State Management

- StatelessWidget
- StatefulWidget

Basic Widgets

- MaterialApp, Scaffold
- Text, TextSpan, RichText, Text.rich
- Icon, Image
- Card, ListTile

Navigation Widgets

- AppBar, SliverAppBar
- Drawer
- TabBar, TabBarView, BottomNavigationBar

Routing Widgets

- MaterialPageRoute class
- Navigator

Layout Widgets

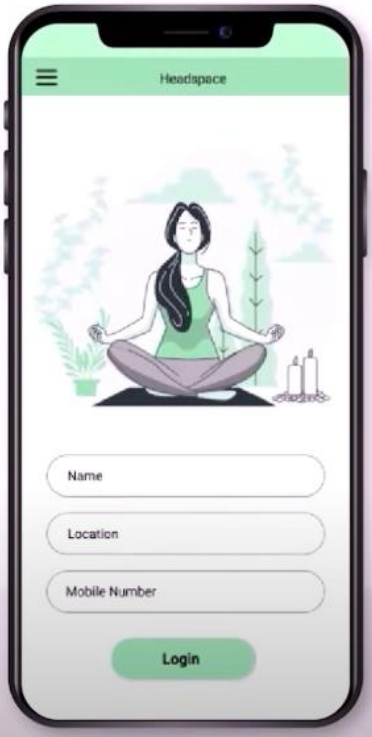
- LayoutBuilder
- Center, Container, Padding, AnimatedContainer
- SizedBox, FittedBox
- Row, Column, ListView, GridView, Wrap, SingleChildScrollView, PageView
- Stack, Positioned, Align
- Expanded, Flexible, Spacer
- AspectRatio
- ConstrainedBox

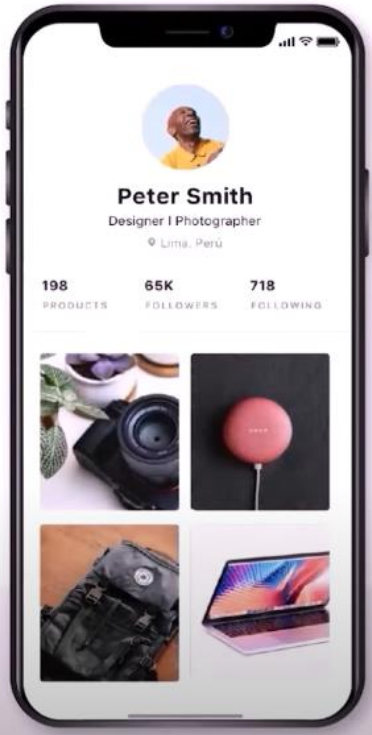
Input & Interactive Widgets

- GestureDetector
- ElevatedButton, FilledButton, OutlinedButton, TextButton
- PopupMenuButton
- Checkbox, Radio, Switch, Slider
- TextField, Form, TextFormField
- FloatingActionButton
- DropDownButton

Other Widgets

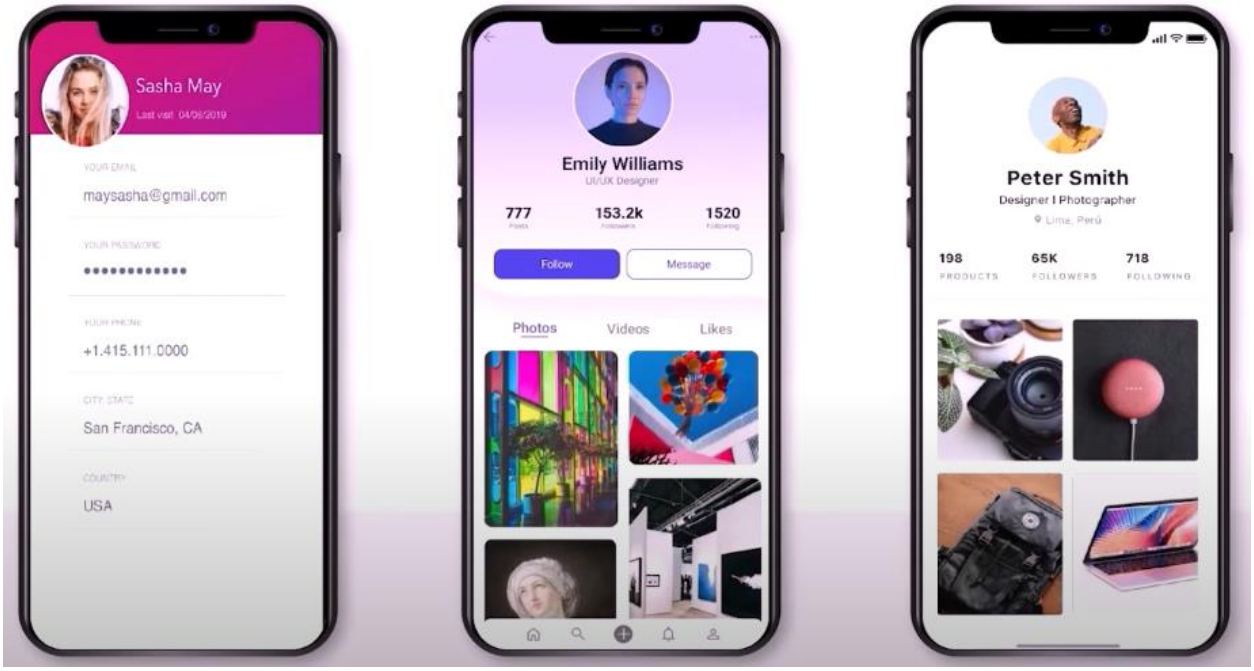
- MediaQuery, Theme
- Divider, VerticalDivider
- BottomSheet
- Hero
- AnimatedBuilder
- CircularProgressIndicator, LinearProgressIndicator
- FutureBuilder, StreamBuilder
- Overlay class
- Dialog, AlertDialog, SnackBar, SimpleDialog
- Semantics
- SafeArea
- ClipRRect
- Opacity
- RotationTransition
- FadeTransition

