Análise e Reconhecimento de Formas

Configurações e observações gerais

MAC0447 / MAC5749 — EPs - 2023

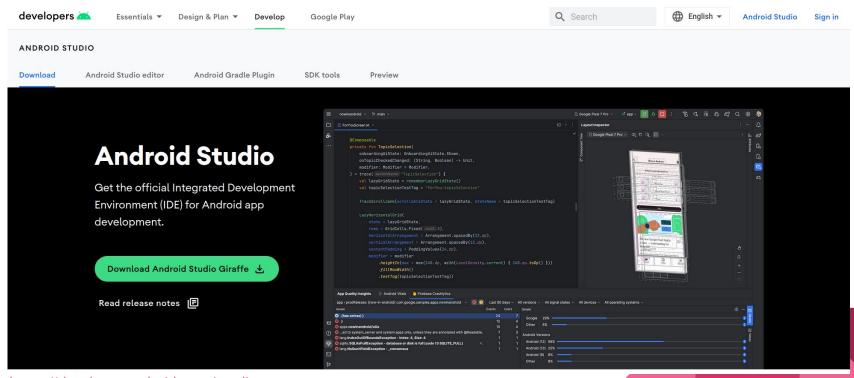
Roberto Marcondes Cesar Jr.

14 de agosto de 2023

Sumário

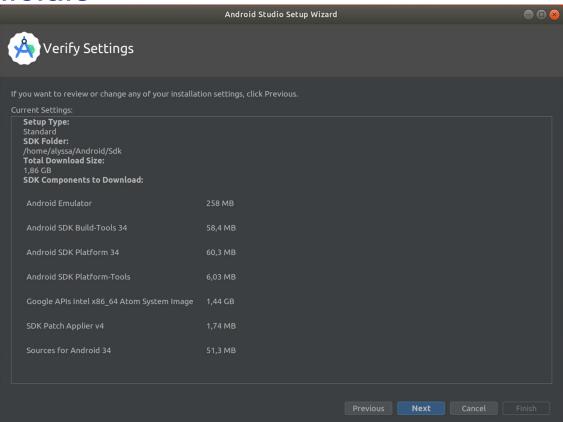
1	Intr	odução			
	1.1	Relatório de entrega e pitch			
	1.2	Informações gerais			
2		Aplicativo - Aquisição de imagens e formação do dataset			
2	Apl	icativo - Aquisição de imagens e formação do dataset			
2	-	icativo - Aquisição de imagens e formação do dataset Formação do dataset			
2	2.1				

