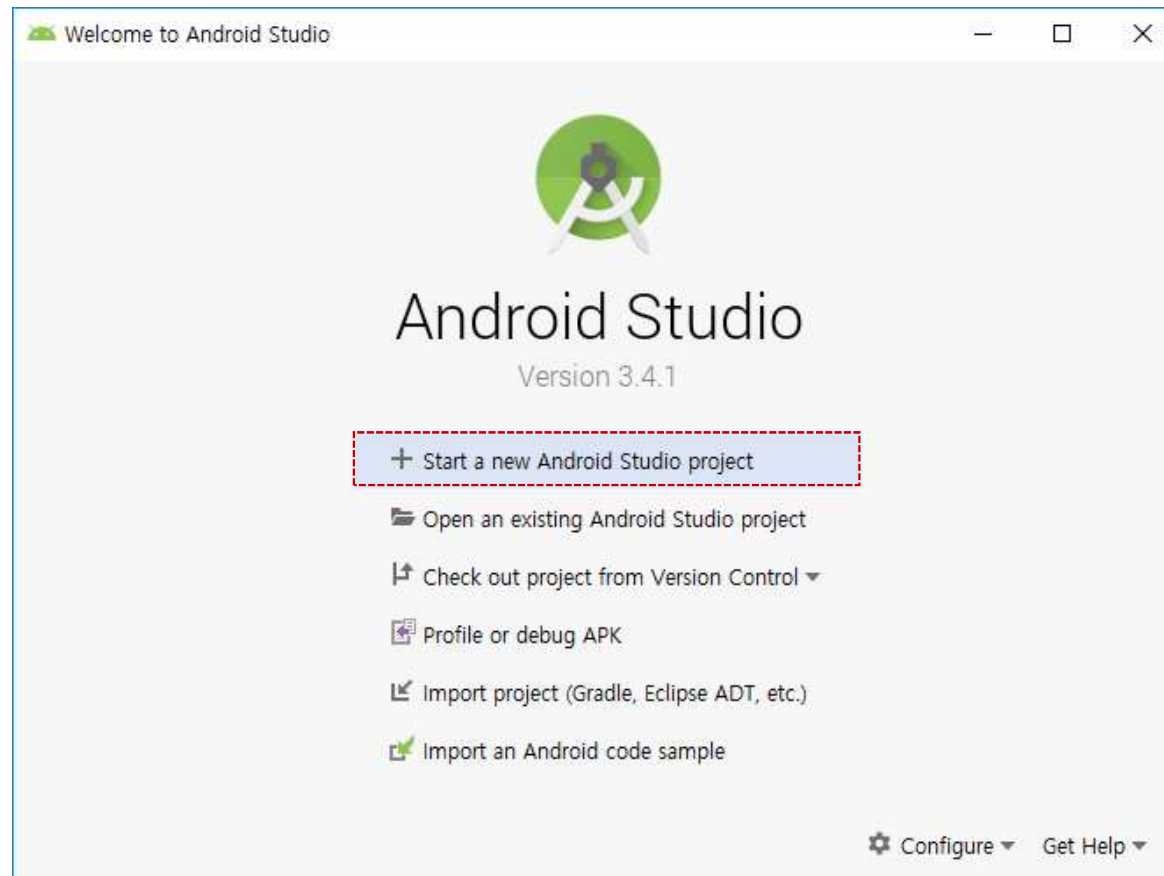


첫 번째 앱 만들고 실행하기

프로젝트 생성



Choose your project

Phone and Tablet

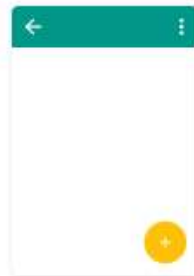
Wear OS

TV

Android Auto

Android Things

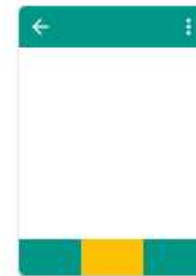
Add No Activity



Basic Activity



Empty Activity



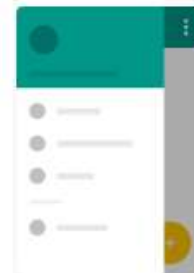
Bottom Navigation Activity



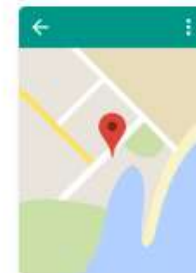
Fullscreen Activity



Master/Detail Flow



Navigation Drawer Activity



Google Maps Activity

Empty Activity

