Hands-on setup guide (Linux)

1. Pre-requisites

• Git If required check this link to install it : Download Git

To check open a Terminal and type: git --version

Note: We will call <Archive directory> the directory where are the provided archives into the Hands-on. This directory is coming from the USB pen and should be copied for instance on the Desktop or the Home directory. So when you will read: cd <Archive directory> you will understand cd ~/Desktop or cd ~/Bureau or cd ~ depending where you've copied the Hands-on directory from the USB pen.

2. Create ~/Hands-on directory

```
mkdir ~/Hands-on
```

To check open a Terminal and type: ls ~/Hands-on

2.1 Install Android Studio

Unzip provided archive into your directory ~/Hands-on :

```
$ cd <Archive directory>
$ unzip ./Hands-on/Linux/android-studio-ide-145.3537739-linux.zip -d ~/Hands-on/
```

To check open a Terminal and type : ls ~/Hands-on and you should see android-studio directory.

2.2 Install Android SDKs

Unzip provided archive into your directory ~/Hands-on :

```
$ cd <Archive directory>
$ cp ./Hands-on/Linux/Android.tar.gz ~/Hands-on
$ cd ~/Hands-on
$ tar zxvf Android.tar.gz
```

To check open a Terminal and type : ls ~/Hands-on/Android and you should see Sdk and Plugins directories.

2.3 Hands-on project

Unzip provided archive into your directory ~/Hands-on :

```
$ cd <Archive directory>
$ unzip ./Hands-on/Linux/2017-handson-kotlinAndroid.zip -d ~/Hands-on/
```

To check open a Terminal and type:

```
$ cd ~/Hands-on/2017-handson-kotlinAndroid
$ git lg
```

you should read:

```
* 9b50a75 (origin/solution, solution) Exercise 2.5 : Kotlin & Rx
* a911fe9 Exercise 2.4 : Lambda
* a7911d8 Exercise 2.3 : Function extensions
* 8112ad2 Exercise 2.2 : Kotlin extensions
* acbd955 Exercise 2.1 : Prepare MainActivity
* 5e9f1f6 (tag: End-Partl) Exercise 1.4 : Lateinit & Companion Object
* 1d67724 Exercise 1.3 : Collections
* 15a64ab Exercise 1.2 : When
* 76f22bc Exercise 1.1 : Data class kotlin
* 9003149 (HEAD -> master, origin/master, origin/HEAD) Mode offline (#1)
* 24d0724 Initial commit
```

Create your working branch:

```
$ git checkout -b mywork
$ git lg
```

you should read:

```
* 9b50a75 (origin/solution, solution) Exercise 2.5 : Kotlin & Rx

* a911fe9 Exercise 2.4 : Lambda

* a7911d8 Exercise 2.3 : Function extensions

* 8112ad2 Exercise 2.2 : Kotlin extensions

* acbd955 Exercise 2.1 : Prepare MainActivity

* 5e9f1f6 (tag: End-Part1) Exercise 1.4 : Lateinit & Companion Object

* 1d67724 Exercise 1.3 : Collections

* 15a64ab Exercise 1.2 : When

* 76f22bc Exercise 1.1 : Data class kotlin

* 9003149 (HEAD -> mywork, origin/master, origin/HEAD, master) Mode offline (#1)

* 24d0724 Initial commit
```

3. Install Gradle cache

/!\ Warning: Due to Gradle open issue (Gradle's cache stores the native OS absolute path), you have to create exactly the same directory! /!\

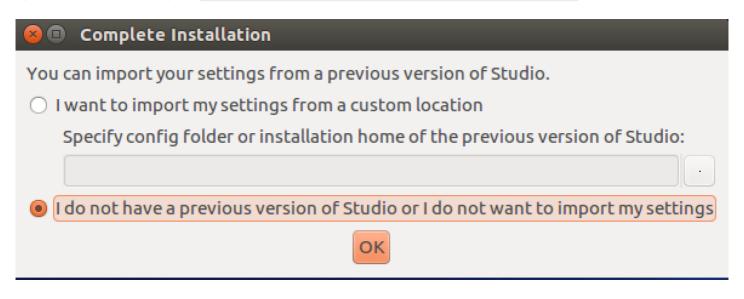
Note to use your current user instead of laurent:laurent.

```
$ cd <Archive directory>
$ sudo cp ./Hands-on/Linux/handson-devoxx2017-gradle.tar.gz /opt
$ cd /opt
$ sudo tar zxvf handson-devoxx2017-gradle.tar.gz
$ sudo chown -R laurent:laurent handson-devoxx2017/
```

