

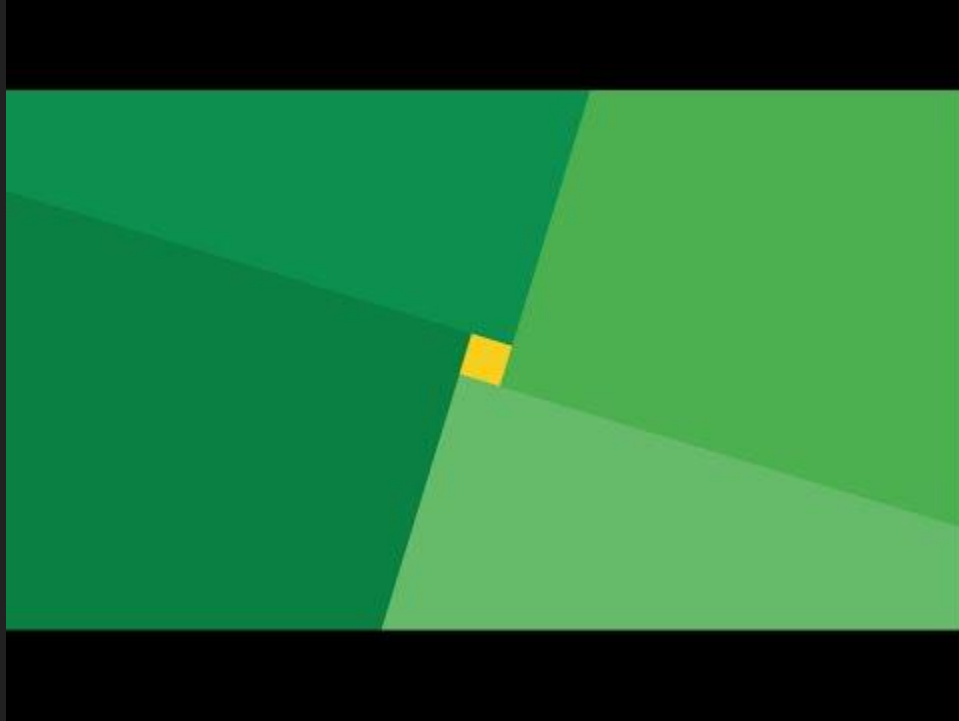
Wroclove Tech Night

Android

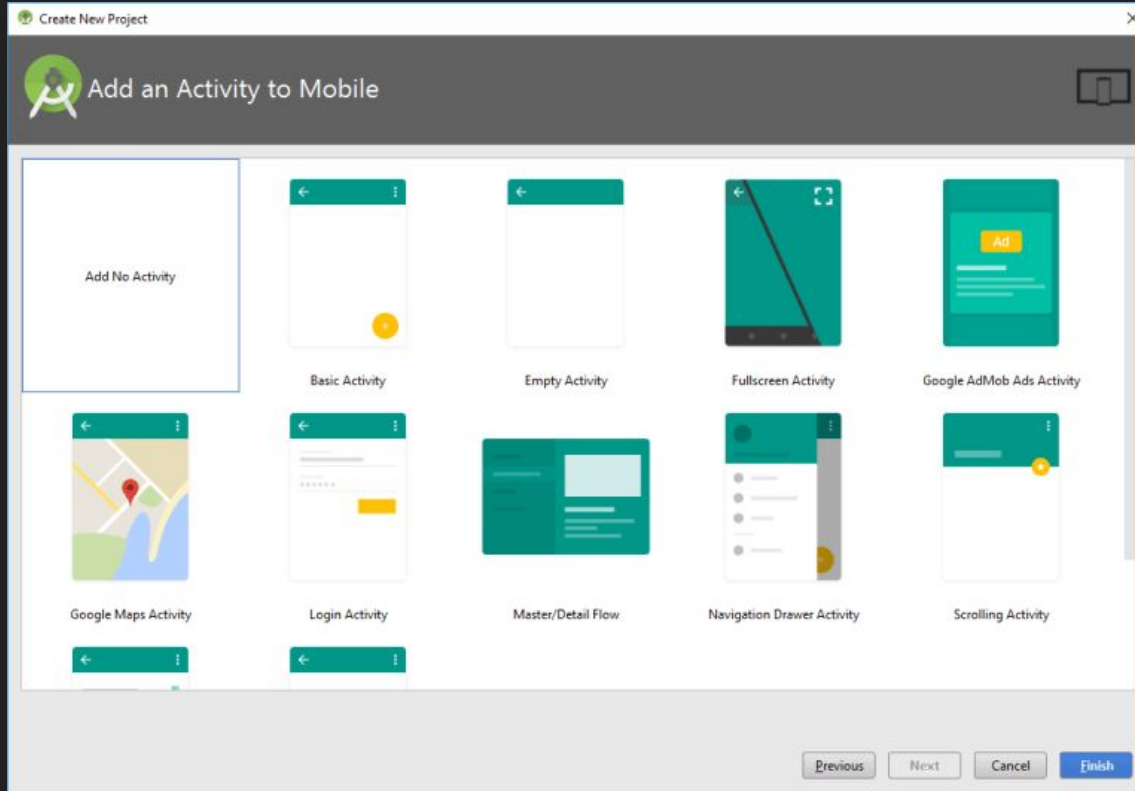
Android versioning



Design language - <https://material.io/>



Wtf is Activity?



LIFECYCLE IS YOUR NEW NIGHTMARE



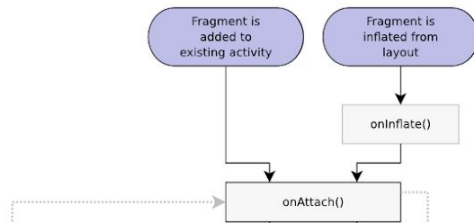
The Complete Android Activity/Fragment Lifecycle