Creates a new empty activity

Previous

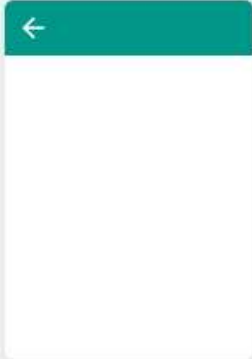
Next

Cancel

Finish

Create New Project

Configure your project



Empty Activity

Creates a new empty activity

Name
AndroidLab

Package name
com.example.user.androidlab

Save location
C:\Users\jwchoi\AndroidStudioProjects\AndroidLab

Language
Java

Minimum API level
API 15: Android 4.0.3 (IceCreamSandwich)

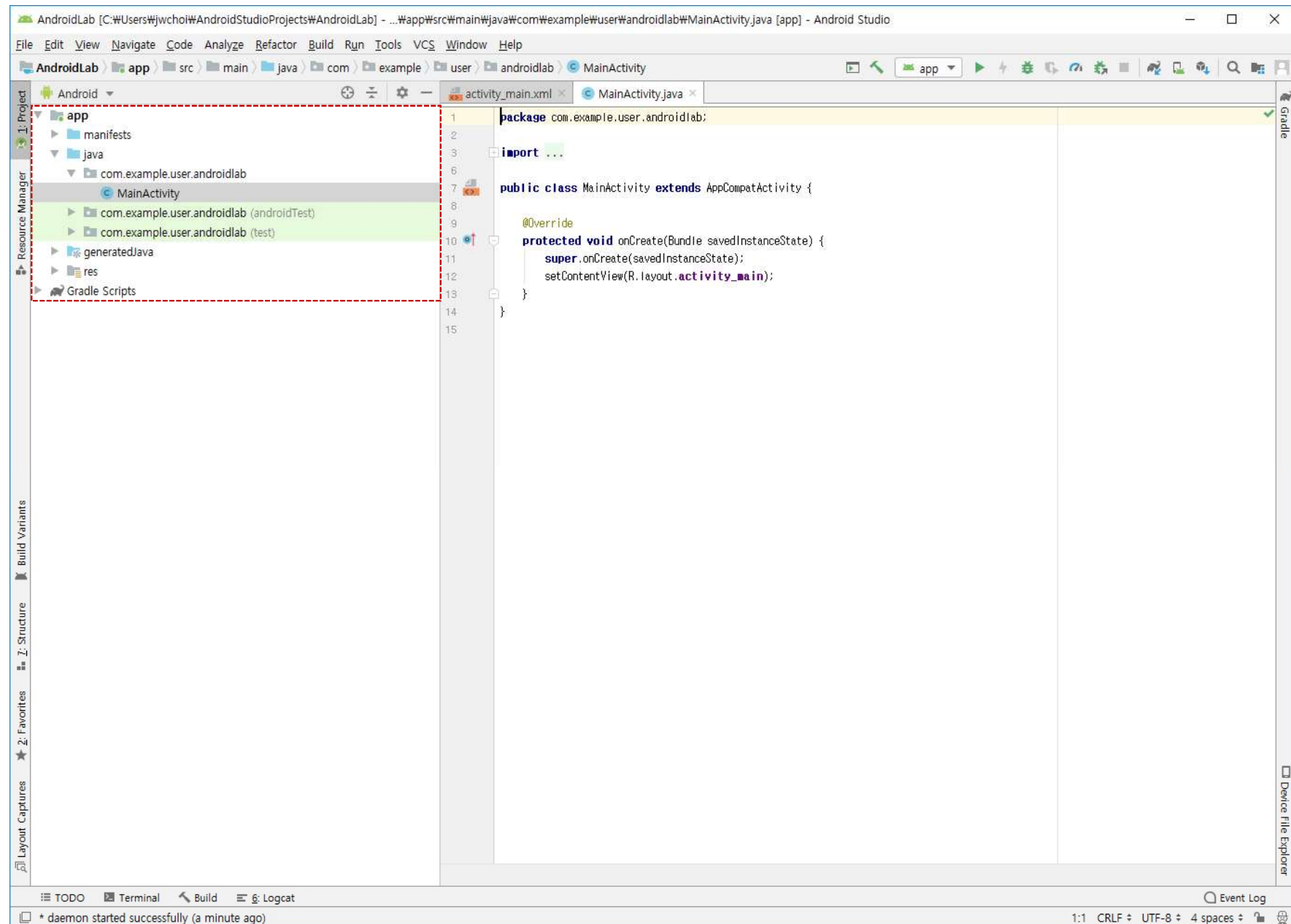
i Your app will run on approximately **100%** of devices.
[Help me choose](#)

