

Mobile Programming



IDE Setup

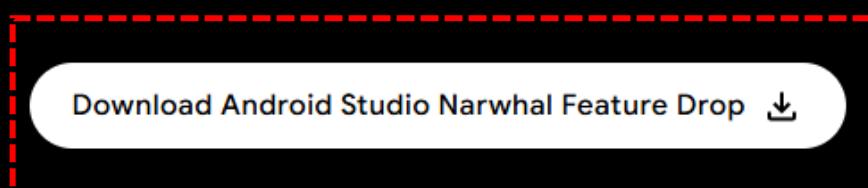


Download Android Studio

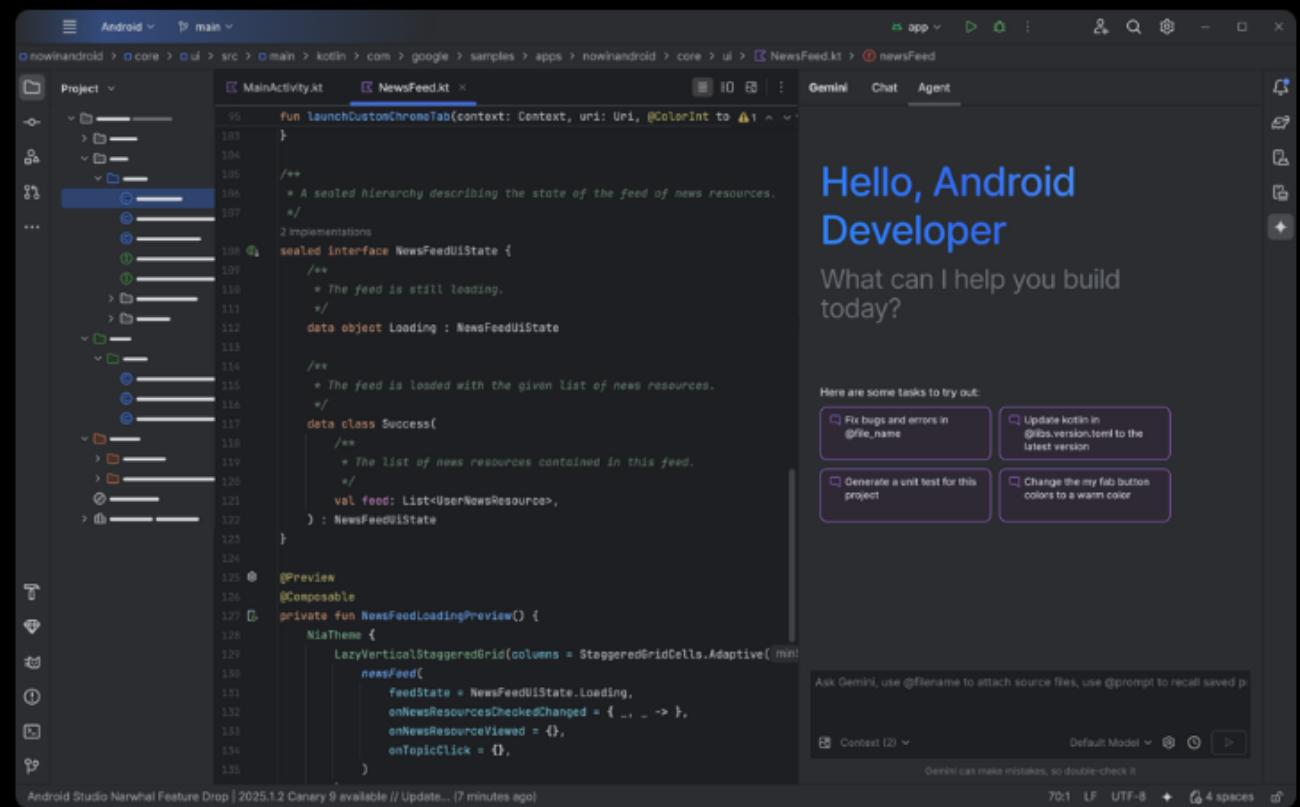
■ Download Android Studio & App Tools - Android Developers