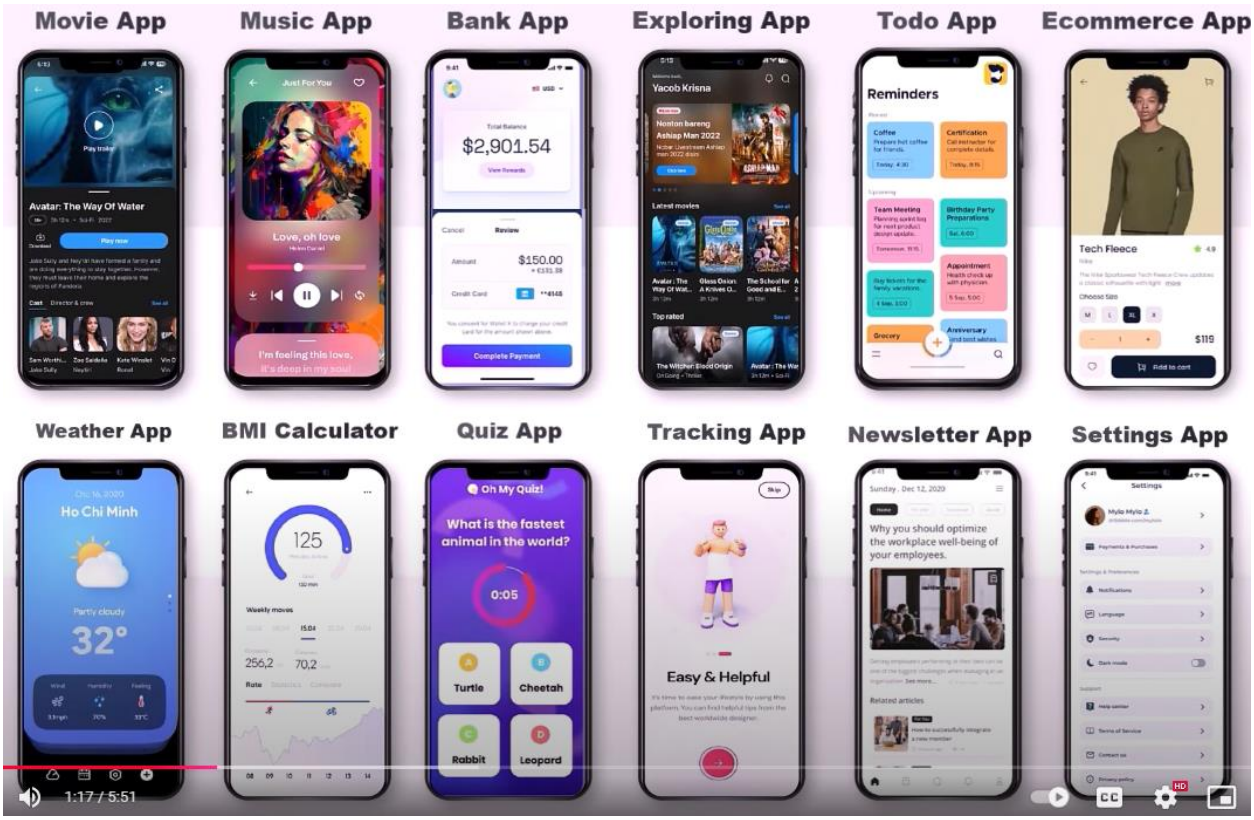




GALLERY APPS

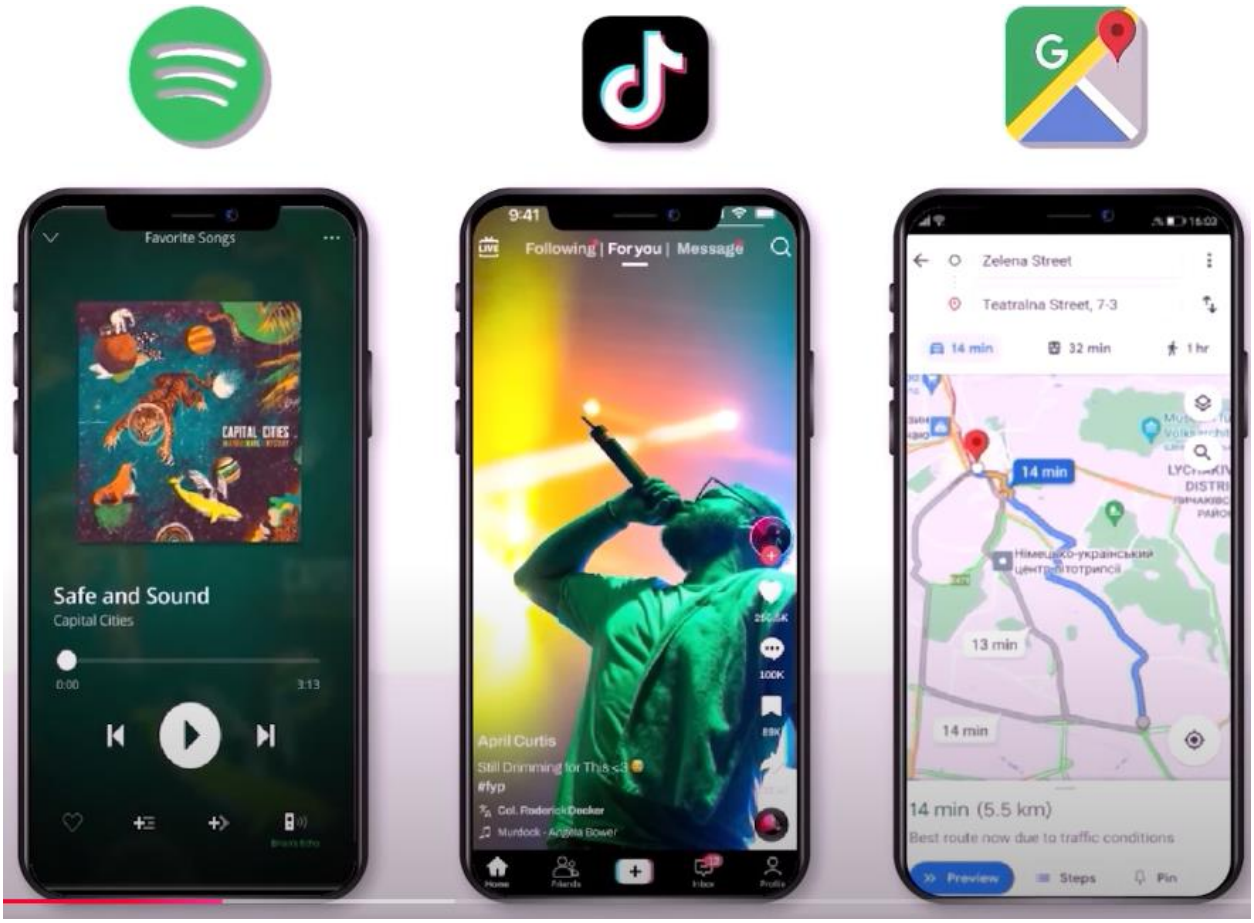
SOCIAL APPS



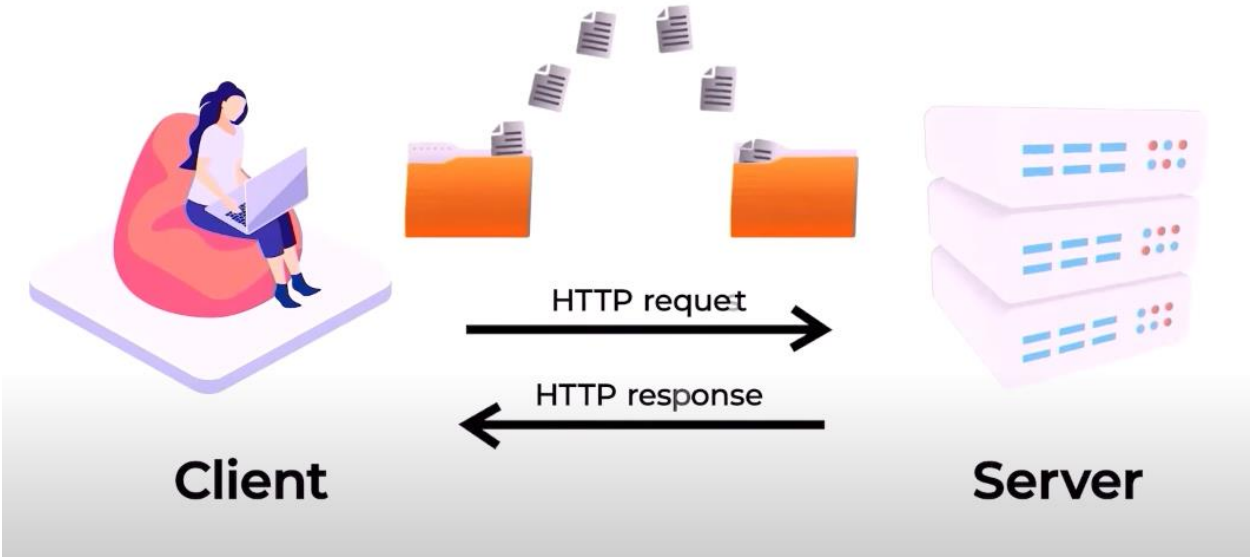


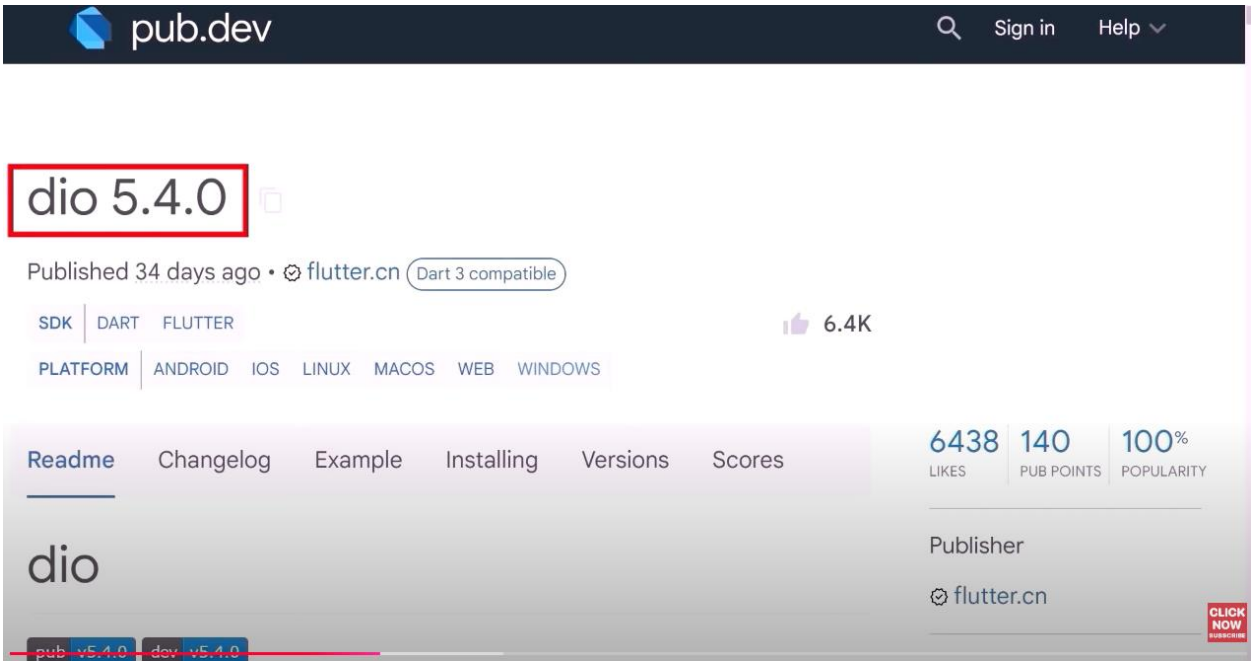
For many app UI: https://dribbble.com/tags/mobile-app-ui

Search for(Keyword): Mobile App, E-commerce App, Delivery Apps,

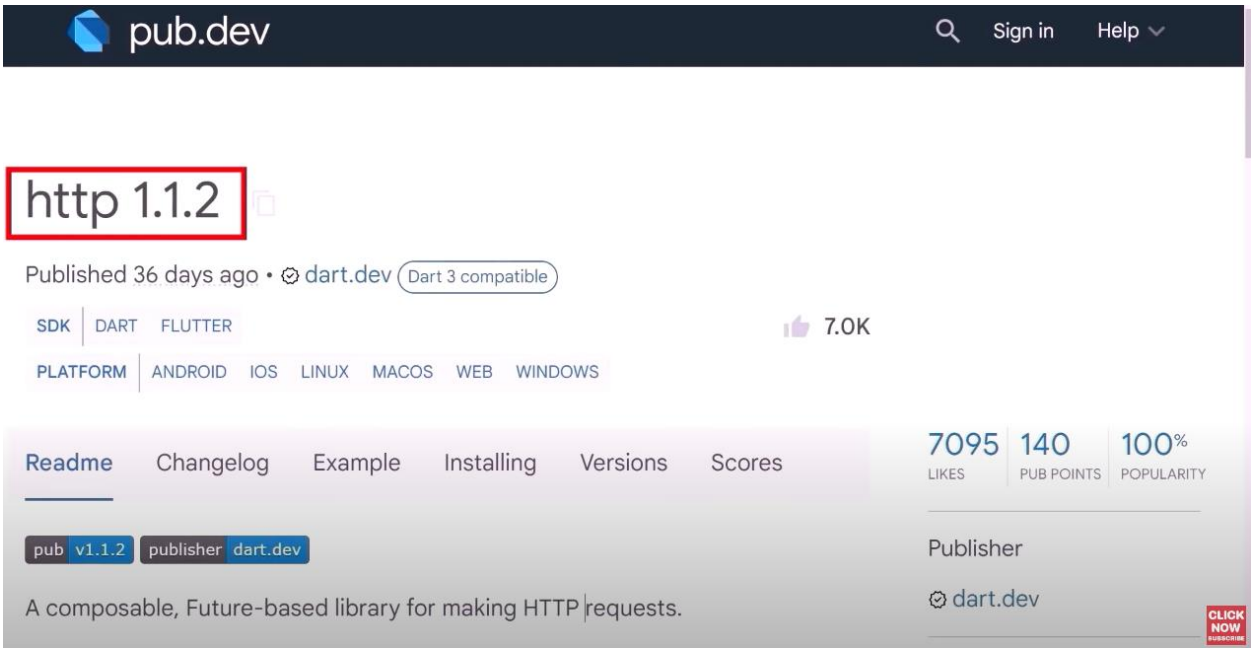

Favorite Songs
Safe and Sound
Capital Cities
0:00
3:13
9:41
Following | For you | Message
April Curtis
#fyp
Zelena Street
Teatralna Street, 7-3
14 min
32 min
1 hr
13 min
14 min
14 min (5.5 km)
Best route now due to traffic conditions
Preview
Steps
Pin