☐ This project will support instant apps

☒ Use androidx.* artifacts

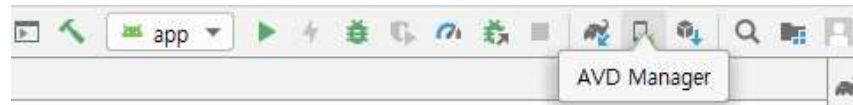
Previous Next Cancel Finish

"당신이 개발하려는 앱은 최소 몇 버전의 안드로이드까지 지원하나요?"



AVD 매니저

- AVD (Android Virtual Device)
 - 에뮬레이터
 - 테스트용 가상 기기





Your Virtual Devices

Android Studio



Virtual devices allow you to test your application without having to own the physical devices.

+ Create Virtual Device...

To prioritize which devices to test your application on, visit the [Android Dashboards](#), where you can get up-to-date information on which devices are active in the Android and Google Play ecosystem.



Select Hardware

Android Studio

Choose a device definition



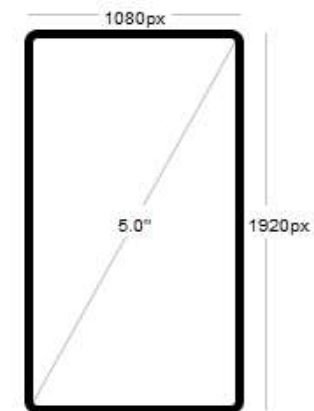
| Category | Name ▾ | Play Store | Size | Resolution | Density |
|----------|------------|------------|-------|------------|---------|
| TV | Pixel XL | | 5.5" | 1440x2560 | 560dpi |
| Phone | Pixel 3 XL | | 6.3" | 1440x2960 | 560dpi |
| Wear OS | Pixel 3 | | 5.46" | 1080x2160 | 440dpi |
| Tablet | Pixel 2 XL | | 5.99" | 1440x2880 | 560dpi |
| | Pixel 2 | | 5.0" | 1080x1920 | 420dpi |
| | Pixel | | 5.0" | 1080x1920 | 420dpi |
| | Nexus S | | 4.0" | 480x800 | hdpi |
| | Nexus One | | 3.7" | 480x800 | hdpi |
| | Nexus 6P | | 5.7" | 1440x2560 | 560dpi |

New Hardware Profile

Import Hardware Profiles



Pixel 2



Size: large
Ratio: long
Density: 420dpi

Clone Device...

