





@gdgmontevideo

Flutter101 Todo es un widget

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Características

Desarrollo rápido

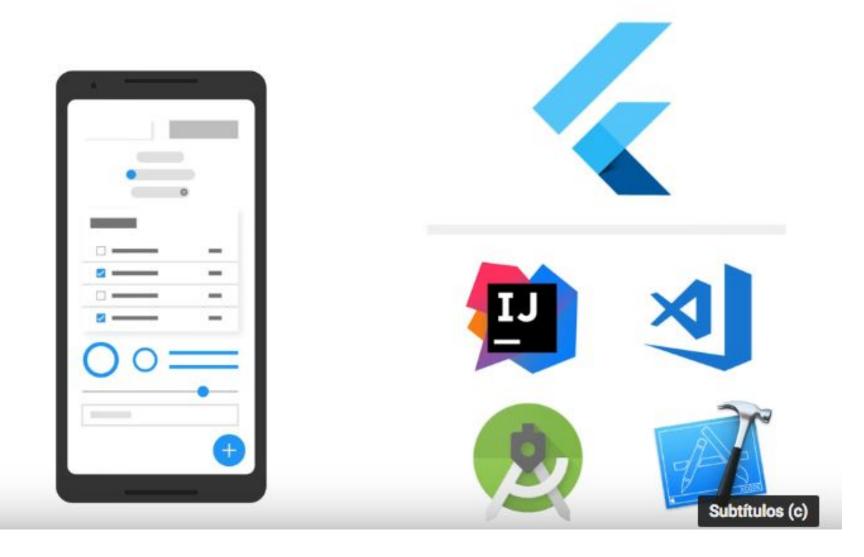
UI Flexible y expresiva

Desarrollo unificado

Desarrollo rápido

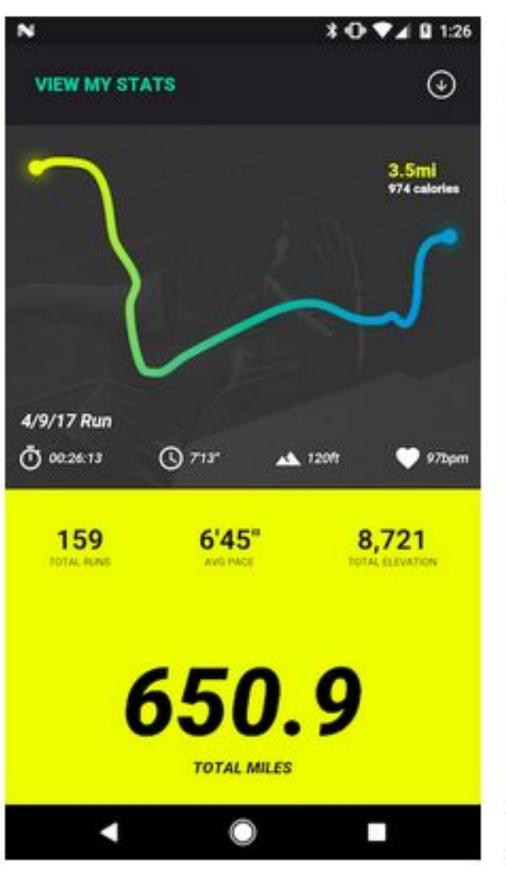
```
H H 🤏 * * 5 🔳
       Flutter Demo Home Page
              void _incrementCounter() {
                setState(() {
                 _counter++;
                });
@override
              Widget build(BuildContext context) {
                return new Scaffold(
                  appBar: new AppBar(
                   title: new Text(widget.title),
                  ), // AppBar
                  body: new Center(
                                                                                 Button clicked 0 times
                    child: new Text(
                      'Button clicked $_counter times',
                     style: Theme.of(context).textTheme.display1,
                   ), // Text
                  ), // Center
                  floatingActionButton: new FloatingActionButton(
                    onPressed: _incrementCounter,
                    tooltip: 'Increment',
                    child: new Icon(Icons.add),
                  ), // FloatingActionButton
                ); // Scaffold
```

