Becoming a Pro

IN Mobile Applications Testing



How to enable Developers Options?

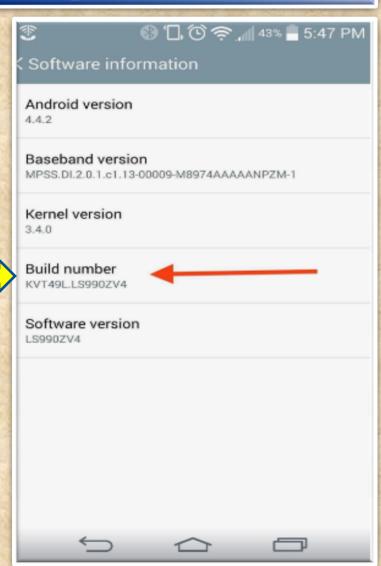
 Enable USB debugging in the device system settings, under Developer options.



2. To make it visible, go to **Settings** > **About phone** and tap **Build** number **Seven times**.



3. Return to the previous screen to find **Developer options** at the bottom.



(contin.) How to enable Developers Options?

Open Developers Options



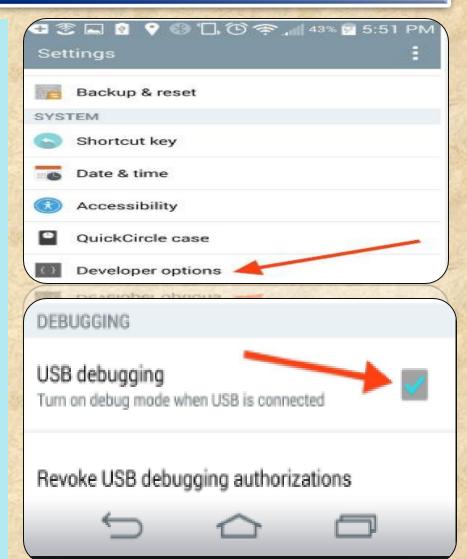
Check the box **USB debugging**.



This setting will allow you to connect your device to your computer, then issue **fastboot** commands via **ADB**.



This is useful for rooting, unlocking bootloaders, installing recoveries, and a ton more.



Do I have a correct USB Configuration on my Device?

Open Developers Options



Tap on "Select USB Configuration" Menu

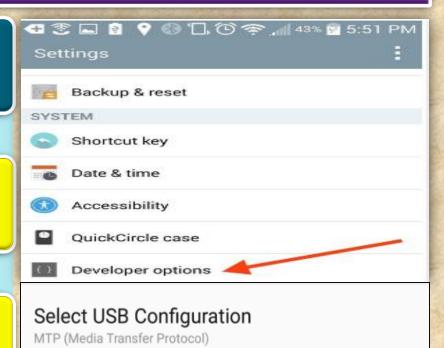


Make sure it's set to MPT

(Media Transfer Protocol)



Having a problem with your PC detecting your Device? This might be a solution.



Select USB Configuration Charging MTP (Media Transfer Protocol) PTP (Picture Transfer Protocol) Audio Source MIDI

How to make your device "Authorized" in Android Studio?

Open Developers Options



Tap on

"Revoke USB Debugging Authorization"

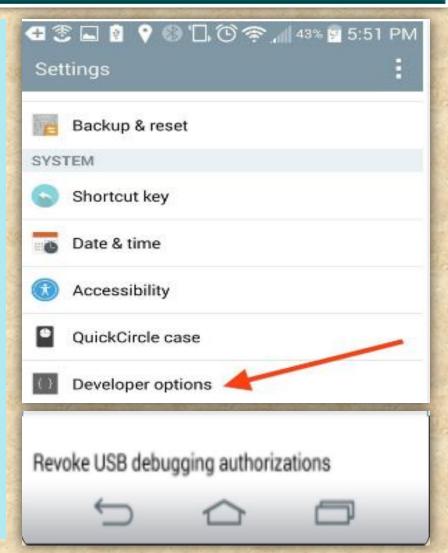


Tap OK when message pops up "revoke access to USB debugging..."



Disconnect and then connect USB cable to your PC/Laptop

Sometime you will need to turn off and back ON Developers Options menu (don't forget to check USB debugging box again)





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Android Studio

What is Android Studio?

Android Studio?

Android Studio is the official integrated development environment (IDE) for **Android** platform development.

The official language for Android development is **Java**. Large parts of Android are written in **Java** and its APIs are designed to be called primarily from **Java**.

It is possible to develop C and C++ apps using the Android Native Development Kit (NDK), however it isn't something that Google promotes.



