



Overview

Created by Google

Open-source project

iOS, Android (and Fuchsia)

Fast development - Beautiful UIs

Native performance

IntelliJ, Android Studio, VSCode, CLI

Alpha - Beta - Release Preview 1

Flutter framework

Reactive model

Widget-based

Customizable

Platform channel

Dart and C/C++

Why Dart

Heavy use inside Google

Similar to Java, Javascript, C#

JIT and AOT

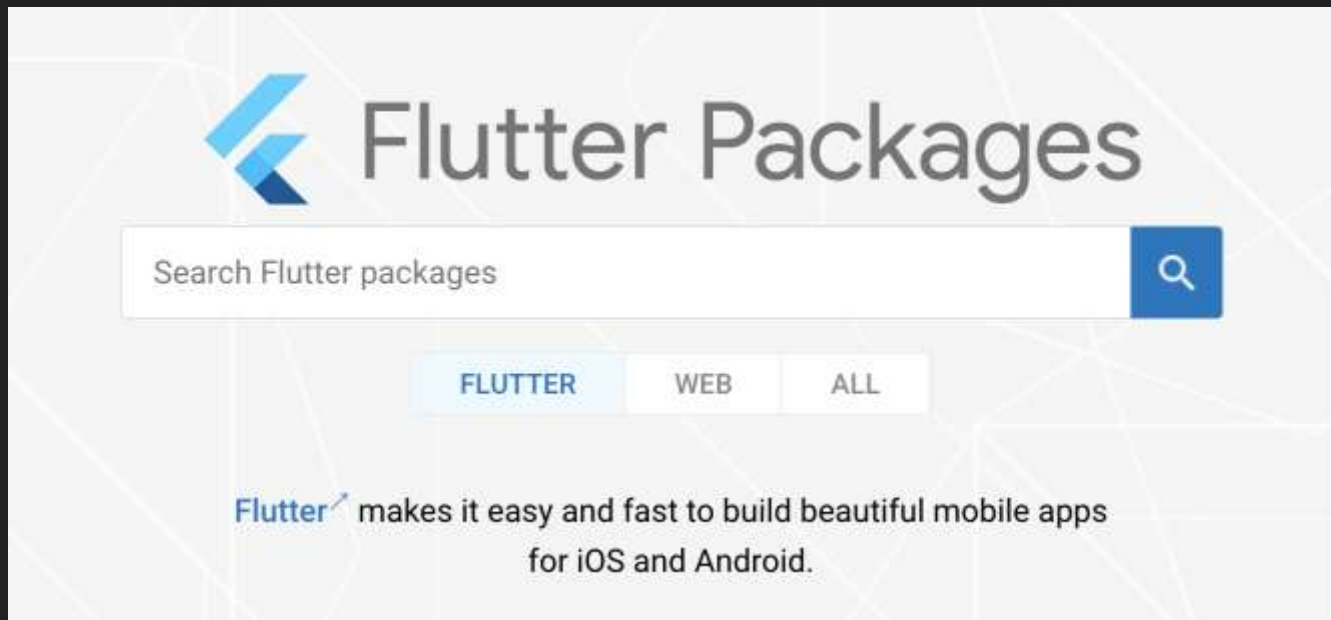
Tree shaking compiler

Lockless garbage collector

Single threaded



Flutter packages



Production Apps

Alibaba



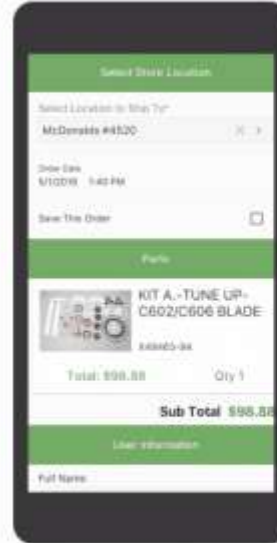
Alibaba's app incorporates Flutter to power parts of their app.

Google AdWords



The Google AdWords app helps you keep your ad campaigns running smoothly – no matter where your business takes you.

