

Mobile Programming




IDE Setup


Download Android Studio

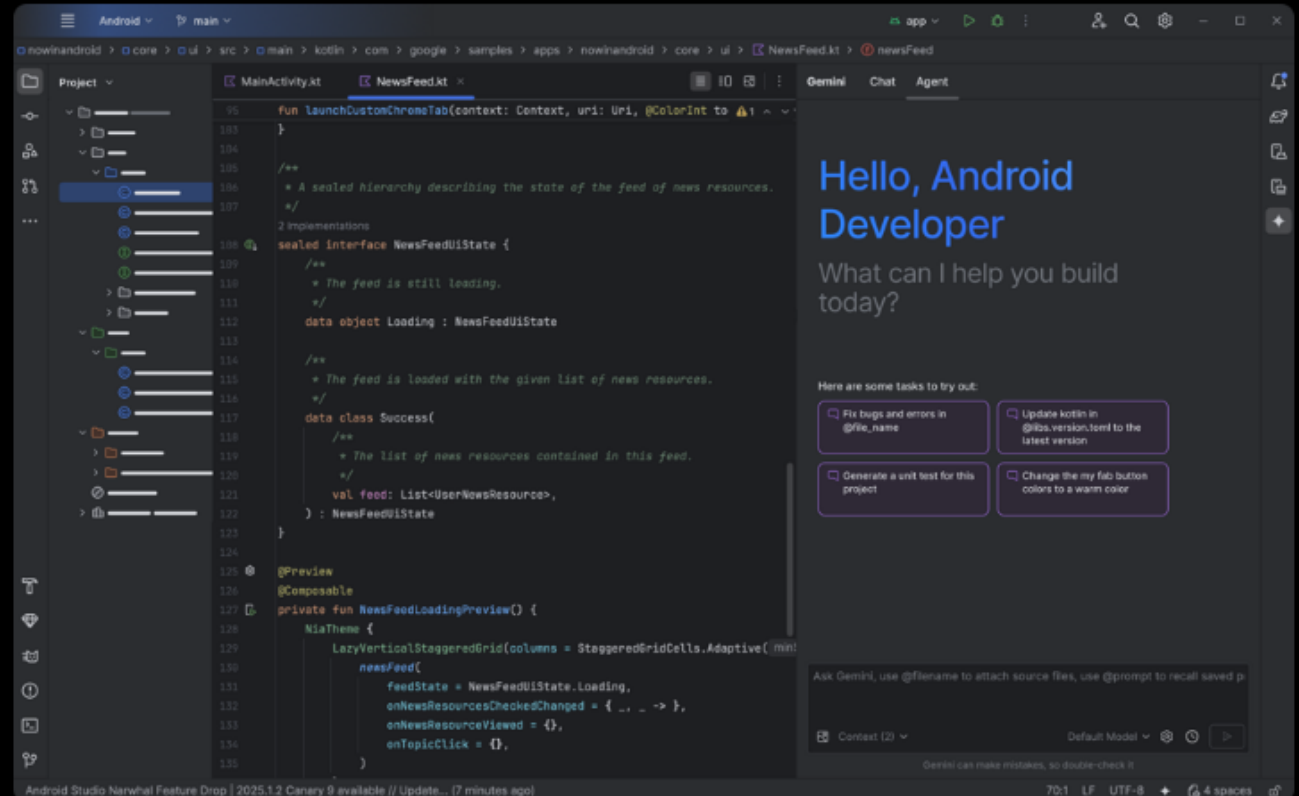
■ Download Android Studio & App Tools - Android Developers

Android Studio

The official IDE for Android app development now accelerates your productivity with Gemini in Android Studio, your AI-powered coding companion.

