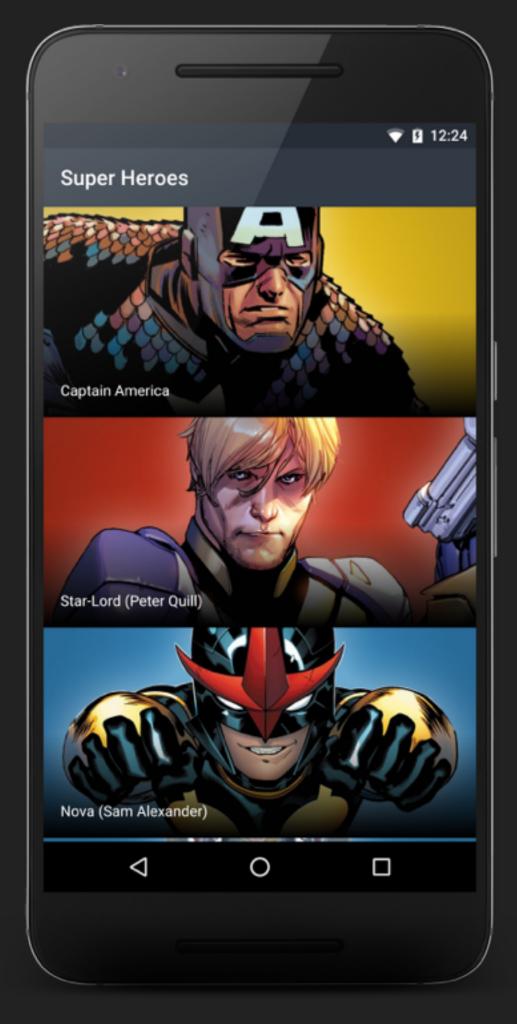


#### WORKSHOP ANDROID IV

### SUBTITLE WANTED, DEAD OR ALIVE



### BUT FIRST

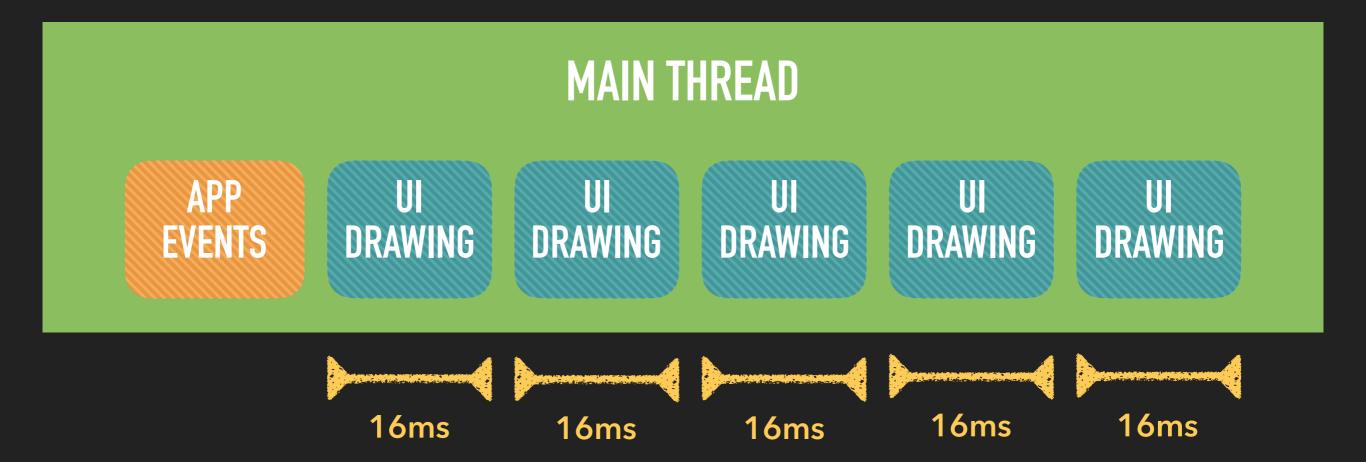
RUN THE APP

#### WHAT'S THIS ALL ABOUT

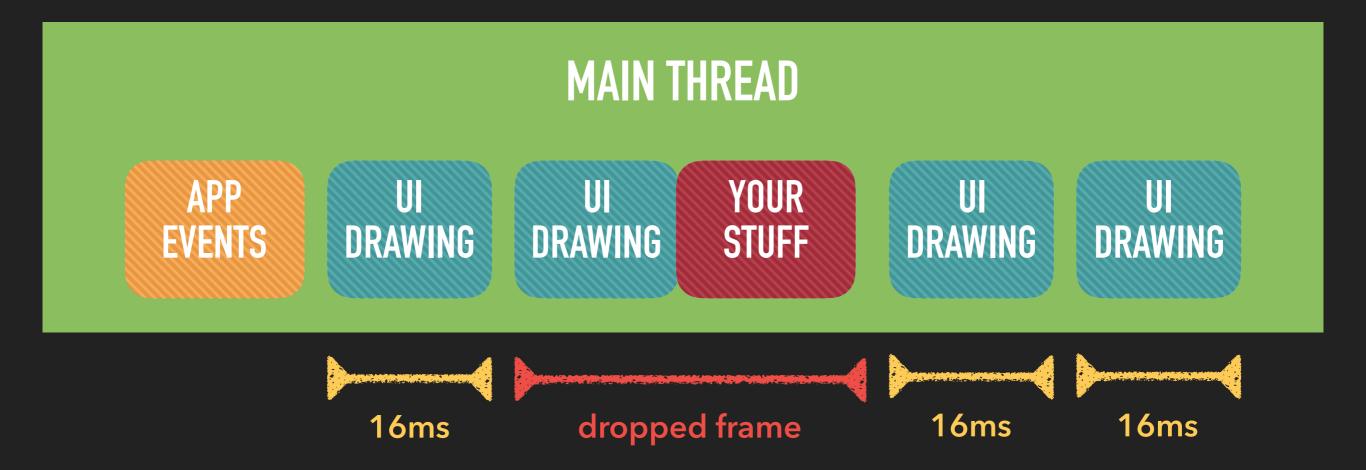
- Main Thread
- Background processing
- Network requests
- REST APIs
- Storing Data

