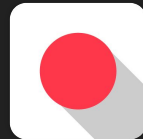


Flutter

What is it and why should I care?

By Efthymios Sarmpanis

Who am I



- Full stack developer for PingPong - <https://getpingpong.com>
- > 15 years of experience
- Building async communication tool using Flutter, React and node

<http://bit.ly/pingpong-ph>



Flutter Community



- Involved in Flutter since before its v1.0 days.
- Created a couple of libraries under Flutterings (<https://github.com/flutterings>)
- Organizing Flutter Greek Community (<https://meetup.com/fluttergr>)
- Landed a couple of commits in Flutter's main repo
- GDE for Dart & Flutter

What is it?

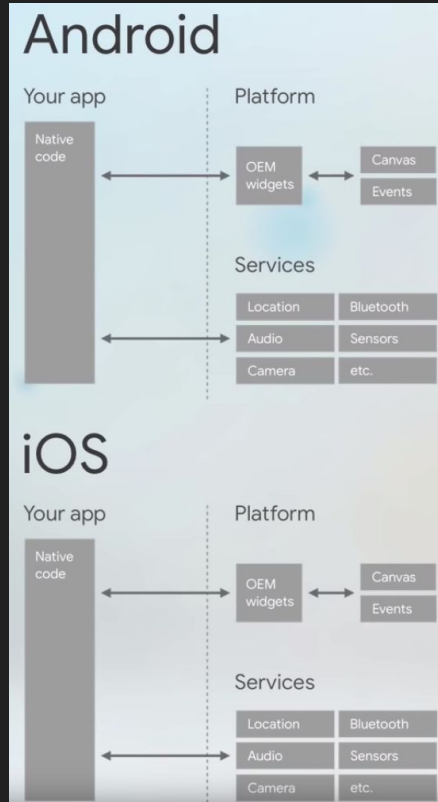
A bit of history

- Started from a chrome fork
- Stripped down chrome and used javascript
- Hit the threshold point of restrictions
- Kept Skia and switched to dart
- Never looked back

The problem they tried to solve

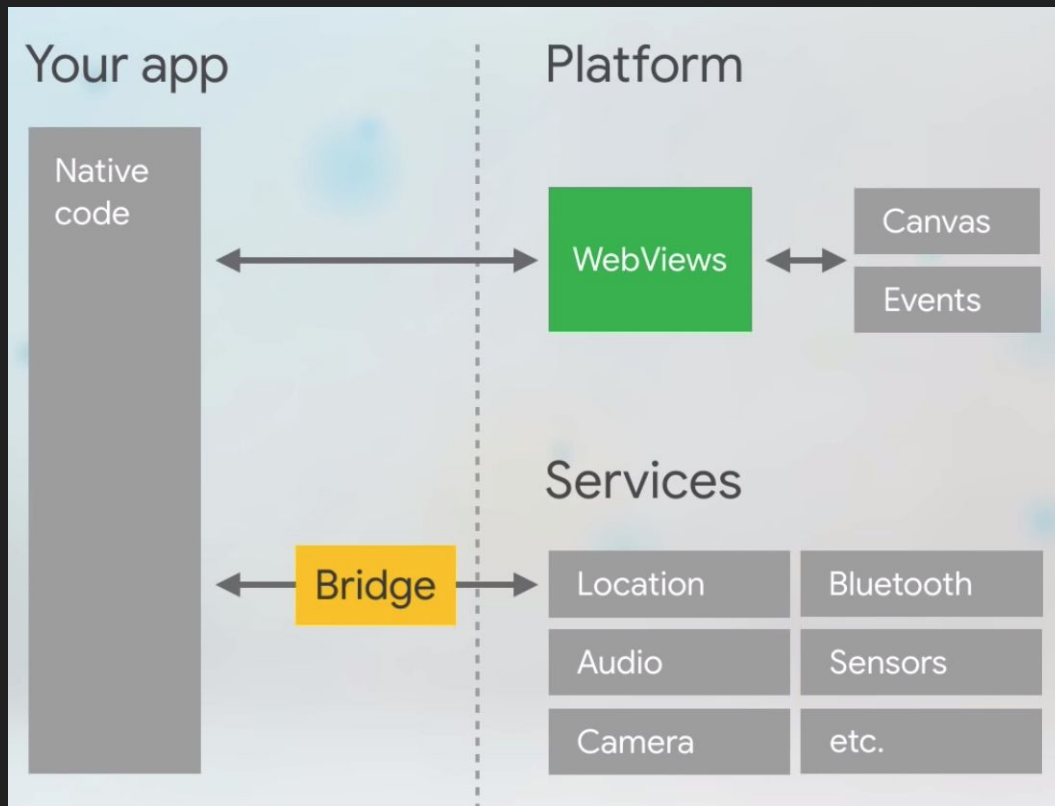
Develop ~~mobile~~ multi-platform applications
with a single code base in a **performant** way.