AppTree



AppTree provides a low-code enterprise app platform for brands like McDonalds, Stanford, Wayfair & Fermilab.

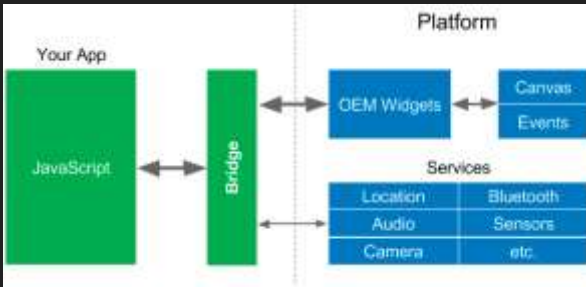
Topline



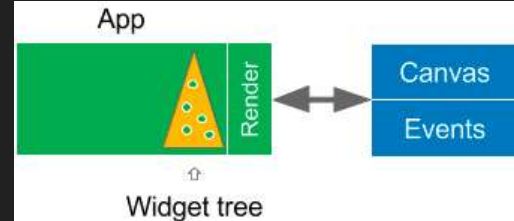
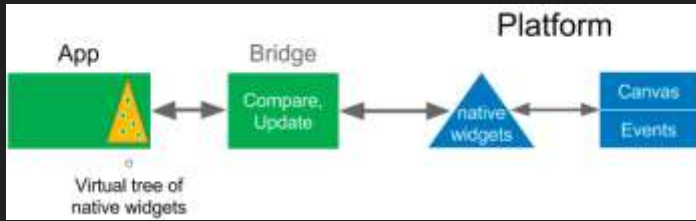
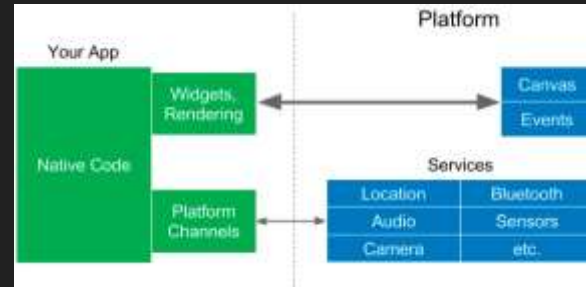
Abbey Road Studios' newest app for quick capture of song ideas.