Download Android Studio Narwhal Feature Drop 

Read release notes 



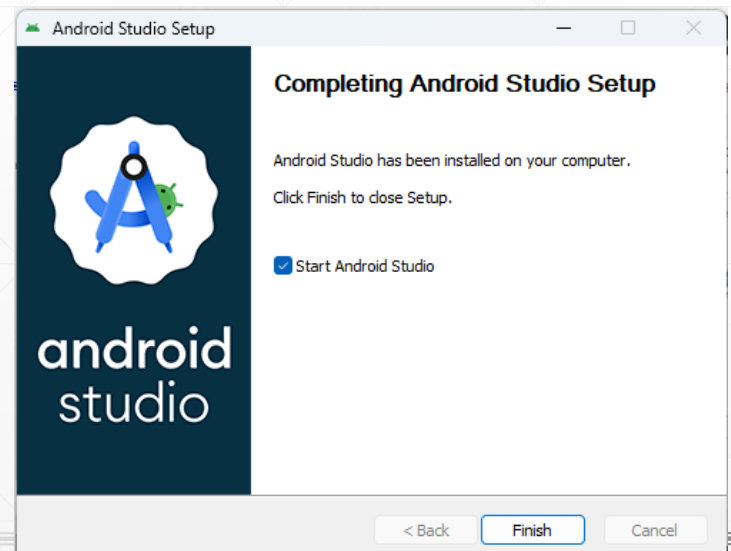
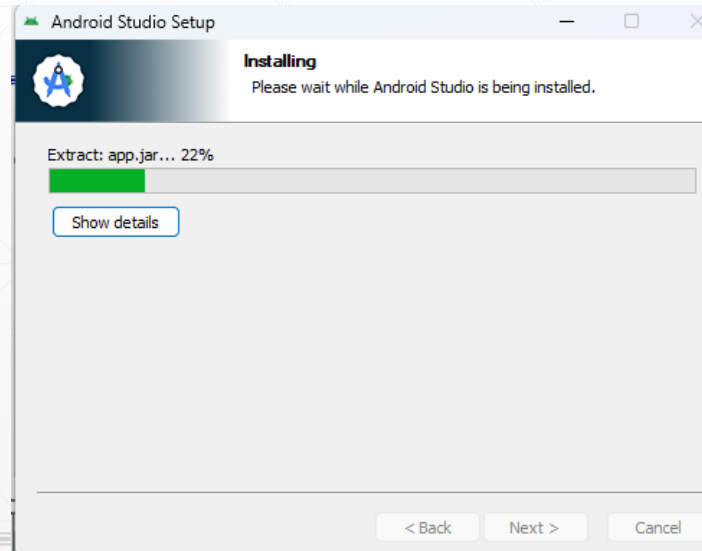
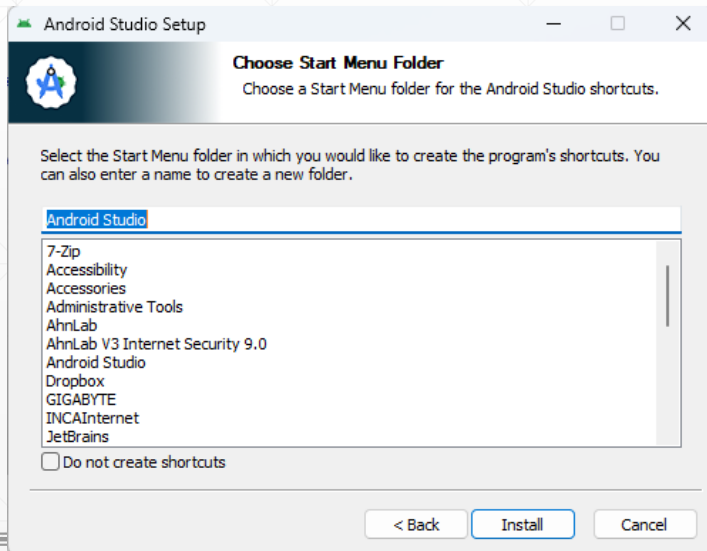
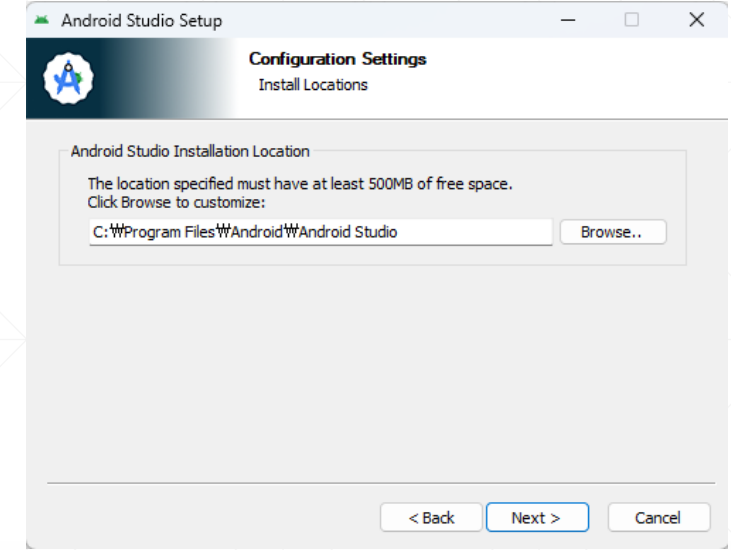
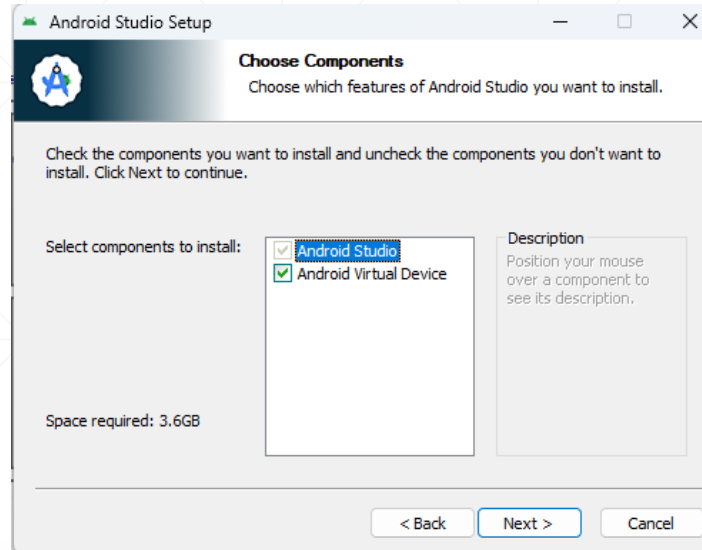
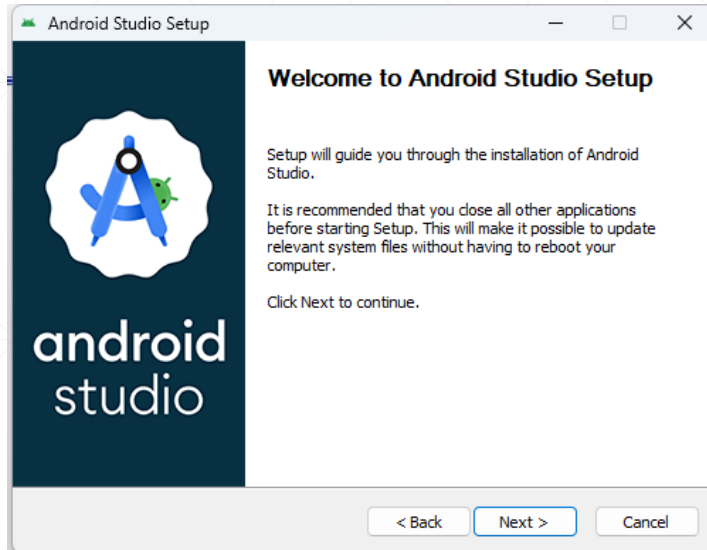
Download Android Studio

Android Studio downloads

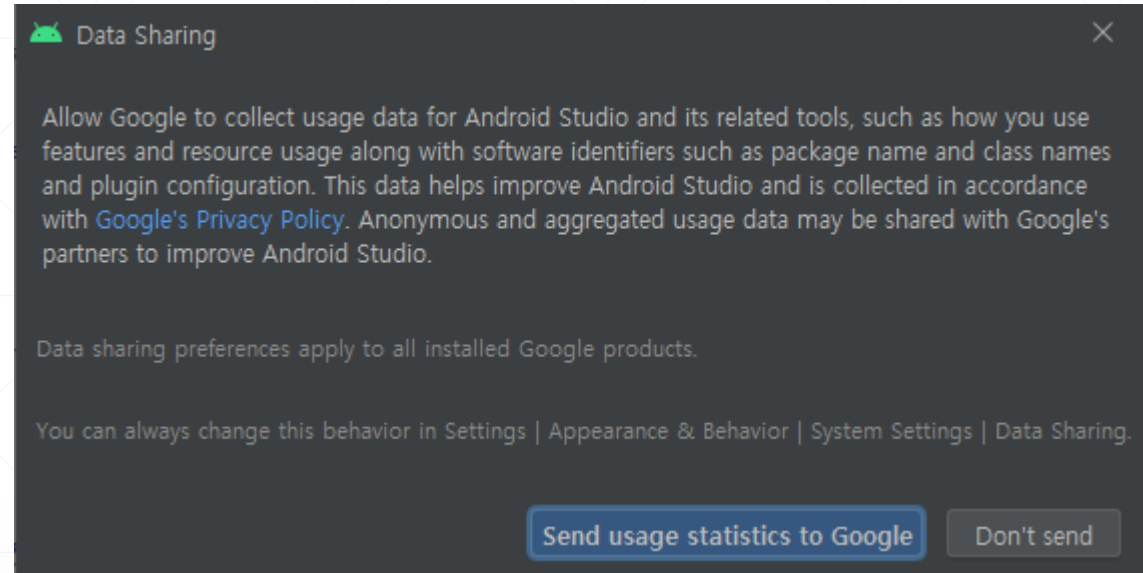
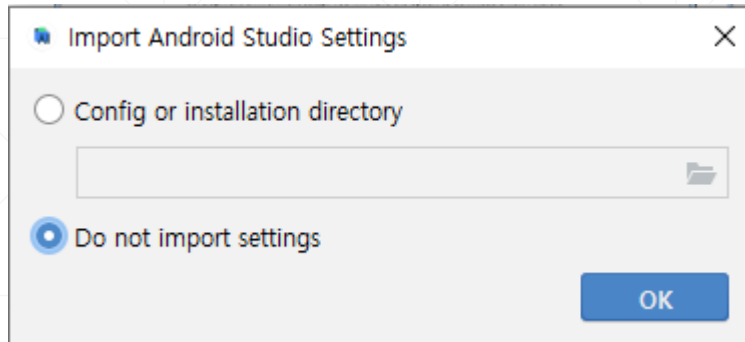
Download the latest version of Android Studio. For more information, see the [Android Studio release notes](#).

