# Android Mobile Pentest 101

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## Lecture 10.1 – Creating Exploit: HelloWorld

Goal: Known how to code an android application

## Introduction

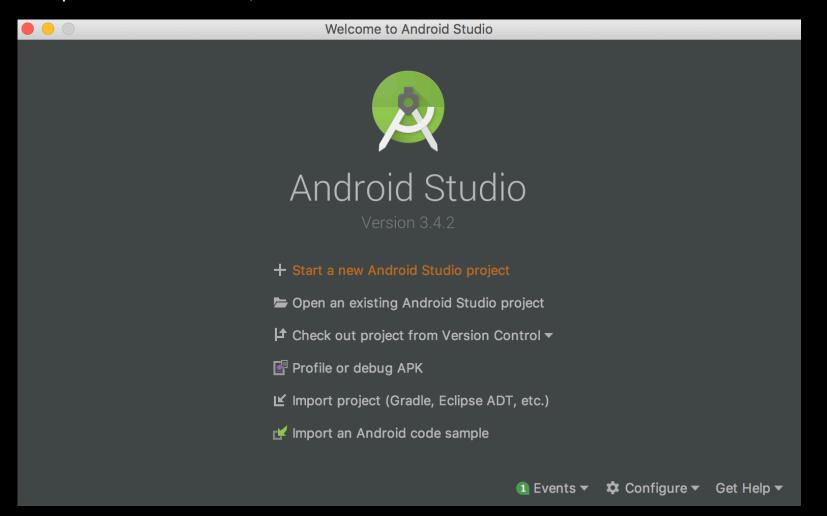
- This lecture will help you understand how to create an android app
- No worries, very basic starter ©

## Requirement

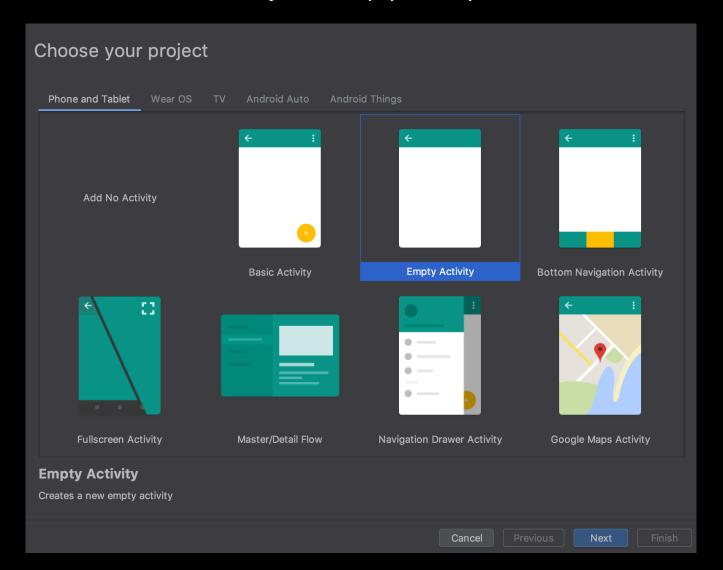
- Java Installed (java.com/download)
- Android Studio (developer.android.com/studio)



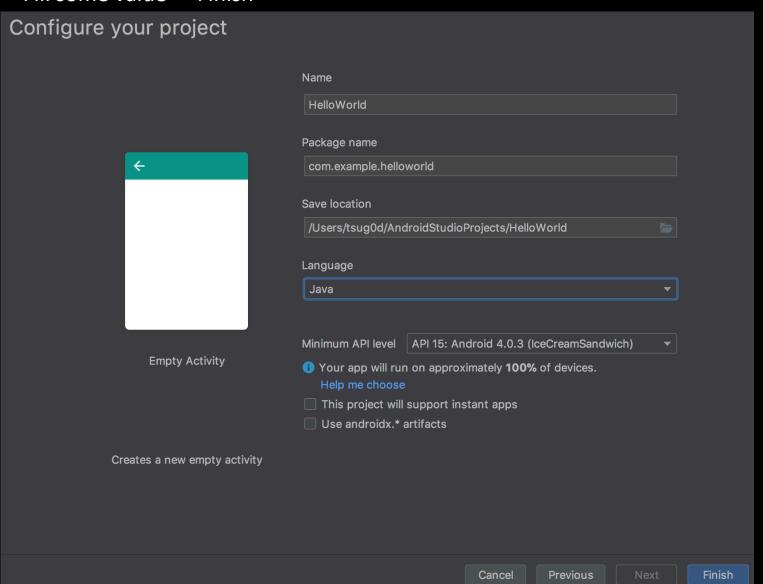
- Open Android Studio, looks like:



