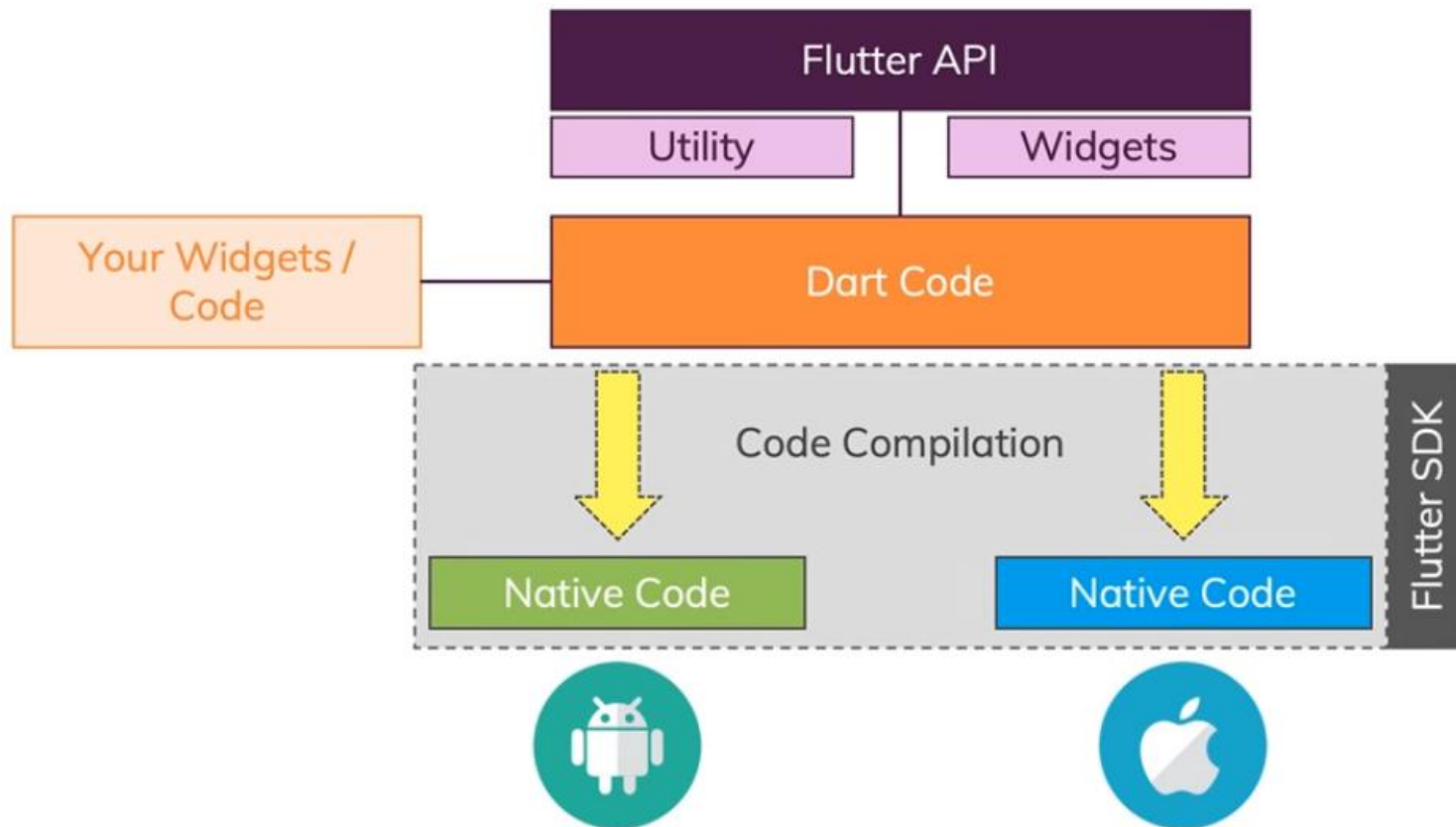


Embrace Platform Differences

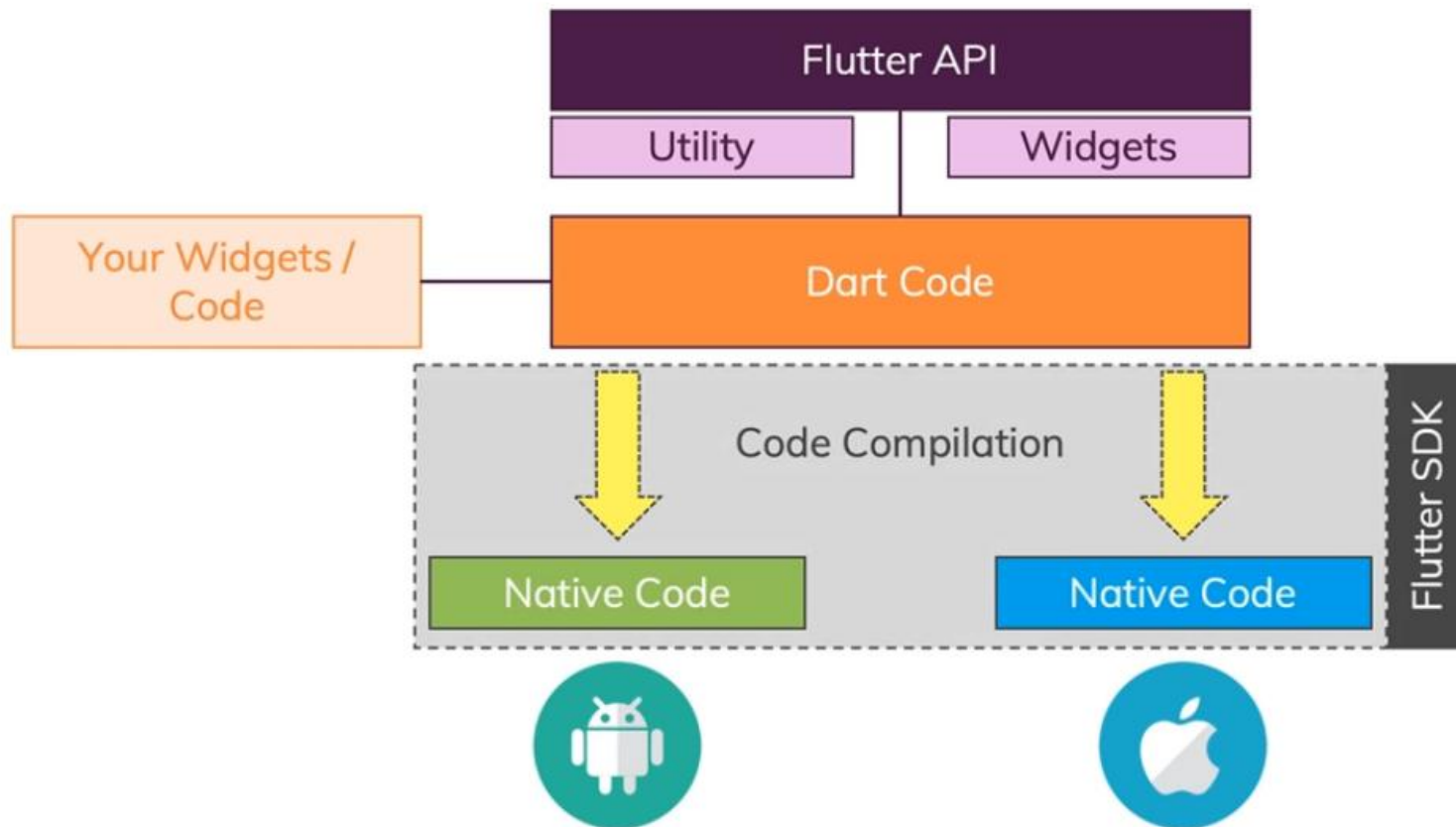


```
child: Theme.of(context).platform == TargetPlatform.iOS  
  ? CupertinoButton(...) // Apple look & feel  
  : RaisedButton(...) // Material (Google) look & feel
