

Flutter vs React Native

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Growth Session #7 - September 21-22 2017



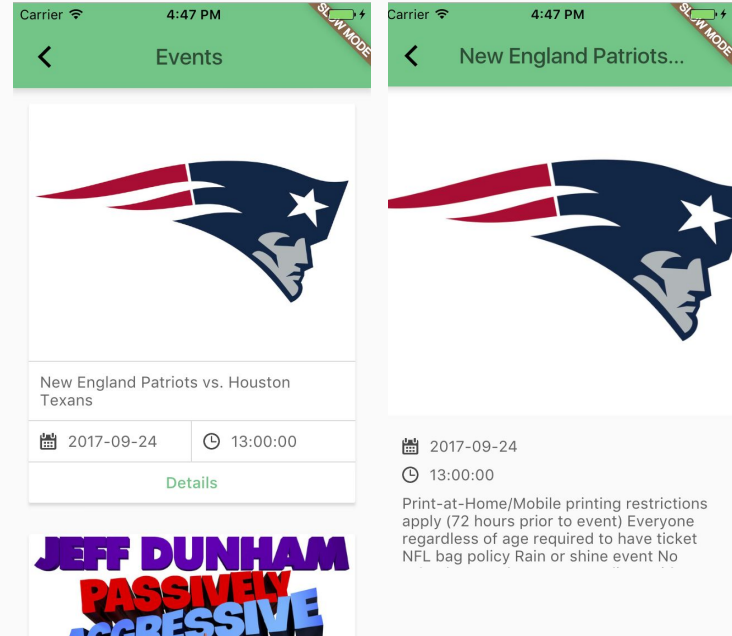
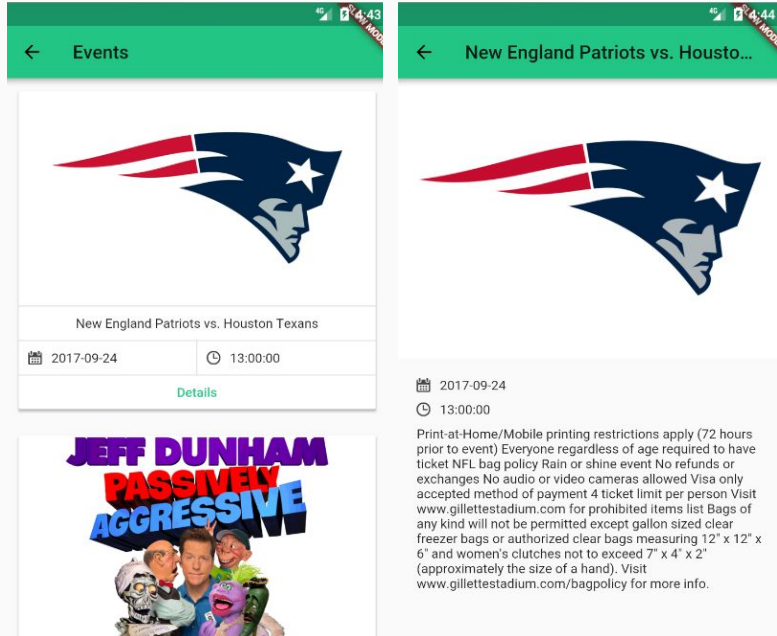
Goals

- Learn how to make an app with Flutter
- Flutter and React Native comparison



- SDK to make iOS and Android Apps
- Reactive framework
-  **Dart**
- Dart language

Achievements and progress



Tools

- Flutter SDK
- Any IDE

```
➔ AndroidStudioProjects flutter doctor
Downloading Dart SDK 1.25.0-dev.11.0...
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           %             %             Dload  Upload   Total   Spent    Left     Speed
100 60.5M  100 60.5M    0     0  854k      0  0:01:12  0:01:12  ---:--- 1331k
Building flutter tool...
```

Welcome to Flutter! - <https://flutter.io>

The Flutter tool anonymously reports feature usage statistics and crash reports to Google in order to help Google contribute improvements to Flutter over time.