Android Studio

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



Read release notes



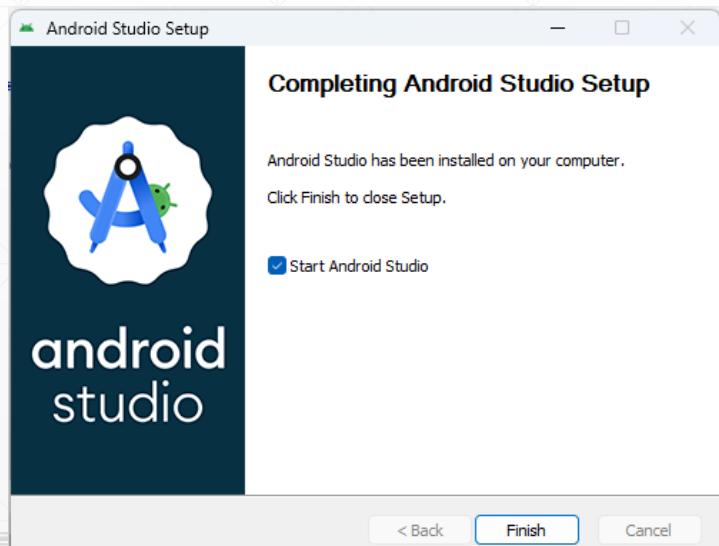
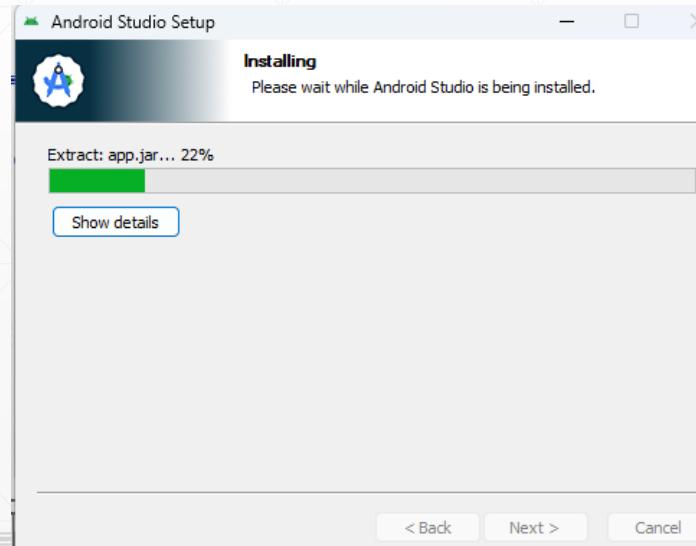
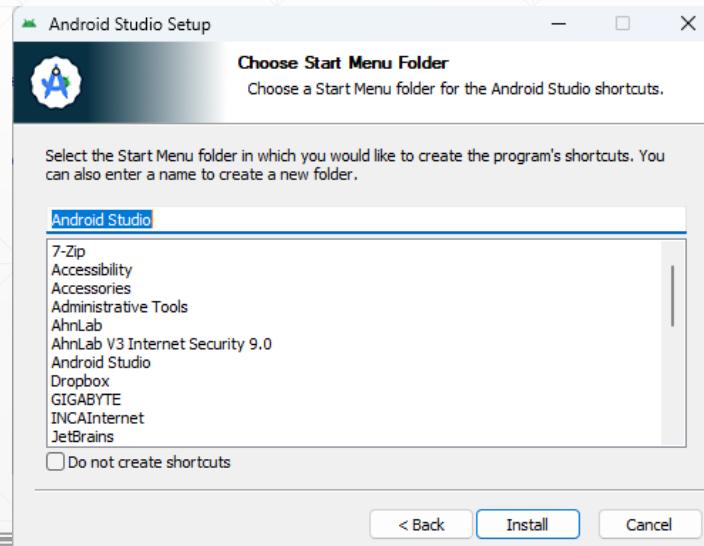
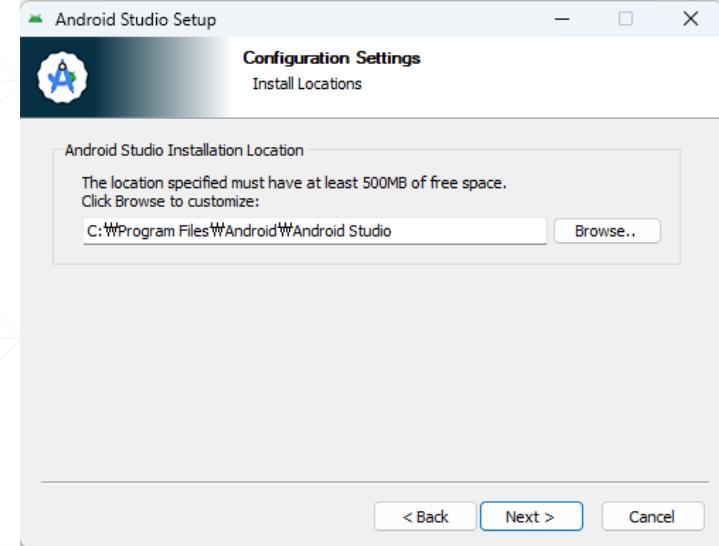
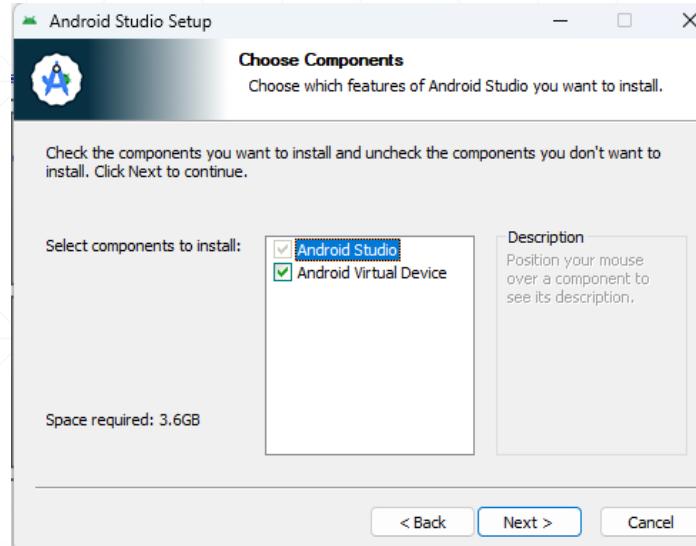
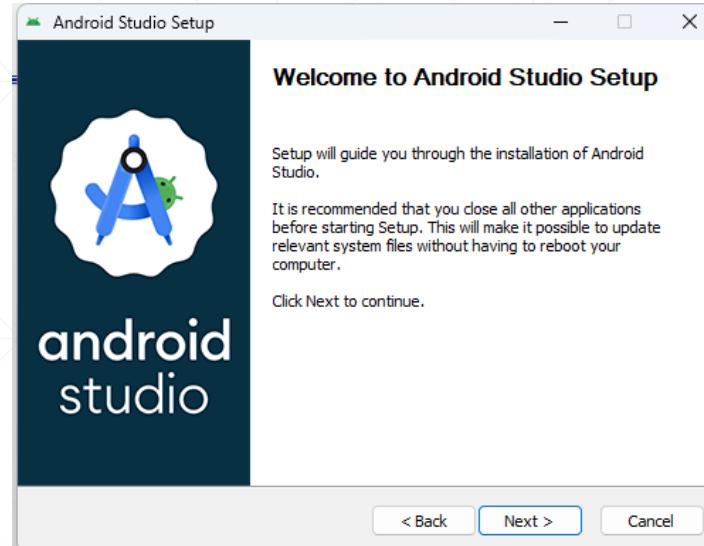
Download Android Studio