### MAIN THREAD

#### **PROCESS**



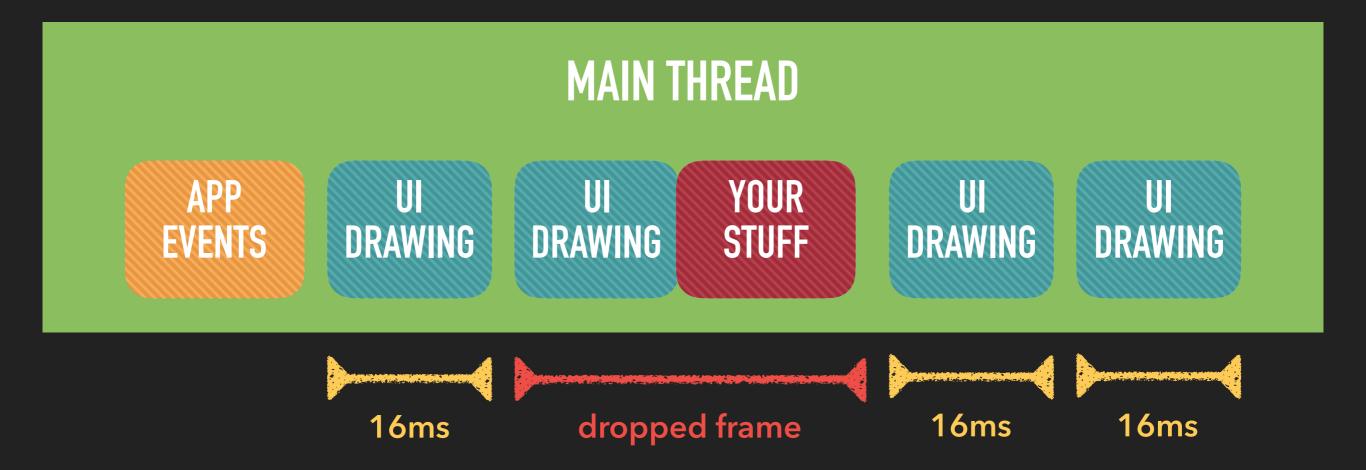
#### **PROCESS**



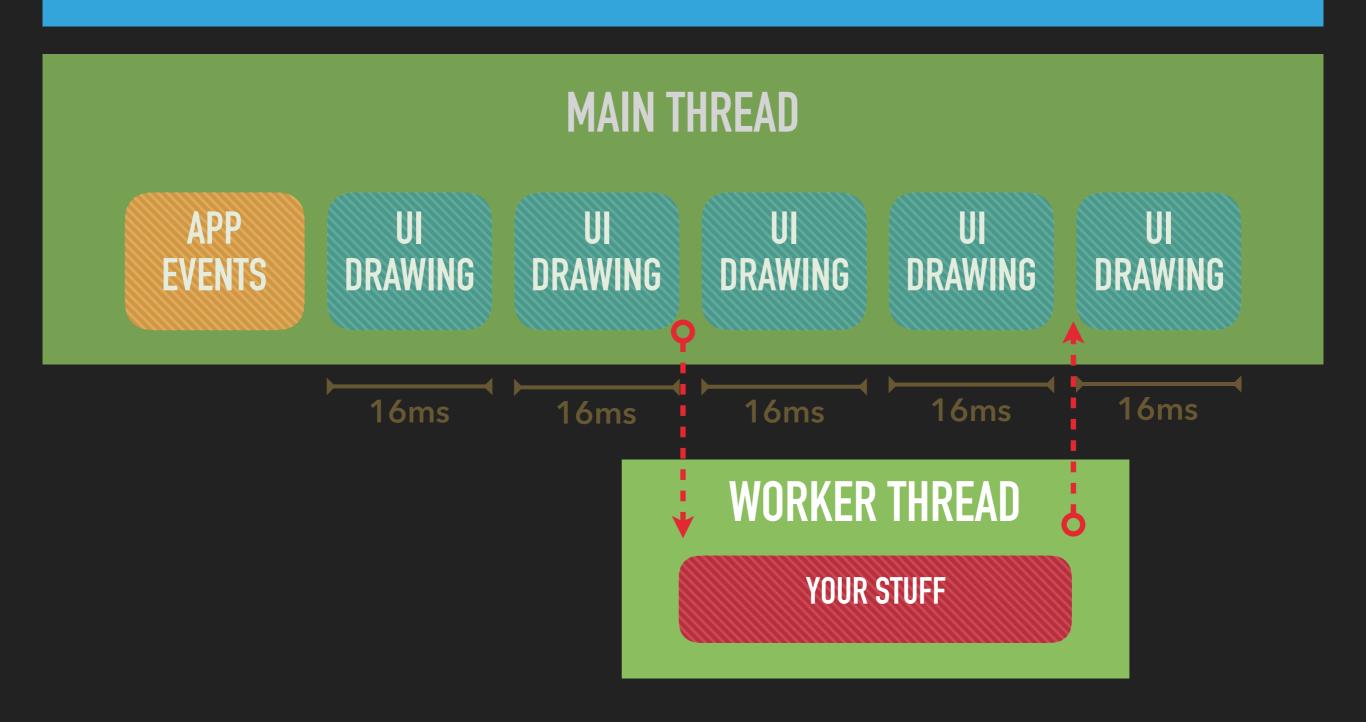
### BACKGROUND PROCESSING

TO THE RESCUE

#### **PROCESS**

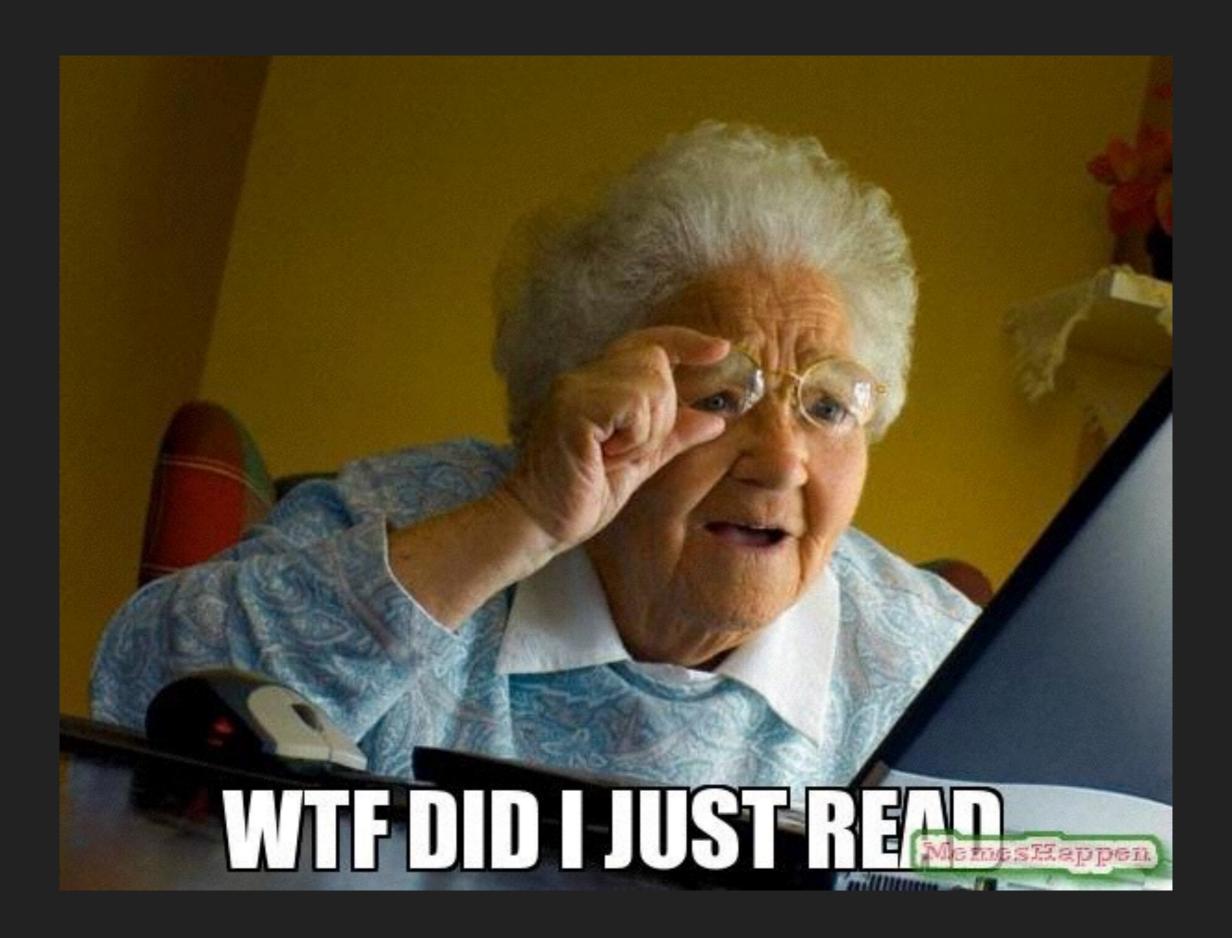


#### **PROCESS**



#### **HOW TO**

#### HOW TO



#### **HOW TO**

- Worker Thread
- Async Task
- Intent Service
- Priority Job Queue
- RxJava
- And moar!

#### **ASYNC TASK - SETUP**

```
private class SuperHeroTask extends AsyncTask<Void, Void, SuperHero> {
   @Override
    protected void onPreExecute() {
        // Runs on UI Thread
   @Override
    protected SuperHero doInBackground(Void... params) {
        // Runs on Worker Thread
        return superHero;
   @Override