The Problem / Two code bases in Native Apps

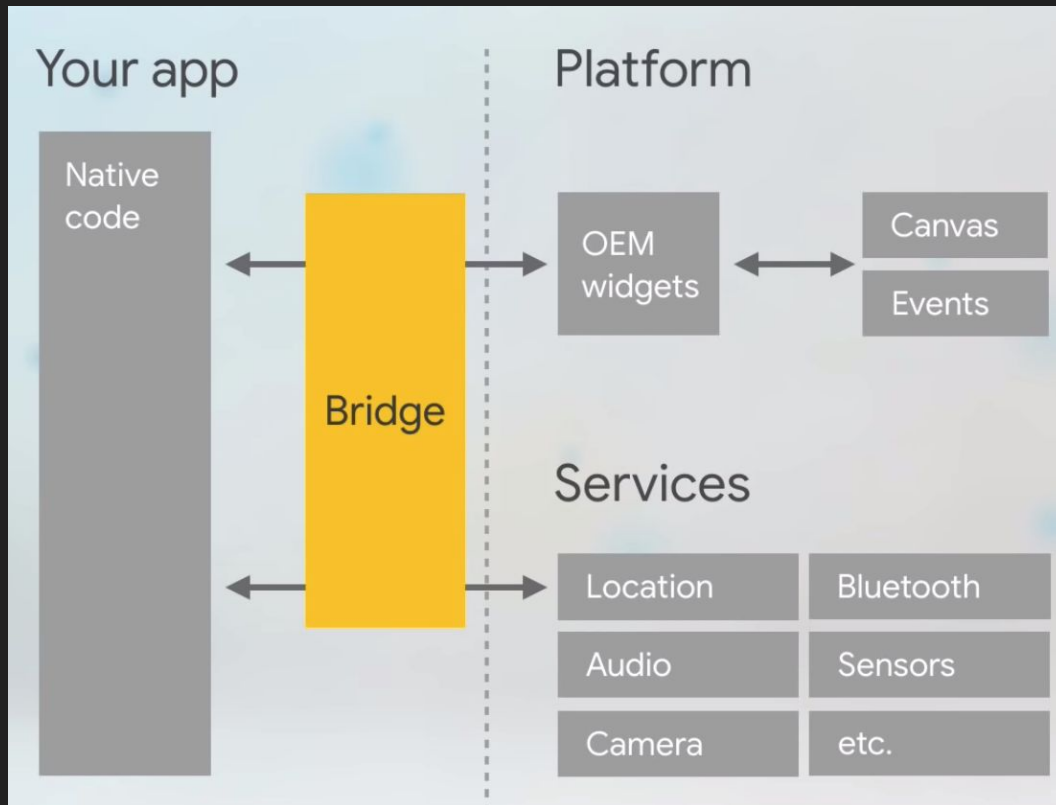


Common Approaches

Wrappers

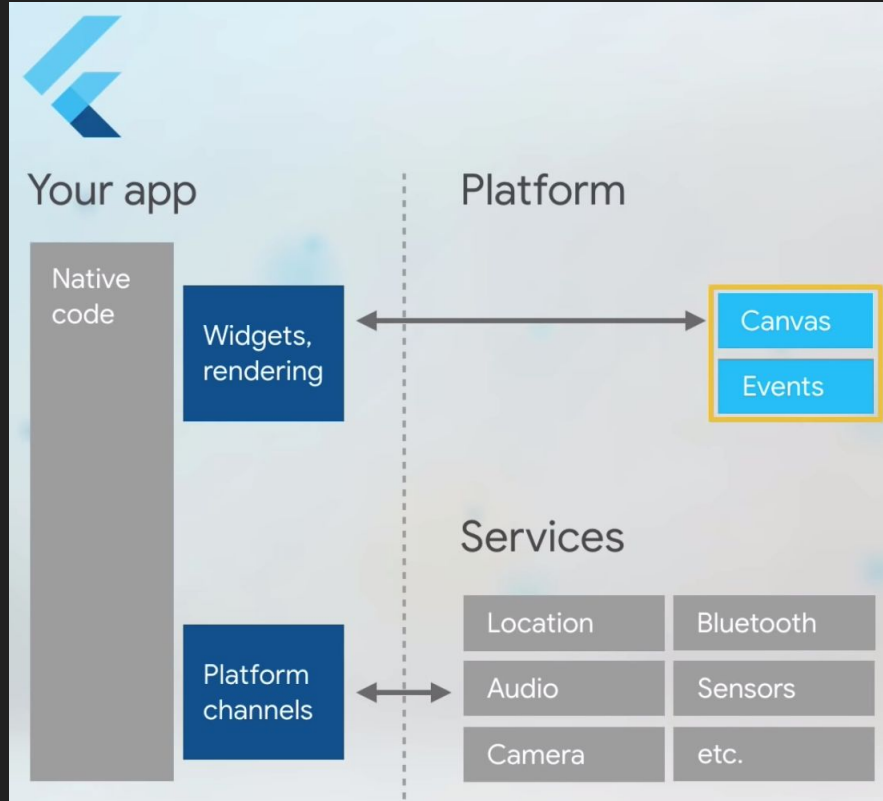


Bridging

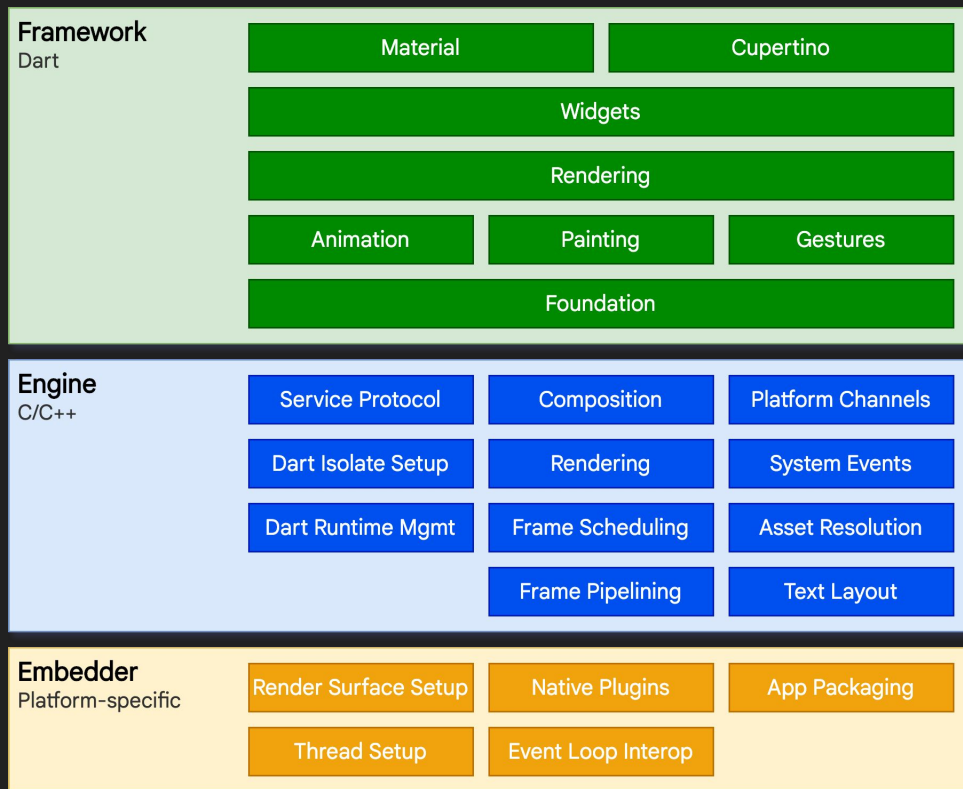


The Flutter way

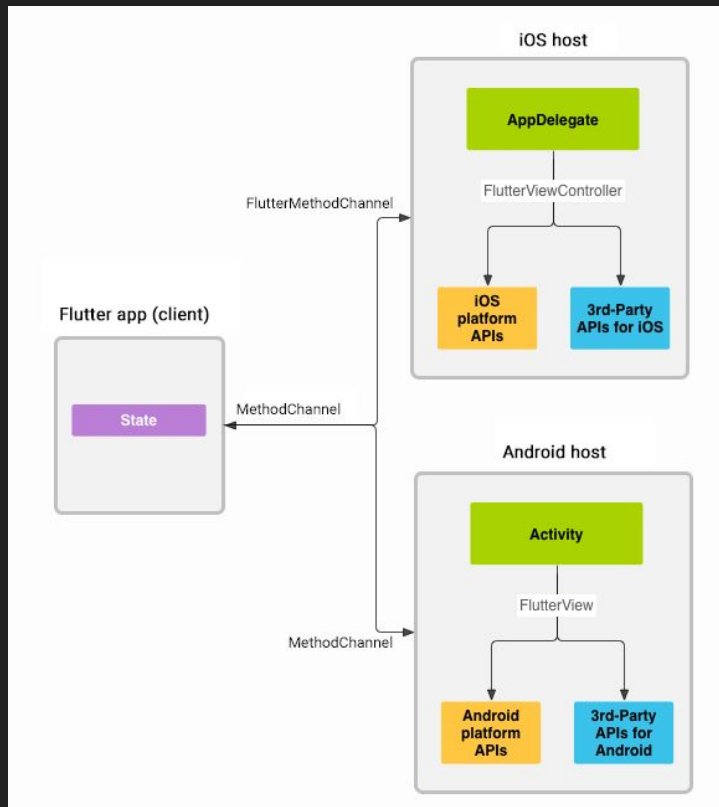
A bit of architecture / Framework



A bit of architecture / Framework



A bit of architecture / Plugins

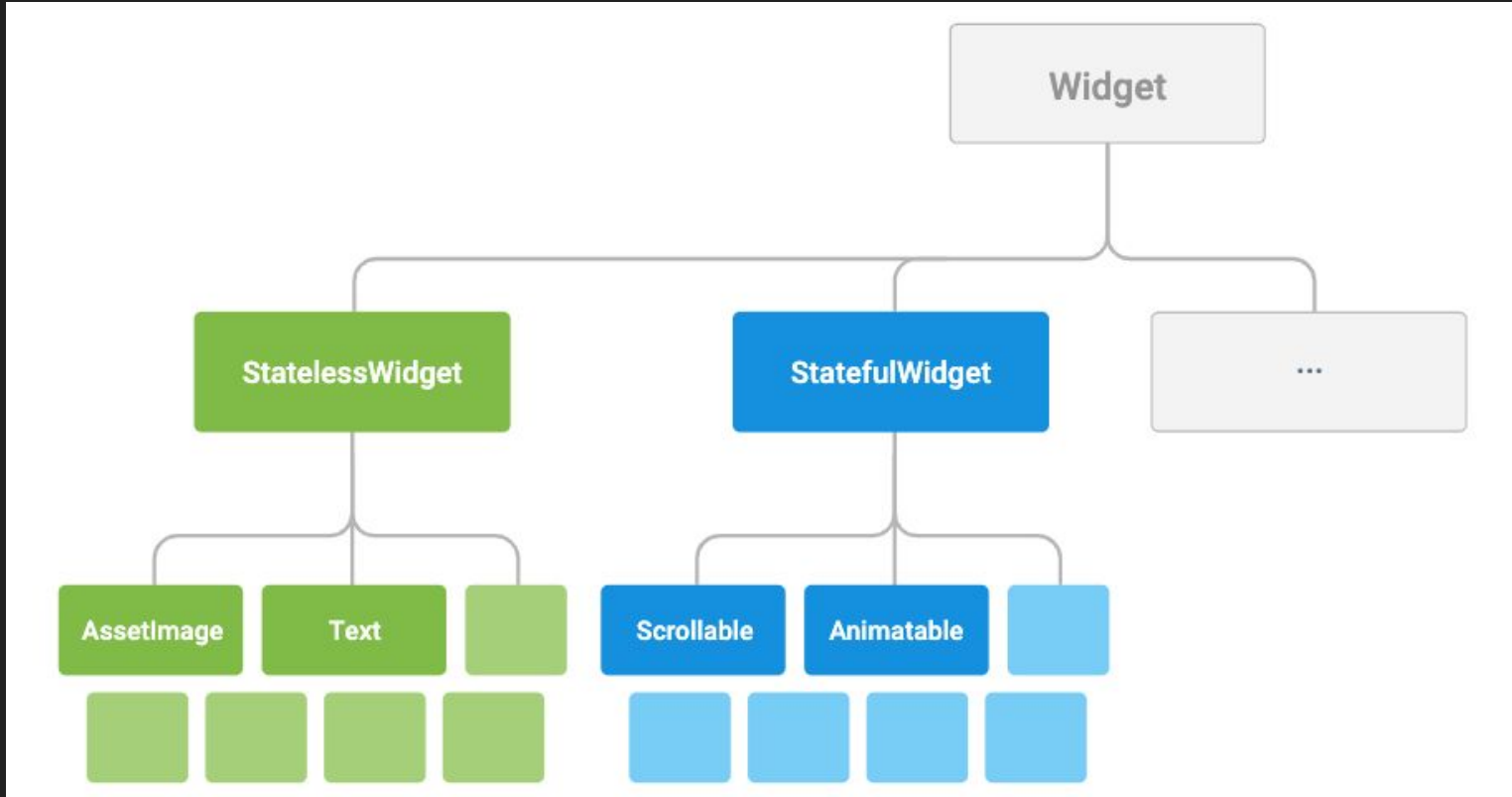


A bit of architecture / Plugins

Plugin	Pub
android_alarm_manager	pub v0.4.4
android_intent	pub v0.3.3+2
battery	pub v0.3.0+5
camera	pub v0.5.5+1
connectivity	pub v0.4.4
device_info	pub v0.4.0+3
google_maps_flutter	pub v0.5.21+7
google_sign_in	pub v4.0.7
image_picker	pub v0.6.1+4
in_app_purchase	pub v0.2.1+4