Android Studio downloads

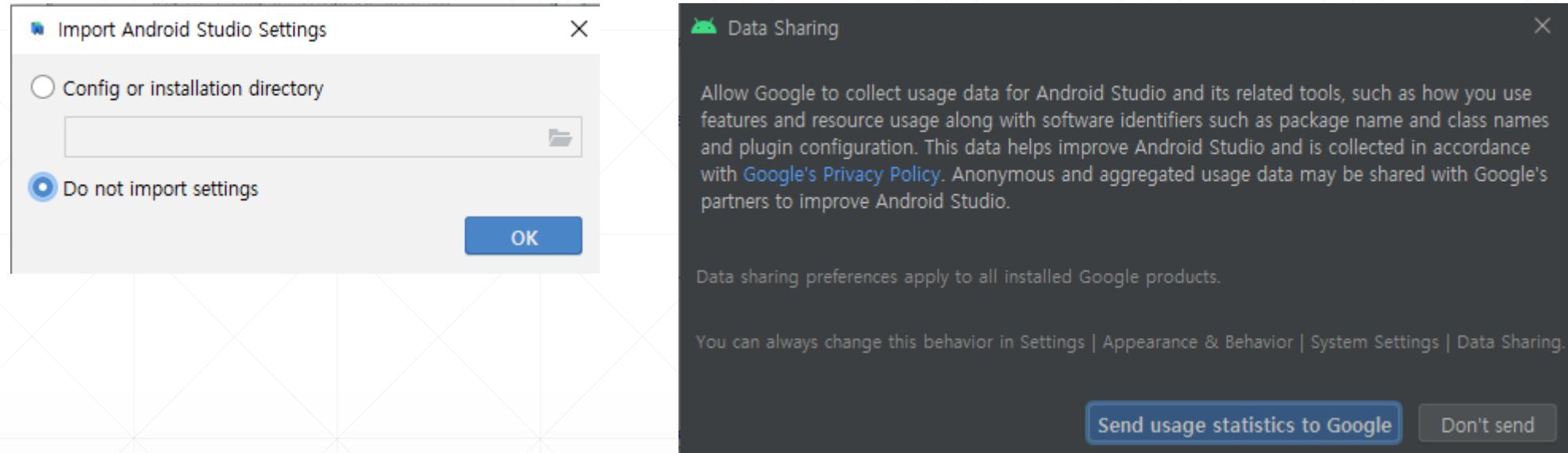
Download the latest version of Android Studio. For more information, see the [Android Studio release notes](#).

| 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 | 9fb9f7e734ab4fefef3c3e2cc02a6d00194252f1a8fc64c77c529a79d313efebb |
| ChromeOS | android-studio-2025.1.2.13-cros.deb | 1.2 GB | 7e499641067d561f38e0f355950362facac800dd6b2cc03269b082ea9e2866f8 |

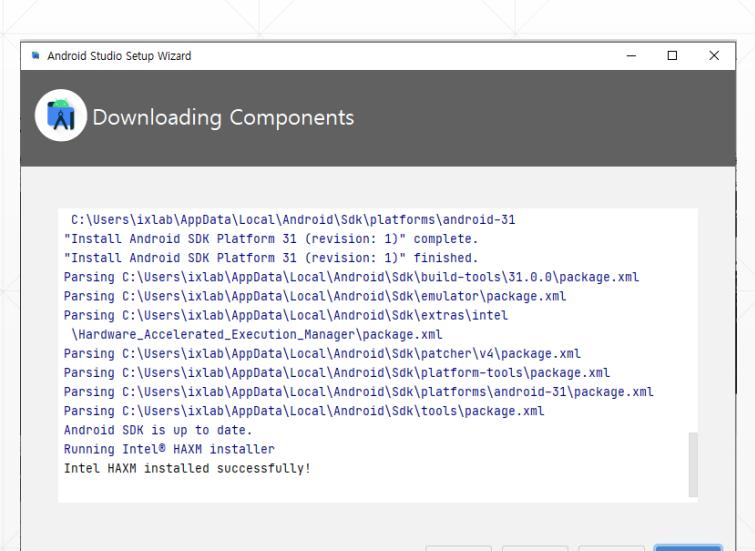
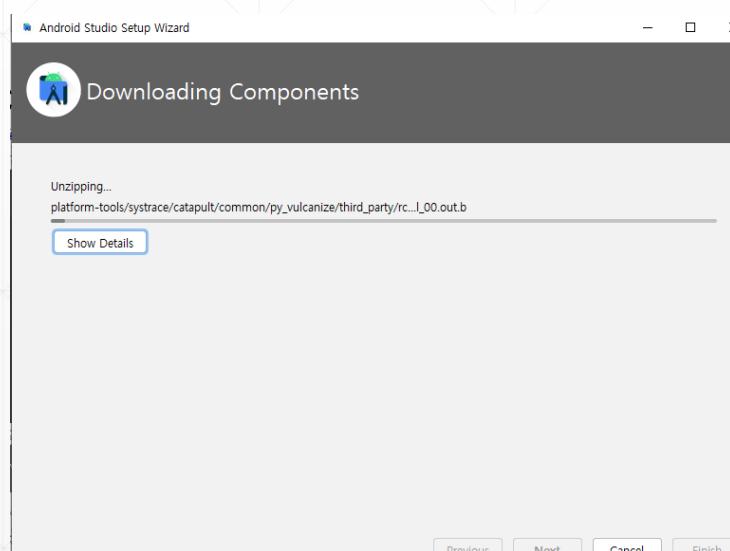
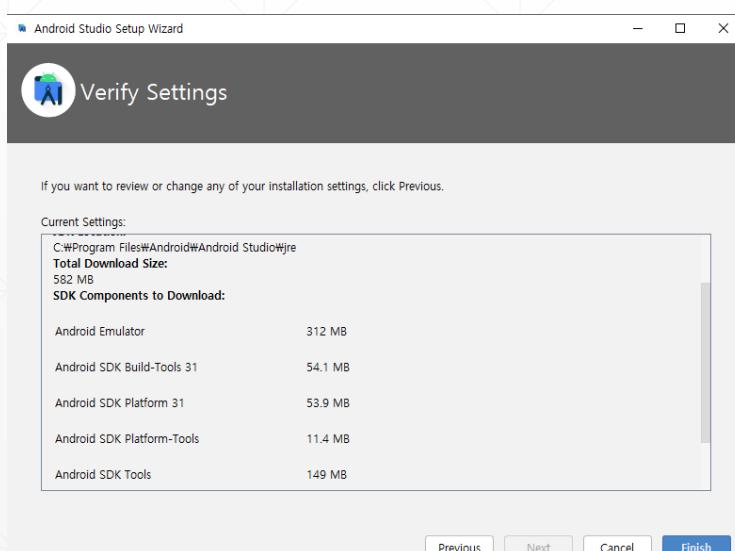
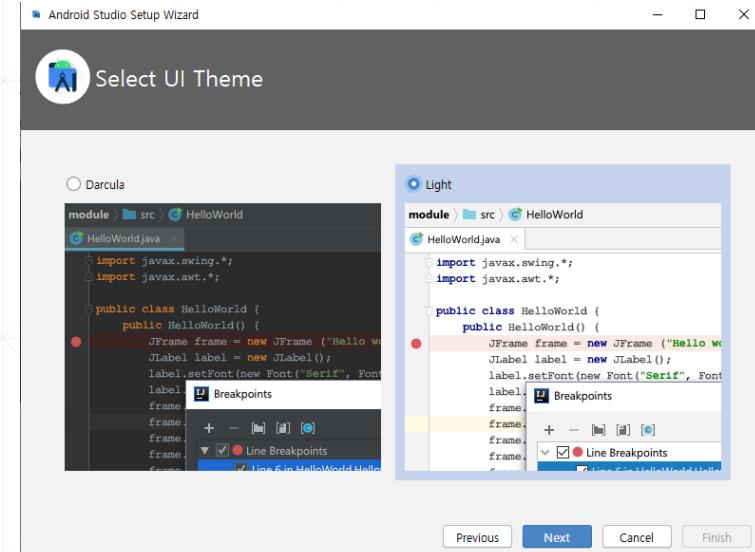
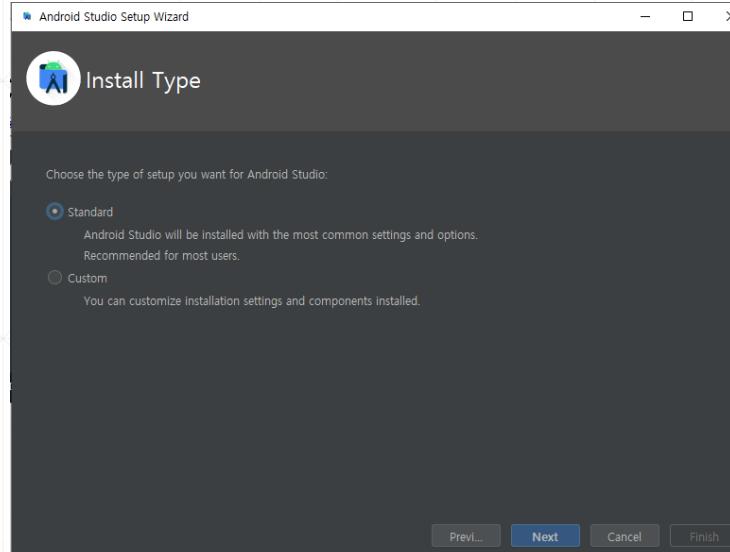
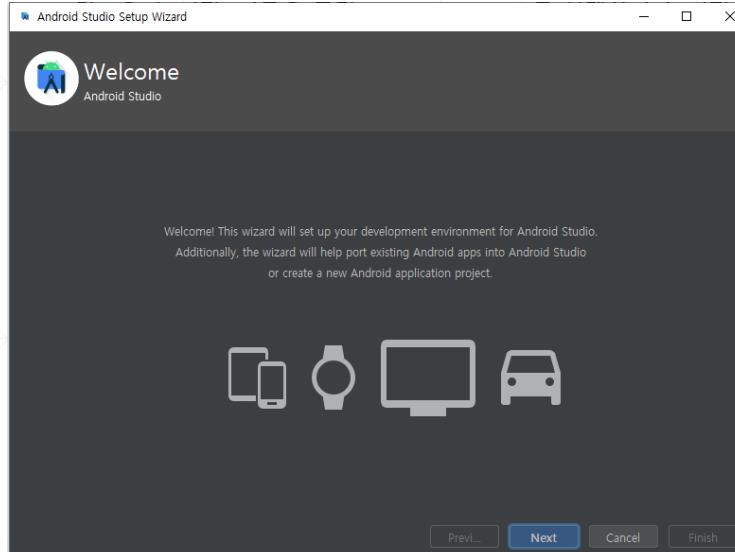
Install Android Studio (1/3)