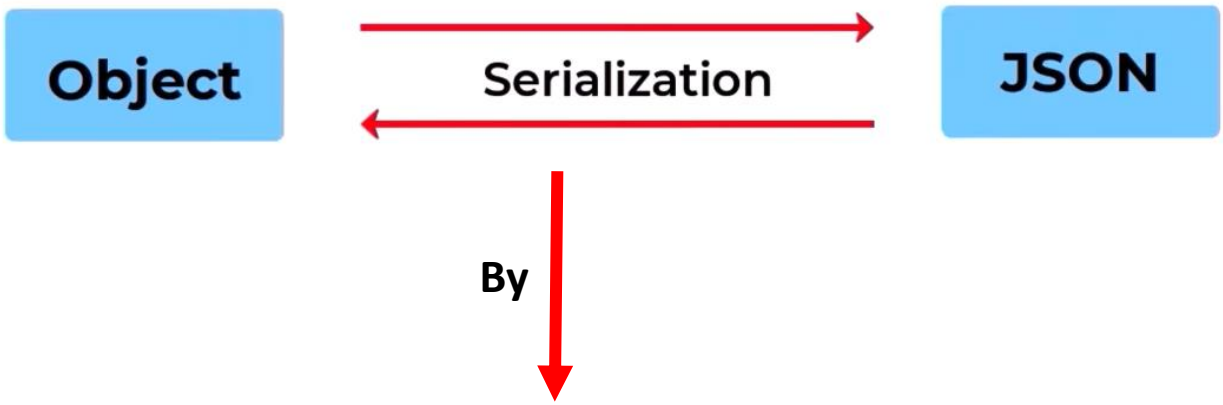
Networking:


HTTP request
HTTP response
Client
Server


pub.dev
Sign in
Help
dio 5.4.0
Published 34 days ago • flutter.cn
Dart 3 compatible
SDK DART FLUTTER
6.4K
PLATFORM ANDROID IOS LINUX MACOS WEB WINDOWS
Readme Changelog Example Installing Versions Scores
6438 LIKES
140 PUB POINTS
100% POPULARITY
dio
Publisher
flutter.cn
pub v5.4.0
dev v5.4.0

Or


pub.dev
Sign in
Help
http 1.1.2
Published 36 days ago • dart.dev
Dart 3 compatible
SDK DART FLUTTER
7.0K
PLATFORM ANDROID IOS LINUX MACOS WEB WINDOWS
Readme Changelog Example Installing Versions Scores
7095 LIKES
140 PUB POINTS
100% POPULARITY
pub v1.1.2
publisher dart.dev
Publisher
A composable, Future-based library for making HTTP requests.
dart.dev



By

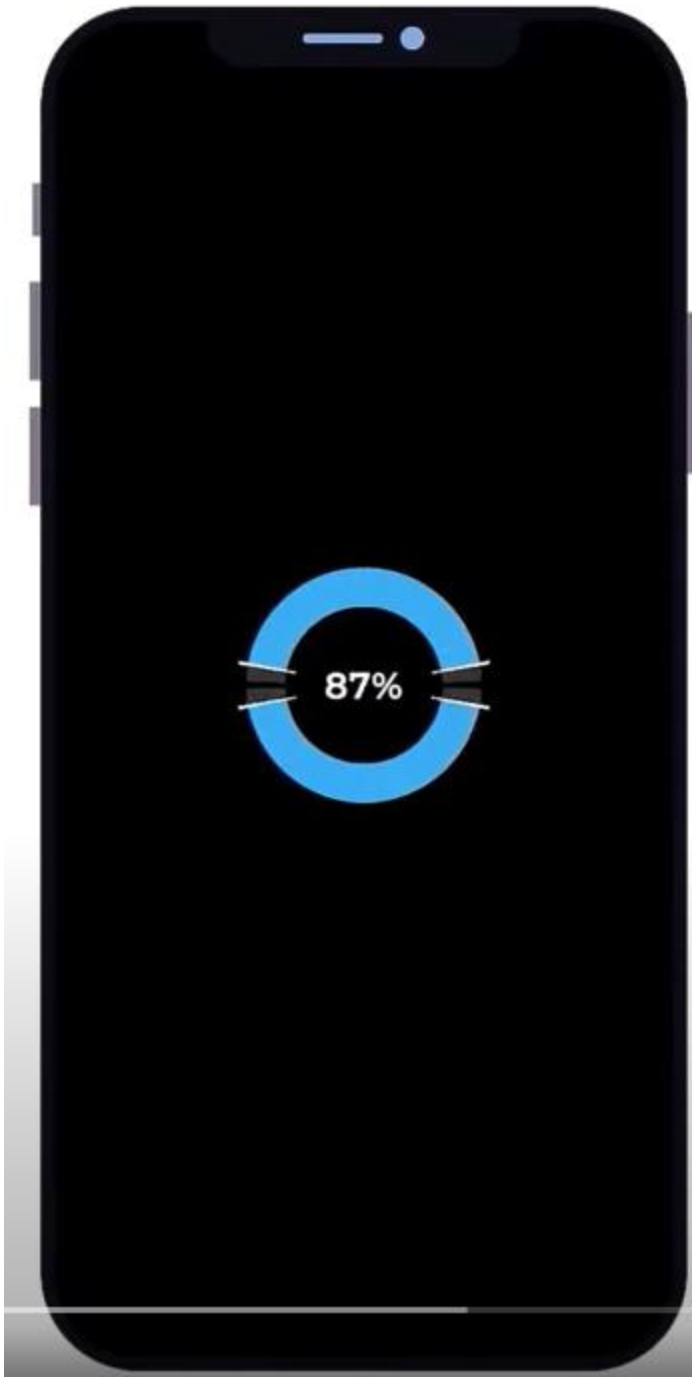
```dart
final url = Uri.parse('https://heyflutter.com/blogs');
final response = await http.get(url);
final responseBody = jsonDecode(response.body);
print(responseBody);
```

Deserialization

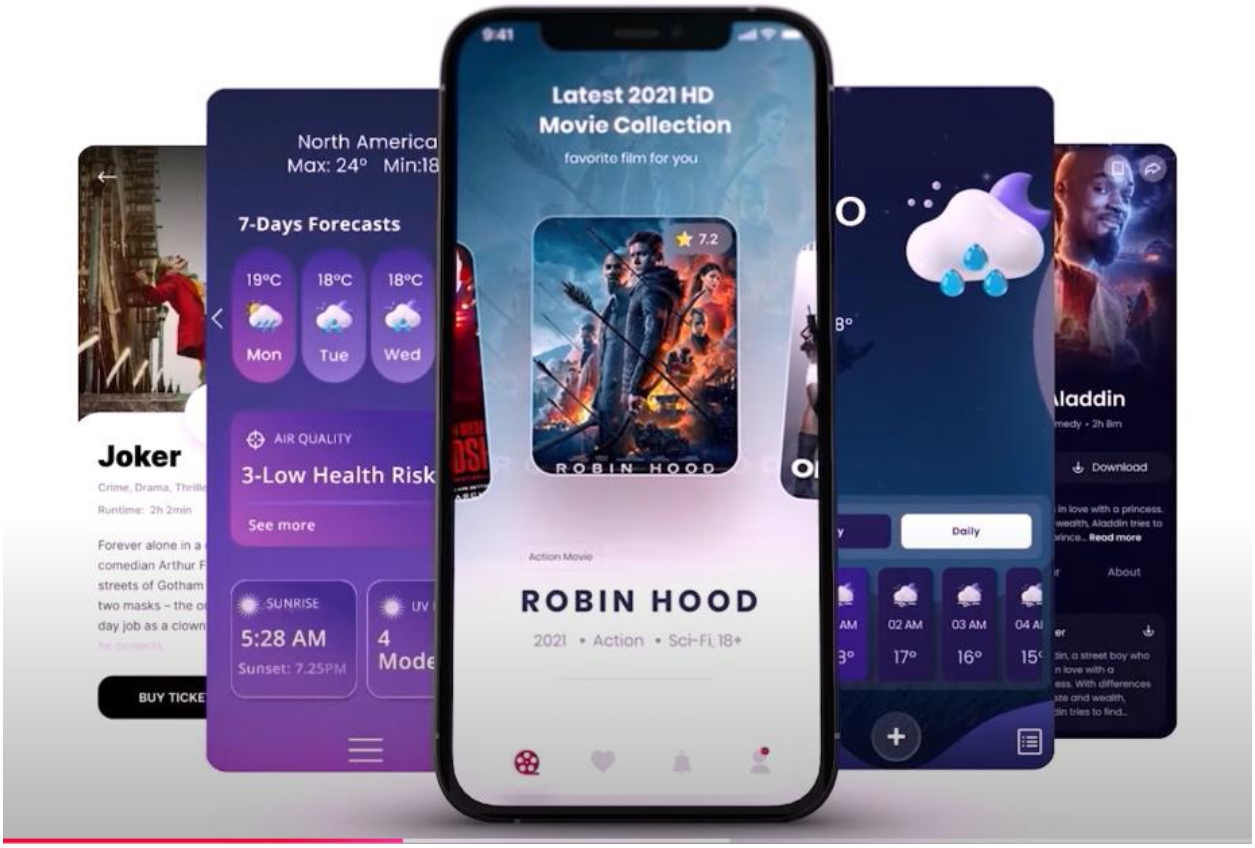
-VS-

```dart
const data = ('name':'Haris','organization':'Hey Flutter');
final jsonString = jsonEncode(data);
print(jsonString);
///{"name":"Haris","organization":"Hey Flutter"}
```

