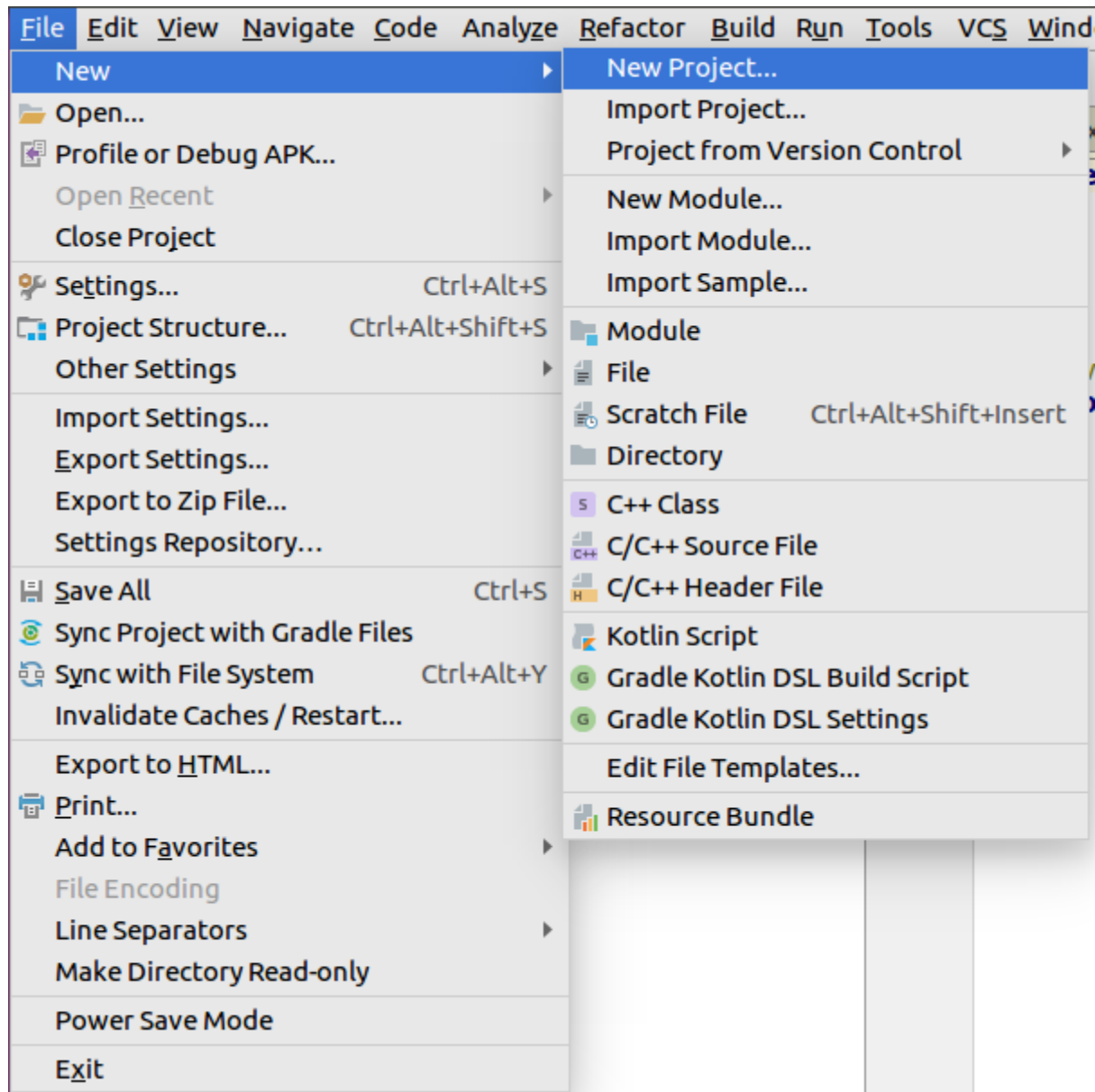


Hello Android

Innova Lee(이상훈)
gcccompil3r@gmail.com





Create Android Project

Application name

Company domain

Project location

Package name

- ☐ Include C++ support
- ☐ Include Kotlin support



Target Android Devices

Select the form factors and minimum SDK

Some devices require additional SDKs. Low API levels target more devices, but offer fewer API features.