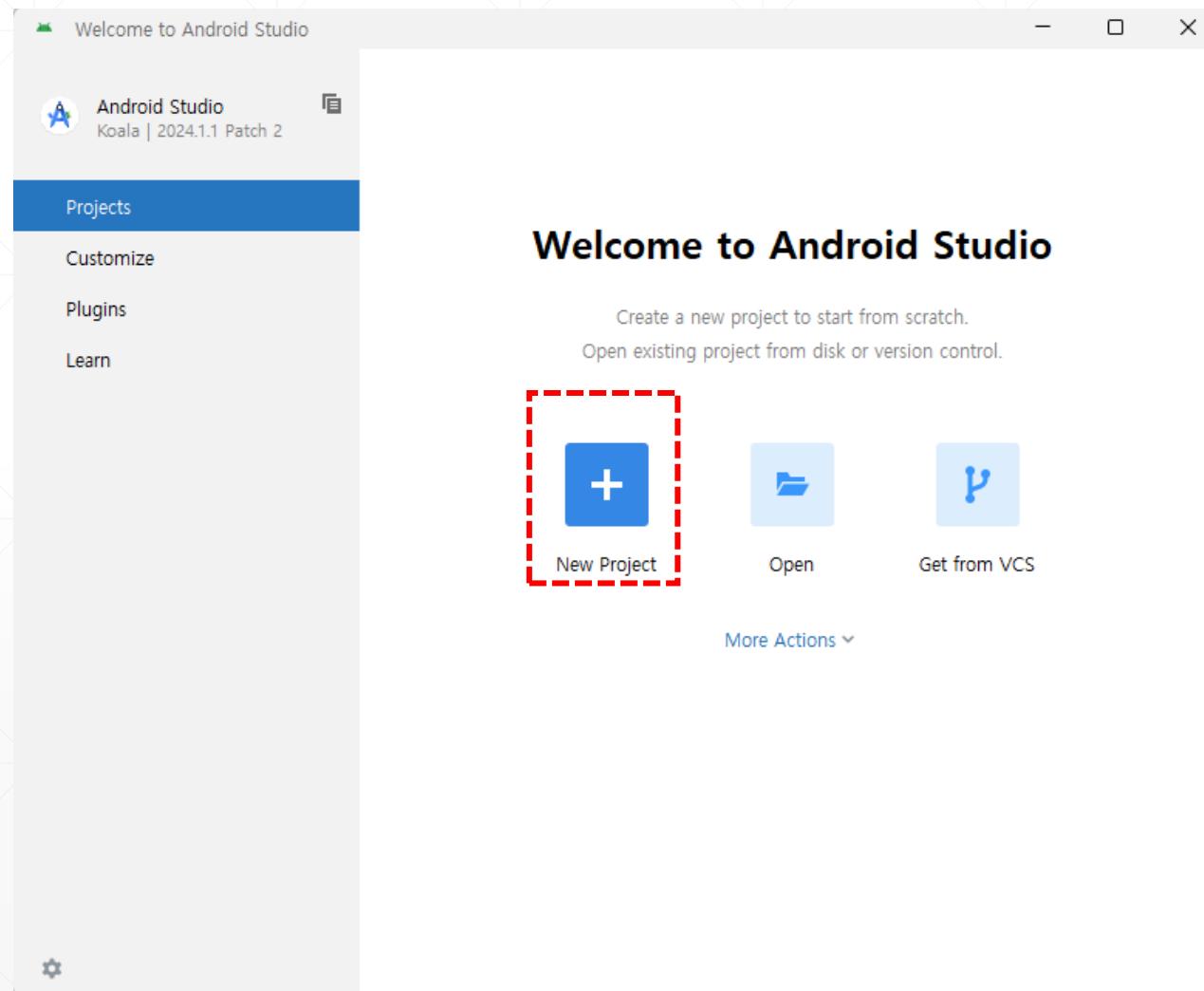
Install Android Studio (2/3)