| Platform | Android Studio package | Size | SHA-256 checksum |
|-------------------|-----------------------------------------------------------------------------|--------|------------------------------------------------------------------|
| Windows (64-bit) | android-studio-2025.1.2.13-windows.exe Recommended | 1.5 GB | 4437d3caf5b6d08b29c1012c17762bff22416a6d418a7aaf997c489a588dd750 |
| Windows (64-bit) | android-studio-2025.1.2.13-windows.zip No .exe installer | 1.5 GB | 40855604cd8998fab134569805f40ffeb4332d067346453c0d477eca7297fe69 |
| Mac (64-bit) | android-studio-2025.1.2.13-mac.dmg | 1.6 GB | 5eff5c9862b96a7c8a5fb89a68d97cff767ec731379b5190030a0d481c612298 |
| Mac (64-bit, ARM) | android-studio-2025.1.2.13-mac_arm.dmg | 1.5 GB | d28f2c0382f7347b910bbeea2e9b99c14e1658a16e2a667938f763df1c68ee6f |
| Linux (64-bit) | android-studio-2025.1.2.13-linux.tar.gz | 1.5 GB | 9fb9f7e734ab4fefe3c3e2cc02a6d00194252f1a8fc64c77c529a79d313efebb |
| ChromeOS | android-studio-2025.1.2.13-cros.deb | 1.2 GB | 7e499641067d561f38e0f355950362facac800dd6b2cc03269b082ea9e2866f8 |

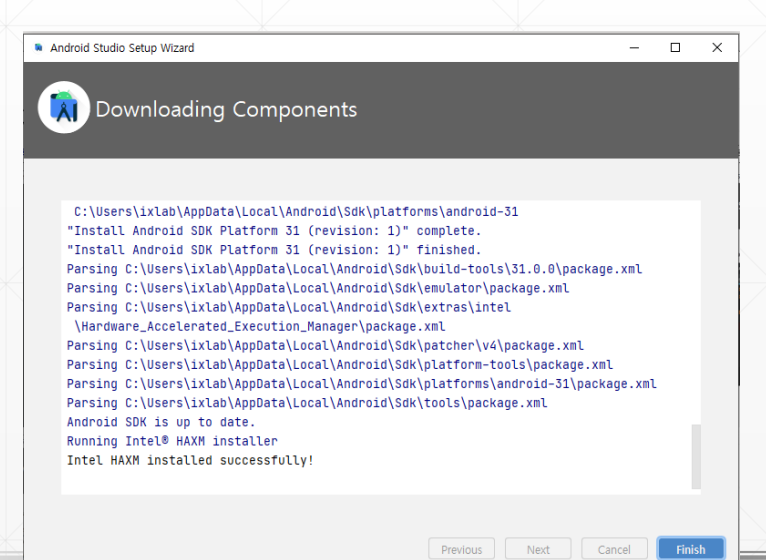
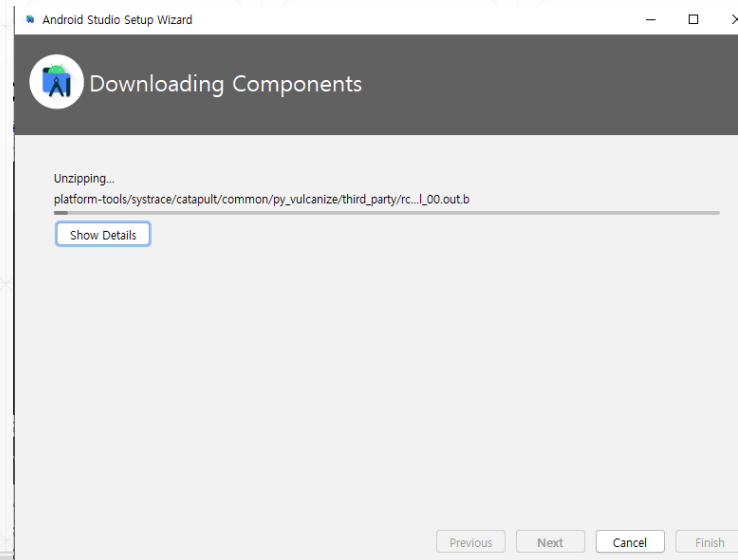
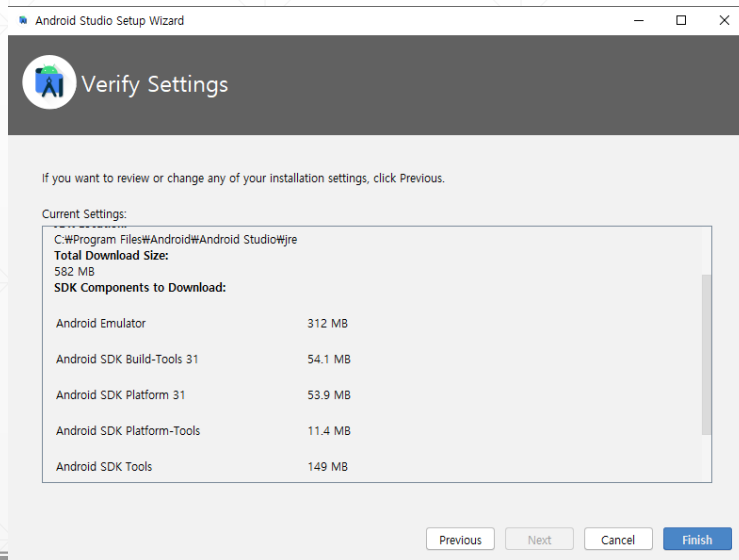
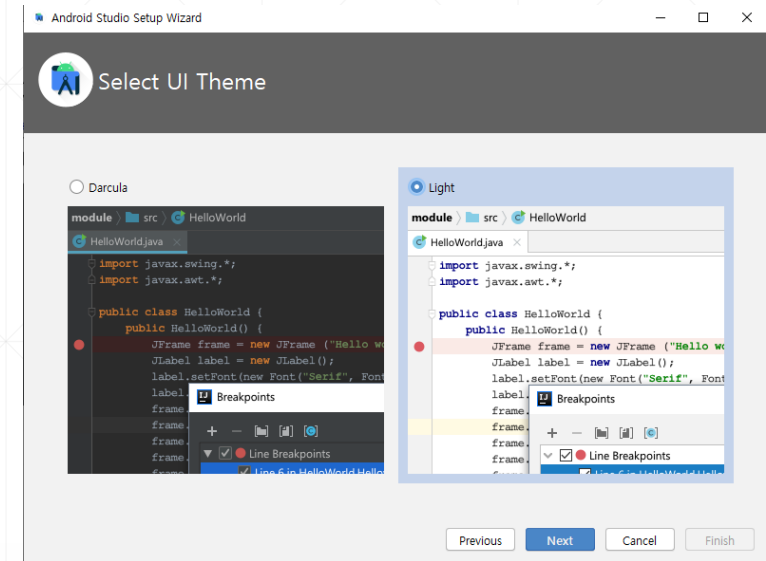
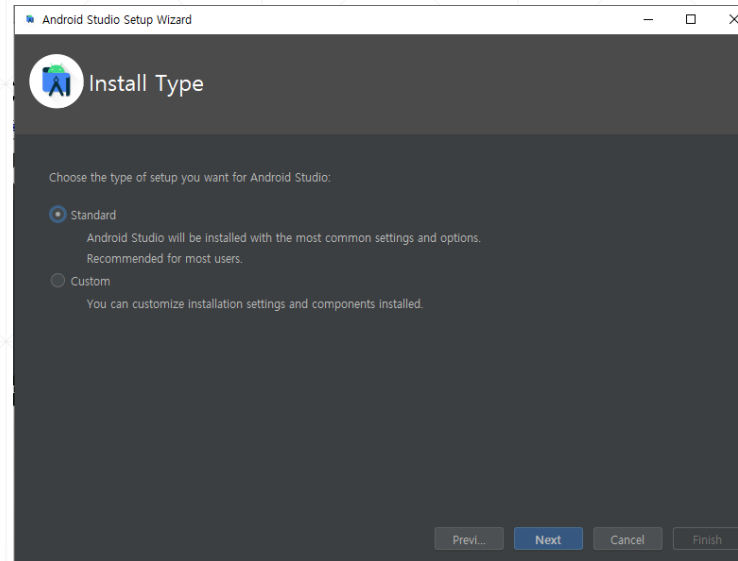
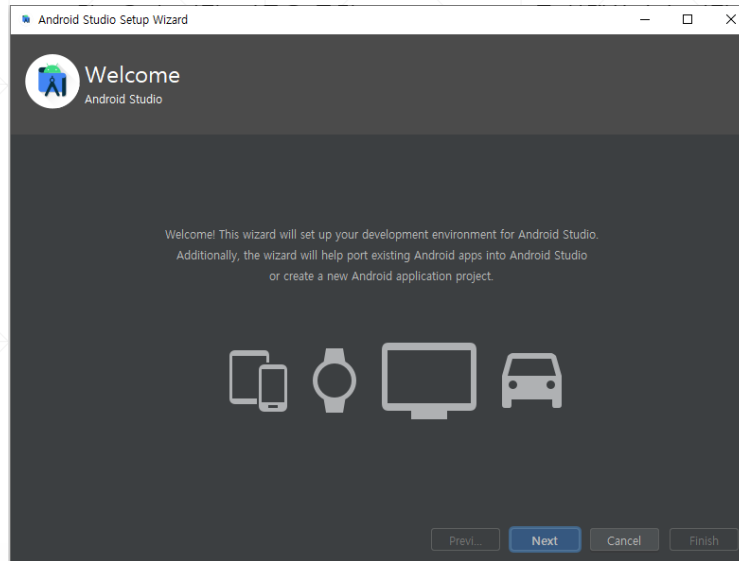
Install Android Studio (1/3)



