

## 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 5 for 80\$. 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.