```

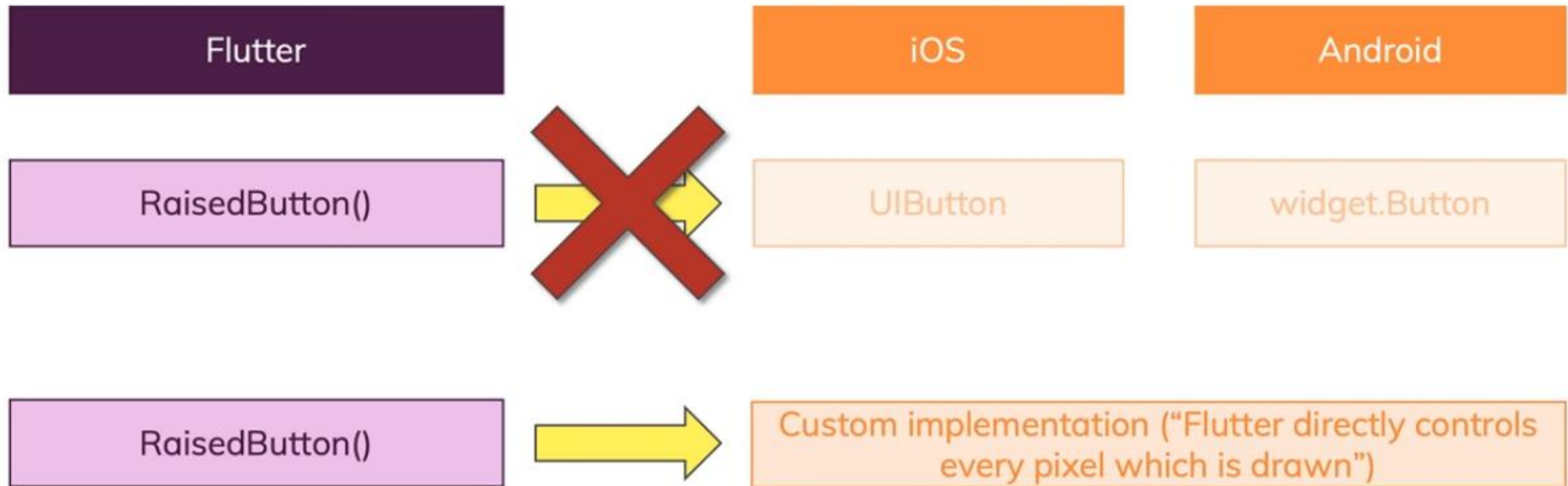
How is Flutter/ Dart “transformed” to a Native App?



How is Flutter/ Dart “transformed” to a Native App?



Flutter Does NOT Use Platform Primitives



Flutter Does NOT Use Platform Primitives