v0.9.0 2014-04-22 Steve Pomeroy <stevep@thelevelup.com>

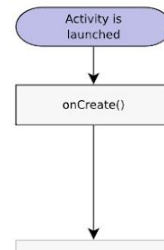
CC-BY-SA 4.0

<https://github.com/xxv/android-lifecycle>

Fragment Lifecycle



Activity Lifecycle



Key

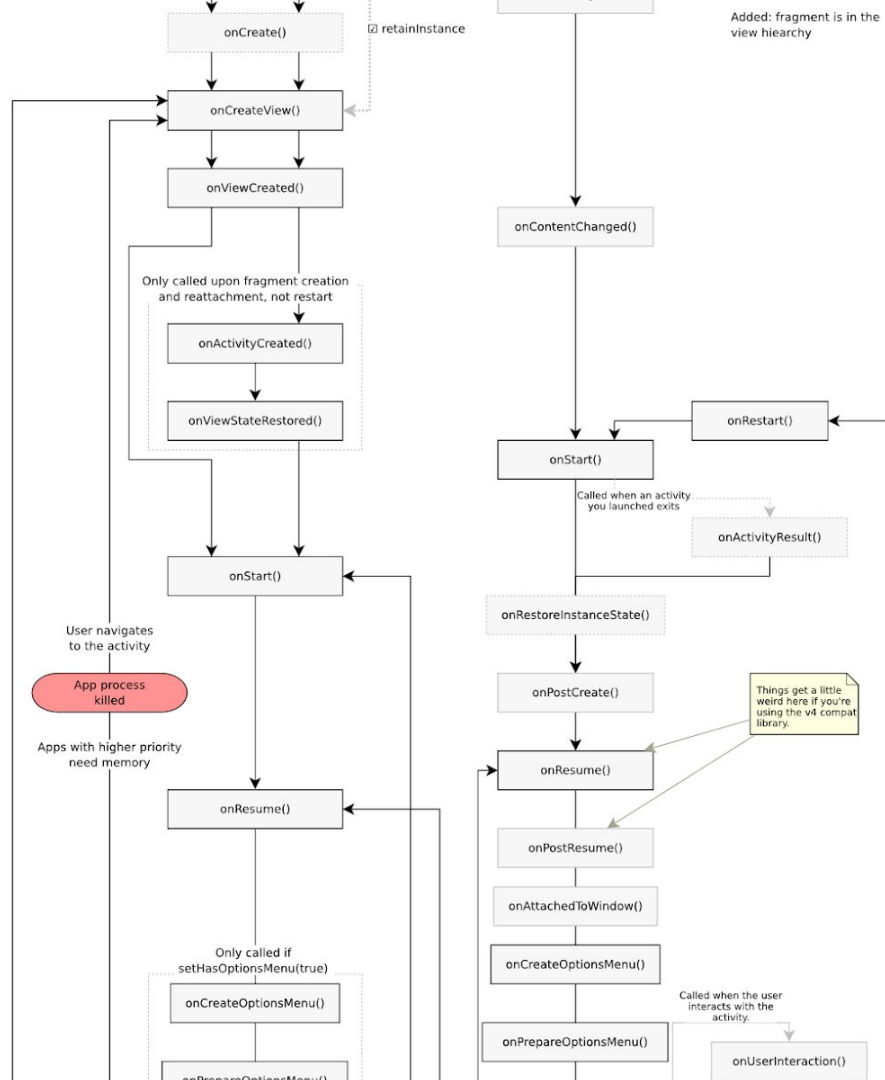
Common

Uncommon

Conditional