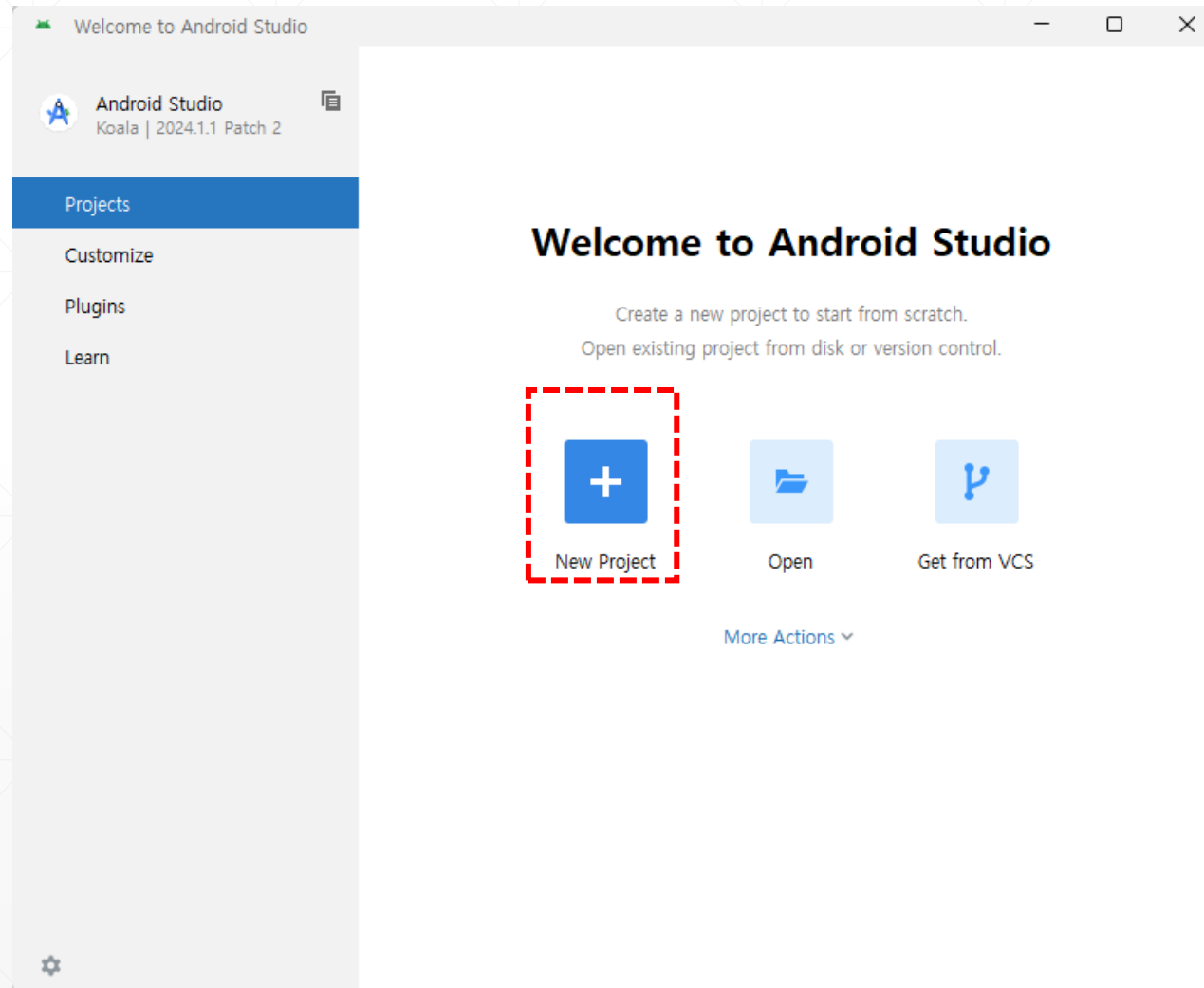
Install Android Studio (2/3)