What is ADB in Android Studio

Android Debug Bridge (adb) is a versatile command line tool that lets you communicate with an emulator instance or connected Android-powered device.

It is a client-server program that includes three components:

A client, which sends commands. The client runs on your development machine. You can invoke a client from a shell by issuing an adb command. Other Android tools such as DDMS also create adb clients.

A daemon, which runs commands on a device. The daemon runs as a background process on each emulator or device instance.

A server, which manages communication between the client and the daemon. The server runs as a background process on your development machine.

What is ADB LOCATS?

Logcat is a commandline tool that dumps a log of system messages, including stack traces when the device throws an error and messages that you have written from your app with the Log class ANDROID MONITOR includes a logcat Monitor that displays debug messages.

The logcat Monitor displays system messages, such as when a garbage collection occurs, as well as messages that you can add to your app using the LOG class.

It displays messages in real time and also keeps a history so you can view older messages.

What is ADB LOCATS?

To set a LOG
LEVEL: in the
log level MENU
Select the
Following
Options

Verbose - Show all log messages (the default).

Debug - Show debug log messages that are useful during development only, as well as the message levels lower in this list.

Info - Show expected log messages for regular usage, as well as the message levels lower in this list.

Warn - Show possible issues that are not yet errors, as well as the message levels lower in this list.

Error - Show issues that have caused errors, as well as the message level lower in this list.

Assert - Show issues that the developer expects should never happen.

What is ADB LOCATS?

<u>HOMEWORK</u>: http://adbshell.com/commands/adb-logcat

Some most useful commands

adb logcat *:V lowest priority, filter to only show Verbose level

adb logcat *:D filter to only show Debug level

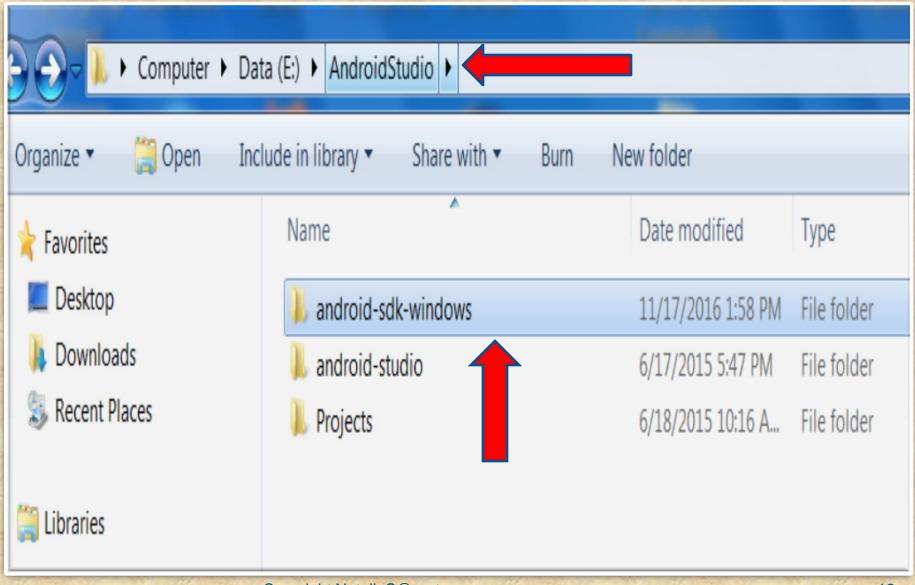
adb logcat *: I filter to only show Info level

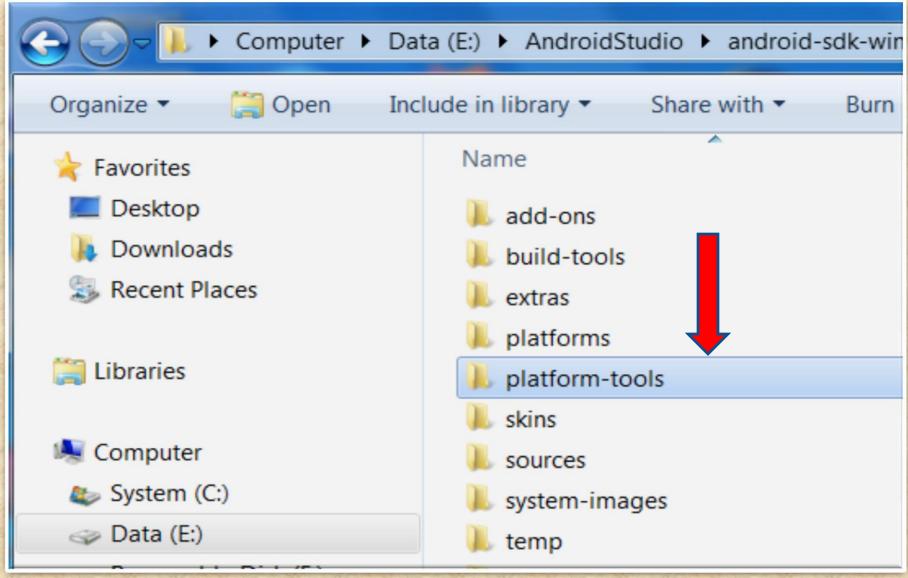
adb logcat *:W filter to only show Warning level