Previous


Next

Cancel

Finish

Help

Virtual Device Configuration



System Image

←리눅스 시스템 이미지

Android Studio

Select a system image


Recommended

x86 Images

Other Images

| Release Name | API Level | ABI | Target |
|---------------------------------|-----------|-----|-----------------------------|
| Q Download | 29 | x86 | Android 9.0 (Google Play) |
| Pie Download | 28 | x86 | Android 9.0 (Google Play) |
| Oreo Download | 27 | x86 | Android 8.1 (Google Play) |
| Oreo Download | 26 | x86 | Android 8.0 (Google Play) |
| Nougat Download | 25 | x86 | Android 7.1.1 (Google Play) |
| Nougat Download | 24 | x86 | Android 7.0 (Google Play) |

하드웨어 가속 기능: AVD 구동을 빠르게 해줌



API Level

29

Android

9.0

Google Inc.

System Image

x86

Recommendation

HAXM is not installed.

[Install Haxm](#)

We recommend these Google Play images because this device is compatible with Google Play.

A system image must be selected to continue.

Previous

Next

Cancel

Finish

Help



Android Virtual Device (AVD)

Android Studio

Verify Configuration

AVD Name Pixel 2 API 29



Pixel 2

5.0 1080x1920 xxhdpi

Change...



Q

Android 9.+ x86

Change...

Startup orientation



Portrait



Landscape

Emulated
Performance

Graphics: Automatic

Device Frame ☒ Enable Device Frame

Show Advanced Settings

AVD Name

The name of this AVD.

Previous

Next

Cancel

Finish

Help



Android Virtual Device (AVD)

Android Studio

Verify Configuration

(no snapshots) ▼

☒ Multi-Core CPU 2 ▼

Memory and Storage

| | | |
|-------------------|---|------|
| RAM: | 1536 | MB ▼ |
| VM heap: | 256 | MB ▼ |
| Internal Storage: | 2048 | MB ▼ |
| SD card: | <input checked="" type="radio"/> Studio-managed 512 MB ▼ <input type="radio"/> External file | |

Device Frame ☒ Enable Device Frame

Custom skin definition pixel_2 ▼

Keyboard ☒ Enable keyboard input

Lets you enter text and interact with the AVD using your hardware computer keyboard in addition to the on-screen soft keyboard.

Enable keyboard input

Lets you enter text and interact with the AVD using your hardware computer keyboard in addition to the on-screen soft keyboard.

Hide Advanced Settings

Previous


Next

Cancel

Finish






Help

Android Virtual Device Manager





Your Virtual Devices

Android Studio

| Type | Name | Play Store | Resolution | API | Target | CPU/ABI | Size on Disk | |
|---|----------------|---|---------------------|-----|----------------------------|---------|--------------|--|
|  | Pixel 2 API 29 |  | 1080 x 1920: 420dpi | 29 | Android 9.0+ (Google Play) | x86 | 8.7 GB | <div></div> |

+ Create Virtual Device...