    protected void onPostExecute(SuperHero superHero) {
        // Runs on UI Thread
```

#### **ASYNC TASK - SETUP**

```
private class SuperHeroTask extends AsyncTask<Void, Void, SuperHero>){
    @Override
    protected void onPrefixecute() {
        // Runs on UI Thread
    @Override
    protected SuperHero do(nBackground)Void... params) {
        // Runs on Worker Thread
        return superHero;
    @Override
    protected void ofPostExecute(SuperHero superHero) {
        // Runs on UI Thread
```

#### **ASYNC TASK - EXECUTE**

```
new SuperHeroTask().execute();
```

# NETWORK REQUESTS

#### MARVEL API

https://marvel-ij.herokuapp.com/characters

https://marvel-ij.herokuapp.com/characters/{name}

#### **OKHTTP**

From: <a href="http://square.github.io/okhttp/">http://square.github.io/okhttp/</a>

#### OKHTTP

# RETROFIT 1.9

```
public interface MarvelApi {
    @GET("/characters/{name}")
    SuperHero getByName(@Path("name") String name);
}
```

SharedPreferences sharedPreferences = getSharedPreferences("favorites",
MODE\_PRIVATE);

# THAT'S ALL, FOLKS!

#### REFERENCE

- http://android-developers.blogspot.com.es/2009/05/ painless-threading.html
- http://square.github.io/okhttp/
- http://square.github.io/retrofit/
- http://developer.android.com/intl/es/guide/topics/data/ data-storage.html#pref
- https://github.com/Karumi/KataSuperHeroesAndroid

#### **SPECIAL THANKS TO**

- Infojobs' Transformers Team
- Schibsted Spain
- Karumi