Read about data we send with crash reports:

<https://github.com/flutter/flutter/wiki/Flutter-CLI-crash-reporting>

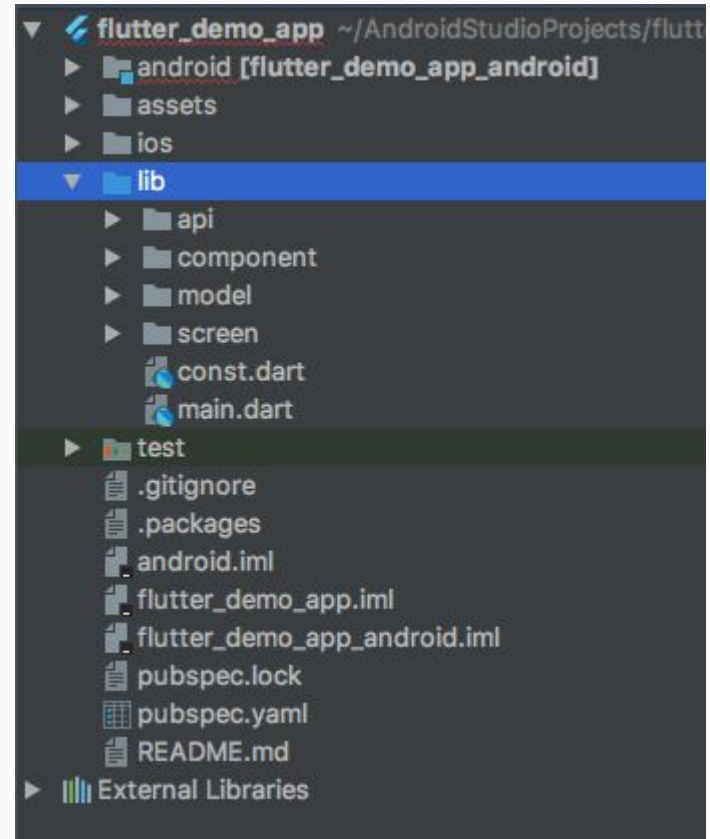
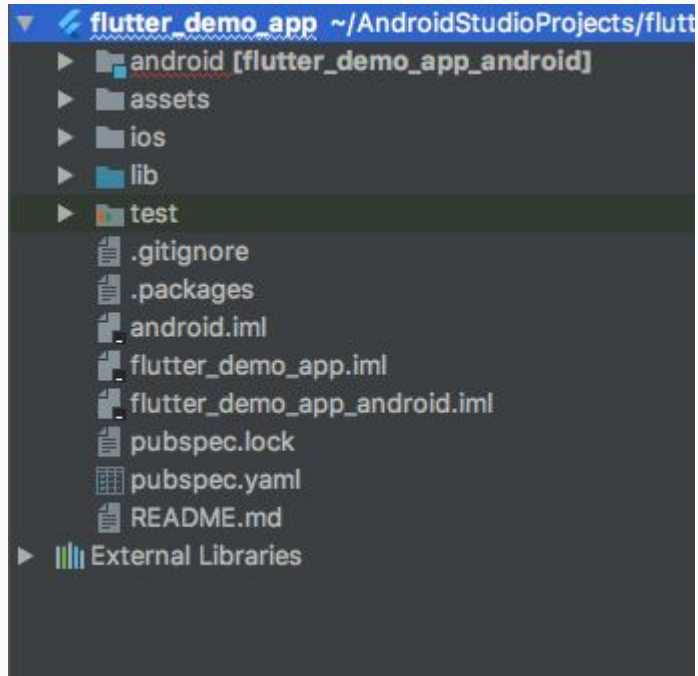
See Google's privacy policy:

<https://www.google.com/intl/en/policies/privacy/>

Use "flutter config --no-analytics" to disable analytics and crash reporting.

```
Downloading Material fonts...                2.4s
Downloading package sky_engine...            1.8s
Downloading common tools...                   5.0s
Downloading darwin-x64 tools...               20.2s
Downloading darwin-x64 tools...               31.6s
Downloading android-arm-profile/darwin-x64 tools... 6.8s
Downloading android-arm-release/darwin-x64 tools... 4.0s
Downloading android-x86 tools...             13.8s
Downloading android-x64 tools...             17.4s
Downloading android-arm tools...              7.6s
Downloading android-arm-profile tools...       6.2s
Downloading android-arm-release tools...       6.5s
Downloading ios tools...                     21.4s
Downloading ios-profile tools...              17.5s
Downloading ios-release tools...              23.7s
Downloading Gradle Wrapper...                 0.6s
[✓] Flutter (on Mac OS X 10.12.6 16G29, locale en-TH, channel master)
    • Flutter at /Users/rossukhon/AndroidStudioProjects/flutter
    • Framework revision 2958d7d0fc (25 minutes ago), 2017-09-21 09:33:01 +0200
```