Install Android Studio (3/3)

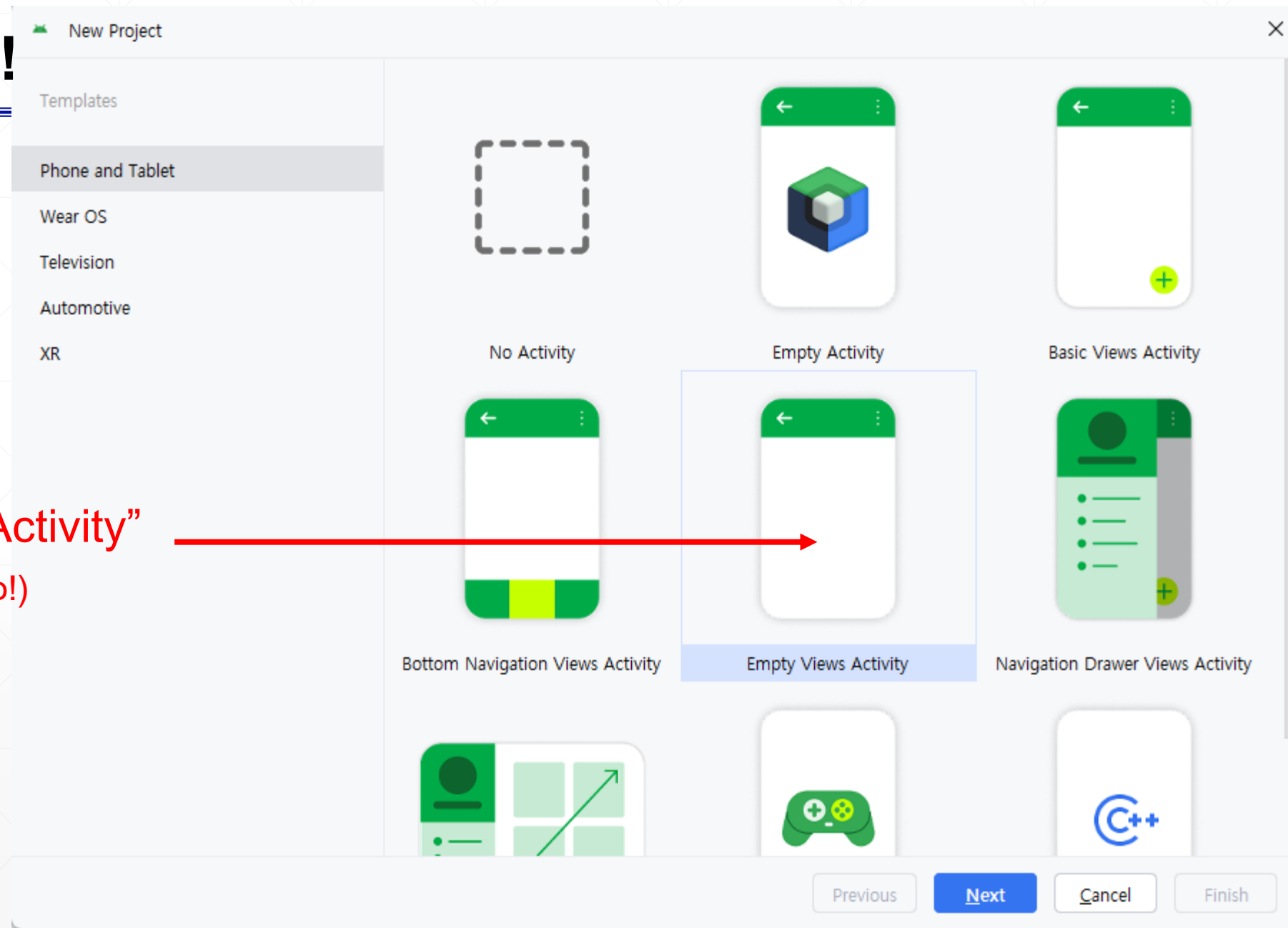


Welcome!




Hello, Android!

Choose “Empty Views Activity”
(different from online video!)



Hello, Android!

 New Project ✕

Empty Views Activity

Creates a new empty activity


Name

MyNewTestApplication


Package name

com.example.mynewtestapplication


Save location


C:\Mobile\AndroidStudioProjects\MyNewTestApplication 


Language


Kotlin 

Minimum SDK

API 33 ("Tiramisu"; Android 13.0) 

 Your app will run on approximately **48.7%** of devices.
[Help me choose](#)

Build configuration language 

Kotlin DSL (build.gradle.kts) [Recommended] 

Previous

Next

Cancel

Finish

Project Area

Tools

Interact

activity_main.xml MainActivity.kt

```
1 package com.example.trialapplication
2
3 import ...
4
5 class MainActivity : AppCompatActivity() {
6     override fun onCreate(savedInstanceState: Bundle?) {
7         super.onCreate(savedInstanceState)
8         // enableEdgeToEdge()
9         setContentView(R.layout.activity_main)
10        // ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets
11        //     val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
12        //     v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
13        // }
14    }
15 }
```

Assistant What's New

News

What's New in Narwhal Feature

This panel describes some of the new features and behavior changes included in the latest update.

To open this panel again later, select **Help > What's New in Android Studio** in the main menu.

[Read in a browser](#)

Studio Labs features available

Studio Labs lets you try out the latest AI experimental features in a stable version of Android Studio, so you can more quickly integrate our AI assistance offerings into your development workflow. To enable the features, go to **Studio Labs** in settings.

[Learn more](#)

Gemini in Android Studio's Agent mode

Gemini in Android Studio's Agent mode is a new AI feature designed to help you go beyond what you can experience by chatting with Gemini. To use Agent mode, select the **Agent** tab. You can describe a complex goal, like generating unit tests or fixing a bug that spans multiple files in your project. The agent suggests edits and improvements, which you can review, accept, or reject the proposed changes and ask the agent to iterate.