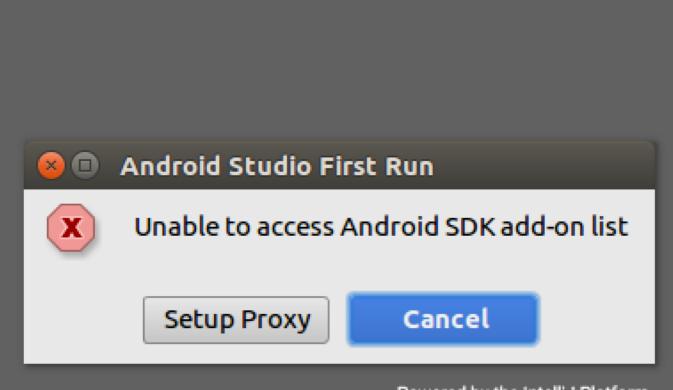
To check open a Terminal and type: ls -l /opt/handson-devoxx2017 and you should see gradle directory belonging to laurent:laurent.

4. Complete Android Studio offline setup

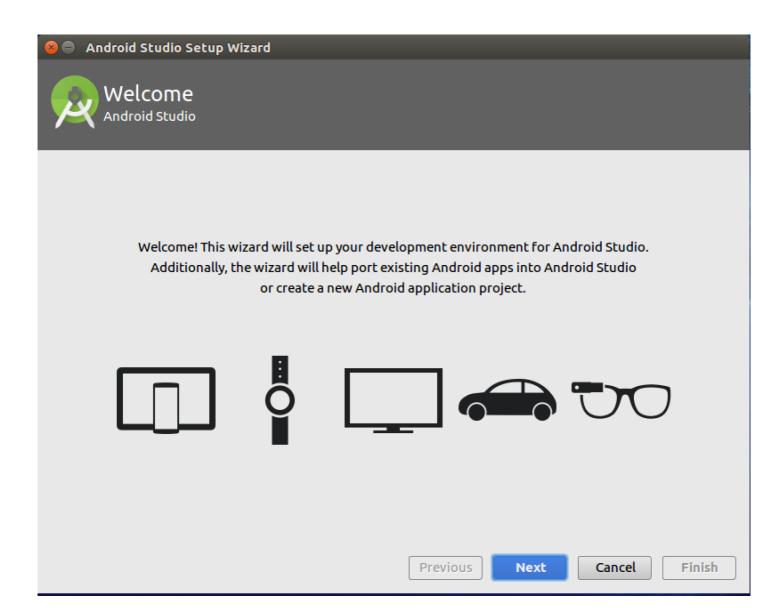
open a Terminal and type: ~/Hands-on/android-studio/bin/studio.sh &



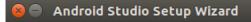
Just ignore the message and click on Cancel



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Select Custom installation





Choose the type of setup you want for Android Studio:

Standard

Android Studio will be installed with the most common settings and options. Recommended for most users.

Custom

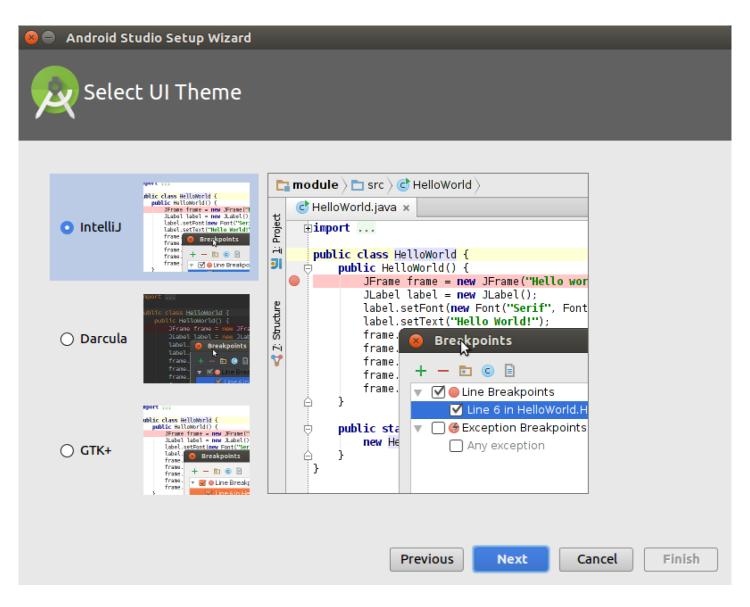
You can customize installation settings and components installed.