- File -> New -> New Project -> Empty Activity



- Fill some value -> Finish

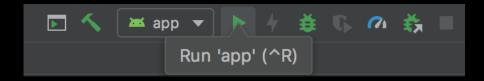


- Our code in this lecture is located in MainActivity.java

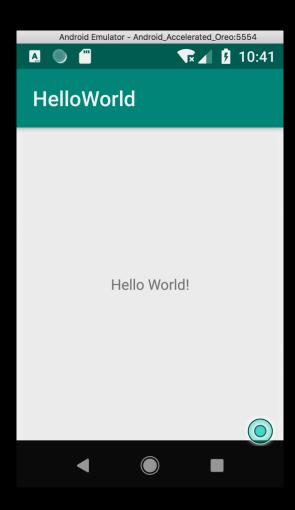
```
HelloWorld [~/AndroidStudioProjects/HelloWorld] - .../app/src/r
   HelloWorld
                                                             app | main | igua | com | com | com | log helloworld | com | com | log example | log helloworld | com | com | log example | log helloworld | log example | log helloworld | log example | log helloworld | log example | log example | log helloworld | log example | log exa
                                                                                                                                                                                                                                            activity_main.xml ×
                                                                                                                                                                                                                                                                                                                                C MainActivity.java
                 🖷 Android 🔻
1: Project
                                                                                                                                                                                                                                                                            package com.example.helloworld;
                      app
                       manifests
                                                                                                                                                                                                                                                                      import ....
                       ▼ Ijava
                                                                                                                                                                                                                                                                            public class MainActivity extends AppCompatActivity {
                                 ▼ com.example.helloworld
Resource Manager
                                                        MainActivity
                                                                                                                                                                                                                                                                                           @Override
                                 ► com.example.helloworld (androidTest)
                                                                                                                                                                                                                                             9 0
                                                                                                                                                                                                                                                                                            protected void onCreate(Bundle savedInstanceState) {
                                 ▶ com.example.helloworld (test)
                                                                                                                                                                                                                                                                                                             super.onCreate(savedInstanceState);
                                                                                                                                                                                                                                                                                                             setContentView(R.layout.activity_main);
                       generatedJava
                       res
                      Gradle Scripts
```

- We will code our very first app, Hello World!
- This will print "Hello World!" in android log (logcat)

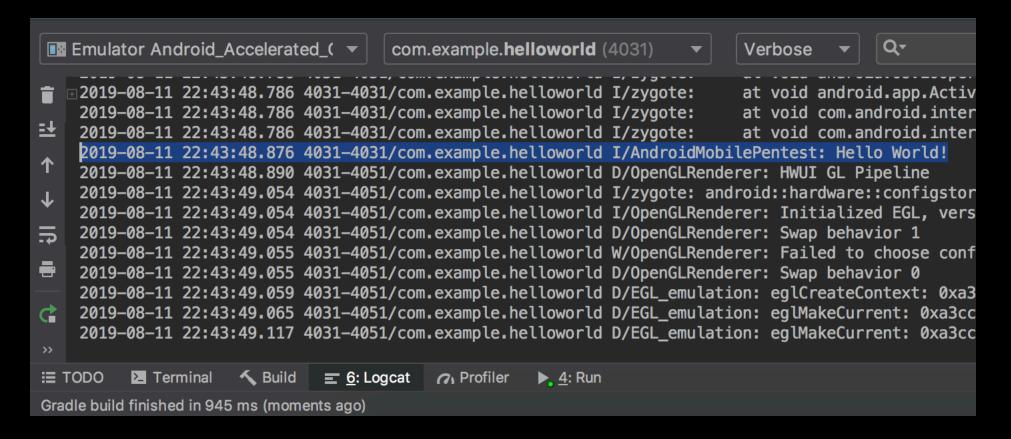
- Click here to run (you have to create emulator device first)



- Emulator will show your app!

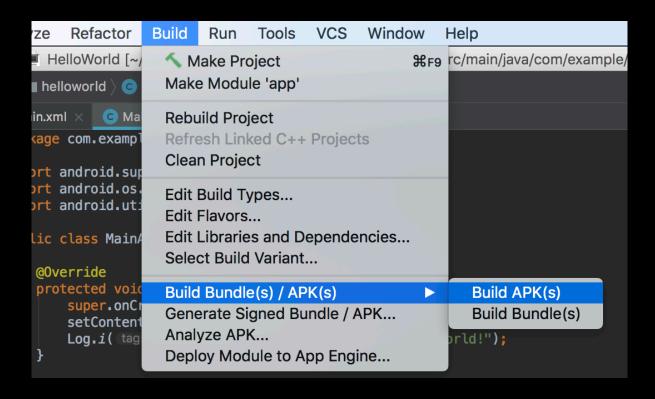


- Congratz! You've successfully developed your Hello World! app
- Your log code is printed here!



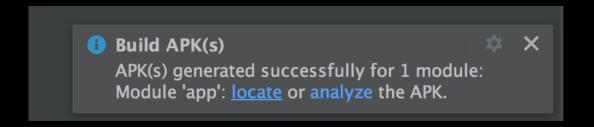
## Let's build apk!

- Now we need to export our code to apk file
- Build -> Build Bundle(s) / APK(s) -> Build APK(s)



## Let's build apk!

- If we build the apk successful, this popup will appear:



- Click "locate", we can come to our new apk folder, grab this and install everywhere we want © Note: To put it in Play Store, you have to sign your apk!