

Mobile Application Development Tool

Tool Name : Android Studio v3.5

Platform : Android

Application Development Type : indicate the

Type : Cross Platform

Advantages : Create multiple virtual devices, easy GitHub integration, large community to provide support, free, easy to deploy applications on the devices.

Disadvantages : Requires lots of processing power and memory and slows down laptop when running.

Website : <https://developer.android.com/studio>

Developers : Google

Release Date : Beta released June 2014; Stable version released December 2014.

License : Open source, Licenced under the Apache 2 licence.

Price : Free.

Programming Language(s) : Java, Kotlin, C, C#, BASIC, PhoneGap(HTML, CSS), XML.

Features :

- Kotlin programming language support.
- **Android** profiler: memory, CPU, network.
- Java 8 language **features** built-in.
- Faster build times.
- Device file explorer.
- **Android** Instant Apps support
- Adaptive icon wizard.

- XML and downloadable fonts

Debugger – Yes.

Built-in Emulator – Yes.

Host machine requirements

- Microsoft Windows 7/8/10 (32-bit or 64-bit)
- 3 GB RAM minimum, 8 GB RAM recommended (plus 1 GB for the **Android** Emulator)
- 2 GB of available disk space minimum, 4 GB recommended (500 MB for IDE plus 1.5 GB for **Android** SDK and emulator system image)
- 1280 x 800 minimum screen resolution.

Integrated Development Environment (IDE) – Yes

Software to be installed on the host machine before you can create an app - None

Language availability

- English
- Indonesian
- Deutsch
- Spanish
- French
- Turkish
- Many more.

Uploading and Selling an App – One-time registration fee of \$25.

Third –party emulator which can be linked to the tool : Genymotion – Although the emulator that comes with the development kit is great it is possible to hook up a third-party emulator such as Genymotion. It is easy to use and designed specifically for developers to test their apps.

Market Share – One of many of these types of apps.

Number of apps available : 20+ such as GPS, accelerometer, etc.

Number of downloads/users if applicable : N/A.

Price : Free.

Open source : Yes.