Previous

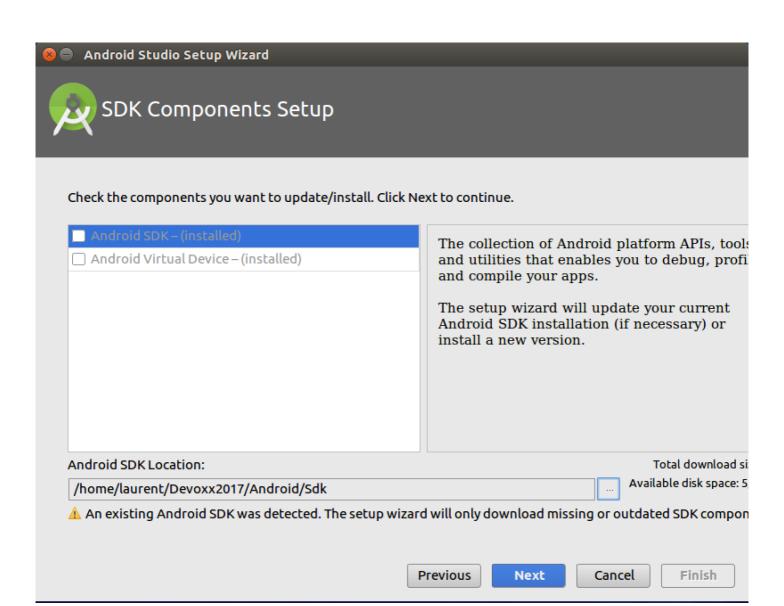
Next

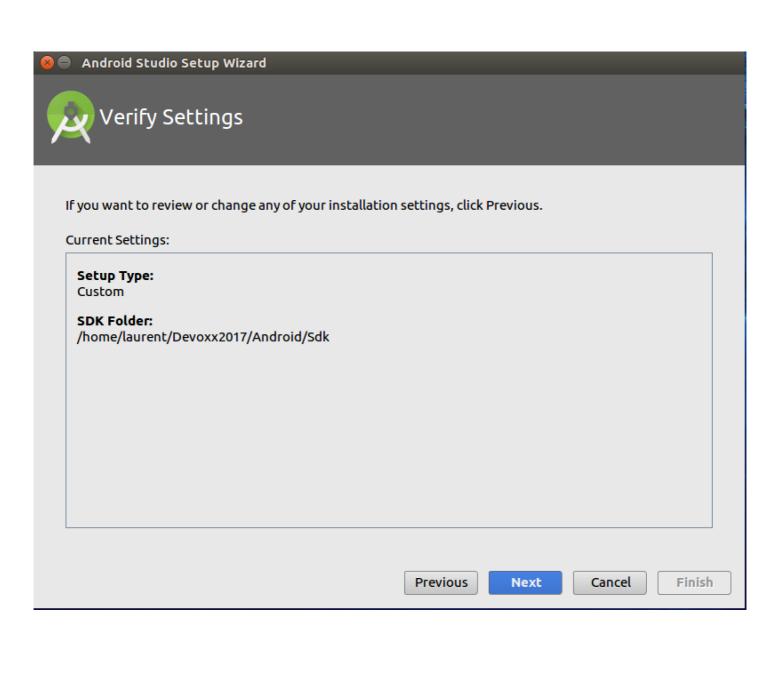
Cancel

Finish



Update Android SDK location and set the path defined in chap. 2 above. Should be the absolute path of : ~/Hands-on/Android/Sdk









We have detected that your system can run the Android emulator in an accelerated perfomance mode.

Linux-based systems support virtual machine acceleration through the KVM (Kernel-mode Virtual Machine) software package.