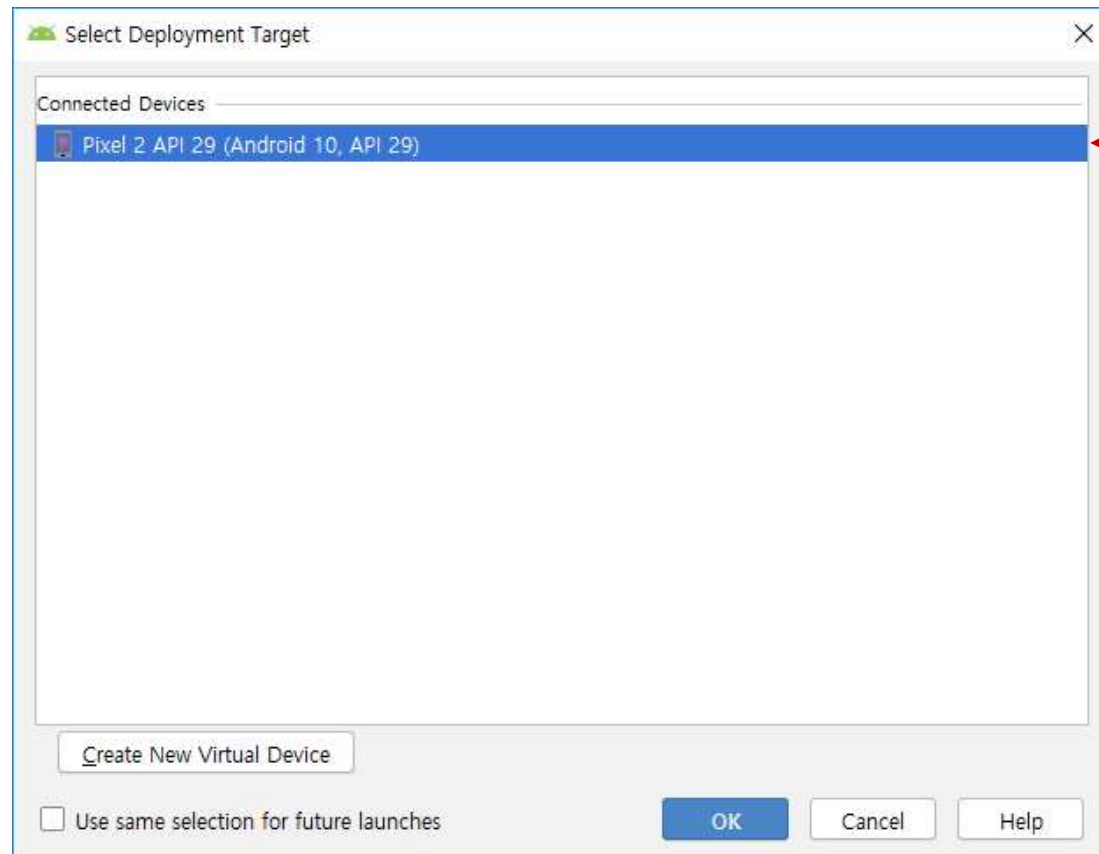
Launch this AVD in the emulator



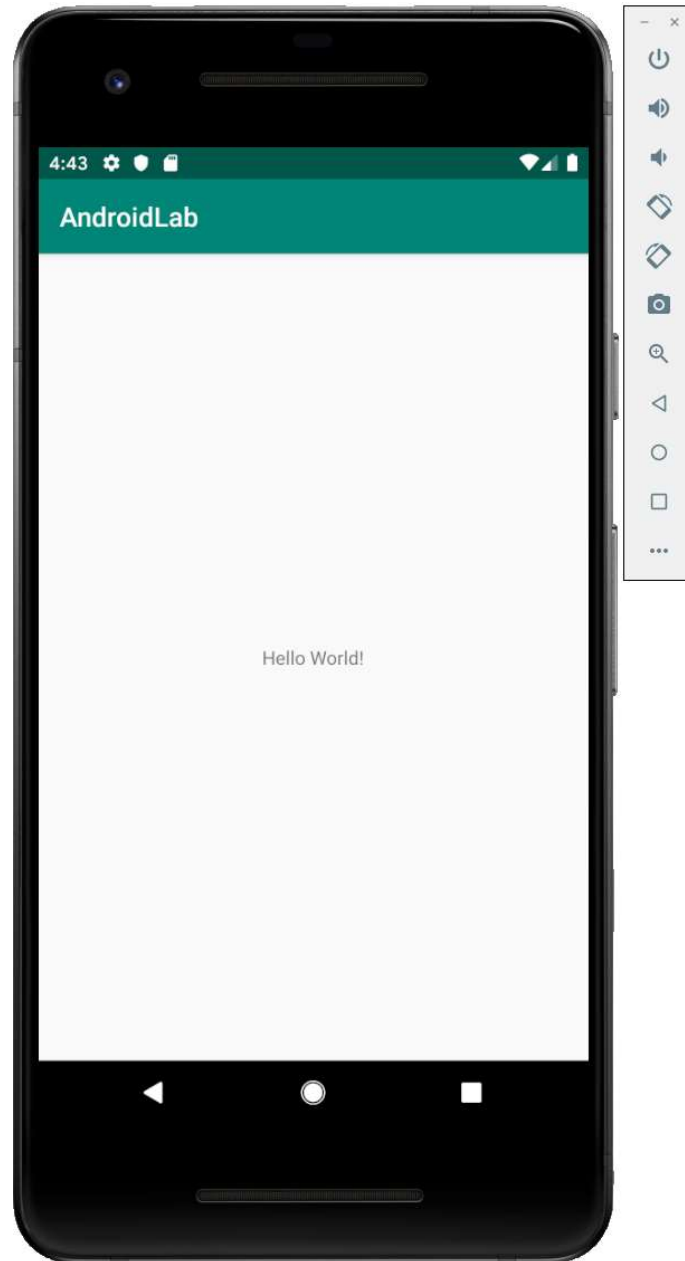
AVD에서 실행

실행하려는 모듈을 선택