☒ **Phone and Tablet**

API 15: Android 4.0.3 (IceCreamSandwich)

By targeting **API 15 and later**, your app will run on approximately **100%** of devices.

[Help me choose](#)

☐ Include Android Instant App support

☐ **Wear**

API 21: Android 5.0 (Lollipop)

☐ **TV**

API 21: Android 5.0 (Lollipop)

☐ **Android Auto**

☐ **Android Things**

API 24: Android 7.0 (Nougat)

Previous

Next

Cancel

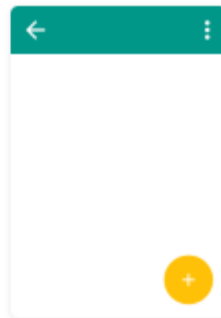
Finish



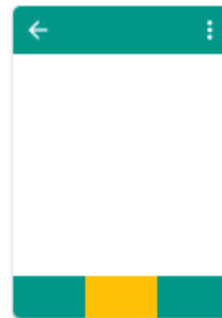
Add an Activity to Mobile



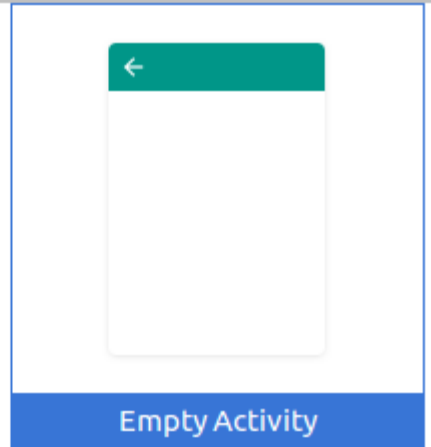
Add No Activity



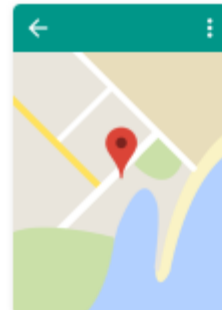
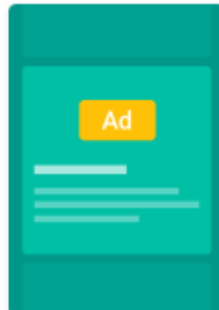
Basic Activity



Bottom Navigation Activity



Empty Activity



Previous

Next

Cancel

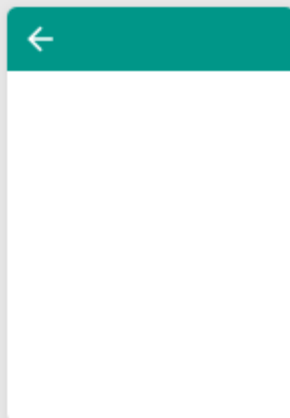
Finish



Configure Activity



Creates a new empty activity



Activity Name:

☒ Generate Layout File

Layout Name:

☒ Backwards Compatibility (AppCompat)