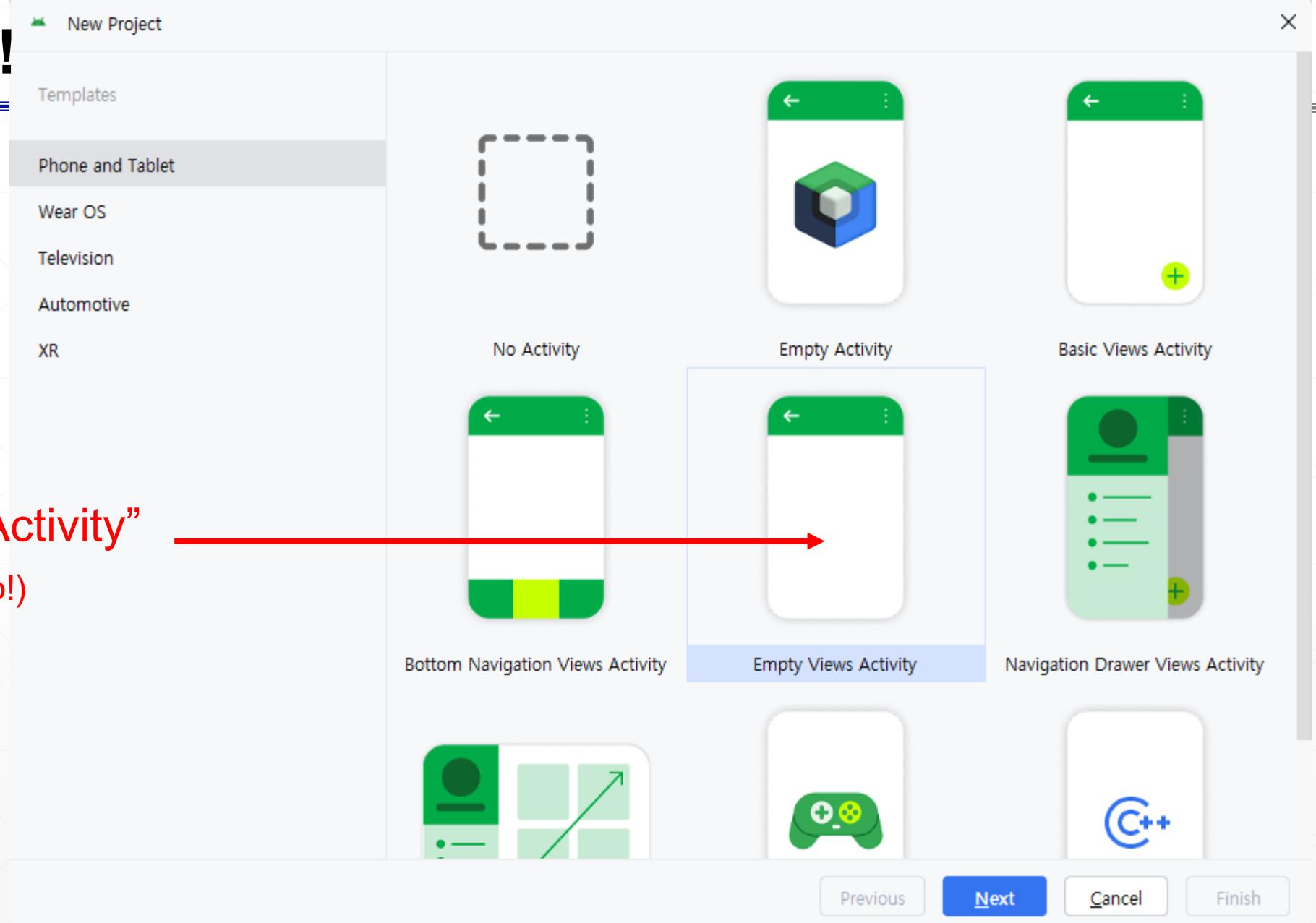
Install Android Studio (3/3)



Welcome!



Hello, Android!



Hello, Android!