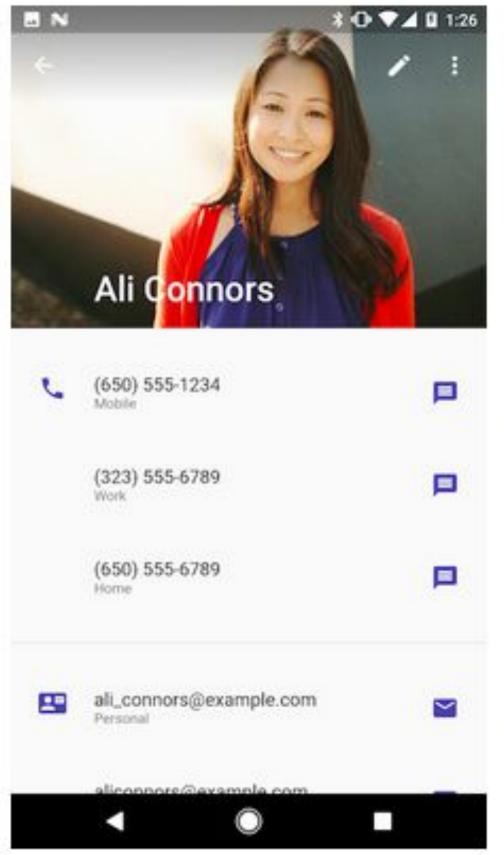


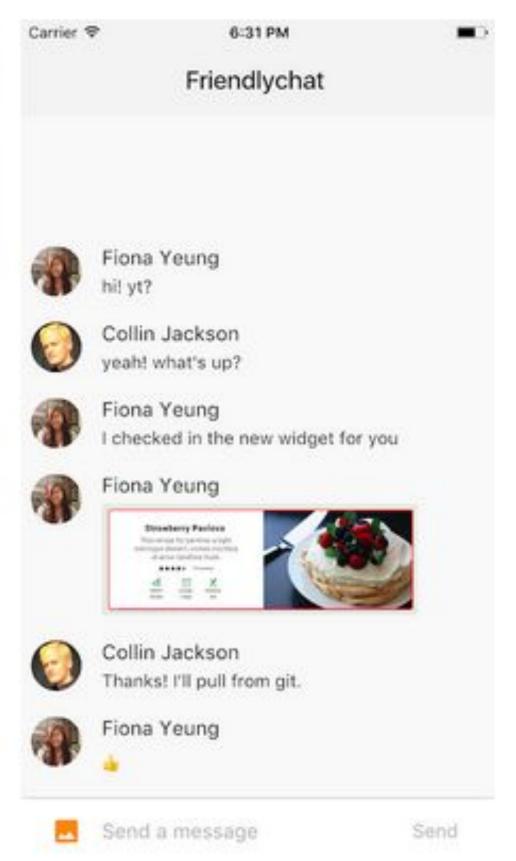


Ul flexible y expresiva

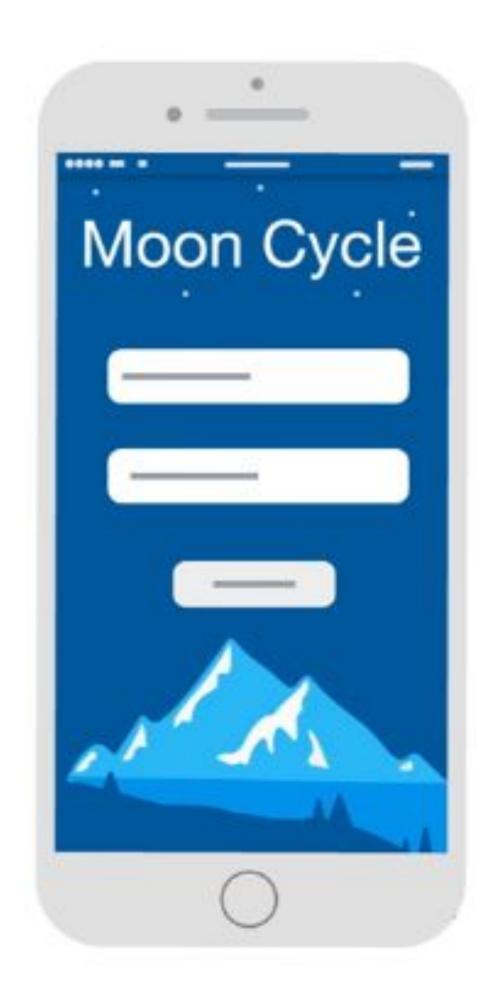








Desarrollo unificado





Canales de plataforma

```
Future<Null> getBatteryLevel() async {
  var batteryLevel = 'unknown';
  try {
    int result = await methodChannel.invokeMethod('getBatteryLevel');
    batteryLevel = 'Battery level: $result%';
  } on PlatformException {
