

# Android App Development

12.2.2015

Today the day has come, where I want to do my first experience on writing code for android apps :)

## Tool chain

- Android Studio 1.0.1
- USB cable
- Sony Xperia Z1 compact

## Setup

I tried to deploy an example app (NetworkConnect), but my phone isn't recognized. There are a view things, that have to be done:

- Enable Developer Settings on the Phone by going to Settings→About Phone and tap 7 times the Build-Number :)  
It seems, that this is something, that only developer will find out :)
- Allow USB debugging on the phone
- Set ...

### ... permissions on linux:

```
lsusb
```

find the line with the phone. in my case it is:

```
Bus 003 Device 007: ID 0fce:61a7 Sony Ericsson Mobile Communications AB
```

then edit the permissions file:

```
sudo kate /etc/udev/rules.d/51-android.rules
```

and add the line

```
SUBSYSTEM=="usb", ATTR{idVendor}=="0fce", MODE="0666", GROUP="plugdev"
```

- sudo service udev restart  
(not sure, if this is needed)
- reconnect usb cable
- Now we can hit the play-button in the android studio, and select the device!

# Qt on Android

25.2.2015

I've also tested Qt 5.4 on Android 4.4 and 2.3.3 (HTC Desire Z)

In addition to Qt Creator and the Qt SDK we also have to install Android SDK and NDK.  
But with this done, it works flawless as expected with Qt! Really Great!

The menu bar of the QMainWindow is displayed on Android 4.4 as a 3-dot button, and on Android 2.3 it comes up, when hitting the hardware menu button.

Until now, I've only tested QtWidgets. Perhaps QtQuick would also be very impressive. But I think I have heard, that QtQuick doesn't present a native look and feel.

## June 2017

With Qt 5.9

- install SDK, NDK Rev. 10e, JDK 8
- `sudo apt install ant build-essential libgl1-mesa-dev gcc g++`

Virtualbox

- stop guest
- install VirtualBox Extension Pack from Oracle
- add the user of the host-system to the group vboxuser
- log out and back in to update groups
- add USB-Device in the settings of the guest system
- start guest system
- replug the device
- add USB-rules described above in the guest system.

## March 2019

- Oracle Java installieren:  
<http://ubuntuhandbook.org/index.php/2018/05/install-oracle-java-jdk-8-10-ubuntu-18-04/>

```
sudo add-apt-repository ppa:linuxuprising/java
sudo apt update
sudo apt install oracle-java11-installer
sudo apt install oracle-java11-set-default
```

- <https://stackoverflow.com/questions/42041461/install-android-sdk-without-studio-on-linux-for-qt-creator>
- Android SDK herunterladen und in `/usr/local/android/android-sdk/tools` entpacken
- Android NDK herunterladen und in `/usr/local/android/android-sdk/android-ndk` entpacken

Noch geht's nicht, Qt Creator beschwert sich darüber, dass SDK nicht installiert ist. Der sdkmanager in /tools/bin kann nicht ausgeführt werden, weil es zu Java Laufzeitfehlern kommt...

Nun probier ich es mit der Installation des Android Studios... So hats geklappt. NDK muss über den sdkmanager nachinstalliert werden, aber dann findet Qt Creator alles, was er braucht um die App zu compilieren und aufs Handy zu laden.

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