Uncommon lifecycle events are ones that either the documentation states are not intended for application use or which aren't often encountered in many apps

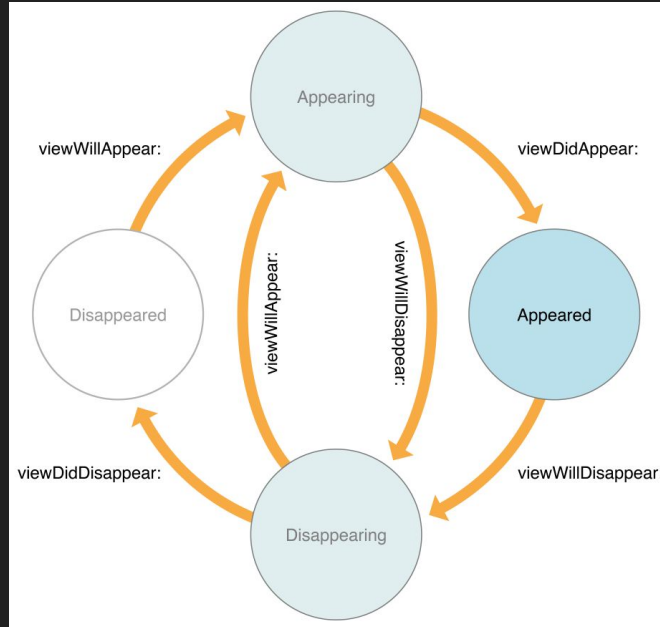
Attached: fragment is



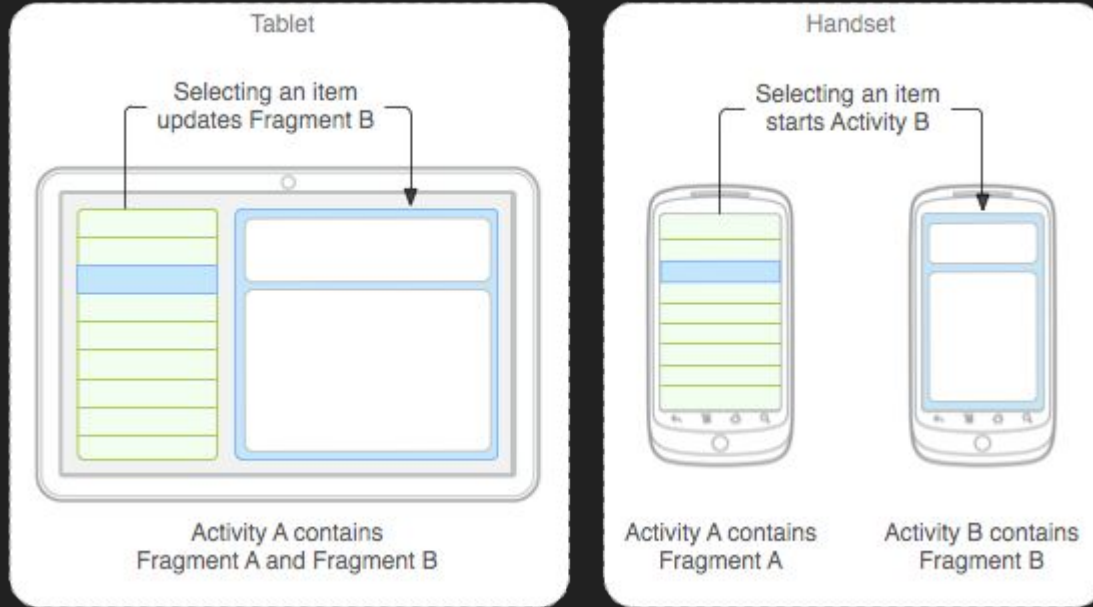




Compare it to this



Wtf is Fragment?