    batteryLevel = 'Failed to get battery level.';
  }
  setState(() {
    _batteryLevel = batteryLevel;
  });
}
```

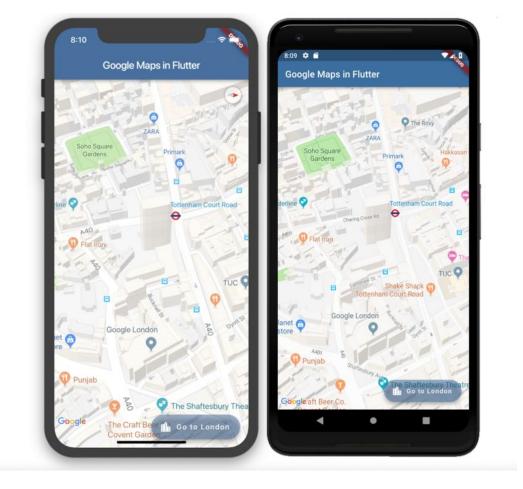
https://github.com/flutter/flutter/tree/master/examples/platform_channel

Flutter 1.0

Announcing



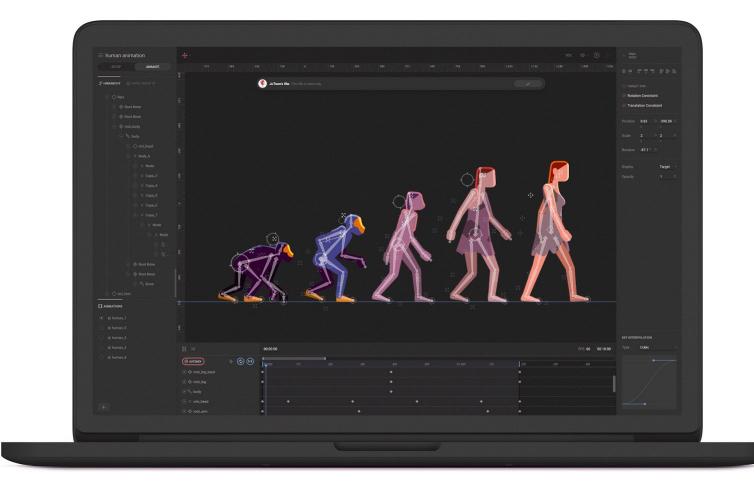
- Faster tools, smaller output
 Int to double value inference
- Compile-time type checking
 New mixin syntax & support