New Project

Empty Views Activity

Creates a new empty activity

Name

Package name

Save location Folder icon

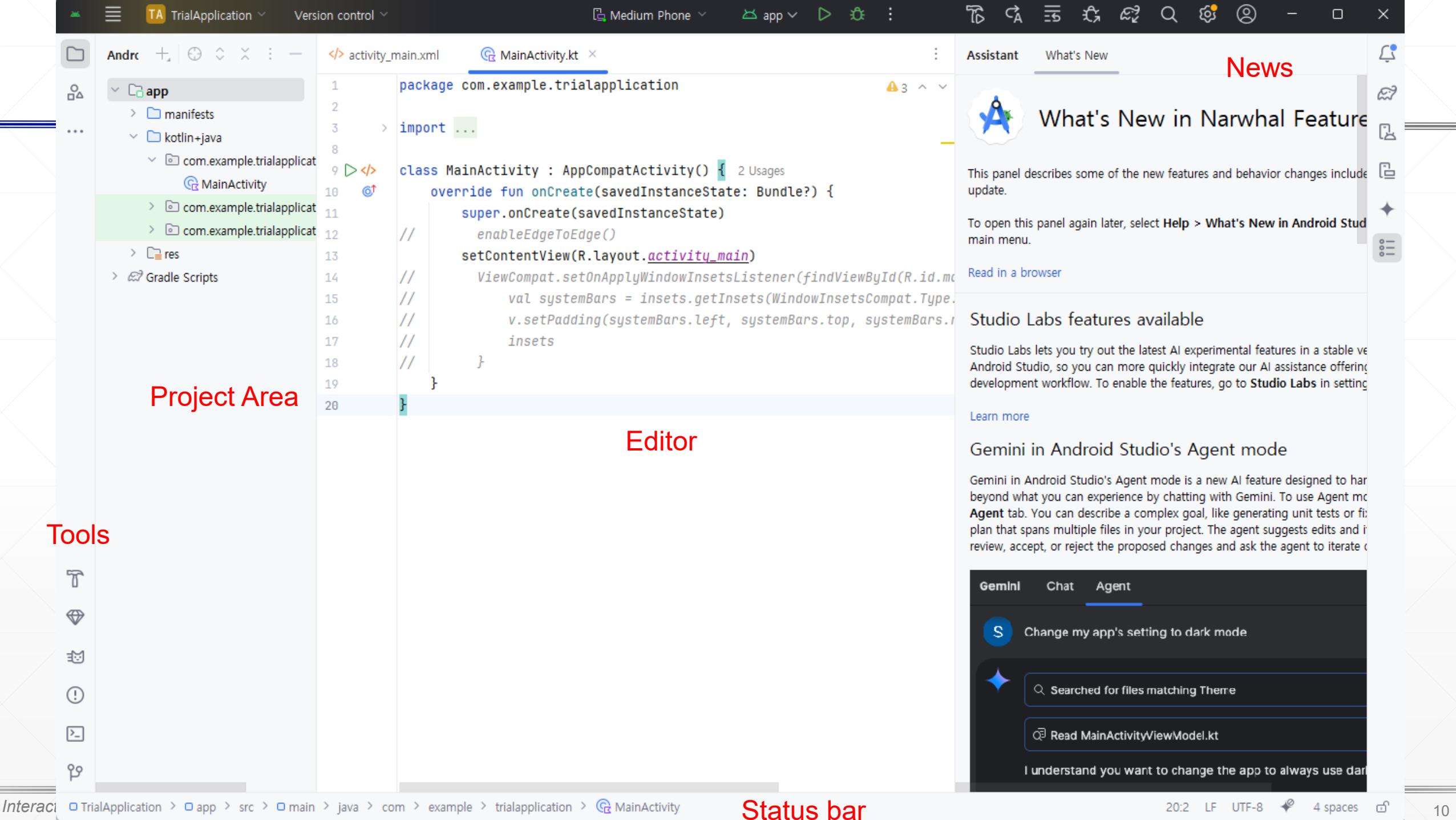
Language

Minimum SDK

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

Build configuration language Question mark icon

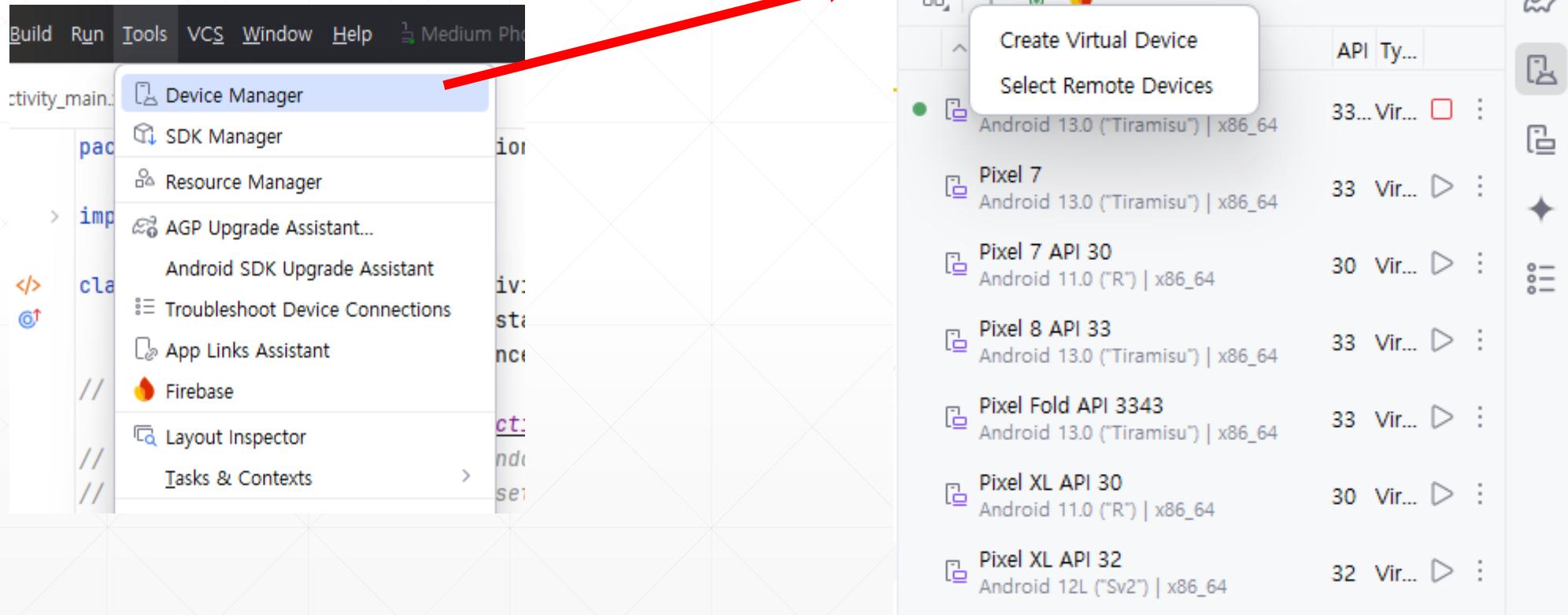
Previous Next Cancel Finish



Android Emulator (1/3)