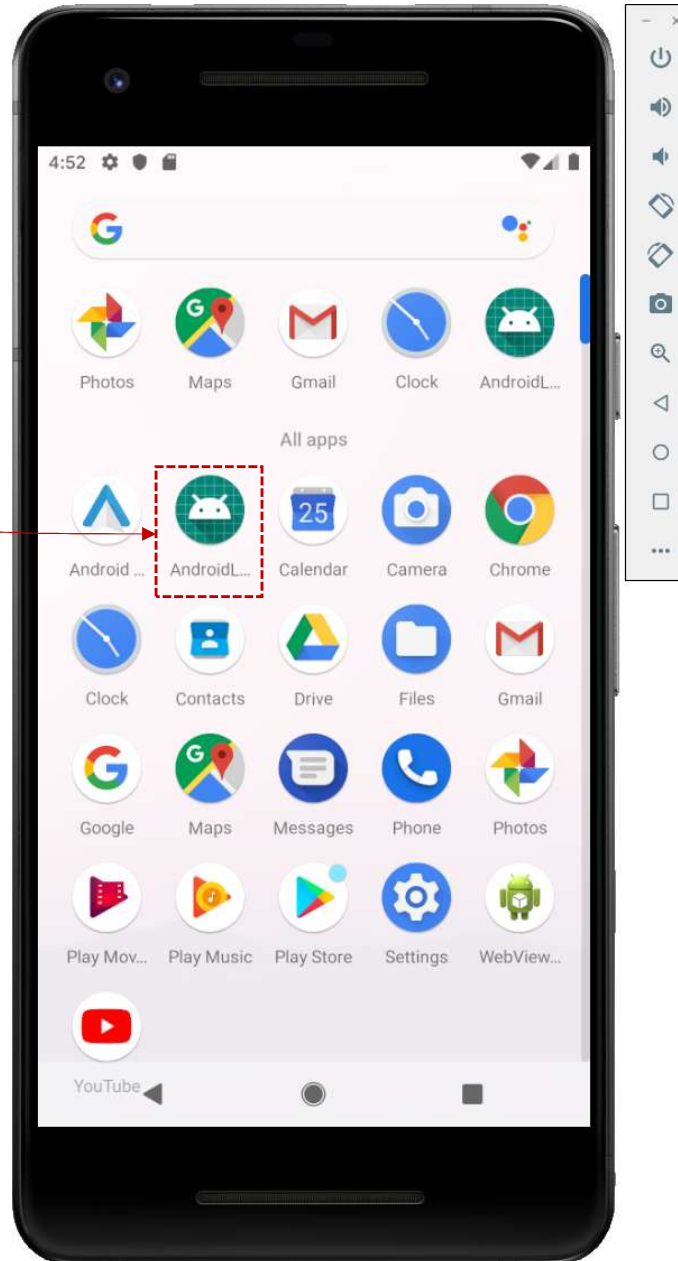




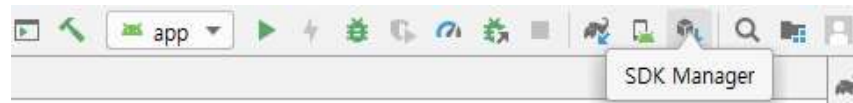
실행 기기 선택



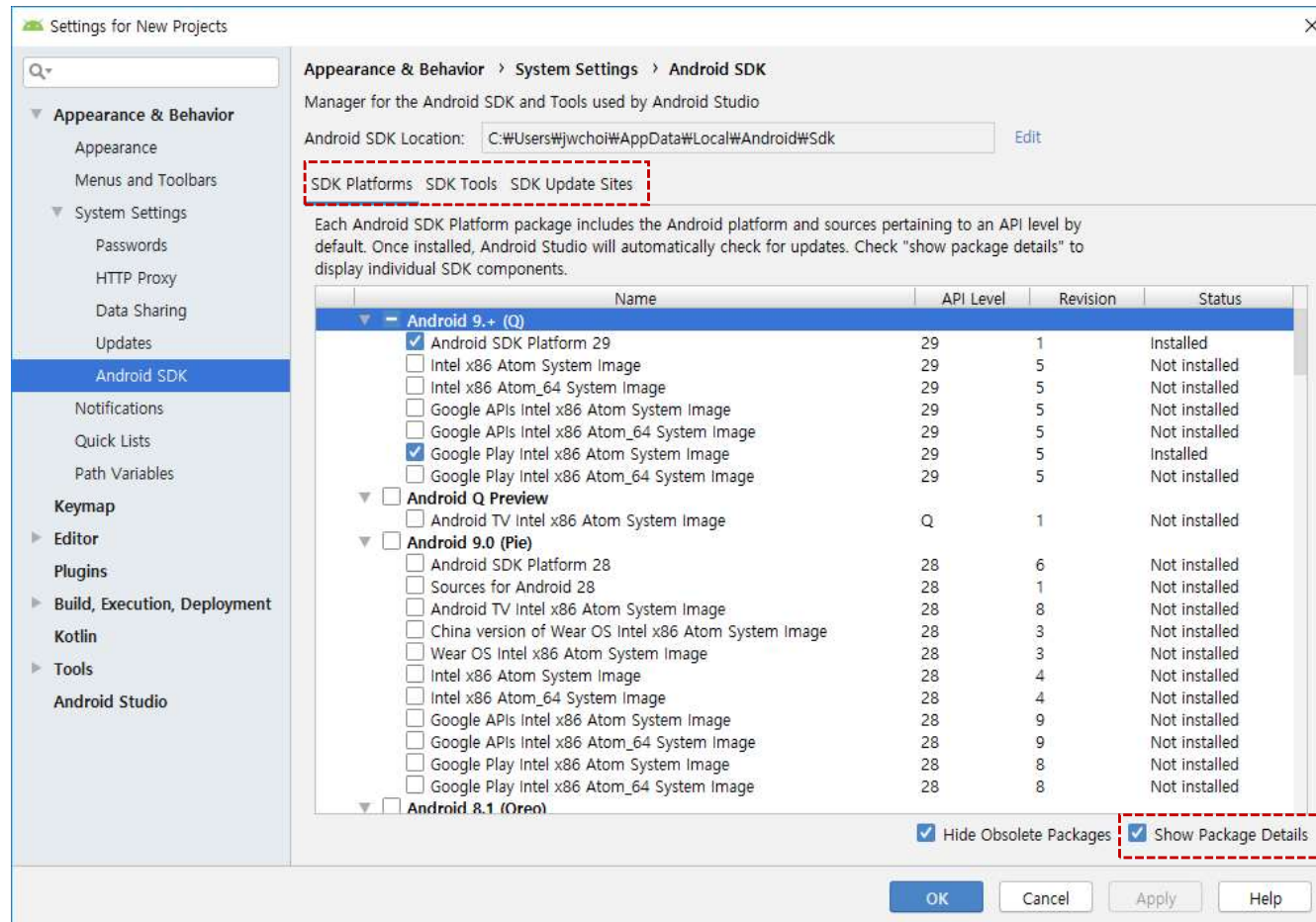