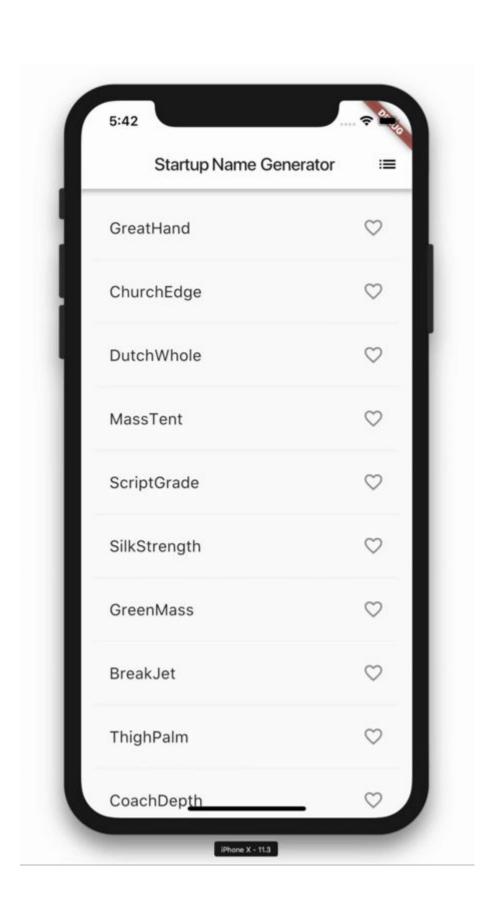


Hello World

```
import 'package:flutter/material.dart';
  void main() => runApp(MyApp());
  class MyApp extends StatelessWidget {
   @override
   Widget build(BuildContext context) {
     return MaterialApp(
      title: 'Welcome to Flutter',
      home: Scaffold(
       appBar: AppBar(
        title: Text('Welcome to Flutter'),
       body: Center(
        child: Text('Hello World'),
```

- Generar nombres para una startup
- Mostrar listado de los nombres
- El usuario puede seleccionar y

deseleccionar nombres



dependencies:

flutter:

sdk: flutter

cupertino_icons: ^0.1.0

english_words: ^3.1.0



> flutter packages get

Running "flutter packages get" in startup_namer...
Process finished with exit code 0



lib/main.dart

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

```
import 'package:flutter/material.dart';
import 'package:english_words/english_words.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  final wordPair = WordPair.random();
  return MaterialApp(
   title: 'Welcome to Flutter',
   home: Scaffold(
     appBar: AppBar(
      title: Text('Welcome to Flutter'),
     body: Center(
      child: Text(wordPair.asPascalCase), // con este texto resaltado.
```







```
class RandomWords extends StatefulWidget {
    @override
    RandomWordsState createState() => new RandomWordsState();
}
```

```
class RandomWordsState extends State<RandomWords> {
    @override
    Widget build(BuildContext context) {
      final wordPair = WordPair.random();
      return Text(wordPair.asPascalCase);
    }
}
```

```
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  final wordPair = WordPair.random(); // Borra esta línea
  return MaterialApp(
   title: 'Welcome to Flutter',
   home: Scaffold(
   appBar: AppBar(
    title: Text('Welcome to Flutter'),
   body: Center(
    //child: Text(wordPair.asPascalCase), // reemplazar el texto resaltado por ...
          child: RandomWords(),
```



```
class RandomWordsState extends State<RandomWords> {
    final _suggestions = <WordPair>[];
    final _biggerFont = const TextStyle(fontSize: 18.0);
    ...
}
```

```
Widget _buildRow(WordPair pair) {
    return ListTile(
        title: Text(
        pair.asPascalCase,
        style: _biggerFont,
      ),
    );
```

```
class RandomWordsState extends State<RandomWords> {
  Widget _buildSuggestions() {
   return ListView.builder(
     padding: const EdgeInsets.all(16.0),
     itemBuilder: (context, i) {
      // Añade un widget divisor de un píxel de alto antes de cada fila en theListView.
      if (i.isOdd) return Divider();
      // La sintaxis "i ~/ 2" divide i entre 2 y devuelve un resultado entero.
      // Por ejemplo: 1, 2, 3, 4, 5 se convierte en 0, 1, 1, 2, 2.
      // Esto calcula el número real de pares de palabras en el ListView,
      // menos los widgets divider.
      final index = i \sim / 2;
      // Si ha llegado al final de los pares de palabras disponibles....
      if (index >= _suggestions.length) {
       // ... luego generar 10 más y agregarlos a la lista de sugerencias.
        _suggestions.addAll(generateWordPairs().take(10));
      return _buildRow(_suggestions[index]);
```

```
class RandomWordsState extends State<RandomWords> {
 @override
 Widget build(BuildContext context) {
  final wordPair = WordPair.random(); // Eliminar estas dos lineas
  return Text(wordPair.asPascalCase);
  return Scaffold (
   appBar: AppBar(
    title: Text('Startup Name Generator'),
   body: _buildSuggestions(),
```

```
class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
      return MaterialApp(
        title: 'Startup Name Generator',
        home: RandomWords(),
    );
    }
}
```

Empezando por...