Serialization

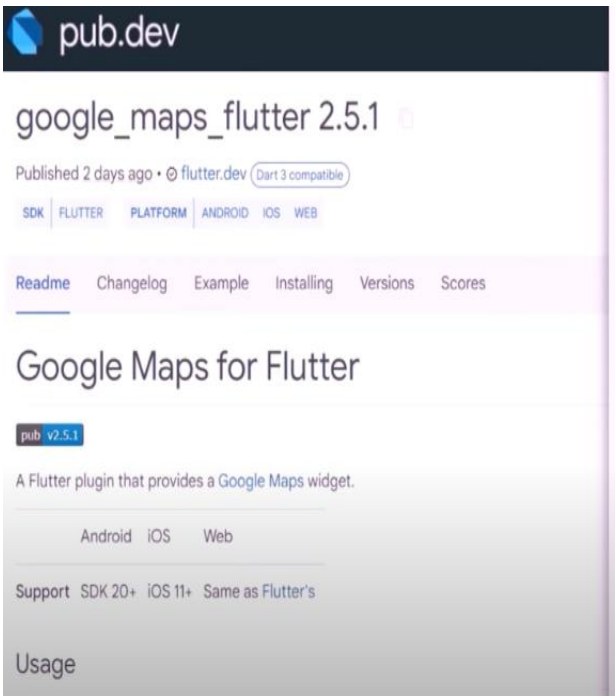

87%

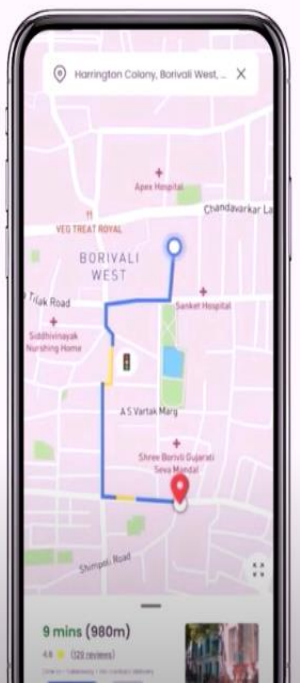
Wheter app or **Movie App** for **how to fetch data or communicate with API**



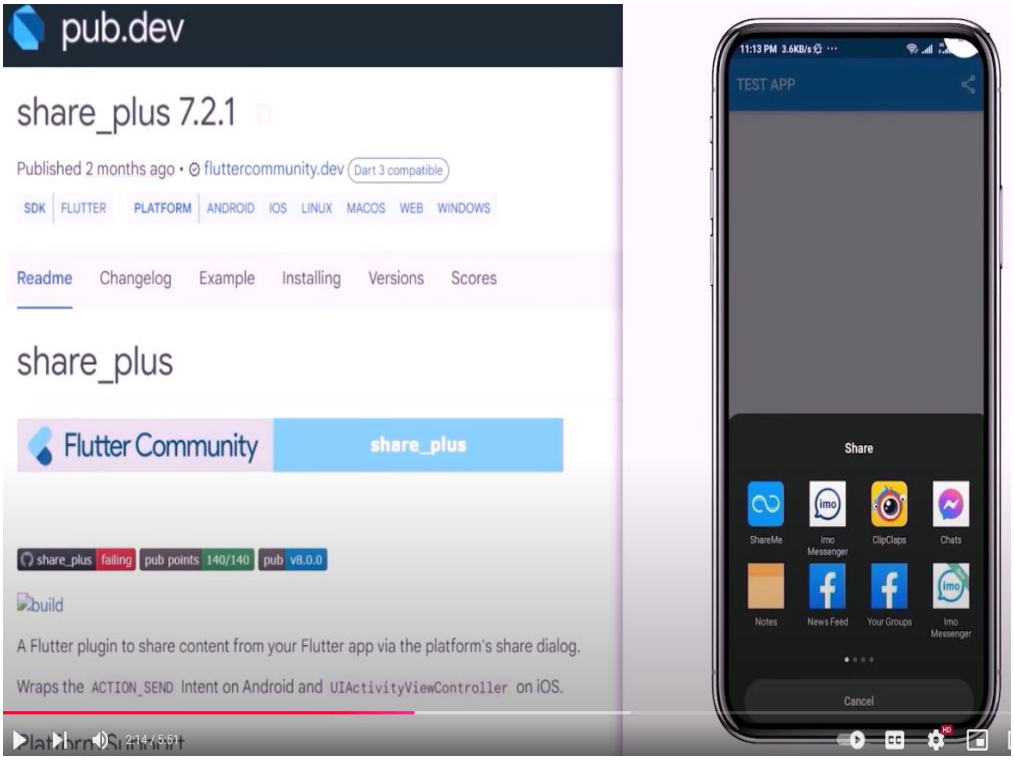
Pub.dev pakages:

1)

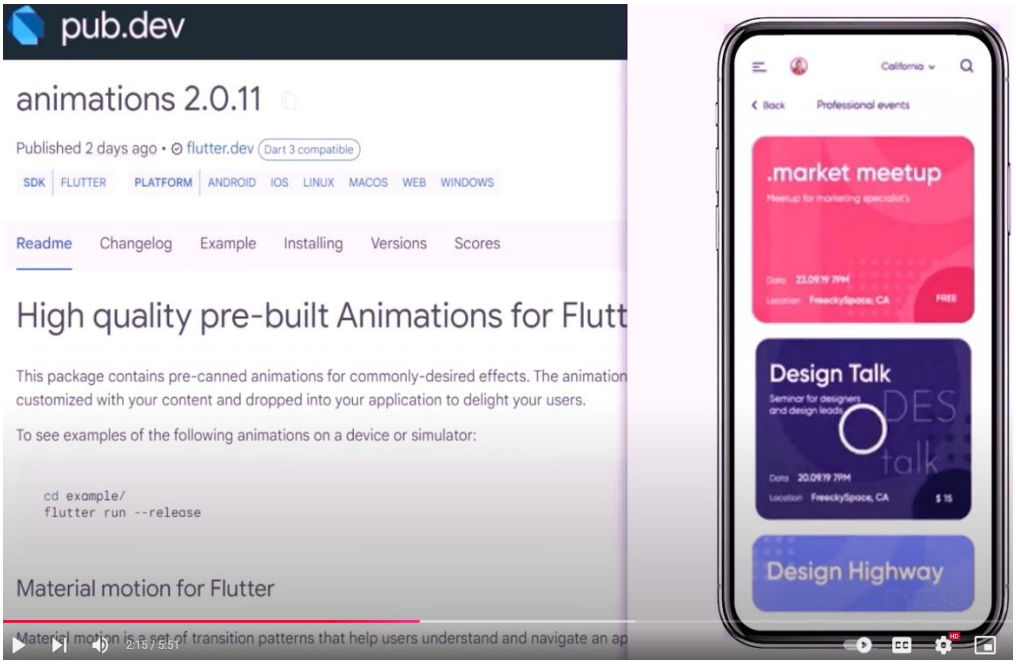




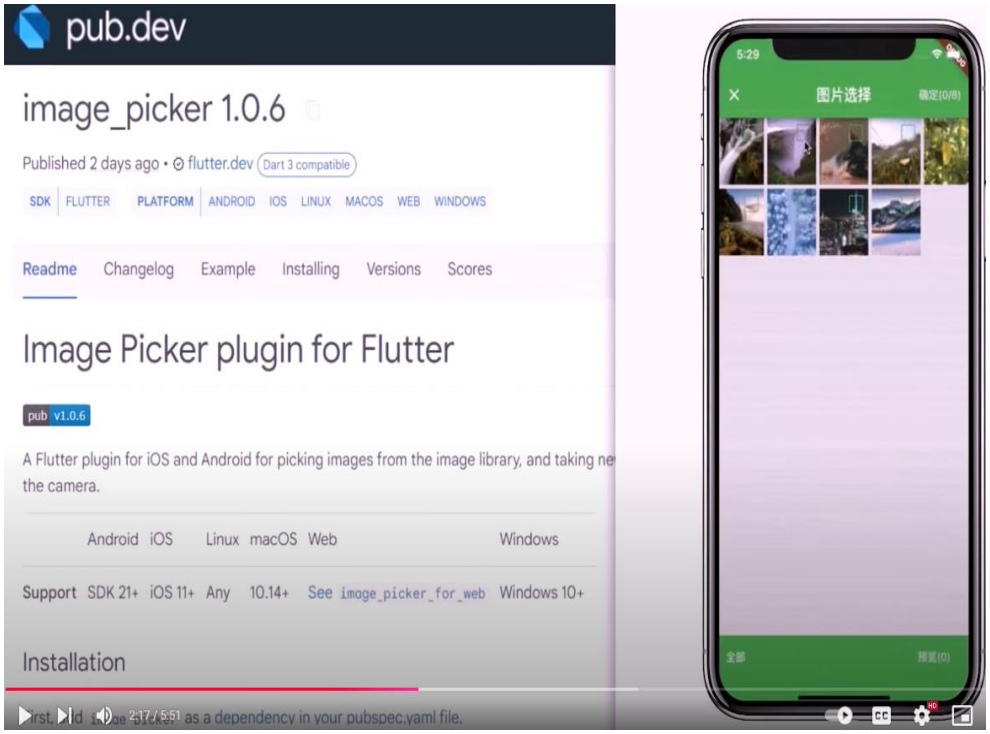
2)


pub.dev
share_plus 7.2.1
Published 2 months ago • fluttercommunity.dev
Dart 3 compatible
SDK FLUTTER PLATFORM ANDROID IOS LINUX MACOS WEB WINDOWS
Readme Changelog Example Installing Versions Scores
share_plus
Flutter Community
share_plus
share_plus failing
pub points 140/140
pub v8.0.0
build
A Flutter plugin to share content from your Flutter app via the platform's share dialog.
Wraps the ACTION_SEND Intent on Android and UIActivityViewController on iOS.
TEST APP
Share
ShareMe
Imo Messenger
ClipClaps
Chats
Notes
News Feed
Your Groups
Imo Messenger
Cancel