Project structure and files



Project structure and files - pubspec.yaml

```
name: flutter_demo_app
description: A new Flutter project.

dependencies:
  flutter:
    sdk: flutter
  http: '0.11.3+14'

dev_dependencies:
  flutter_test:
    sdk: flutter

# For information on the generic Dart part of this file, see the
# following page: https://www.dartlang.org/tools/pub/pubspec

# The following section is specific to Flutter.
flutter:

  # The following line ensures that the Material Icons font is
  # included with your application, so that you can use the icons in
  # the Icons class.
  uses-material-design: true

  # To add assets to your application, add an assets section, like this:
  assets:
    - assets/calendar.png
    - assets/clock.png
```

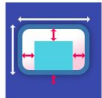
Widgets

Basic Widgets

[Edit Source](#) [File Issue](#)

Widgets you absolutely need to know before building your first Flutter app.

See more widgets in the [Flutter widget catalog](#).



Container

A convenience widget that combines common painting, positioning, and sizing...

[Documentation](#)



Row

Layout a list of child widgets in the horizontal direction.

[Documentation](#)



Column

Layout a list of child widgets in the vertical direction.

[Documentation](#)



Image

A widget that displays an image.

[Documentation](#)



Text

A run of text with a single style.

[Documentation](#)



Icon

A material design icon.

[Documentation](#)

Button

RaisedButton

A material design raised button. A raised button consists of a rectangular piece of...

[Documentation](#)



Scaffold

Implements the basic material design visual layout structure. This class provides APIs fo...

[Documentation](#),
[Samples](#)



AppBar

A material design app bar. An app bar consists of a toolbar and potentially other...

[Documentation](#),
[Samples](#)

Two types of widget

1. Stateless widget
2. Stateful widget

Widgets

```
@override
void initState() {
  super.initState();
  _getEvents();
}

@override
Widget build(BuildContext context) {
  if (_events == null) {
    return new Scaffold(
      appBar: widget.appBar,
      body: new Center(
        child: new CircularProgressIndicator(),
      ),
    );
  } else {
    return new Scaffold(
      appBar: widget.appBar,
      body: new ListView.builder(
        itemCount: _events.length,
        itemBuilder: (BuildContext context, int index) {
          return new EventFeedItem(event: _events[index]);
        },
      ),
    );
  }
}
```

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

import 'const.dart';
import 'screen/home.dart';
import 'screen/event_feed.dart';





















void main() {
  FlutterDemoApp app = new FlutterDemoApp();
  runApp(app);
}

final ThemeData _flutterDemoAppTheme = new ThemeData(
  brightness: Brightness.light,
  primaryColor: appColors['green'],
  accentColor: appColors['green'],
  accentColorBrightness: Brightness.dark
);

class FlutterDemoApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return new MaterialApp(
      title: 'Flutter Demo',
      theme: _flutterDemoAppTheme,
      home: new HomeScreen(title: 'Flutter Demo Home Page'),
      routes: <String, WidgetBuilder> {
        '/feed': (BuildContext context) => new EventFeedScreen(title: 'Events')
      },
    );
  }
}
```

Dependencies

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

pub.dartlang.org Getting Started Docs Commands Packages Search			
Flutter Packages			
Learn more about using packages with Flutter.			
Package	Description	Author(s)	Updated
 scarabei_flutter_reyer	Collection of open source reusable Dart components	 J Fixby	Sep 22, 2017
 url_launcher	A Flutter plugin for launching a URL.	 Flutter Team	Sep 20, 2017
 qrcode_reader	Flutter plugin that lets you read a QR Code.	 Matheus Villela	Sep 19, 2017
 contact_picker	A Flutter plugin for picking a contact from the address book.	 Michael Goderbauer	Sep 19, 2017
 connectivity	Allows developers to discover the state of the network connectivity.	 Flutter Team	Sep 19, 2017
 flutter_image	Image utilities for Flutter: providers, effects, etc	 Flutter Team	Sep 18, 2017
 pusher_flutter	A flutter plugin for Pusher (pusher.com)	 Matthew Smith	Sep 16, 2017
 firebase_storage	Firebase Storage plugin for Flutter.	 Flutter Team	Sep 15, 2017
 location	A Flutter plugin for location with Callbacks.	 Guillaume Bernos	Sep 12, 2017
 firebase_auth	Firebase Auth plugin for Flutter.	 Flutter Team	Sep 12, 2017

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  flutter_test:
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```

flutter packages get

Thanks!

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