local_auth	pub v0.6.0+1
package_info	pub v0.4.0+6
path_provider	pub v1.3.0
quick_actions	pub v0.3.2+2
sensors	pub v0.4.0+1
share	pub v0.6.2+1
shared_preferences	pub v0.5.3+4
url_launcher	pub v5.1.4
video_player	pub v0.10.2+1
webview_flutter	pub v0.3.14+1

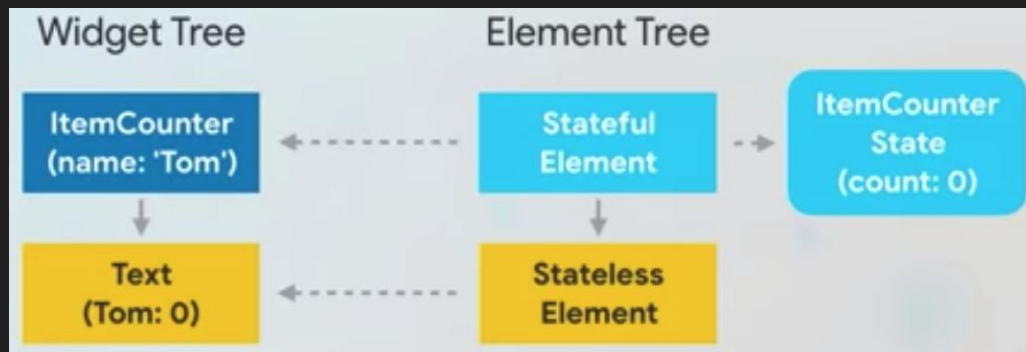
Plugin	Version	Firebase feature	Source code
cloud_firestore	pub v0.12.9+4	Cloud Firestore	packages/cloud_firestore
cloud_functions	pub v0.4.1+1	Cloud Functions	packages/cloud_functions
firebase_admob	pub v0.9.0+7	Firebase AdMob	packages/firebase_admob
firebase_analytics	pub v5.0.2	Firebase Analytics	packages/firebase_analytics
firebase_auth	pub v0.14.0+5	Firebase Authentication	packages/firebase_auth