Flutter is faster than React Native technically

React Native



Flutter



Community

<https://groups.google.com/forum/#!forum/flutter-dev>

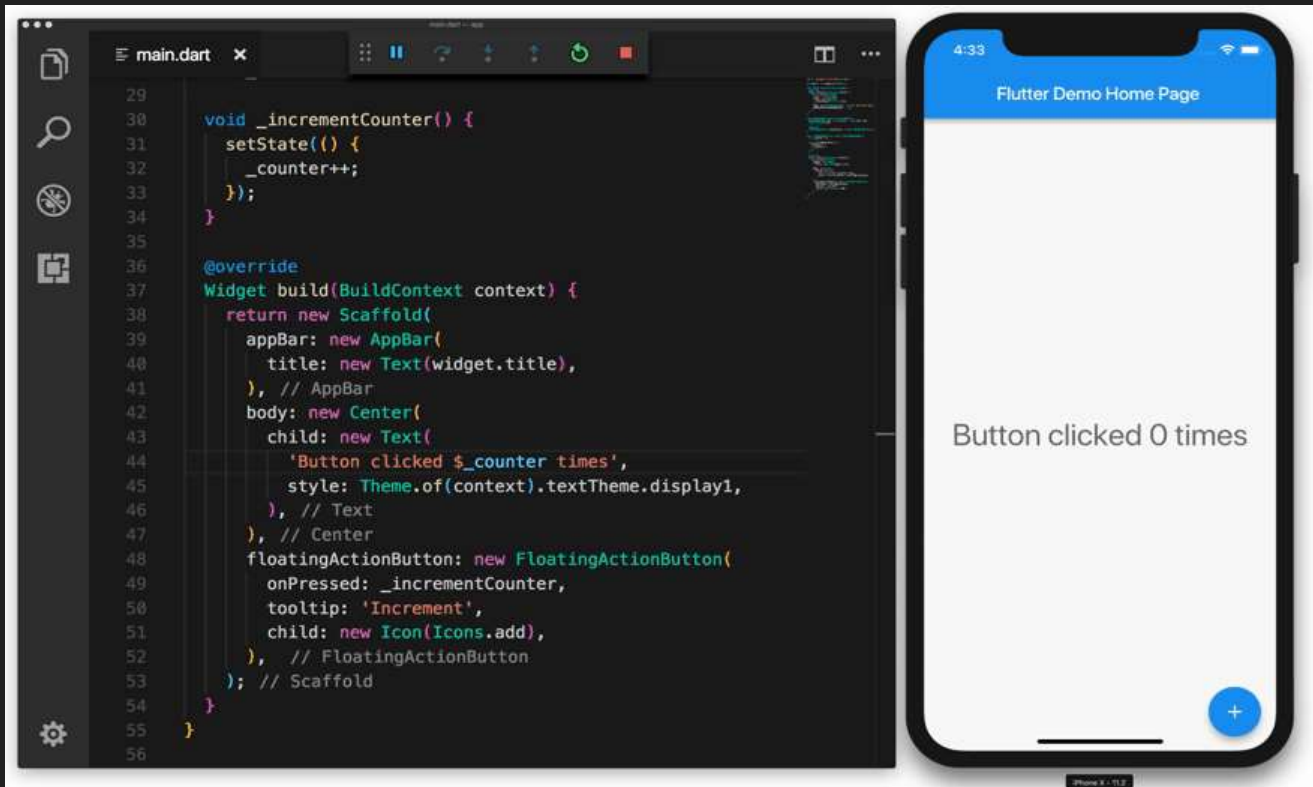
<https://gitter.im/flutter/flutter>

<https://flutterweekly.net/>

Release process

<https://github.com/flutter/flutter/wiki/Release-process>

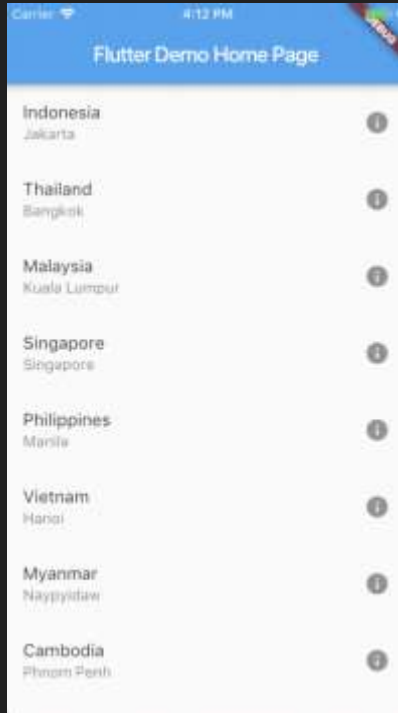
Stateful hot reload



```
class MyDumbWidget extends StatelessWidget {  
  
    @override  
    Widget build(BuildContext context) {  
        return new Text("hello world");  
    }  
}
```

```
class MySmartWidget extends StatefulWidget {  
  @override  
  _MySmartWidgetState createState() => new _MySmartWidgetState();  
}  
  
class _MySmartWidgetState extends State<MySmartWidget> {  
  
  @override  
  Widget build(BuildContext context) {  
    return new Text("hello world");  
  }  
}
```

Demo



<https://github.com/dvtai113/2359-sharing-session-flutter-101>

References

<http://flutter.io/>

<https://github.com/Solido/awesome-flutter>

<http://fluttersamples.com/>

<https://hackernoon.com/whats-revolutionary-about-flutter-946915b09514>

<https://hackernoon.com/why-flutter-uses-dart-dd635a054ebf>

<https://pub.dartlang.org/flutter>

<https://www.dartlang.org/>