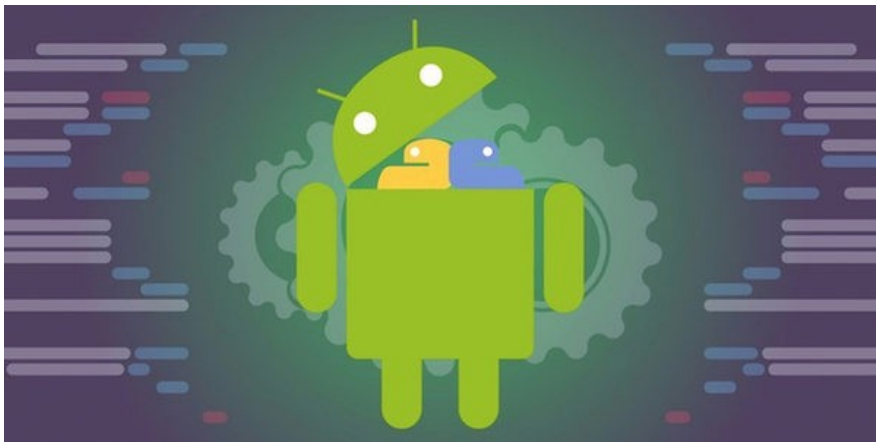
Some tools run Python on Android

Python is a premium language with strong adaptability combined with Android - an open and accessible operating system that will be a very interesting application development direction. Follow the article provided by Quantrimang to learn an overview of the tools running Python on Android.

Python in the process of development always proves itself to be a high-level language with strong adaptability. Python can be simple, easy to learn, extremely suitable for beginners, but also very effective and powerful in the hands of experts. Android is an open and easy-to-access operating system, so if you want to become an application developer then it's a good idea to start from Python.



Using Python will be one of the fastest ways to get started and test some simple code on Android. Further, when you are familiar with it, you can upgrade your phone with the unique features you only have and can even build a full APK.

There are several ways to use Python on Android.

1. BeeWare

BeeWare is a collection of tools for building root applications for the user interface.

This is what *BeeWare* offers:

1. The tool allows Python to run on different devices.
2. Python package help tool for the project to run on different devices.
3. Library and support code needed to run programs on iOS, Android, macOS, Linux, Windows, tvOS and more.
4. Tools to help develop, debug, analyze and deploy these projects.

Not only that, *BeeWare* is also a publicly available product (Open source), proving itself to be a powerful and reliable software. All *BeeWare* tools are licensed with BSD (Berkeley Software Distribution License). Try *BeeWare*, it's ready for you to use >> available for all to use and modify.

2. Chaquopy

Chaquopy is a plugin for the Gradle-based build system of Android Studio.

Chaquopy allows you to use Java and Python alternately, using the language most suitable for your application.

1. With Python API, you can write part or whole application in Python. The Android UI and API toolkit will be completely complete at your disposal.

Chaquopy works in Android's standard build system (Android's standard build system):

1. If you use Android Studio, you can start using *Chaquopy* in 5 minutes without changing your current programming process.
2. Download and install automatically through Gradle.

3. Kivy

Kivy which is a multi-platform OpenGL user interface toolkit.

You can run *Kivy* on Android, or on any device with OpenGL ES 2.0 (at least Android 2.2). Google reports applications that meet 99.9% of devices.

APK Kivy is the usual Android application that you can share like any other application, including on app stores like CH Play. They work normally even when paused or restarted. They can also use Android services and have access to most regular Java APIs.

Kivy also provides all the tools needed to pack your application on Android, including your own APK being shared on CH Play.

Kivy allows you to create Android apps with full functionality, multitouch, graphics and more.

4. Pyqtdeploy

Pyqtdeploy is a tool to deploy PyQt applications. It supports deployment for desktop platforms (Linux, Windows and OS X) and mobile platforms (iOS and Android). Pyqtdeploy is licensed with BSD (Berkeley Software Distribution License)

Pyqtdeploy works by taking individual modules of a PyQt application, freezing them, and then placing them into a source Qt file converted into C ++ code using Qt's rcc tool. Python's standard library (Python standard library) is also handled in this way.

Pyqtdeploy creates a Qt file, in the .pro format, describing all C ++ code created. Qt's qmake tool will create a specific platform Makefile, thereby creating a single executable file. Furthermore, Qt and platform definition tools can be used to convert executable files to other platforms.