firebase_core	pub v0.4.0+1	Firebase Core	packages/firebase_core
firebase_crashlytics	pub v0.1.0+3	Firebase Crashlytics	packages/firebase_crashlytics
firebase_database	pub v3.0.7	Firebase Realtime Database	packages/firebase_database
firebase_dynamic_links	pub v0.5.0+1	Firebase Dynamic Links	packages/firebase_dynamic_links
firebase_in_app_messaging	pub v0.0.1	Firebase In-App Messaging	packages/firebase_in_app_messaging
firebase_messaging	pub v5.1.6	Firebase Cloud Messaging	packages/firebase_messaging
firebase_ml_vision	pub v0.9.2+2	Firebase ML Kit	packages/firebase_ml_vision
firebase_performance	pub v0.3.0+5	Firebase Performance Monitoring	packages/firebase_performance
firebase_remote_config	pub v0.2.0	Firebase Remote Config	packages/firebase_remote_config
firebase_storage	pub v3.0.6	Firebase Cloud Storage	packages/firebase_storage

A bit of architecture / Widget Tree



Demo

How state works



Why should I care?

Benefits

- Full control over rendering stack
- Reactive views with no bridge
- Great development experience with hot reload
- Fast, smooth and predictable UI
- Deploy to multiple platforms from one codebase
- Ability to have native code in plugins for niche cases

Join the big ones



GROUPON

Tencent 腾讯



realtor.com®

The New York Times



<https://flutter.dev/showcase>

Resources

Flutter Essentials YouTube Playlist



<http://bit.ly/2olet9T>

Join the Greek Community

Slack



bit.ly/2oRBze4

Meetup



bit.ly/2pzlJ7c

Twitter



bit.ly/2odN3sq

Questions?