*for sure you can live without those and there are many libs that help you in doing so: <https://github.com/bluelinelabs/Conductor>

Why Kotlin got so popular?





~~Concision~~

Readability

~~Expressiveness~~

Reuse

~~Originality~~

Interoperability

~~Soundness~~

Safety

Tooling

Concise

```
data class Rates(  
    val base: CurrencyName,  
    val rates: Map<CurrencyName, Double?>  
)
```

```
public final class Rates {  
    @NotNull  
    private final String base;  
    @NotNull  
    private final Map rates;  
  
    @NotNull  
    public final String getBase() {  
        return this.base;  
    }  
  
    @NotNull  
    public final Map getRates() {  
        return this.rates;  
    }  
  
    public Rates(@NotNull String base, @NotNull Map rates) {  
        Intrinsics.checkNotNullParameter(base, "base");  
        Intrinsics.checkNotNullParameter(rates, "rates");  
        super();  
        this.base = base;  
        this.rates = rates;  
    }  
  
    @NotNull  
    public final String component1() {  
        return this.base;  
    }  
  
    @NotNull  
    public final Map component2() {  
        return this.rates;  
    }  
  
    @NotNull  
    public final Rates copy(@NotNull String base, @NotNull Map rates) {  
        Intrinsics.checkNotNullParameter(base, "base");  
        Intrinsics.checkNotNullParameter(rates, "rates");  
        return new Rates(base, rates);  
    }  
  
    // SFF: synthetic method  
    @NotNull  
    public static Rates copy$default(Rates var0, String var1, Map var2, int var3, Object var4) {  
        if ((var3 & 1) != 0) {  
            var1 = var0.base;  
        }  
  
        if ((var3 & 2) != 0) {  
            var2 = var0.rates;  
        }  
  
        return var0.copy(var1, var2);  
    }  
  
    @NotNull  
    public String toString() {  
        return "Rates(base=" + this.base + ", rates=" + this.rates + ")";  
    }  
  
    public int hashCode() {  
        return (this.base != null ? this.base.hashCode() : 0) * 31 + (this.rates != null ? this.rates.hashCode() : 0);  
    }  
  
    public boolean equals(@Nullable Object var1) {  
        if (this != var1) {  
            if (var1 instanceof Rates) {  
                Rates var2 = (Rates) var1;  
                if (Intrinsics.areEqual(this.base, var2.base) && Intrinsics.areEqual(this.rates, var2.rates)) {  
                    return true;  
                }  
            }  
            return false;  
        } else {  
            return true;  
        }  
    }  
}
```

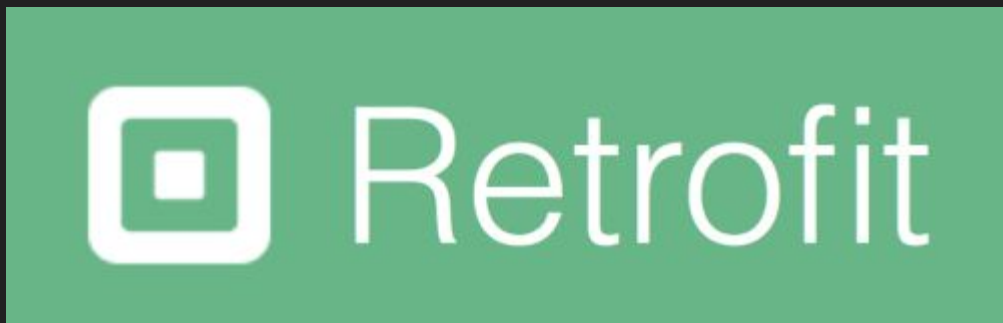


Safe

```
data class Rates(  
    val base: CurrencyName,  
    val rates: Map<CurrencyName, Double?>  
)
```