Android Studio

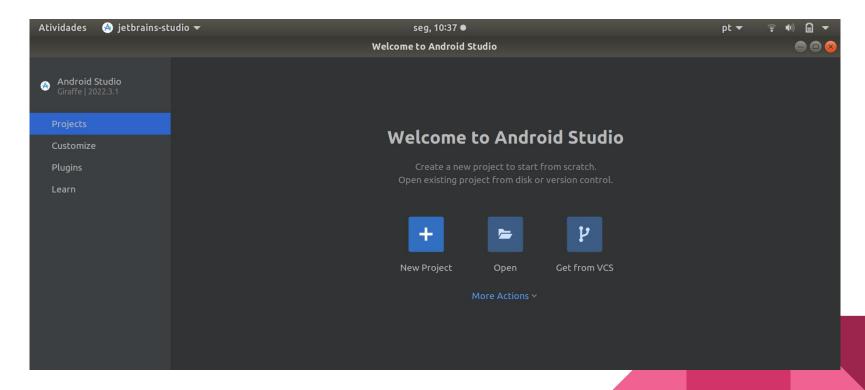


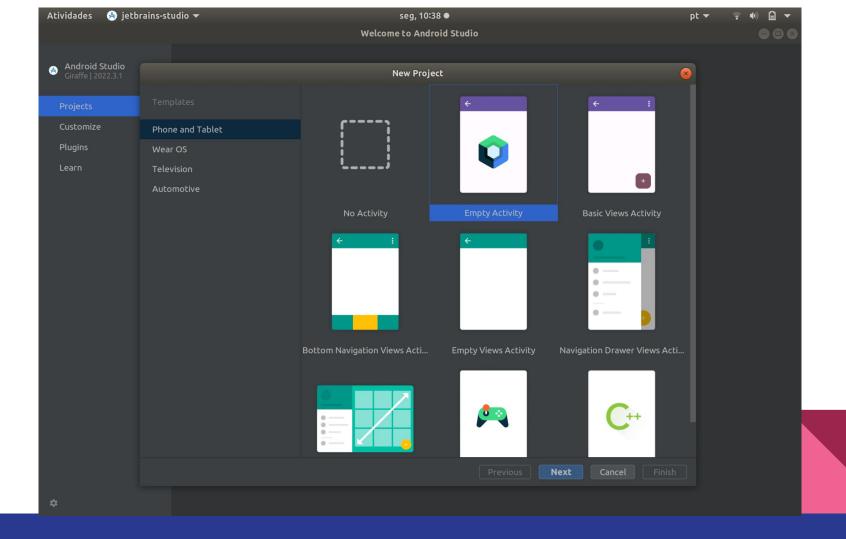
https://developer.android.com/studio

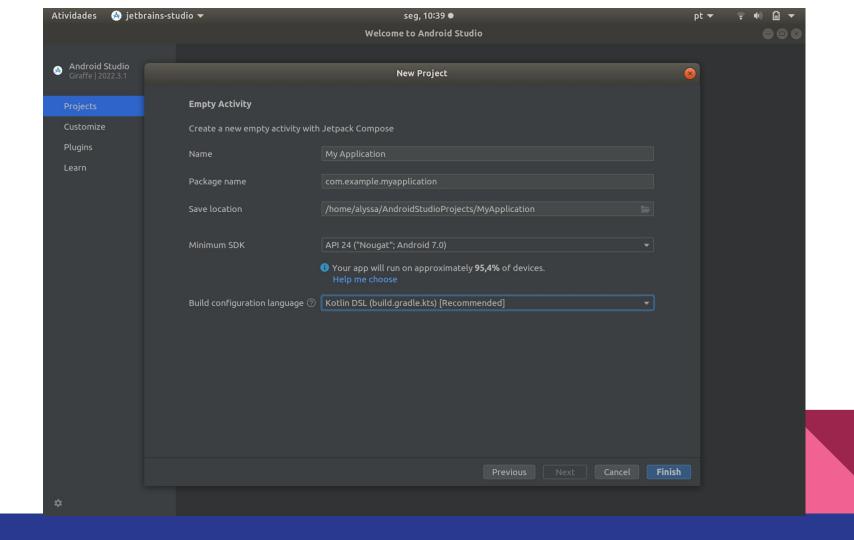
Passos iniciais

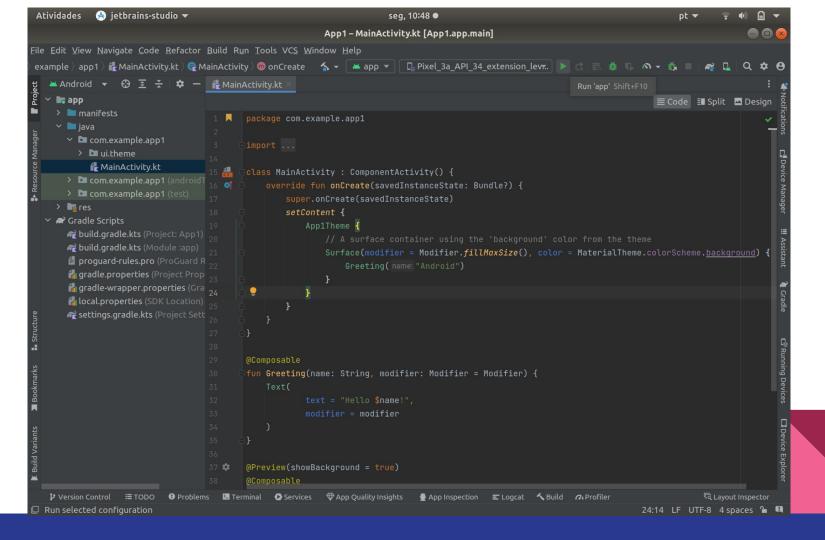


Passos iniciais