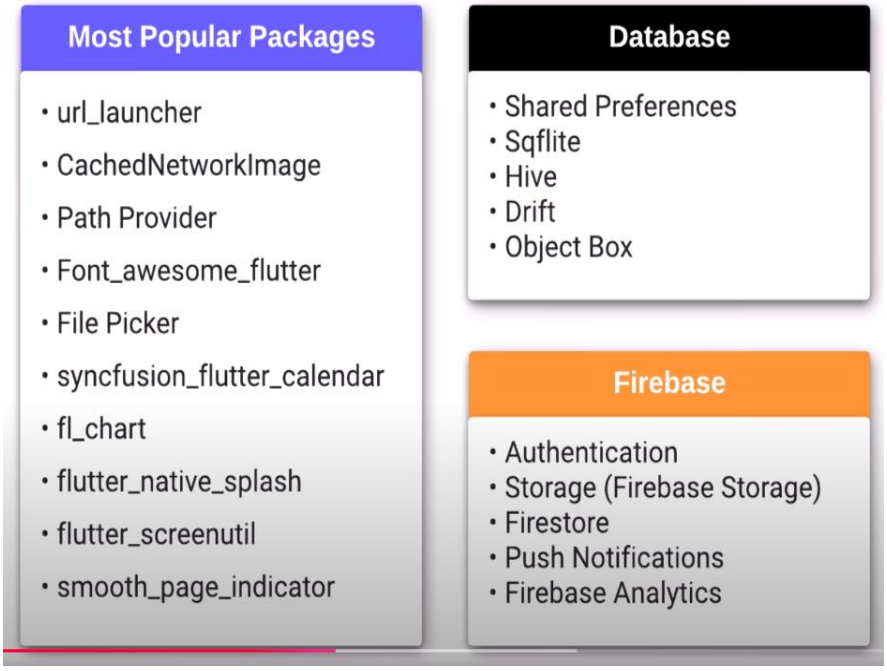
3)


pub.dev
animations 2.0.11
Published 2 days ago • flutter.dev
Dart 3 compatible
SDK FLUTTER PLATFORM ANDROID IOS LINUX MACOS WEB WINDOWS
Readme Changelog Example Installing Versions Scores
High quality pre-built Animations for Flutt
This package contains pre-canned animations for commonly-desired effects. The animation
customized with your content and dropped into your application to delight your users.
To see examples of the following animations on a device or simulator:
cd example/
flutter run --release
Material motion for Flutter
Material motion is a set of transition patterns that help users understand and navigate an ap
California
Back
Professional events
.market meetup
Design Talk
Design Highway

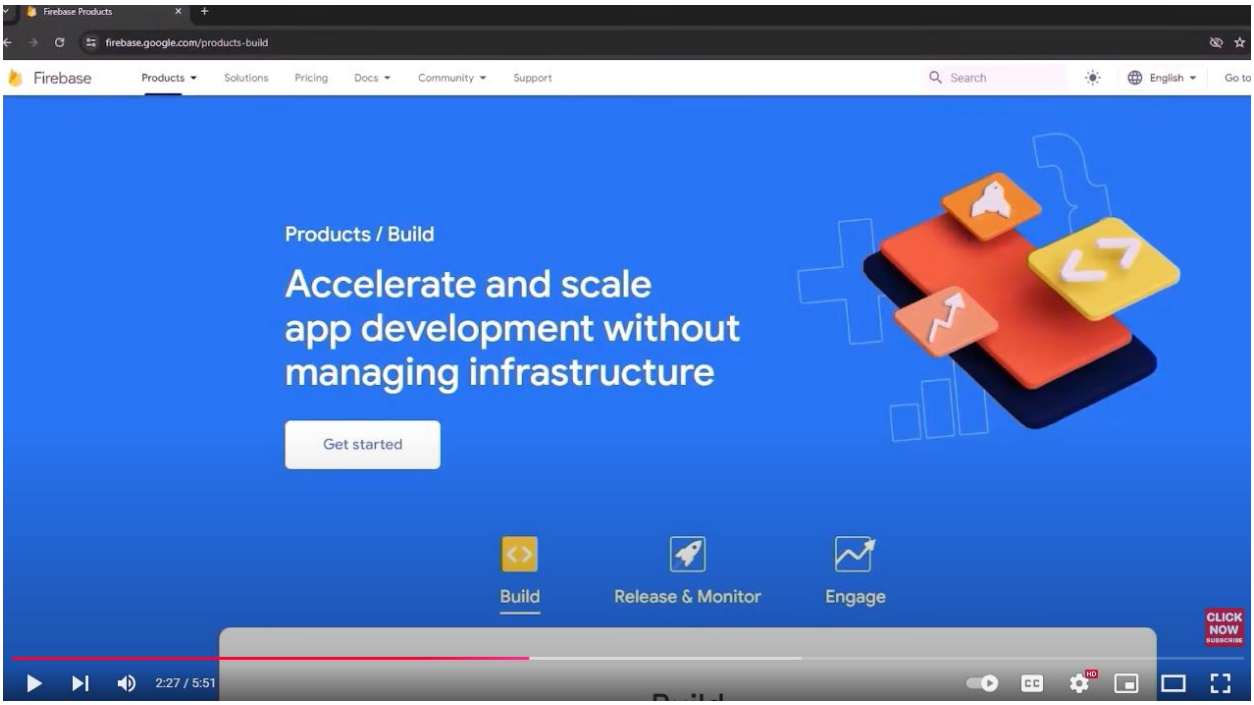
4)

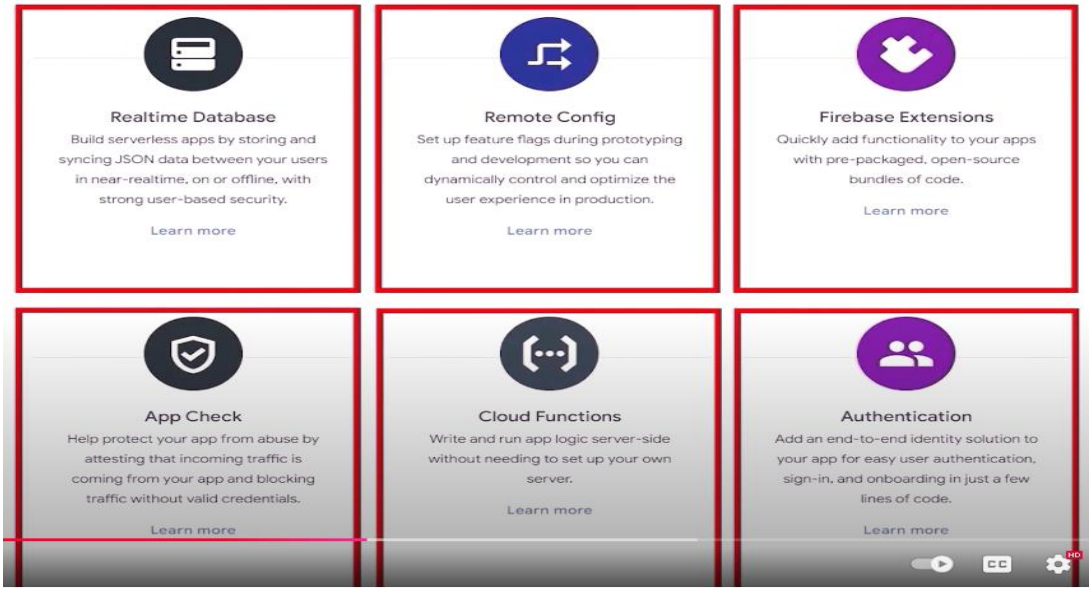

pub.dev
image_picker 1.0.6
Published 2 days ago • flutter.dev Dart 3 compatible
SDK FLUTTER PLATFORM ANDROID IOS LINUX MACOS WEB WINDOWS
Readme Changelog Example Installing Versions Scores
Image Picker plugin for Flutter
pub v1.0.6
A Flutter plugin for iOS and Android for picking images from the image library, and taking ne
the camera.
Android iOS Linux macOS Web Windows
Support SDK 21+ iOS 11+ Any 10.14+ See image_picker_for_web Windows 10+
Installation
as a dependency in your pubspec.yaml file.
5:29
图片选择