Instalar Flutter

developers.google.com/discovery/libraries

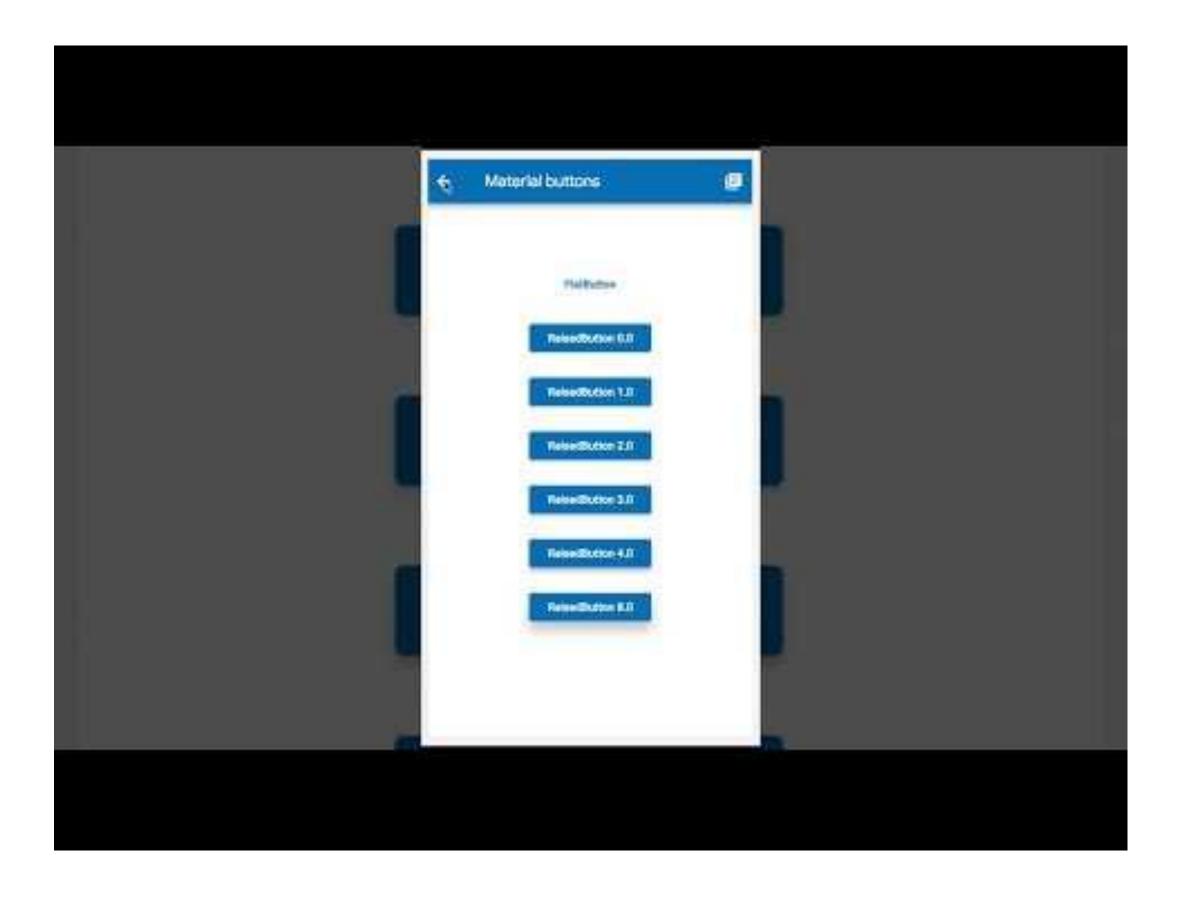