To install *pyqtdeploy* you need to have PyQt5 and Python v3.2 or higher.

Pyqtdeploy supports PyQt4 and PyQt5 applications written in Python v2.6 and above and Python v3.3 and above.

5. QPython

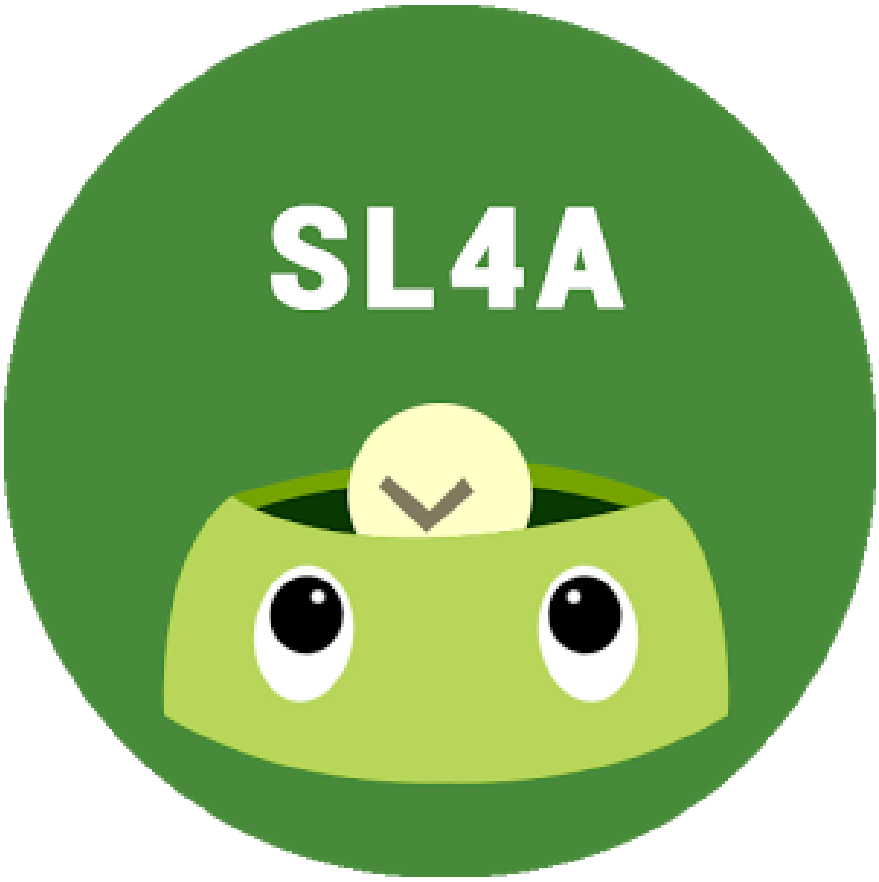
QPython is a script building tool and test them on your Android device almost instantly.

QPython can also help developers develop Android applications.

After downloading and installing QPython3, you have an environment to start programming. You can load scripts from here and later to be useful when you create your own native apps, for example, you can create some basic tools for doing math and tools. learning tests, or tools for storing and retrieving data . It's completely in your hands.

6. SL4A

***SL4A* (Scripting Layer For Android)** , originally named ASE (Android Scripting Environment), is a library that helps write scripts on the Android platform.



SL4A allows you to edit, execute scripts and interactive interpreters directly on Android devices. These scripts have access to many APIs available for official Android applications, but with a simplified interface that is easy to use.

SL4A is designed for programmers and is the best quality software.

7. PySide

PySide is a Python binding of the Qt GUI multi-platform toolkit (Graphical User Interface).

PySide provides Python binding and LGPL license (GNU Lesser General Public License) for Qt 4. It also includes a complete series of tools to create fast bindings for any C ++ class hierarchy based on Qt. *PySide* Qt constraints allow the development of free and proprietary open source software to support Qt platforms.

In general, there are many programs and useful tools that can be used to develop Android in Python. Which option is appropriate depends on your work style and purpose. Hopefully the list above will give you a basic view of Python development tools on Android. Please choose the right tool for you.

See more:

1. Programming Python on Android device
2. The best tools for Android developers
3. Top 20 free programming learning websites need to bookmark immediately!