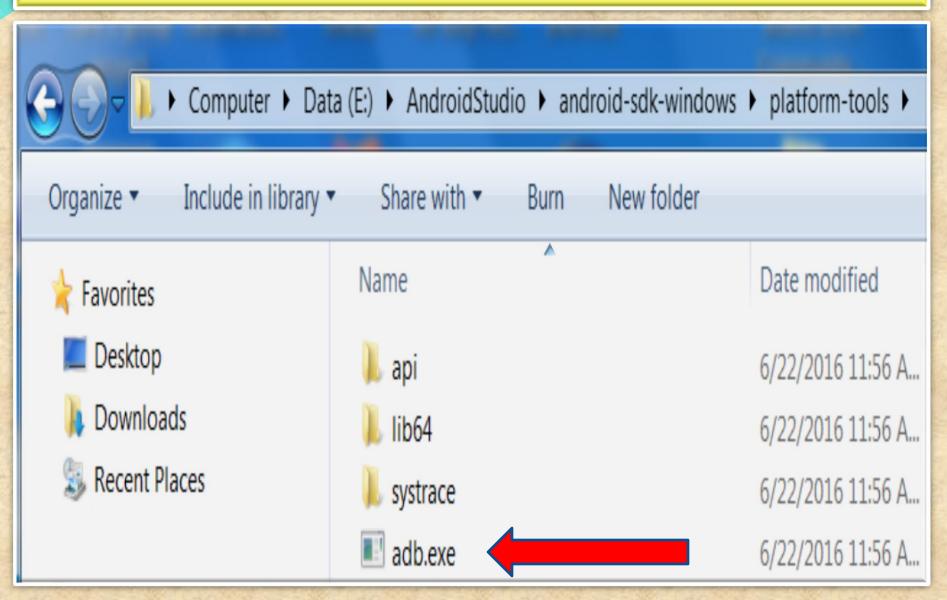
adb logcat *: E filter to only show Error level

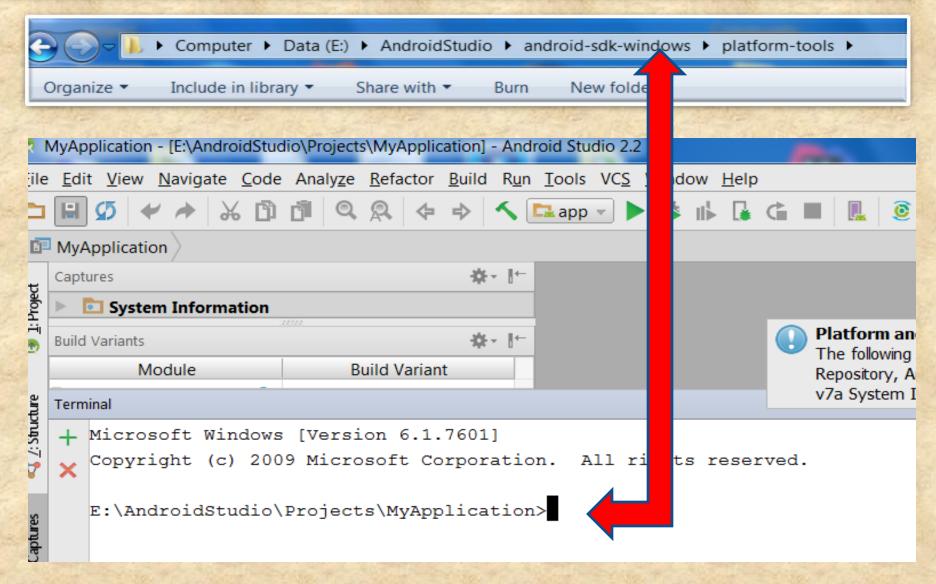
adb logcat *:F filter to only show Fatal level