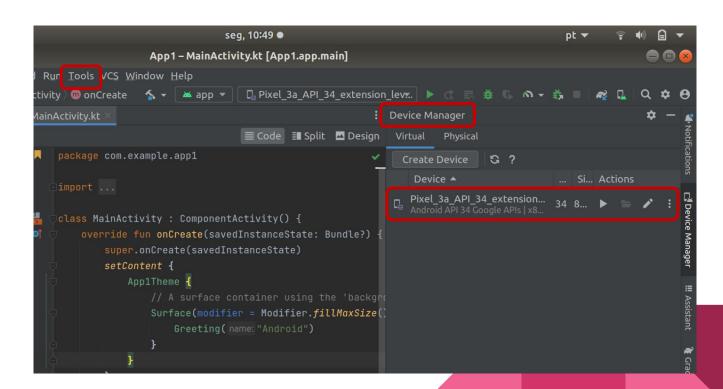


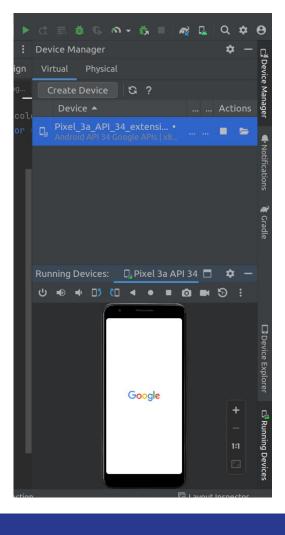




App no Emulador ou Celular

- Tools
- Device Manager







App no Emulador ou Celular

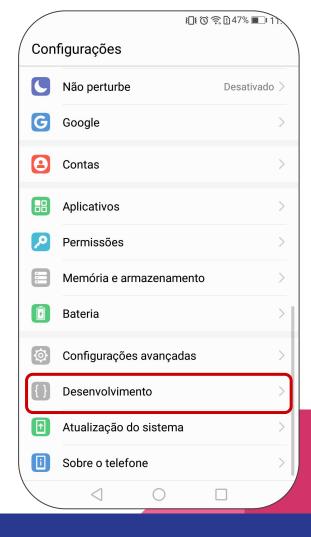




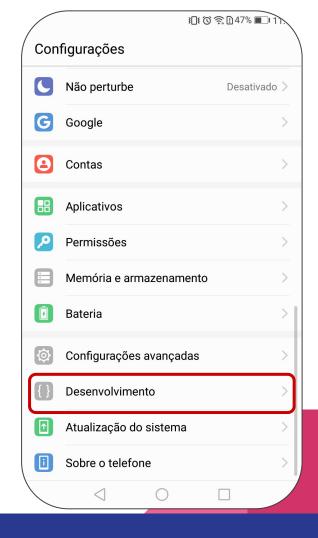


7~10 "clicks"