Gemini Chat Agent

S Change my app's setting to dark mode

Search Searched for files matching Therre

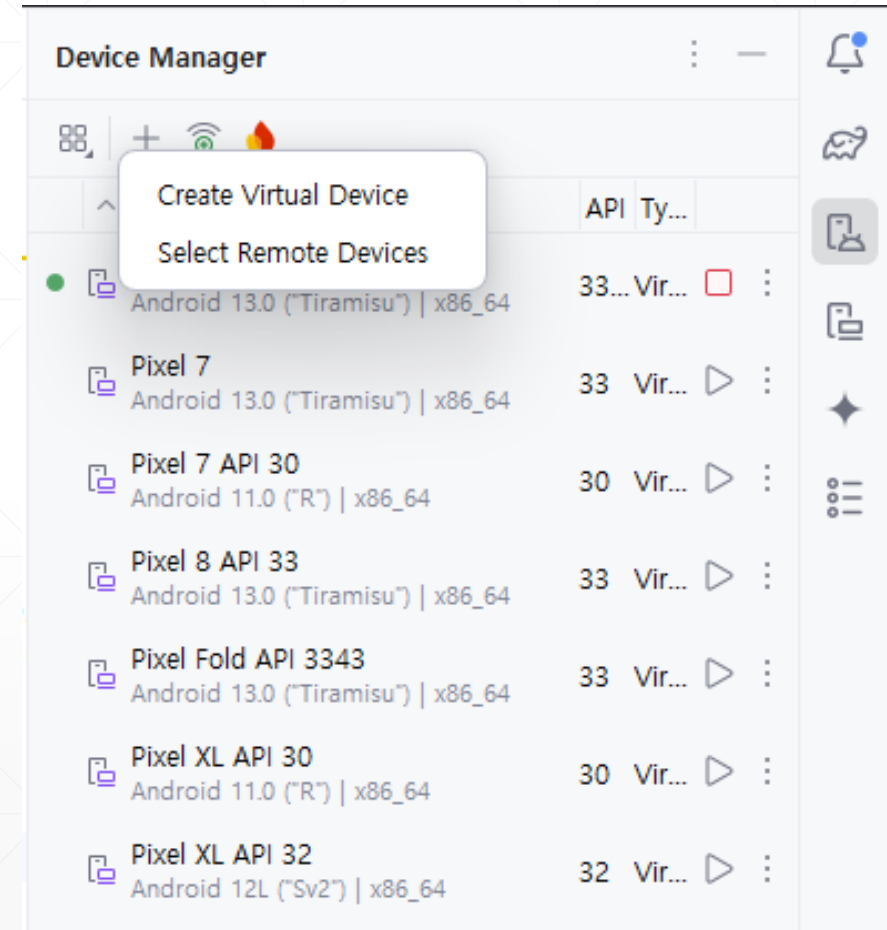
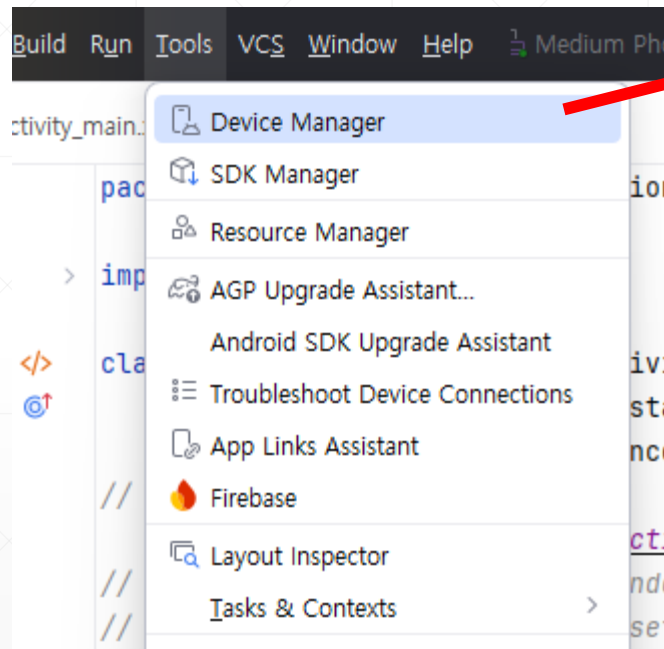
Read MainActivityViewModel.kt

I understand you want to change the app to always use dark mode

Android Emulator (1/3)