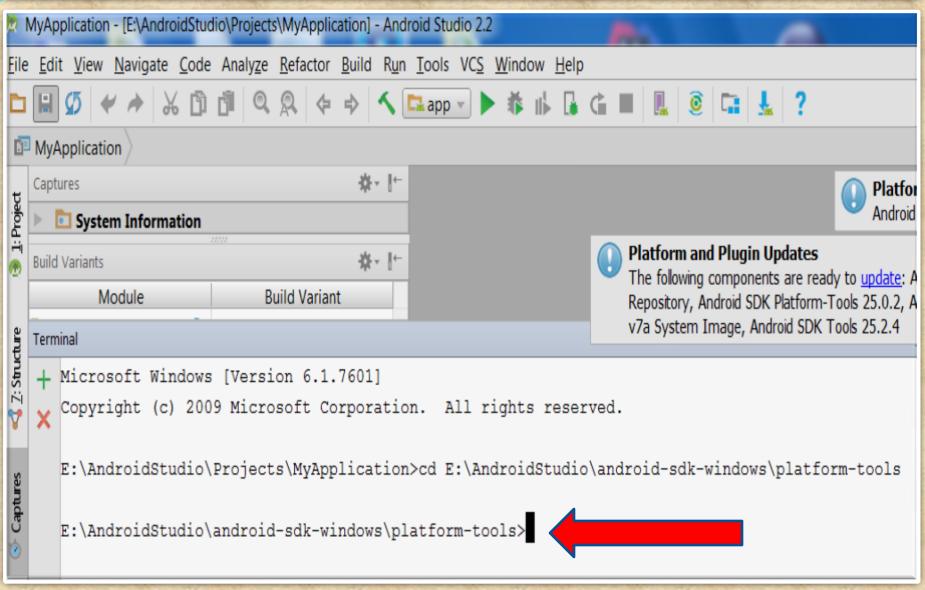
adb logcat *:T filter to show steps leading up to errors and warnings