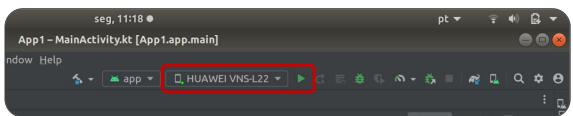


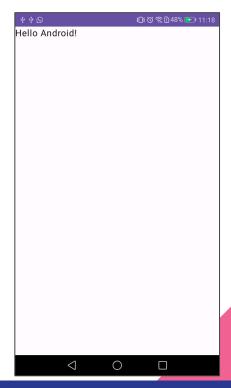








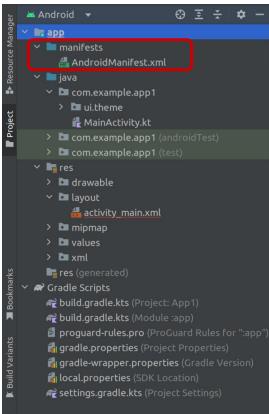




App1 - MainActivity.kt [App1.app.main] <u>File Edit View Navigate Code Refactor Build Run Tools VCS Window Help</u> App1) R build.gradle.kts Android ▼ ⊕ \(\overline{\pi}\) \(\overline{\pi} MainActivity.kt 🗸 📭 арр ■ Code ■ Split ▲ Design > manifests setContent -✓ ■ java App1Theme { ✓ □ com.example.app1 > 🖿 ui.theme Surface(modifier = Modifier.fillMaxSize(), color = MaterialTheme.colorScheme.background) # MainActivity.kt > 🖿 com.example.app1 (androi > com.example.app1 (test) > Tes res (generated) ₩ build.gradle.kts (Project: App1) ₩ build.gradle.kts (Module :app) proguard-rules.pro (ProGuard F fun Greeting(name: String, modifier: Modifier = Modifier) { 🚮 gradle.properties (Project Prop 🚮 gradle-wrapper.properties (Gr local.properties (SDK Location ***** -Run: 2023-08-14 11:18:43: Launching app on 'HUAWEI VNS-L22. \$ adb shell am start -n "com.example.app1/com.example.app1.MainActivity" -a android.intent.action.MAIN -c android.intent.category.LAUNCHER Starting: Intent { act=android.intent.action.MAIN cat=[android.intent.category.LAUNCHER] cmp=com.example.app1/.MainActivity } # Connected to process 8256 on device 'huawei_vns_l22-72V7N17506001031'. 1 Install successfully finished in 5 s 689 ms. App Inspection Install successfully finished in 5 s 689 ms. (moments ago) 18:21 LF UTF-8 4 spaces 🚡

seg, 11:18 •

Atividades (♠) jetbrains-studio ▼



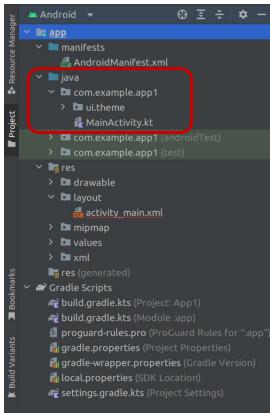
- AndroidManifest.xml
- Descreve informações essenciais do seu aplicativo

```
<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

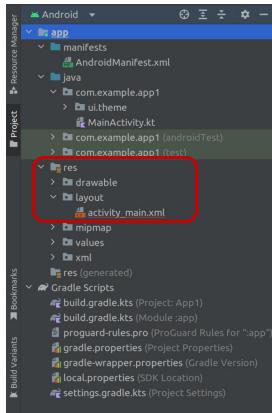
    <uses-feature android:name="android.hardware.camera.any"/>
    <uses-permission android:name="android.permission.CAMERA"/>
```

```
<application
android:name="com.chaquo.python.android.PyApplication"
android:allowBackup="true"</pre>
```