Google CodeLabs

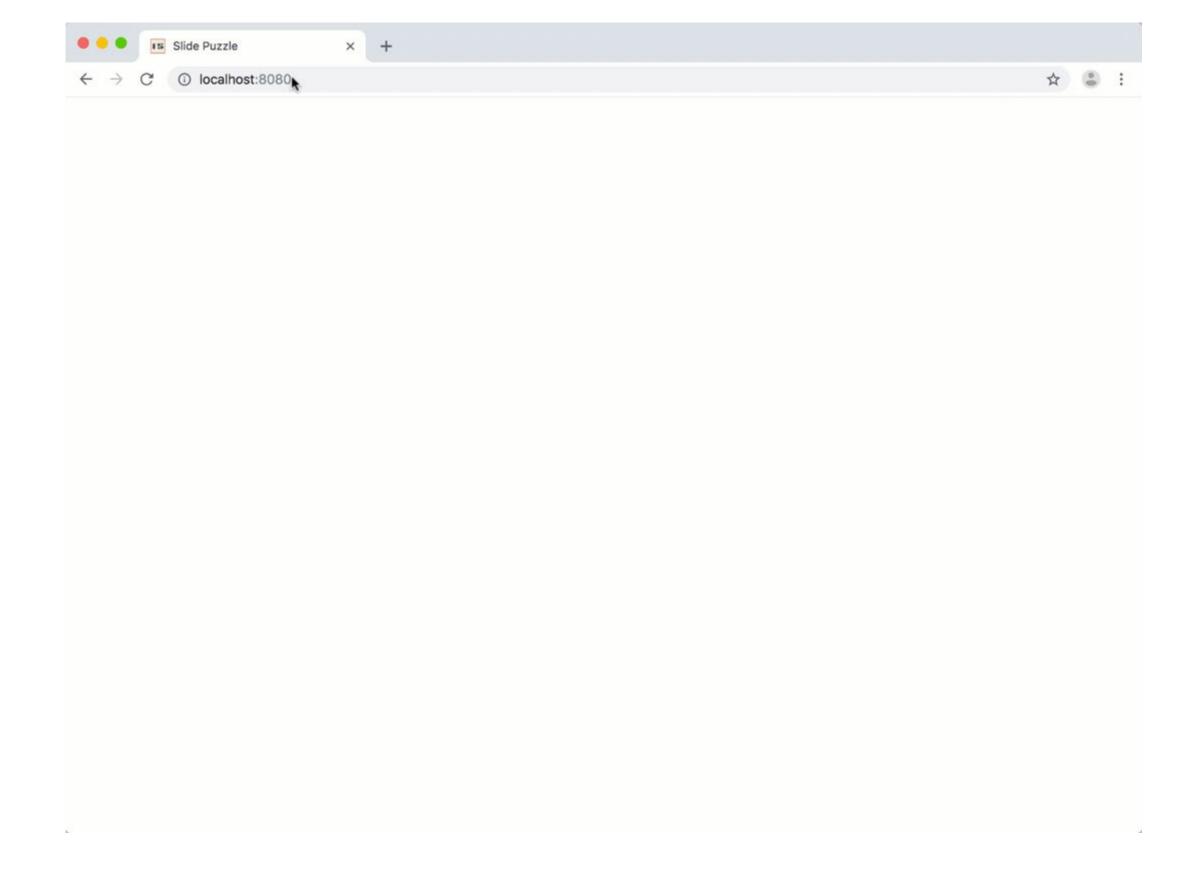
https://codelabs.developers.google.com/?cat=Flutter