■ Emulator

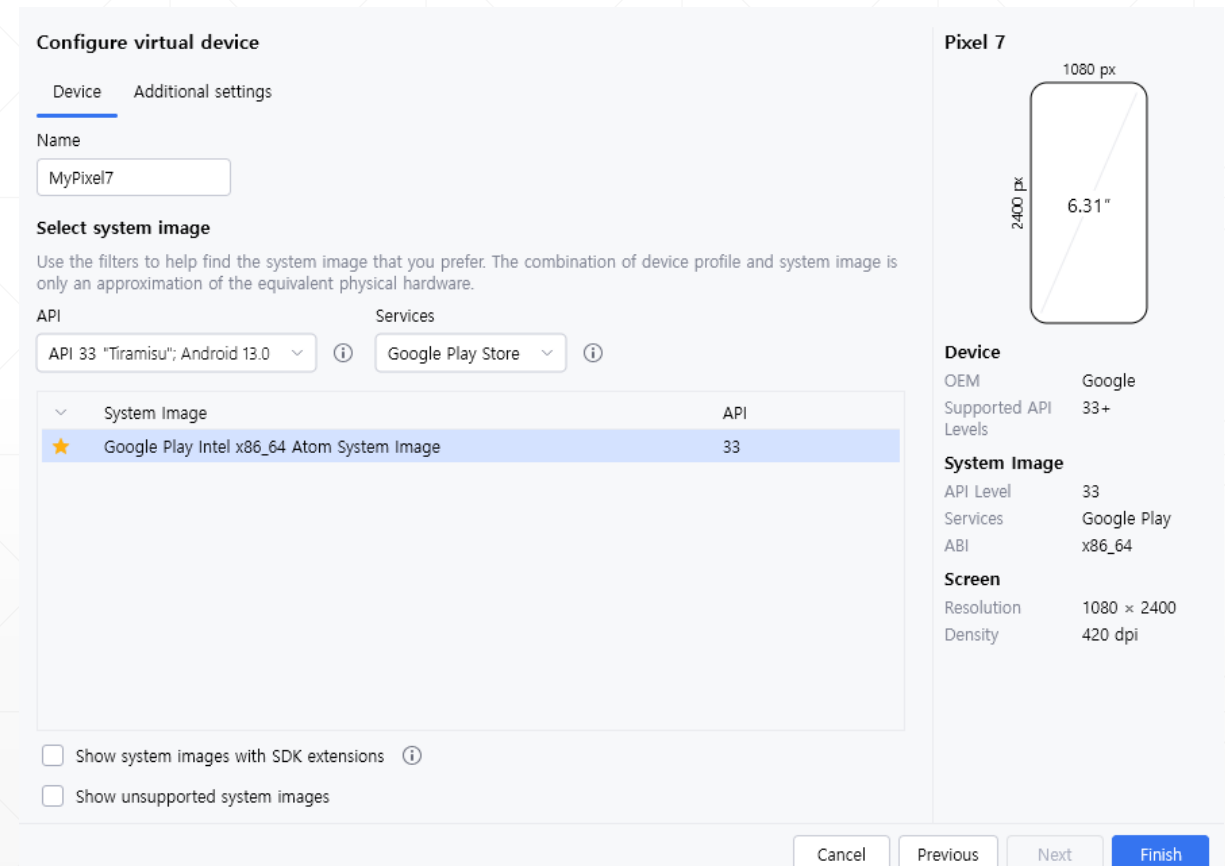
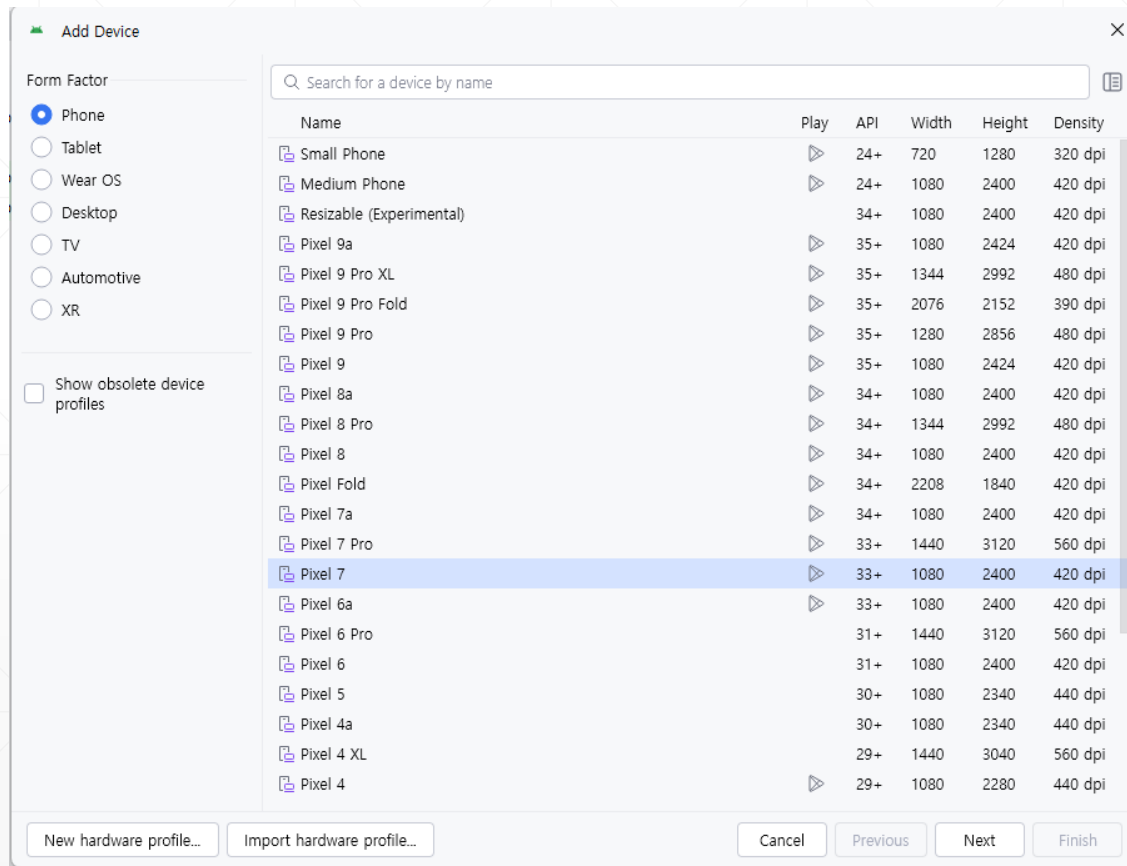
➤ Virtual device implementation



For the first time,
You will see the empty list here.