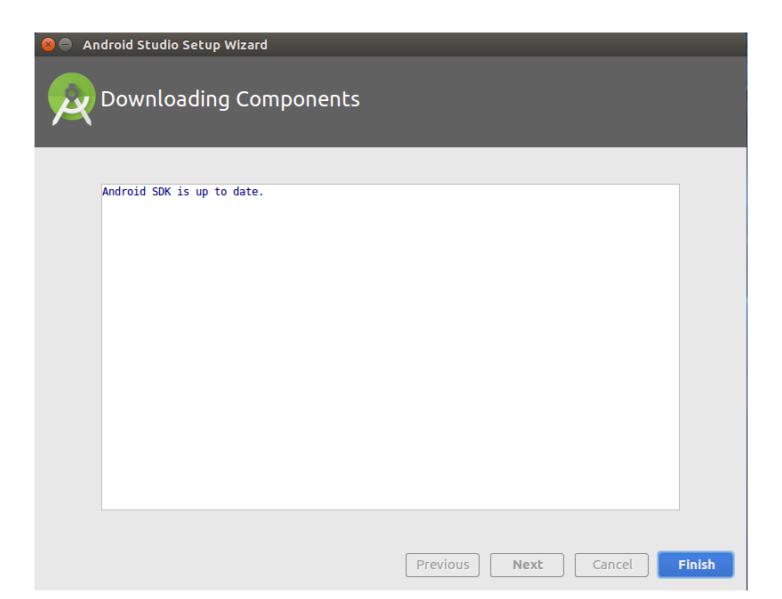
Search for install instructions for your particular Linux configuration (<u>Android KVM Linux Installation</u>) that KVM is enabled for faster Android emulator performance.

Previous

Next

Cancel

Finish







Version 2.2.3

- X Start a new Android Studio project
- Den an existing Android Studio project
- Check out project from Version Control -

Configure - Get Help -

Open configure menu and select Settings





Android Studio

Version 2.2.3

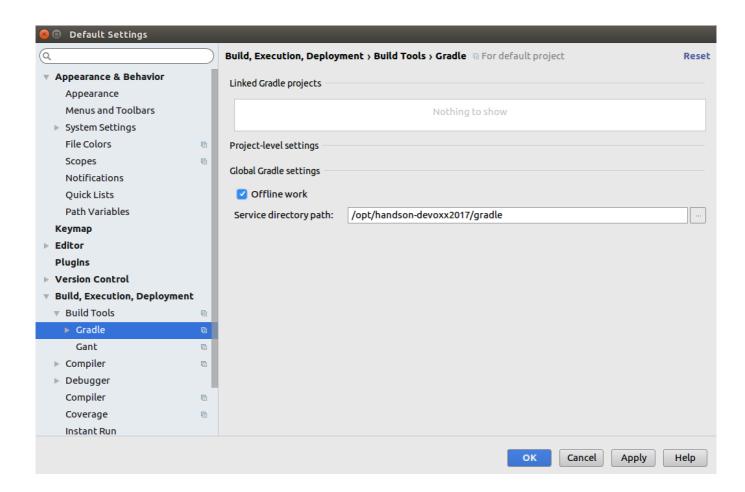
- X Start a new Android Studio project
- Den an existing Android Studio project
- Check out project from Version Control +
- Import an Android code sample