■ Emulator

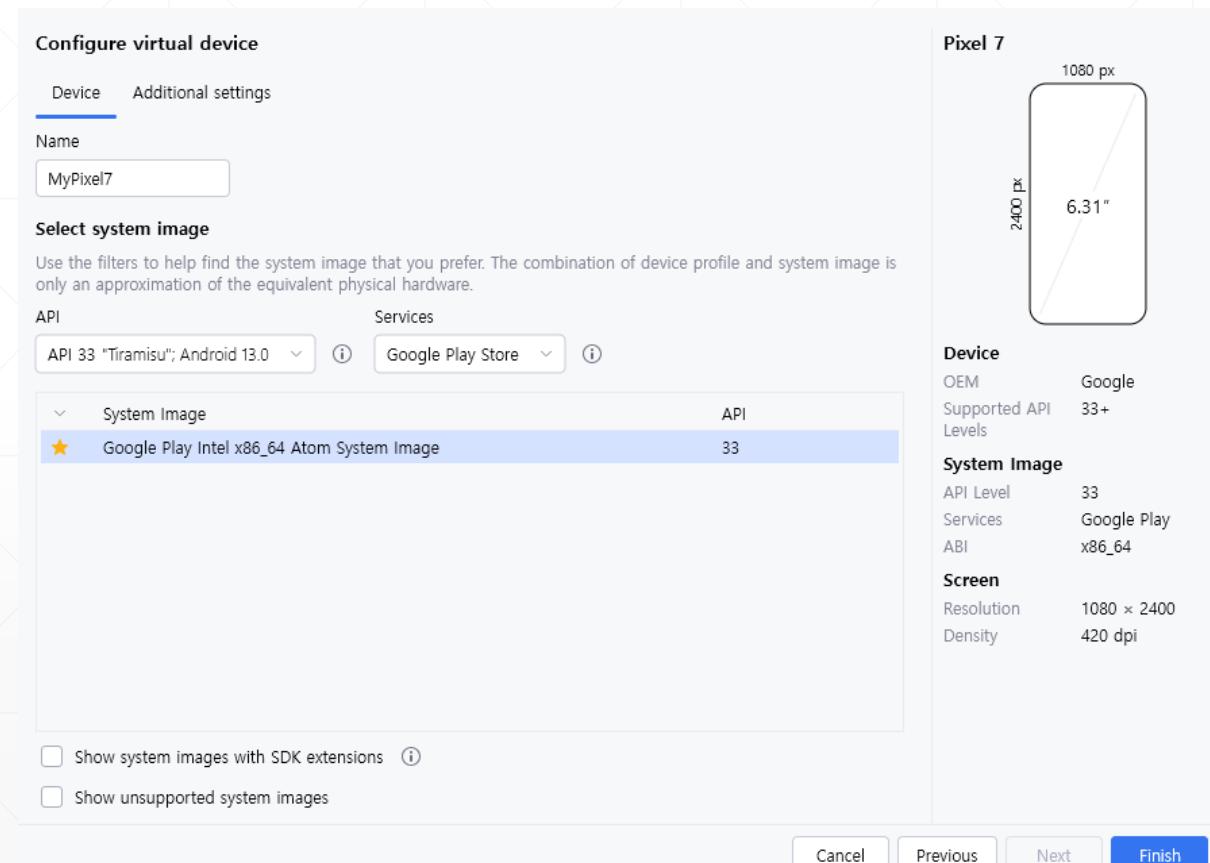
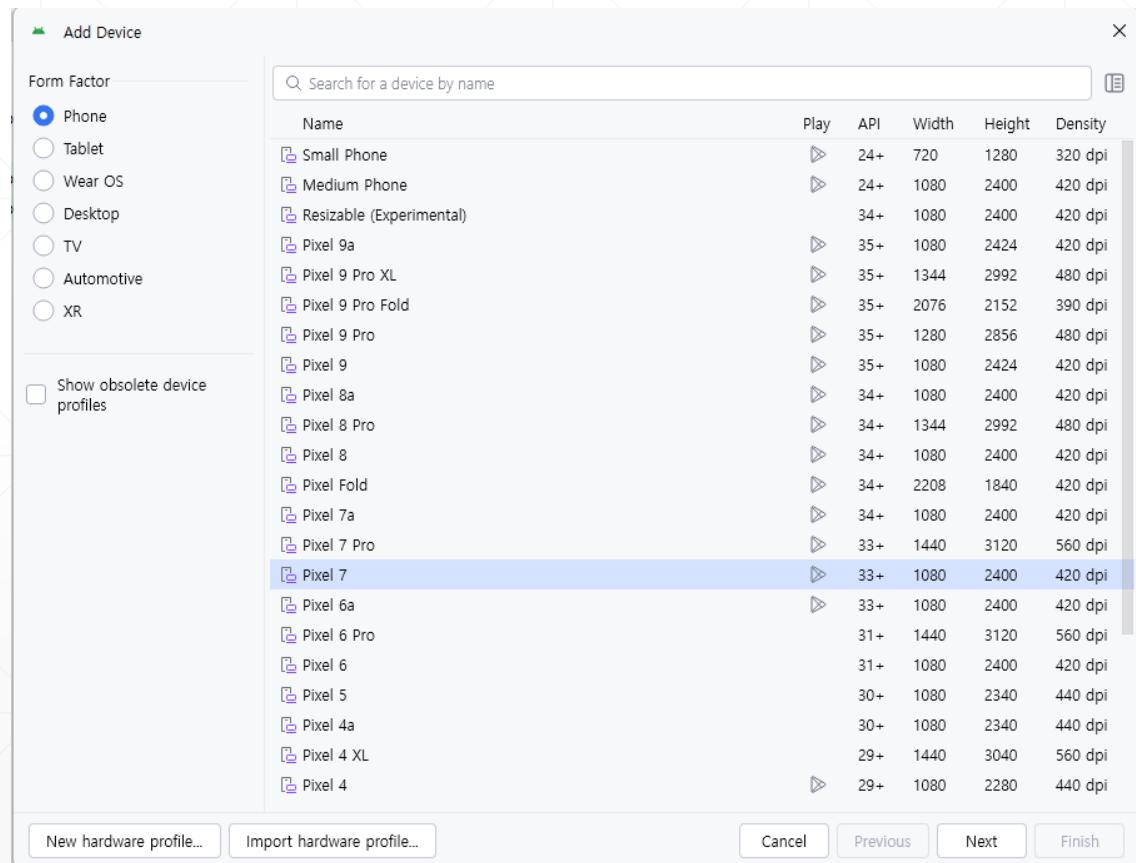
➤ Virtual device implementation