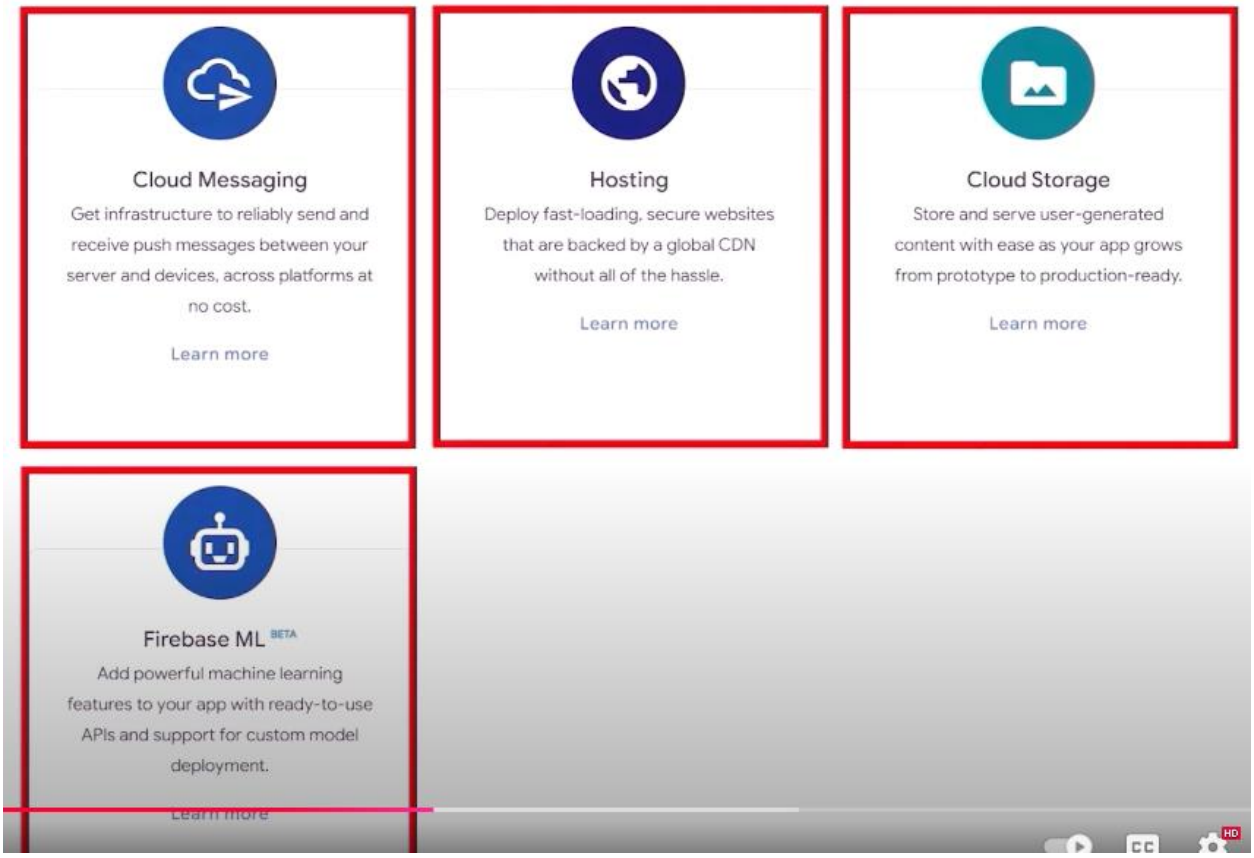
Many More


Most Popular Packages
• url_launcher
• CachedNetworkImage
• Path Provider
• Font_awesome_flutter
• File Picker
• syncfusion_flutter_calendar
• fl_chart
• flutter_native_splash
• flutter_screenutil
• smooth_page_indicator
Database
• Shared Preferences
• Sqflite
• Hive
• Drift
• Object Box
Firebase
• Authentication
• Storage (Firebase Storage)
• Firestore
• Push Notifications
• Firebase Analytics

BACKEND


Firebase Products
firebase.google.com/products-build
Firebase
Products
Solutions
Pricing
Docs
Community
Support
Search
English
Go to
Products / Build
Accelerate and scale app development without managing infrastructure
Get started
Build
Release & Monitor
Engage
CLICK NOW
2:27 / 5:51


Realtime Database
Build serverless apps by storing and syncing JSON data between your users in near-realtime, on or offline, with strong user-based security.
Learn more
Remote Config
Set up feature flags during prototyping and development so you can dynamically control and optimize the user experience in production.
Learn more
Firebase Extensions
Quickly add functionality to your apps with pre-packaged, open-source bundles of code.
Learn more
App Check
Help protect your app from abuse by attesting that incoming traffic is coming from your app and blocking traffic without valid credentials.
Learn more
Cloud Functions
Write and run app logic server-side without needing to set up your own server.
Learn more
Authentication
Add an end-to-end identity solution to your app for easy user authentication, sign-in, and onboarding in just a few lines of code.
Learn more



Alternative

STATE MANAGEMENT

```dart
class MyWidget extends StatefulWidget {
  const MyWidget({super.key});

  @override
  State<MyWidget> createState() => _MyWidgetState();
}

class _MyWidgetState extends State<MyWidget> {
  int counter = 1;

  @override
  Widget build(BuildContext context) {
    return ElevatedButton(
      onPressed: () => setState(() => counter += 1),
      child: Text('$counter'),
    ); // ElevatedButton
  }
}
```

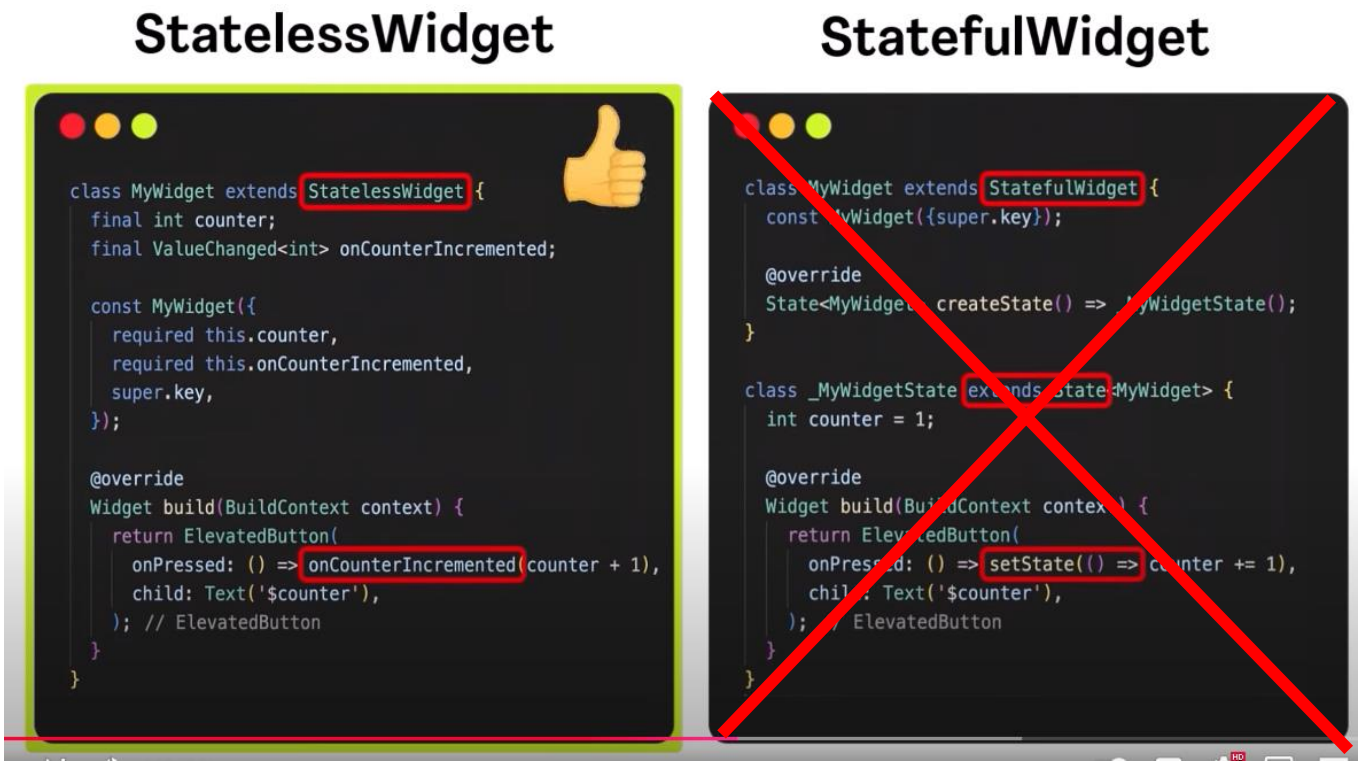
YOU CAN CHOOSE BETWEEN

Riverpod

bloc

Provider

Getx



Learn Git version management for with clients and team.

