

## Qt C++ ANDROID APPLICATION TUTORIAL

1) With Qt programming platform it is possible to write quite efficient C++ applications for Android. Moreover it provides quite useful functionality for GUI programs. I am inclined to say that, Qt provides more professional capabilities instead of Android SDK.

2) download Qt online installer from:

<https://www.qt.io/download-open-source/>

#sudo ./qt-unifiedXXX.run

check Android ARMv7 component support in installer menu

3) install packages:

#sudo apt-get install default-jdk ant gradle

4) download Google Android Studio SDK:

<https://developer.android.com/studio/index.html>

#unzip android-studioXXX.zip

#cd android-studio/bin

#./studio.sh

- install SDK

- at „Welcome to Android Studio” window click „Configure” and „SDK Manager”

- at „Android SDK” click your Android device OS version

- at „Android SDK” click „SDK Tools”, check „NDK” and „Apply”

- install NDK

- close Android SDK

5) open QtCreator

- click Settings; Devices; Android

- populate JDK; SDK and NDK paths f.e.:

JDK:

/usr/lib/jvm/java-8-openjdk-amd64

SDK:

/home/user/Android/SDK

NDK:

/home/user/Android/SDK/ndk-bundle

5) buy a 10cent USB3.0 to USB micro cable. If one does not have any Android device, one would buy some, for example myPhone Fun for 44\$. Provide some basic project ( PushButton + Label ), connect device and run code for ARMv7 architecture. Note some computation capabilities with QVector and QMap.

P.S. Android devices with x86 CPU are also compatible within these steps.

P.P.S. OS LINUX Ubuntu version 16.04.