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

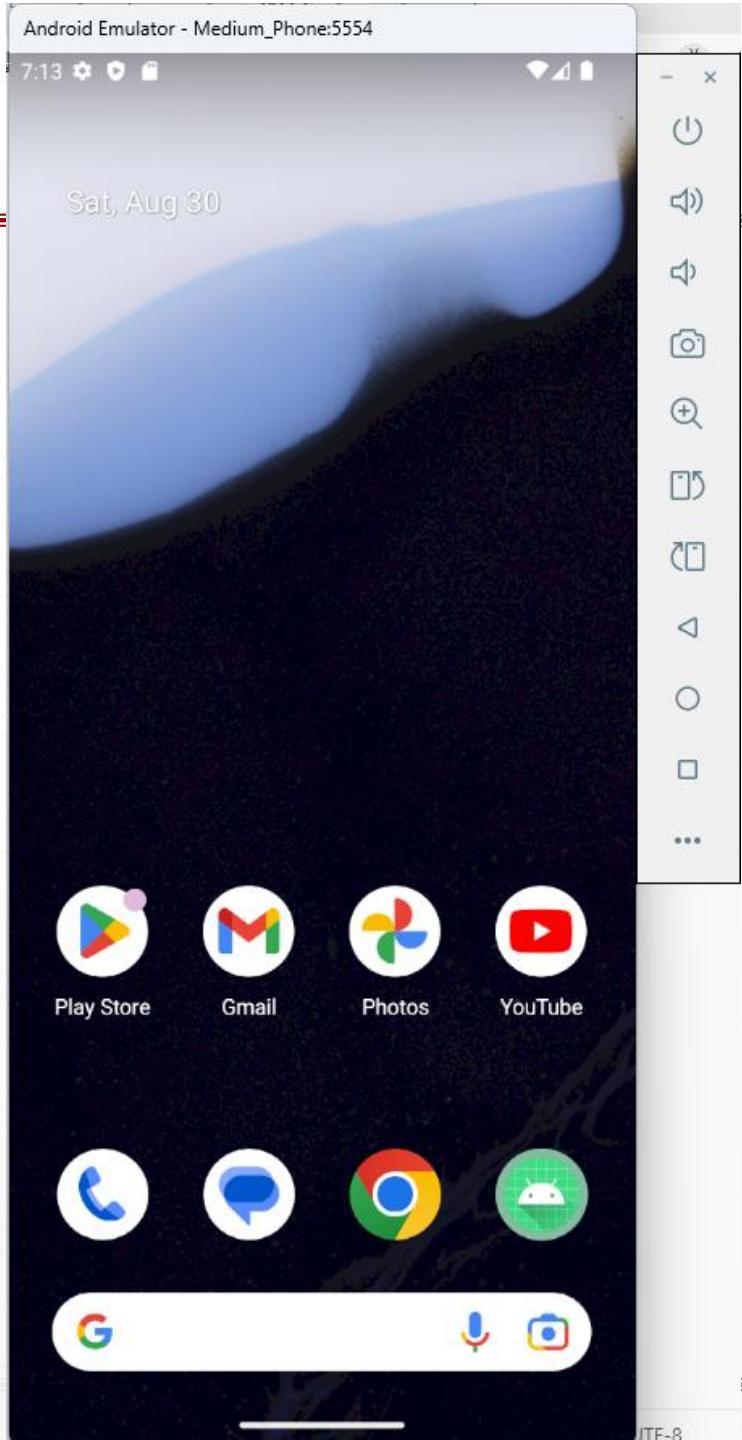
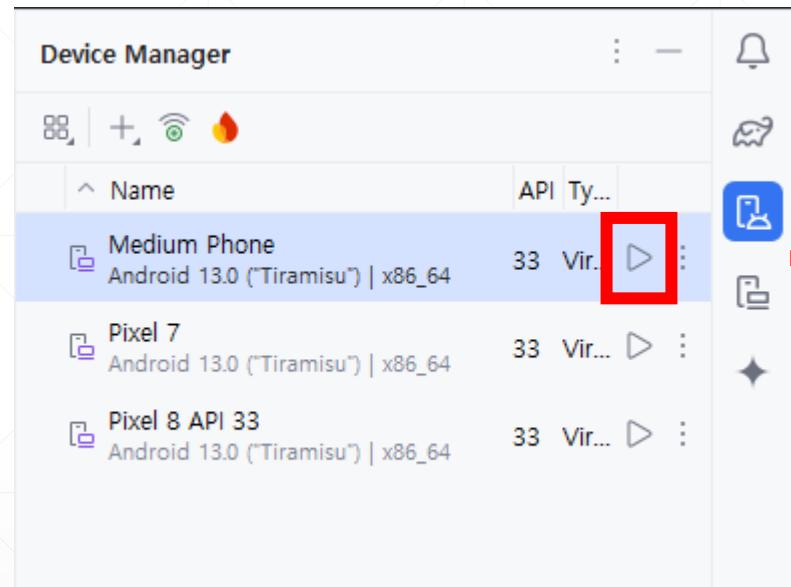
Android Emulator (2/3)

■ 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!

The screenshot shows the Android Studio Design tab for an XML layout file named `activity_main.xml`. The layout consists of a single `ConstraintLayout` containing two `TextView` elements. The top `TextView` has the text "Hello Android! Hello ITM!" and is constrained to the bottom of its parent. The bottom `TextView` also has the same text and is constrained to the top of its parent. Both views have a red dashed border around them, indicating they are selected. The layout editor shows the constraints as blue springs connecting the views to their respective parent edges. The right side of the screen displays the `Attributes` panel for the selected `TextView`, showing attributes like `text` and `layout_constraintBottom_toBottomOf`.

Pixel 31 MyApplication Default (en-us)

Attributes

Ab TextView <unnamed>

id

Declared Attributes

layout_width wrap_content

layout_height wrap_content

layout_constraint... parent

layout_constraint... parent

layout_constraint... parent

layout_constraint... parent

layout_constraint... parent

text Hello Android! Hello ITM

Layout

Constraint Widget

Constraints

- Left → LeftOf parent (0dp)
- Right → RightOf parent (0dp)
- Top → TopOf parent (0dp)
- Bottom → BottomOf parent (0dp)

layout_width wrap_content

layout_height wrap_content

Run the App

- Run your app!