Learn Master git for seamless collaboration

Learn commits, pull request, git init command, add ., git commit -m 'my message' git push origin branch-name,

```dart
@override
Widget build(BuildContext context) {
  final Size size;
  final double height;
  final double width;

  // getting the size of the window
  size = MediaQuery.of(context).size;
  height = size.height;
  width = size.width;

  return Scaffold(
    body: Container(
      color: Colors.yellow,
      height: height / 2,
      width: width / 2,
    ), // Container
  ); // Scaffold
}
```

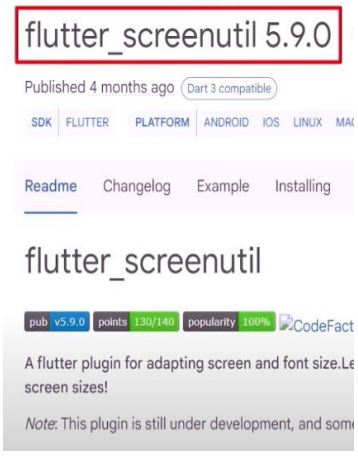
```dart
class Home extends StatelessWidget {
  const Home({super.key});

  @override
  Widget build(BuildContext context) {
    return LayoutBuilder(
      builder: (_, constraints) {
        final screenWidth = constraints.maxWidth;
        if (screenWidth < 600) {
          return buildMobile();
        } else if (screenWidth <= 800) {
          return buildTablet();
        } else {
          return buildDesktop();
        }
      },
    );
  }
```

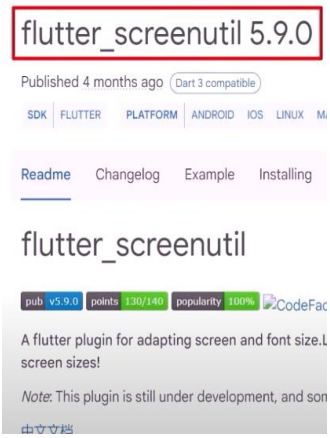
RESPONSIVE WIDGETS

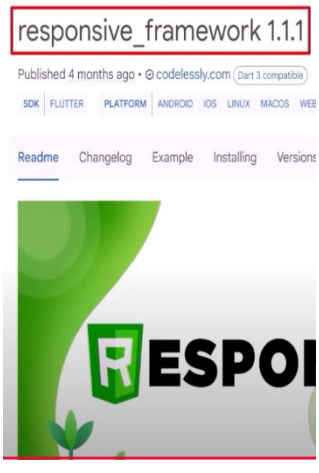
- Expanded
- Flexible
- Spacer
- AspectRatio
- FittedBox
- OrientationBuilder

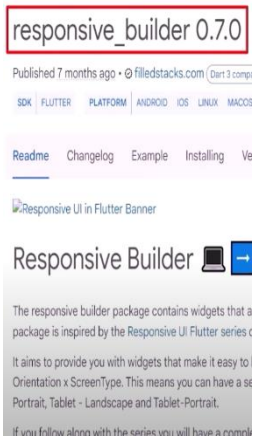
Advance

Different Responsive Packages like:-









ANIMATIONS

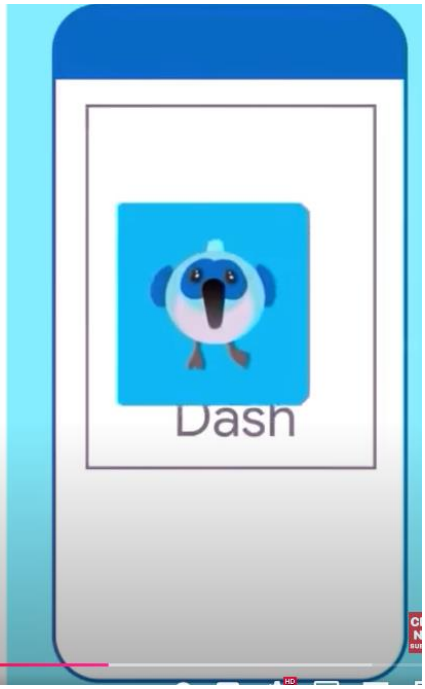
```
class MyHomePage extends StatelessWidget {
  @override
  Widget build(context) {
    ...
    Hero(
      tag: 'dash',
      child: Image.asset('images/dash.jpg'),
    )
    ...
  }
}
```

Hero

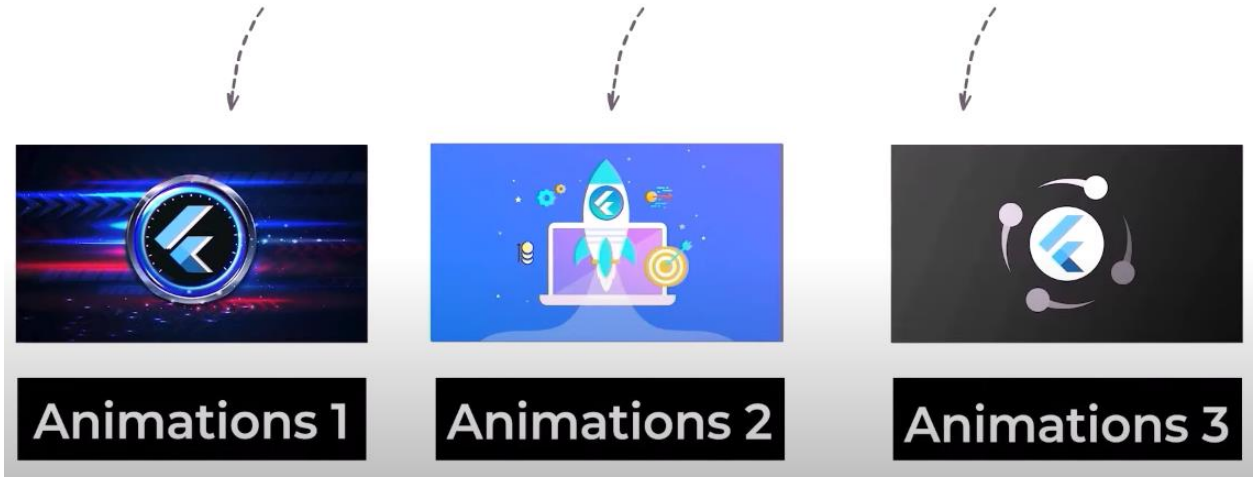
```
Animated(),
AnimatedAlign  AnimatedAlign (package:flutter/material.…
AnimatedBuilder  AnimatedBuilder (package:flutter/mater…
AnimatedContainer  AnimatedContainer (package:flutter/m…
AnimatedCrossFade  AnimatedCrossFade (package:flutter/m…
AnimatedDefaultTextStyle  AnimatedDefaultTextStyle (pac…
AnimatedFractionallySizedBox  AnimatedFractionallySized…
AnimatedGrid  AnimatedGrid (package:flutter/material.da…
AnimatedIcon  AnimatedIcon (package:flutter/material.da…
AnimatedList  AnimatedList (package:flutter/material.da…
AnimatedModalBarrier  AnimatedModalBarrier (package:flu…
AnimatedNotchBottomBar  AnimatedNotchBottomBar (package…
Press ↵ to insert, ⇥ to replace  Next Tip
```

Animated Widgets

```
class MyHomePage extends StatelessWidget {
  @override
  Widget build(context) {
    ...
    Hero(
      tag: 'dash',
      child: Image.asset('images/dash.jpg'),
    )
    ...
  }
}
```