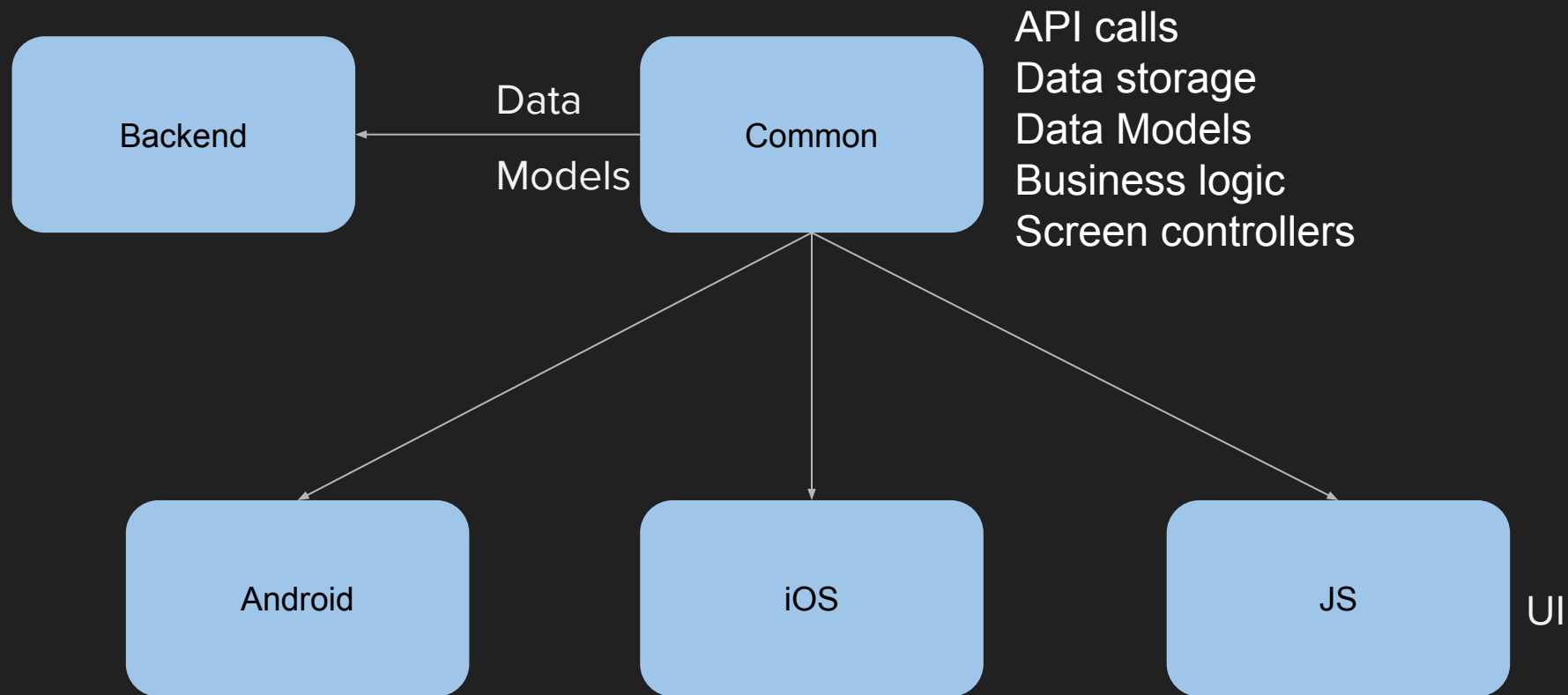


Interoperable

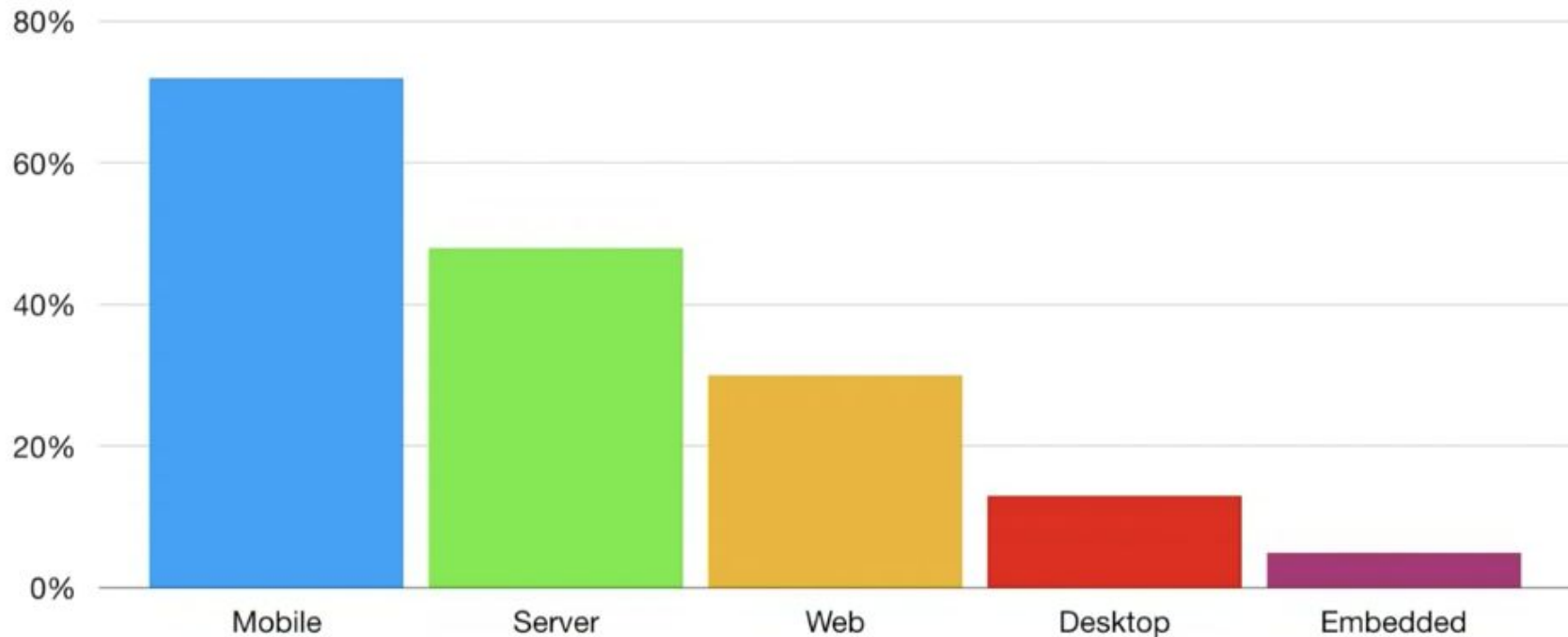


No open source community effort is lost!

Kotlin multiplatform fullstack



KotlinConf Demographics





How to Increase Your Social Status at /r/AndroidDev



- 1 **Assert your dominance.** T-posing will let Java developers know you are superior.

If you want to learn more or try Kotlin

- Documentation: <https://kotlinlang.org/docs/reference/>
- Koans: <https://kotlinlang.org/docs/tutorials/koans.html>
- Book: “Kotlin in Action” by Dmitry Jemerov and Svetlana Isakova
- Book and Blog: Kotlin for Android Developers <https://antonioleiva.com/>
- Kotlin slack: <http://slack.kotlinlang.org/>

Default android stack

2014

- Java
- MVP
- Activity per screen
- AsyncTask
- GreenDao (i inne ORMy)
- JobScheduler*
- RelativeLayout
- Android Support Library
- ButterKnife

2019

- Kotlin
- MVVM
- Single activity app
- RxJava/Coroutines
- Room
- WorkManager
- ConstraintLayout
- AndroidX
- Kotlin Android Extensions*

Netguru Android Stack

<https://github.com/netguru/netguru-android-template/blob/master/buildsystem/dependencies.gradle>

<> Code

! Issues 52

🔗 Pull requests 10

📖 Wiki

📊 Insights

Retrofit

A type-safe HTTP client for Android and Java

Introduction

Retrofit turns your HTTP API into a Java interface.

```
public interface GitHubService {  
    @GET("users/{user}/repos")  
    Call<List<Repo>> listRepos(@Path("user") String user);  
}
```