The name of the activity class to create

Previous

Next

Cancel

Finish



Component Installer

Installing Requested Components

SDK Path: /home/sdr/Android/Sdk

```
"Install ConstraintLayout for Android 1.0.2 (revision: 1)" ready.  
Installing Solver for ConstraintLayout 1.0.2 in  
/home/sdr/Android/Sdk/extras/m2repository/com/android/support/constraint/constraint-layout-s  
olver/1.0.2  
"Install Solver for ConstraintLayout 1.0.2 (revision: 1)" complete.  
Writing Maven metadata to  
/home/sdr/Android/Sdk/extras/m2repository/com/android/support/constraint/constraint-layout-s  
olver/maven-metadata.xml  
"Install Solver for ConstraintLayout 1.0.2 (revision: 1)" finished.  
Installing ConstraintLayout for Android 1.0.2 in  
/home/sdr/Android/Sdk/extras/m2repository/com/android/support/constraint/constraint-layout/1  
.0.2  
"Install ConstraintLayout for Android 1.0.2 (revision: 1)" complete.  
Writing Maven metadata to  
/home/sdr/Android/Sdk/extras/m2repository/com/android/support/constraint/constraint-layout/m  
aven-metadata.xml  
"Install ConstraintLayout for Android 1.0.2 (revision: 1)" finished.
```

Done

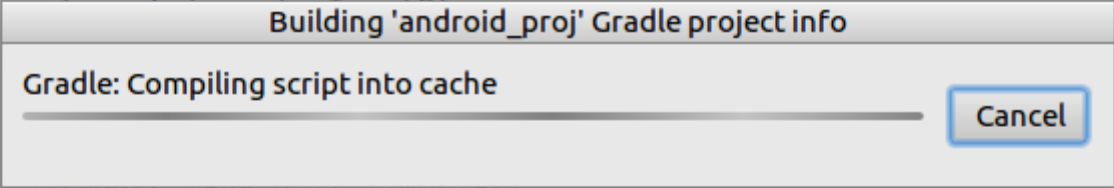
Previous

Next

Cancel

Finish

```
10 import android.util.Log;
11 import android.view.MotionEvent;
12 import android.view.View;
13 import android.widget.Button;
14 import android.widget.CompoundButton;
15 import android.widget.EditText;
16 import android.widget.SeekBar;
17 import android.widget.Switch;
18 import android.widget.TextView;
19 import android.widget.Toast;
20
21 import java.io.DataOutputStream;
22
23
24
25
26
27 import java.util.TimerTask;
28
29 public class MainActivity extends AppCompatActivity {
30     public EditText ip, port, tx_msg, rx_msg;
31     public Button connect_btn, disconnect_btn, send_btn, send_
32     public TextView vel;
33     public SeekBar ang_seek;
34     public TextView seek_test;
35     public String msg, rcv;
36     public Socket socket;
```



android_proj

Project

1: Project

Structure

Captures

android_proj

~/project/VehicleIntegrationRepo/android_pr

.gradle

.idea

app

build

libs

src

androidTest

main

java

com.example.sdr.helloandroid

MainActivity

res

AndroidManifest.xml

test

.gitignore

app.iml

build.gradle

proguard-rules.pro

gradle

.gitignore

android_proj.iml

build.gradle

gradle.properties

gradlew

gradlew.bat

local.properties

settings.gradle

activity_main.xml

MainActivity.java

```
1 package com.example.sdr.helloandroid;
2
3 import ...
4
5
6 public class MainActivity extends AppCompatActivity {
7
8     @Override
9     protected void onCreate(Bundle savedInstanceState) {
10         super.onCreate(savedInstanceState);
11         setContentView(R.layout.activity_main);
12     }
13 }
14
```

MainActivity.java × activity_main.xml × ExampleInstrumentedTest.java ×

1 <?xml version="1.0" encoding="utf-8"?>
2 <android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res-auto"
3 xmlns:app="http://schemas.android.com/apk/res-auto"
4 xmlns:tools="http://schemas.android.com/tools"
5 android:layout_width="match_parent"
6 android:layout_height="match_parent"
7 tools:context=".MainActivity">
8
9 <TextView
10 android:layout_width="wrap_content"
11 android:layout_height="wrap_content"
12 android:text="Hello Android!"
13 app:layout_constraintBottom_toBottomOf="parent"
14 app:layout_constraintLeft_toLeftOf="parent"
15 app:layout_constraintRight_toRightOf="parent"
16 app:layout_constraintTop_toTopOf="parent" />
17
18 </android.support.constraint.ConstraintLayout>

android.support.constraint.ConstraintLayout > TextView

Design Text