Animations Courses



ORGANIZING CODE

MAJOR STEP

DESIGN PRINCIPLES

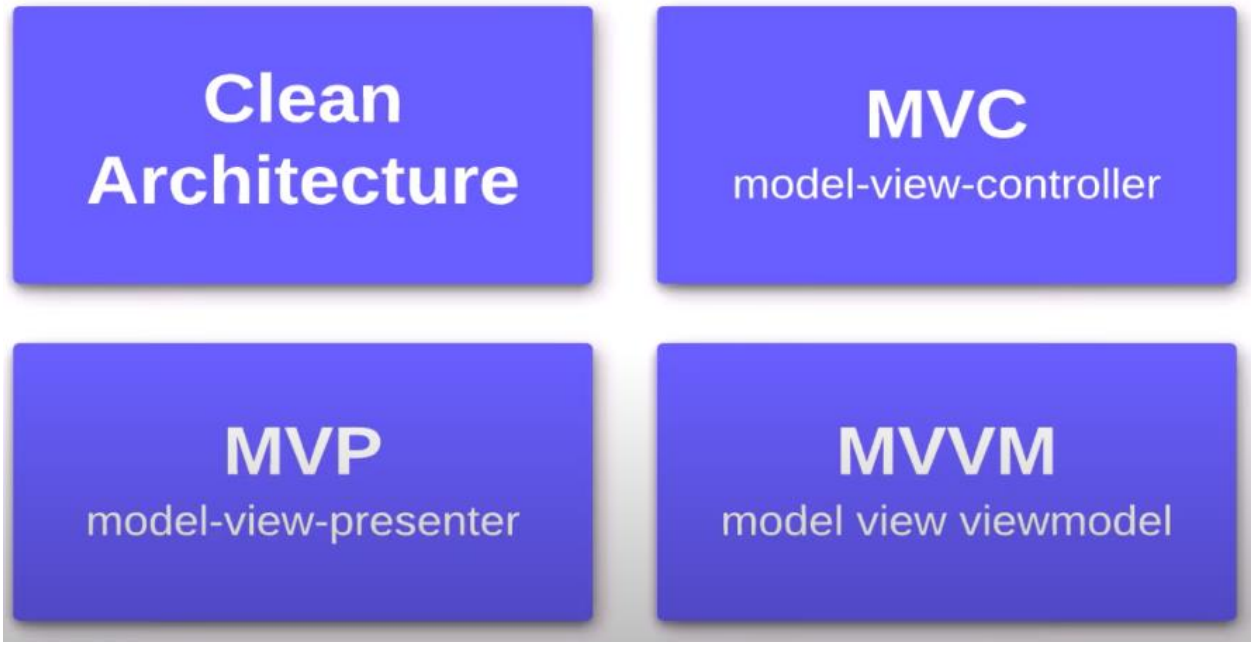
SOLID
Principles

DRY
Don't repeat Yourself

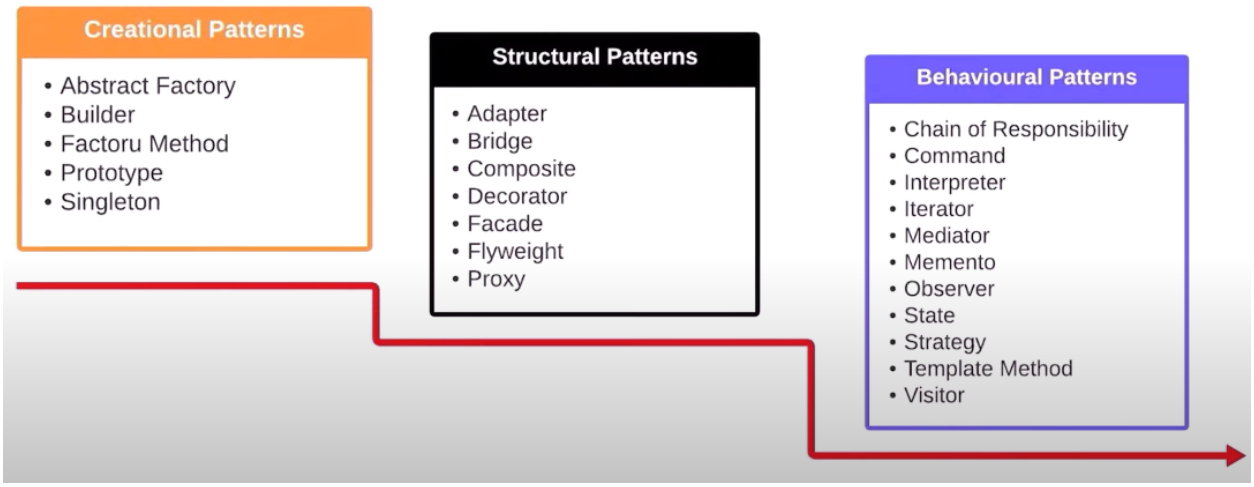
KISS
Keep is simple, Stupid

YGNI
You ain't gonna need it

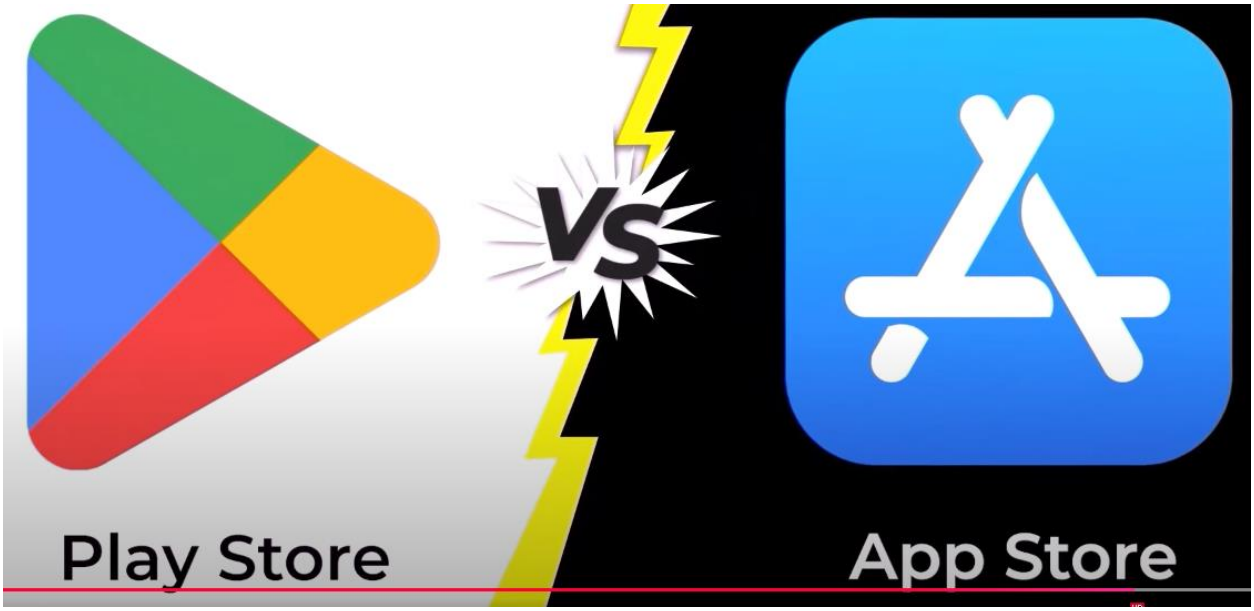
ARCHITECTURE

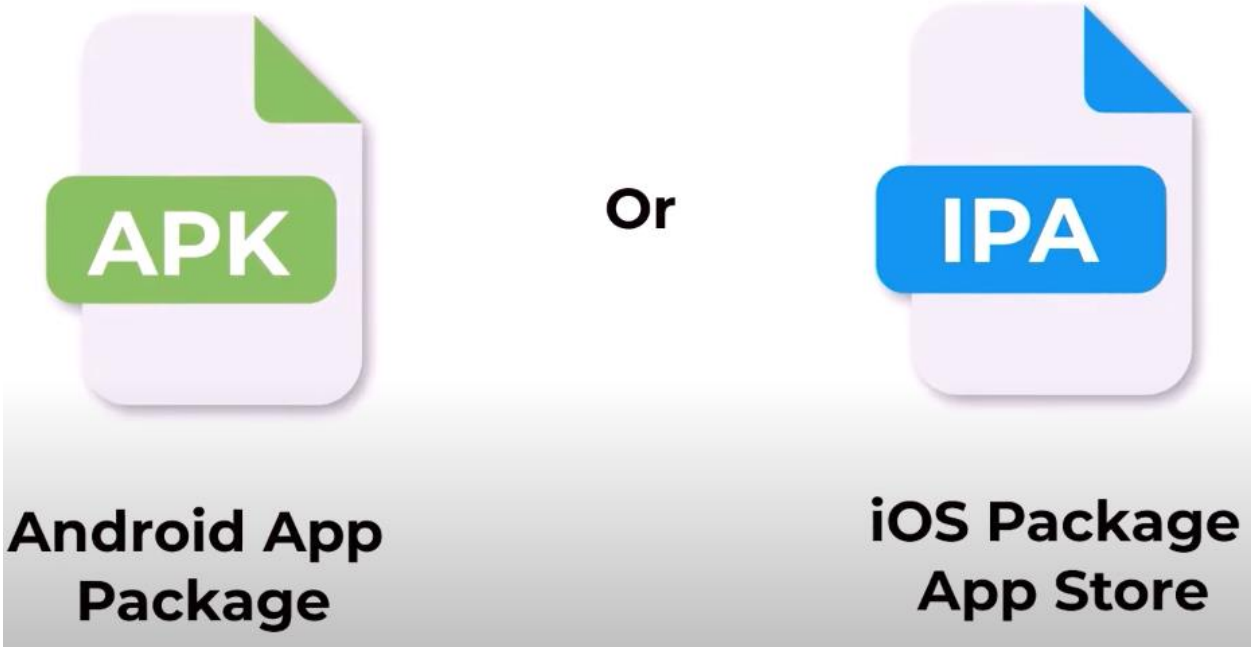


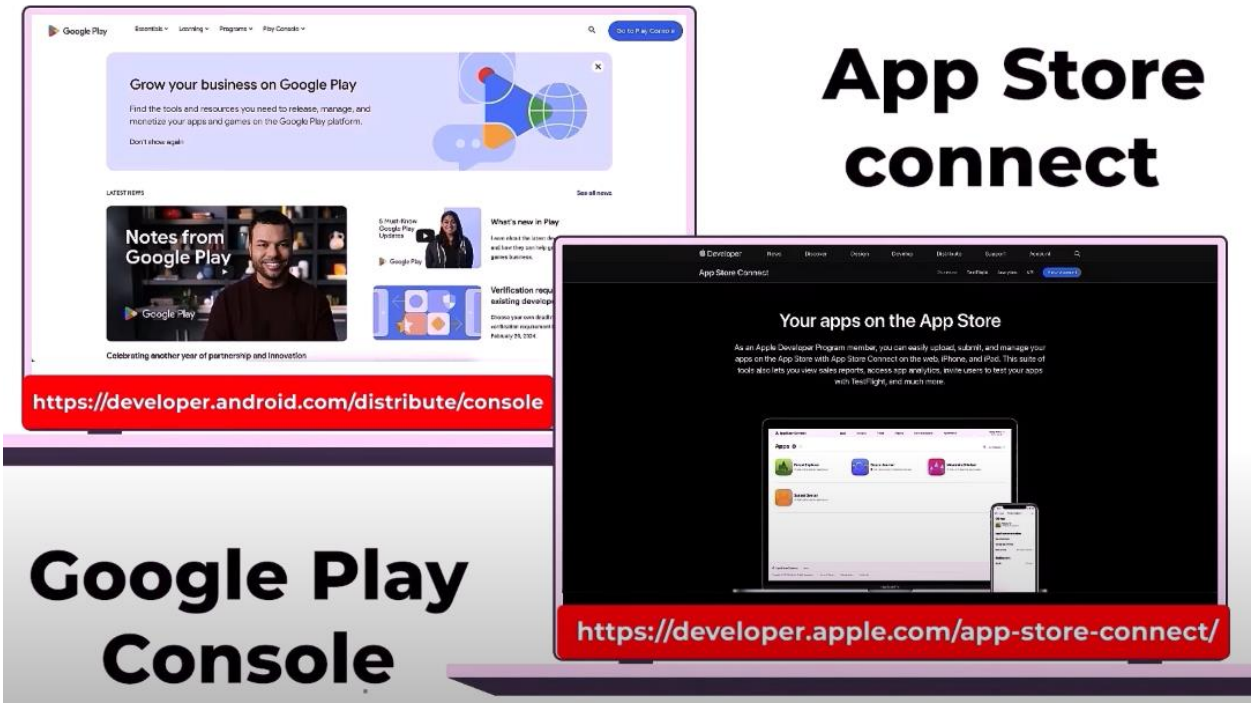
MASTER DESIGN PATTERNS



PUBLISH APP


VS
Play Store
App Store


APK
Or
IPA
Android App Package
iOS Package App Store


Google Play
Grow your business on Google Play
Find the tools and resources you need to release, manage, and monetize your apps and games on the Google Play platform.
Notes from Google Play
Celebrating another year of partnership and innovation
https://developer.android.com/distribute/console
App Store connect
App Store Connect
Your apps on the App Store
As an Apple Developer Program member, you can easily upload, submit, and manage your apps on the App Store with App Store Connect on the web, iPhone, and iPad. This suite of tools also lets you view sales reports, access app analytics, invite users to test your apps with TestFlight, and much more.
https://developer.apple.com/app-store-connect/
Google Play Console