SDK Manager

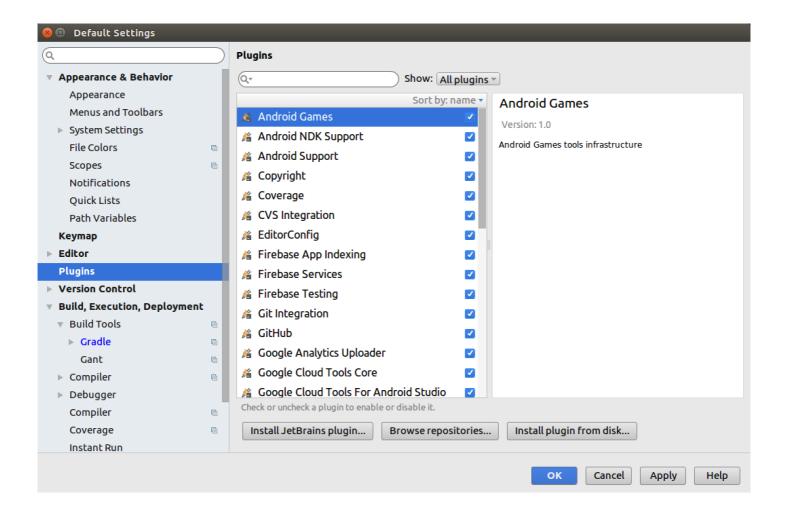
Settings

Plugins
Import Settings
Export Settings
Settings Repository...
Create Desktop Entry
Check for Update
Project Defaults

- Select Build, Execution, Deployment | Gradle
- Check Offline work
- Set service directory path to: /opt/handson-devoxx2017/gradle
- Then Click on Apply button

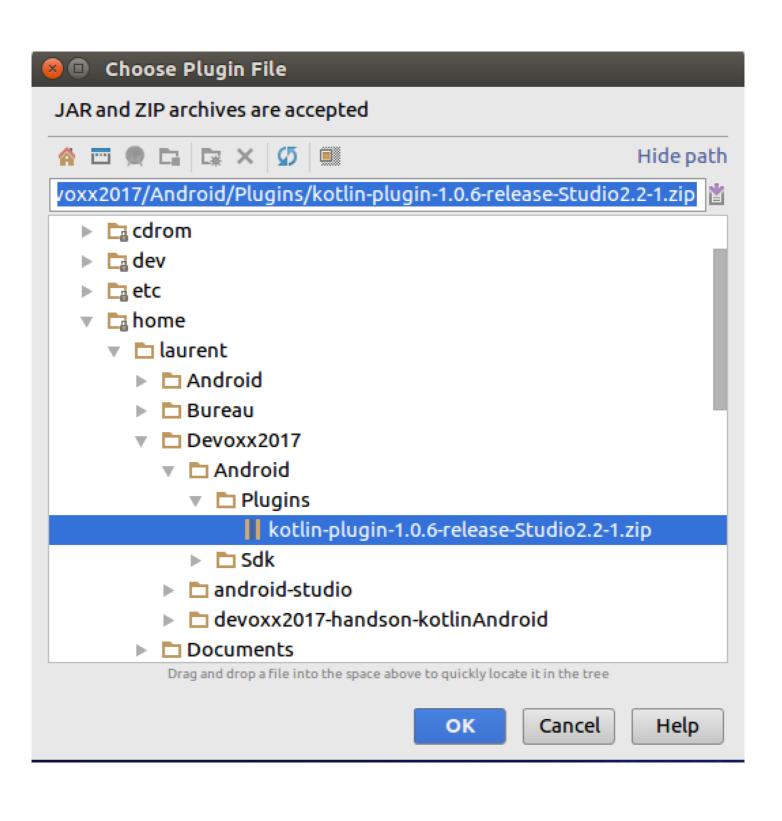


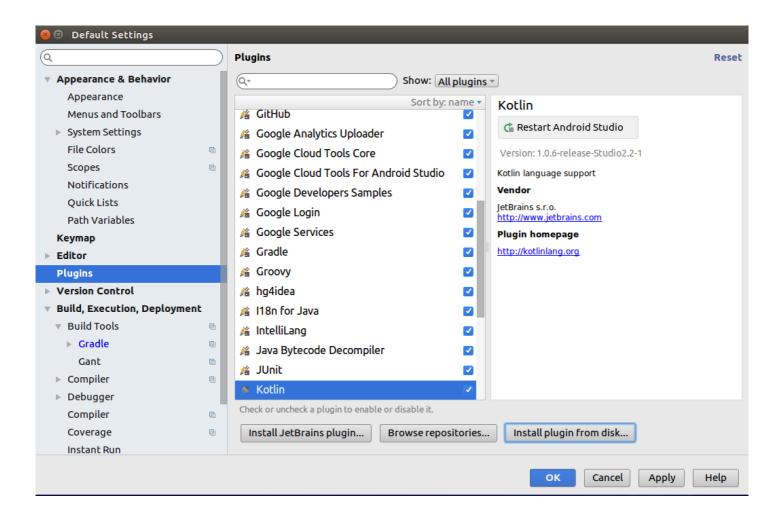
- Select Plugins
- Click on Install plugin from disk... button



