Explore: Telegram Repository

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Introduction - What is Telegram?

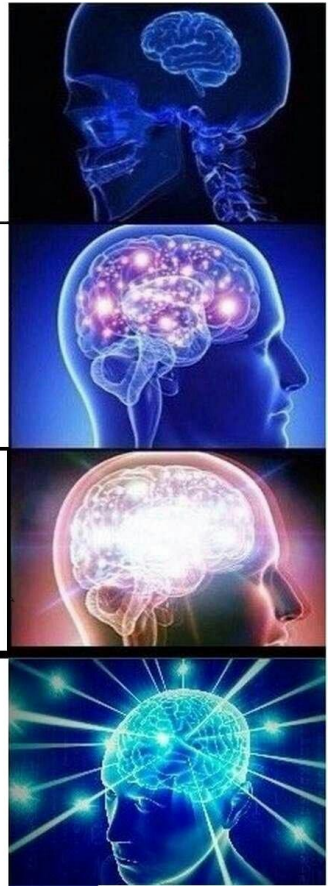
- A cloud-based instant **messaging** service
- Their mission: “Bring privacy back in to messaging”
- Want to feel more secure when sending texts? Download Telegram

Introduction - Why explore Telegram repository?

1. They have an open source Android app
2. It allows me to see how they built their application
3. It allows me to **discover** their implementations ideas

First looks

```
dependencies {
    implementation(
        'androidx.core:core:1.2.0-beta01',
        'androidx.palette:palette:1.0.0',
        'androidx.exifinterface:exifinterface:1.1.0-beta01',
        'com.google.firebase:firebase-messaging:20.0.0',
        'com.google.firebase:firebase-config:19.0.0',
        'com.google.android.gms:play-services-maps:17.0.0',
        'com.google.android.gms:play-services-auth:17.0.0',
        'com.google.android.gms:play-services-vision:18.0.0',
        'com.google.android.gms:play-services-wallet:17.0.0',
        'com.google.android.gms:play-services-wearable:17.0.0',
        'com.google.android.gms:play-services-location:17.0.0',
        'net.hockeyapp.android:HockeySDK:5.1.1',
        'com.googlecode.mp4parser:isoparser:1.0.6',
        'com.stripe:stripe-android:2.0.2'
    )
}
```



Barely any use of external libraries

```
200     public class ChatActivity extends BaseFragment
201
15402   }
15403
```

No (clean) code architecture

```
private static native long create(String src);
```

A lot of functions that refer to C++

Firebase: Remote Config

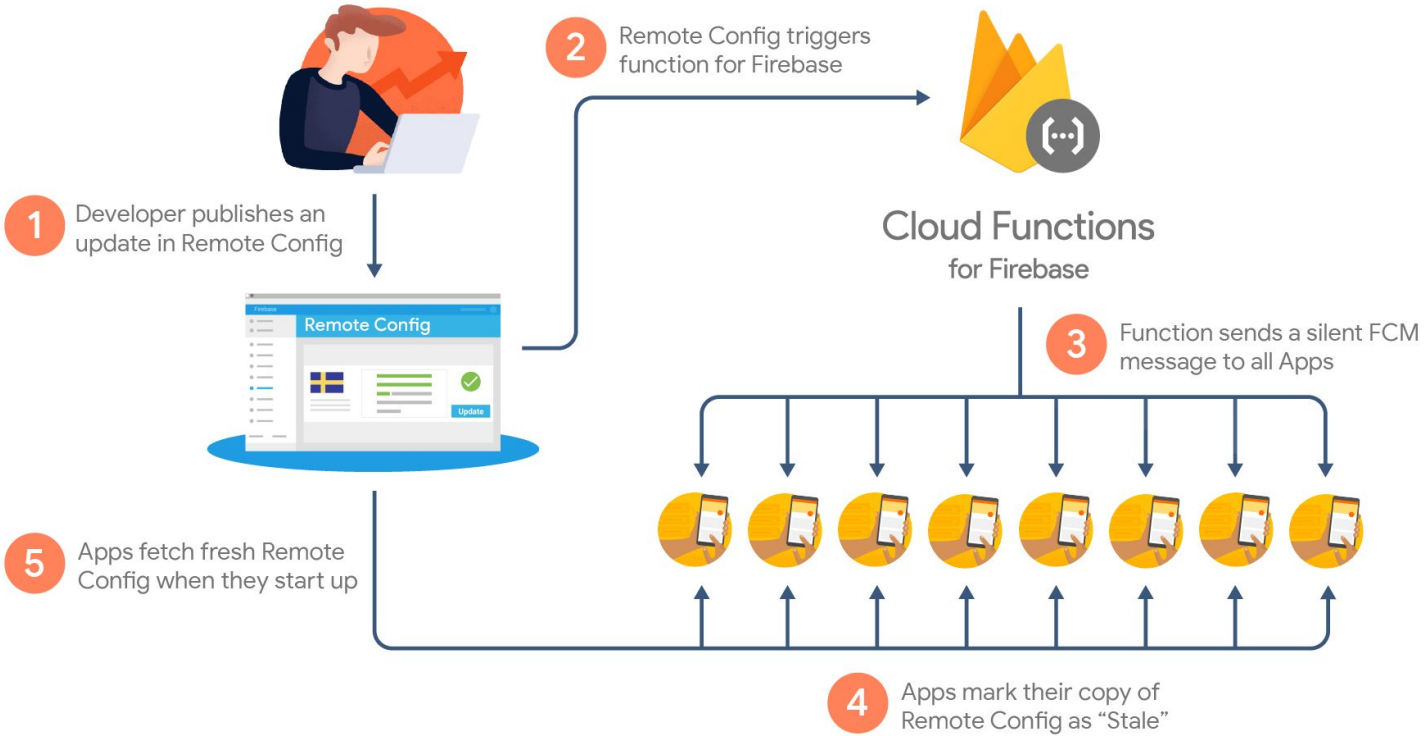
Provide services to make your app more dynamic & responsive to your users needs:

- Quickly roll out a change, without needing to publish an update
  → Ex: Change the colour of your app background to based on the season

- Provide different variations of your app based on certain conditions
  → Ex: Show special promotion deals for users that often make use of the app

- Run A/B tests to improve your app
  → Ex: Change the difficulty of your game, experiment with x % of your users before making your decision

How does it work ?



Palette

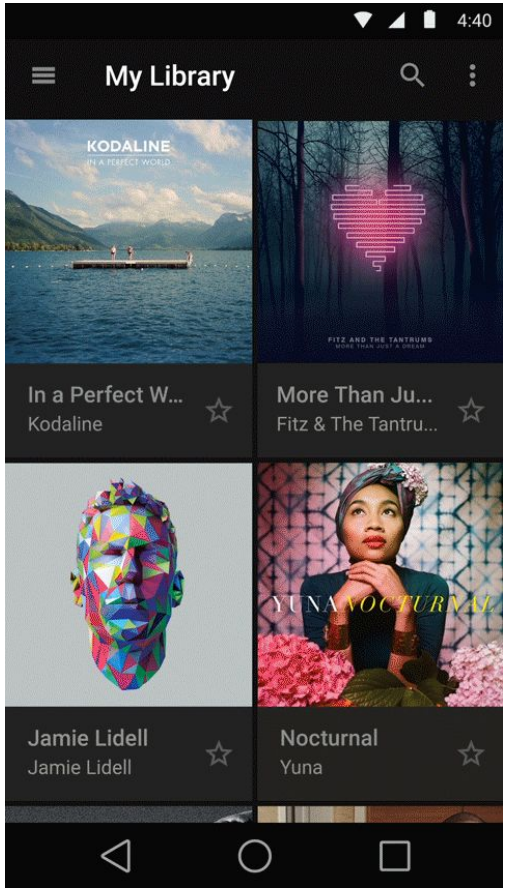
A built-in helper class to extract out the prominent colors of an image:

1. Generate a Palette object from an image
2. Choose the colors of your preference, extracted from your image

   → Vibrant, Vibrant Dark, Vibrant Light

   → Muted, Muted Dark, Muted Light

Example : Palette



Question

Can I make my own messaging app, as its an open-source project? 😏

➔ “You can, but it’s not recommended to do so”

What does that even mean? 🤔

➔ It means you can’t use the Telegram API to create an independent messaging app

??? 😳

➔ The API allows you to work with their data only
➔ It’s impossible to store your data on a separate server or database

Conclusion: You can only create an app that interacts with the Telegram messaging app

Good for learning about encryption

Bad for learning about code architecture

Thanks!

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