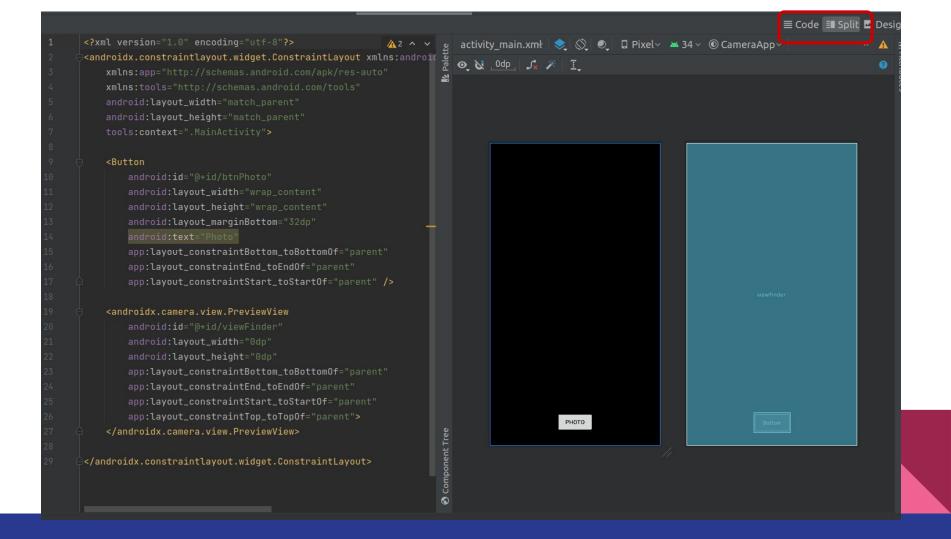


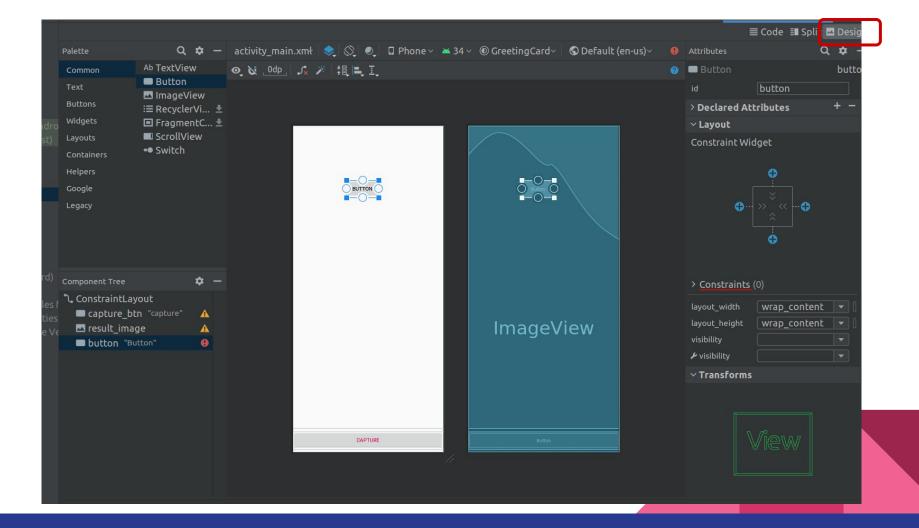
- MainActivity.kt
- Implementação do código do aplicativo

```
class MainActivity : ComponentActivity() {
   override fun onCreate(savedInstanceState: Bundle?) {
       setContent {
           App1Theme {
                   modifier = Modifier.fillMaxSize(),
fun Greeting(name: String, modifier: Modifier = Modifier) {
@Preview(showBackground = true)
```



- activity_main.xml
- Implementação do design do aplicativo



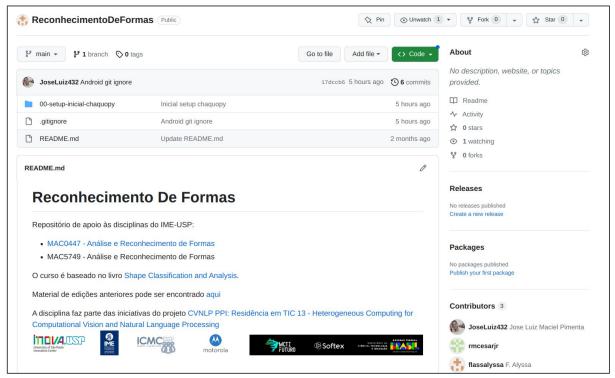




- Gradle Scripts
- Configurações de build do projeto

```
plugins {
   id 'com.chaquo.python' version '14.0.2' apply false
   id 'com.android.application' version '8.0.2' apply false
   id 'com.android.library' version '8.0.2' apply false
   id 'org.jetbrains.kotlin.android' version '1.7.20' apply false
python {
                                        ndk {
    version "3.8"
                                             abiFilters "armeabi-v7a", "x86"
    pip{
        install "opency-python"
        install "numpy"
```

Material de apoio



https://github.com/flassalyssa/ReconhecimentoDeFormas/