방금 실행한 앱이 설치된 것



개발 편의를 위한 설정 – SDK 매니저 확인

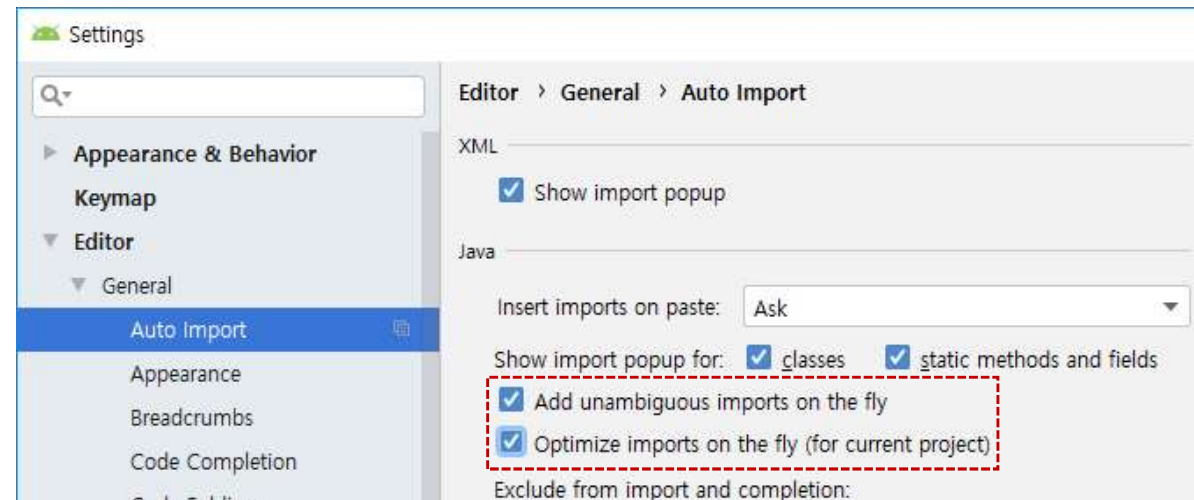
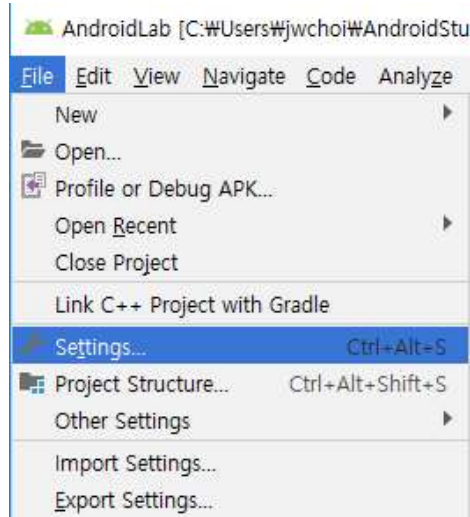


개발 편의를 위한 설정 – SDK 매니저 확인



개발 편의를 위한 설정 - 자동 импорт 설정

코드 개발 시 import 구문을 위한 단축키(Ctrl + Shift + O)를 누르지 않아도 됨



개발 편의를 위한 설정 - 로그캣 필터링