Kotlin 1.0.6 plugin is provided along with the Android SDK archive under the Plugins directory:

• ~/Hands-on/Android/Plugins/kotlin-plugin-1.0.6-release-Studio2.2-1.zip





- Then Click on Apply button
- Click on Restart Android Studio button

5. Import Hands-on project



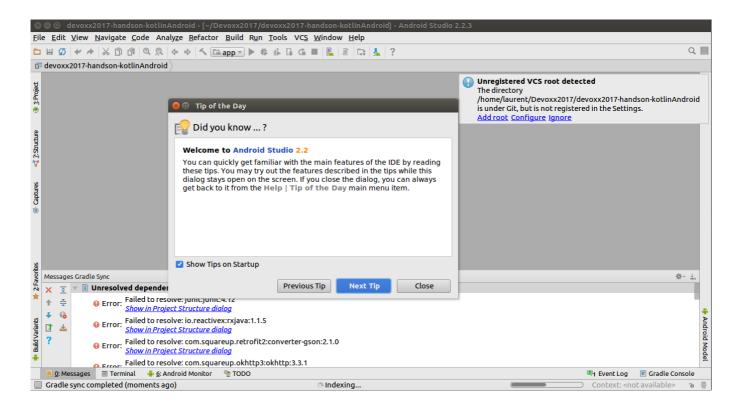


Version 2.2.3

- X Start a new Android Studio project
- Den an existing Android Studio project
- Check out project from Version Control -

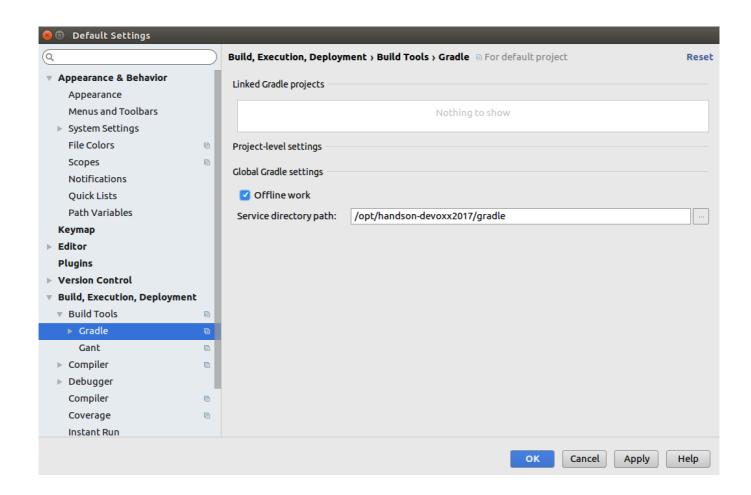
Configure → Get Help →

- Click Import project (Eclipse ADT, Gradle, etc.) and choose ~/Hands-on/2017-handson-kotlinAndroid directory
- Click Add Root



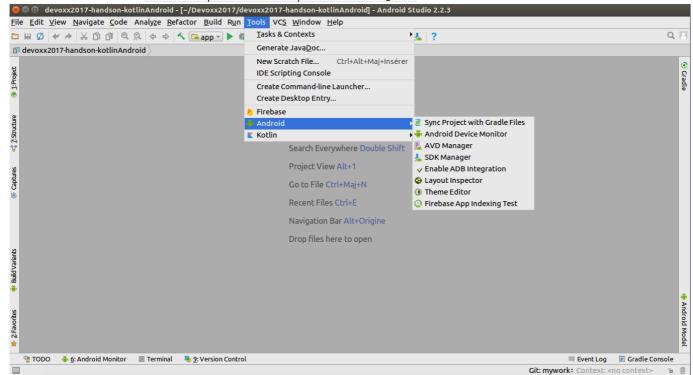
If there is still some errors with Gradle... Double check the following.

- Open File | Settings... menu
- Select Build, Execution, Deployment | Gradle
- Check Offline work
- Set service directory path to: /opt/handson-devoxx2017/gradle
- Then Click on Apply button



6. Create Virtual Device for Emulator

• Click on the menu: Tools | Android | AVD Manager :



• Click on Create Virtual Device... button