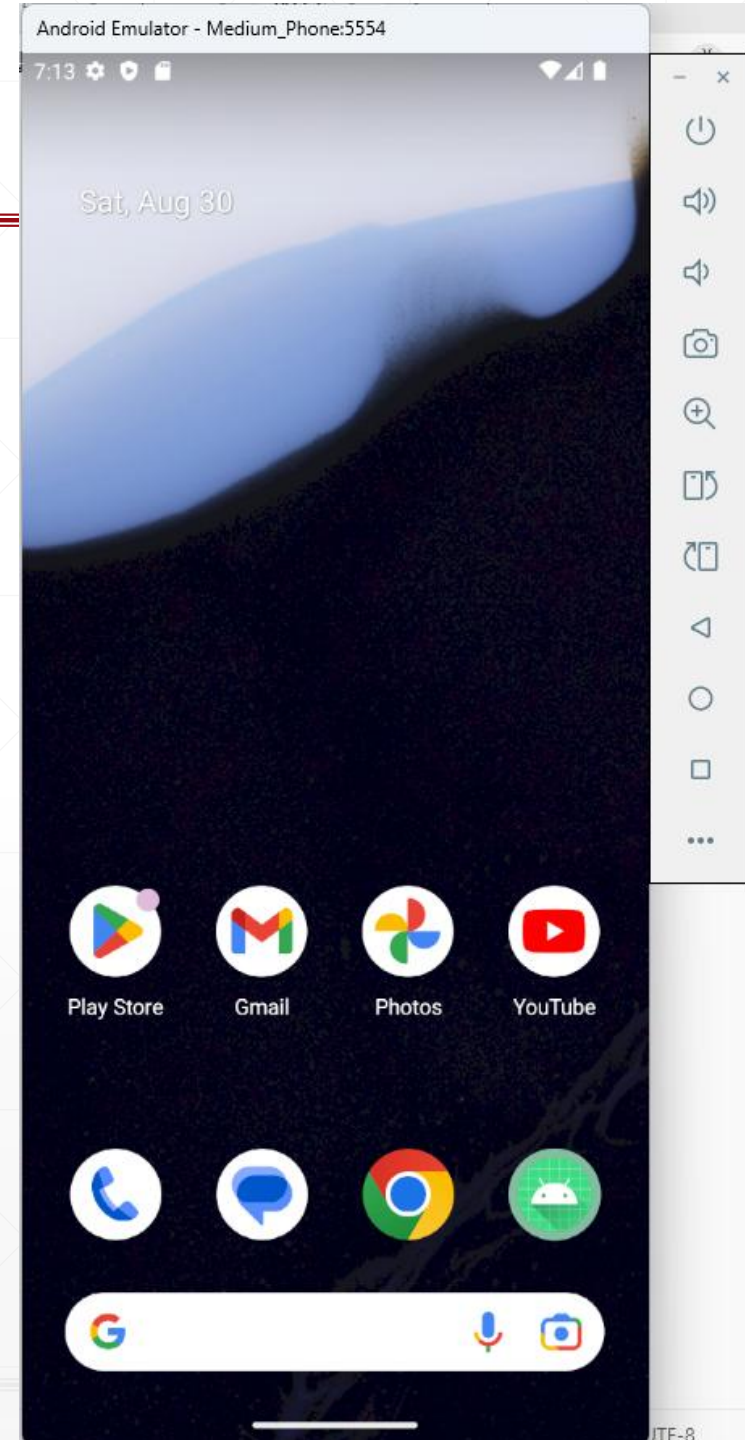
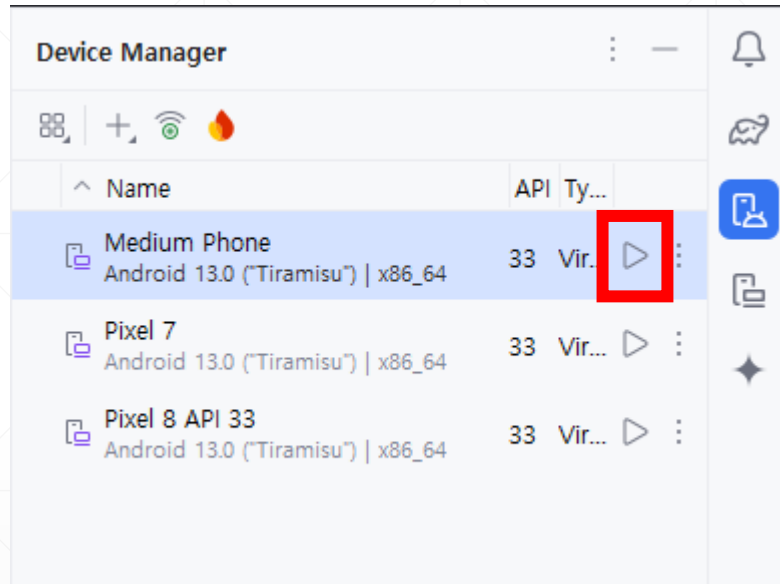
Android Emulator (2/3)

■ Emulator (Choose your favorite option)



Android Emulator (3/3)

■ Congratulations!

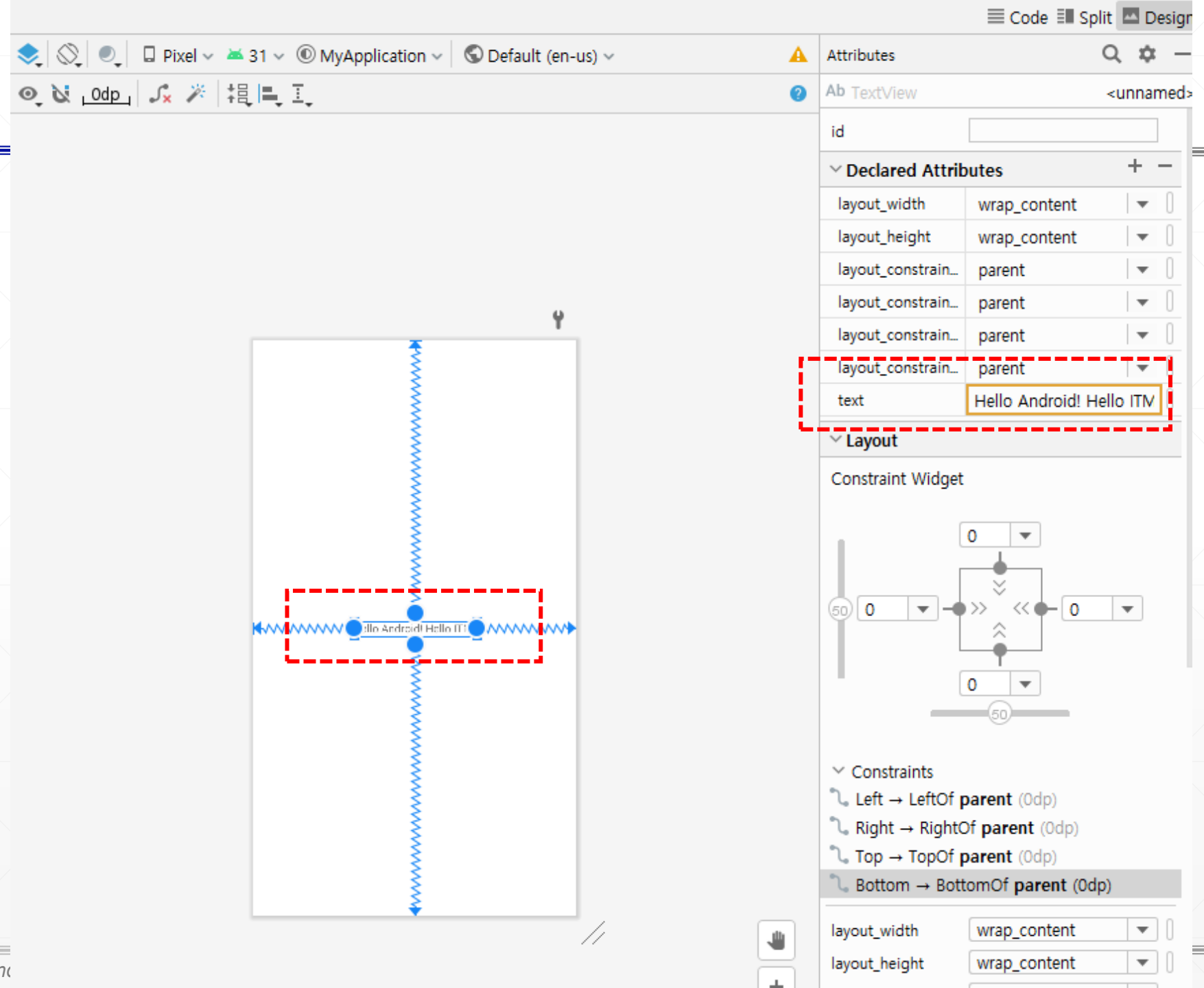


Real Device

- Setting → Device info → Software info
- Touch "build number" 5 times
 - Developer mode will be enabled!
- Setting → Developer options
- Enable "USB Debugging"
- Connect your phone to your PC
 - Screen mirroring by Samsung Flow, Mirroid, etc.

Run the App

- Hello, Android!
- Hello, ITM!



Run the App

■ Run your app!