Flutter en Udacity

https://www.udacity.com/course/build-native-mobile-apps-with-flutter--ud905

HummingBird





Links

Flutter Live 2018

Sitio Oficial Flutter EN ES

https://flutterstudio.app/

https://material.io/tools/theme-editor/

https://material.io/tools/color/

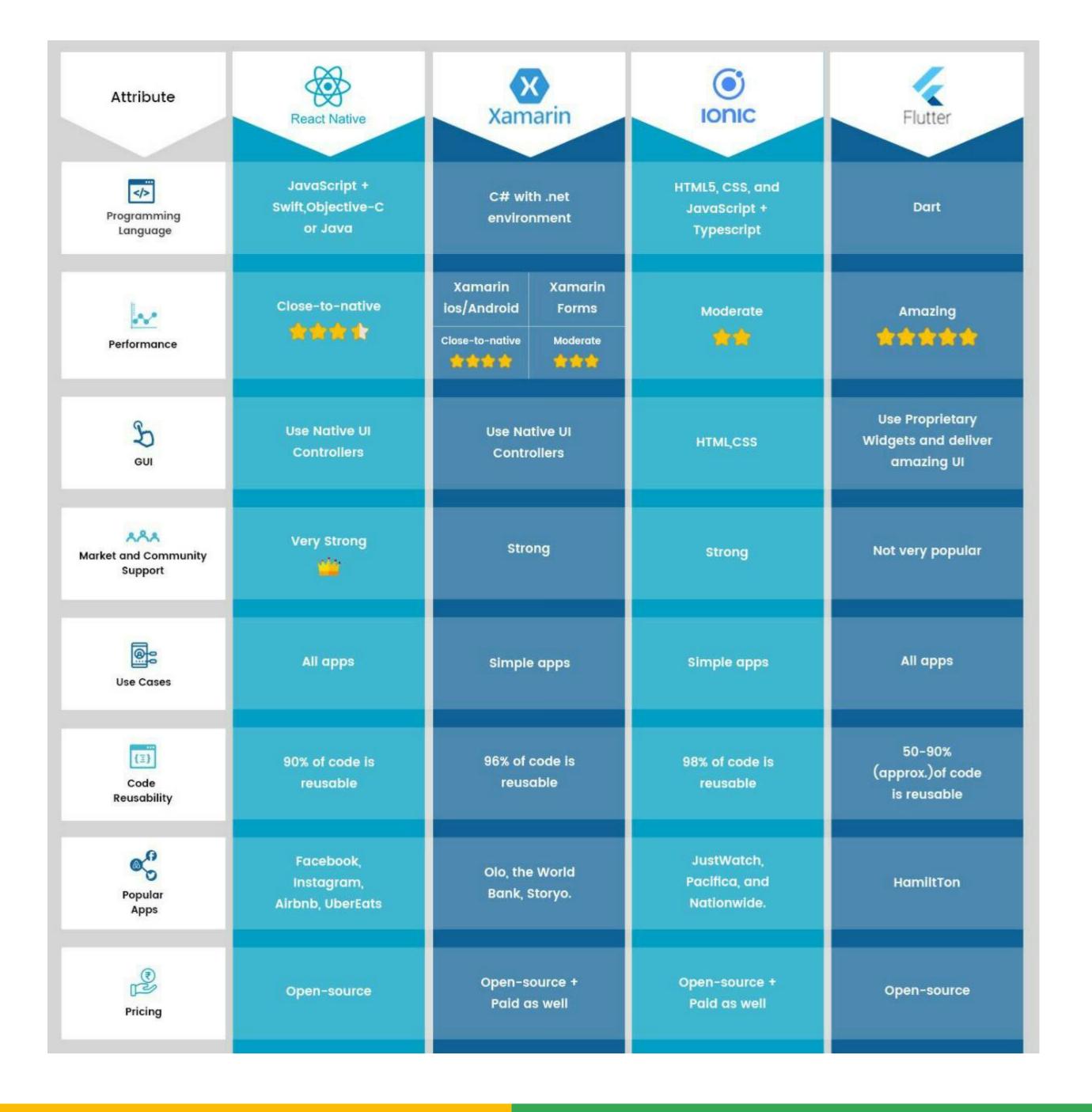
https://github.com/Solido/awesom e-flutter

Catálogo de Widgets - Flutter

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Comparativa



Gracias! ¿Preguntas?





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Google Developers