NETFLIX AND CHILL

```
public void loadLocations() {  
    getMvpView().setProgress(true);  
    if (mLoadLocationsSubscription != null) mLoadLocationsSubscription.unsubscribe();  
    mLoadLocationsSubscription = mDataManager.getTeamLocationRecordsFromDatabase()  
        .compose(RxUtil.applyIoSchedulers())  
        .subscribe(this::setLocationsView,  
            this::handleError);  
}
```

```
class PromoCodeControllerTest {



    private val promoCodeApiSubject = SingleSubject.create<PromoCodeResponse>()
    private val promoCodeApiMock = mock<PromoCodeApi> {
        on { it.redeemPromoCode(any()) } doReturn promoCodeApiSubject
    }

    private val updateTotalCreditSubject = CompletableSubject.create()
    private val localProfileSubject = PublishSubject.create<Optional<UserProfile>>()
    private val profileRepositoryMock = mock<ProfileRepository> {
        on { it.updateCreditsInfo(any()) } doReturn updateTotalCreditSubject
        on { it.userProfileObservable } doReturn localProfileSubject
    }

    private val promoCoderErrorParserMock = mock<PromoCodeErrorParser>()



    private val promoCodeController = PromoCodeController(
        promoCodeApiMock, profileRepositoryMock, promoCoderErrorParserMock
    )
}
```



Dependency Injection - Dagger as Default



120


Posted by u/blackblueroker 11 months ago 🇺🇸







Any one who thinks Dagger is too complicated to understand and use?


91




Dagger Removal - A Dagger to Remember arturdryomov.online/posts/... 

r/androiddev · Posted by u/ZakTaccardi **Android Developer** 11 months ago 🇺🇸

 46 Comments  Give Award  Share  Save  Hide  Report

Outrage of the Junior Dev

I am sure there are people out there who enjoy developing Android apps and are really good at it. However as a junior dev who is both working full time and trying to get better at his job, Android is stabbing me with a freaking Dagger2 in my heart and hitting my head with a thermosiphon.

Handling Jsons

 [google](#) / [gson](#)

 Watch ▾

733

 Star

15,139

 Fork

3,053

 Code

 Issues

331



Pull requests

86



Projects

1



Insights

Battle tested by thousands with poor kotlin support

 [square](#) / [moshi](#)

 Watch ▾

175

 Star

4,944

 Fork

370

 Code

 Issues

60



Pull requests

10



Insights

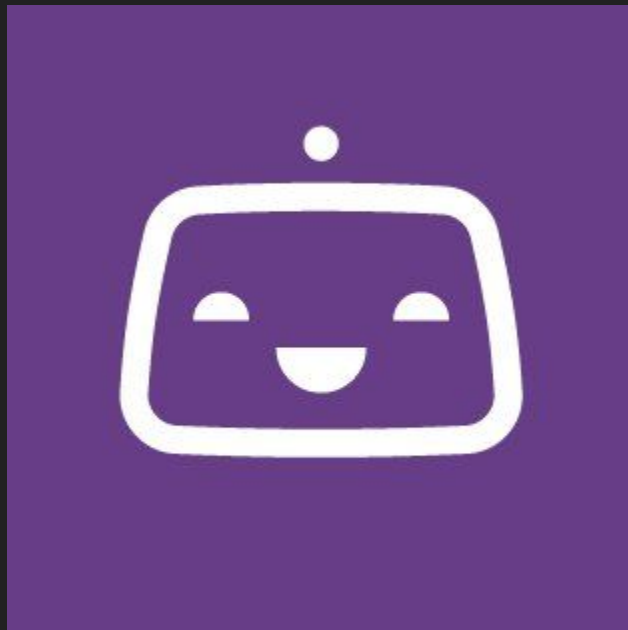
Fresh and modern. Great kotlin support.

Android Jetpack

<https://developer.android.com/jetpack>



CI,CD - Bitrise



A man to remember



Jake Wharton @JakeWharton · 5h

Ported Timber 4.x to Kotlin retaining source and binary compatibility. Almost done with making it multiplatform while retaining both as well. Could technically be a 4.x release, but I'll call it 5.0 just in case. Coming soon on the order of a few weeks.



4



16



163



Pedro Massango @pedromass... · 2h

Make one for Flutter



1



Jake Wharton

@JakeWharton

Replying to @pedromassangom

No

17:26 · 24 Mar 19 · [Twitter for Android](#)

3 Likes

That's all for the intro!
LET'S TAKE A DEEP DIVE INTO CODE!