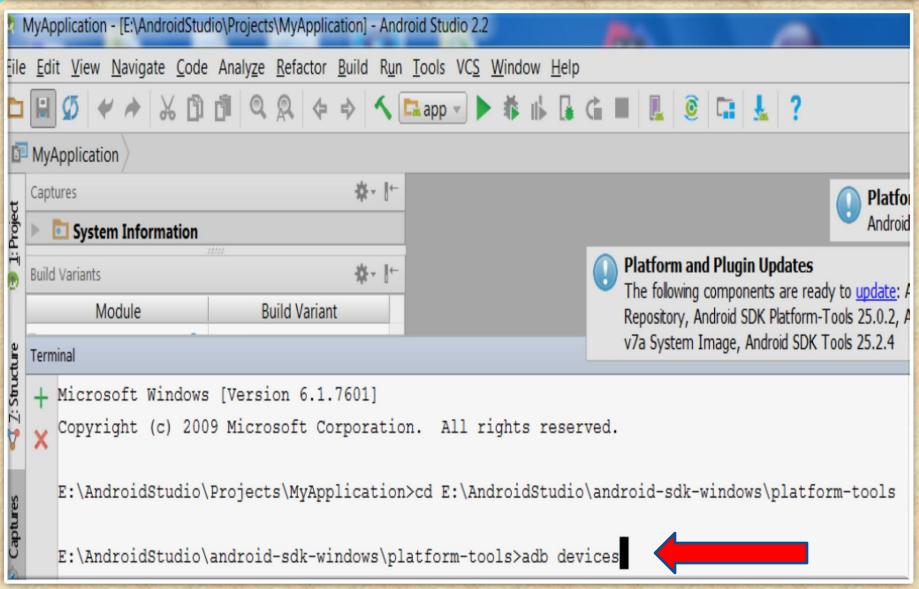


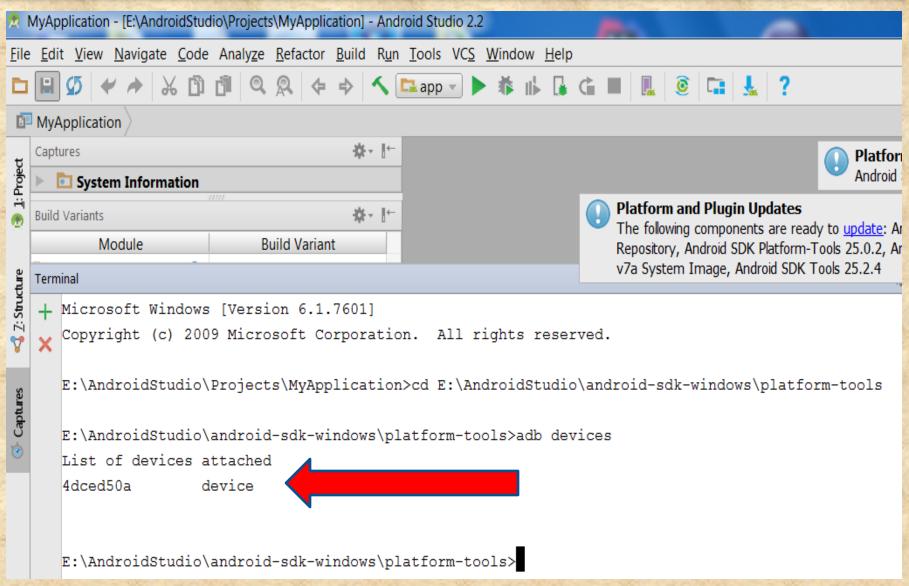


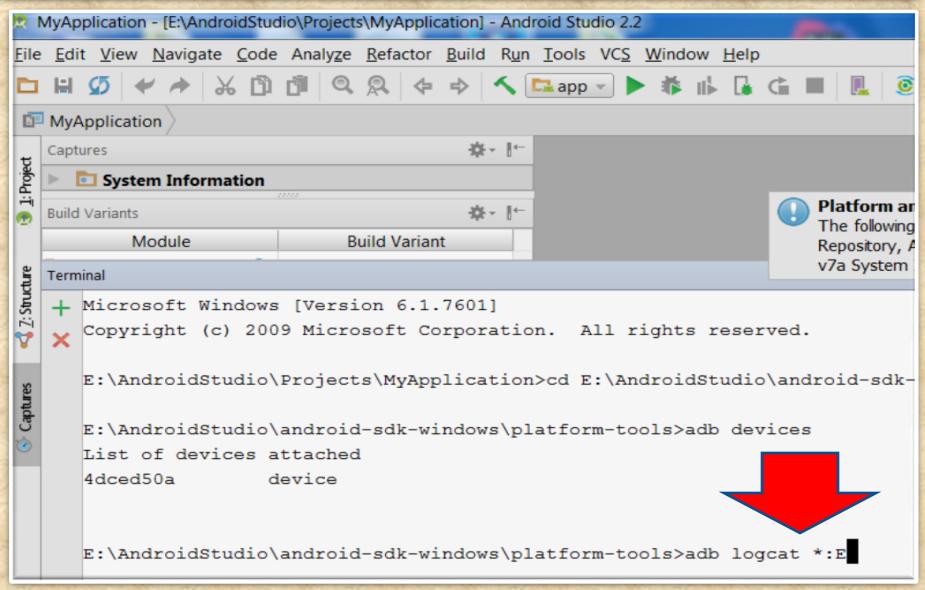


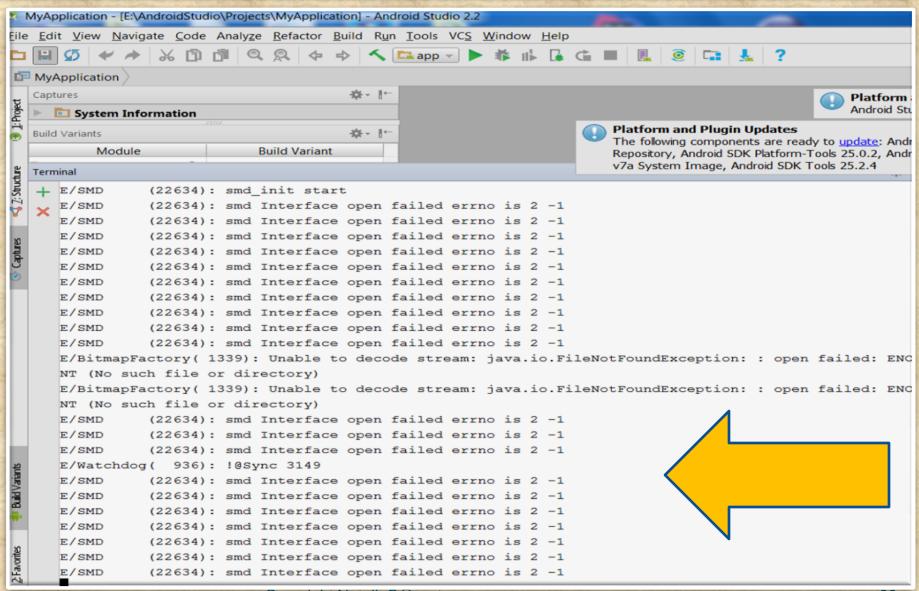


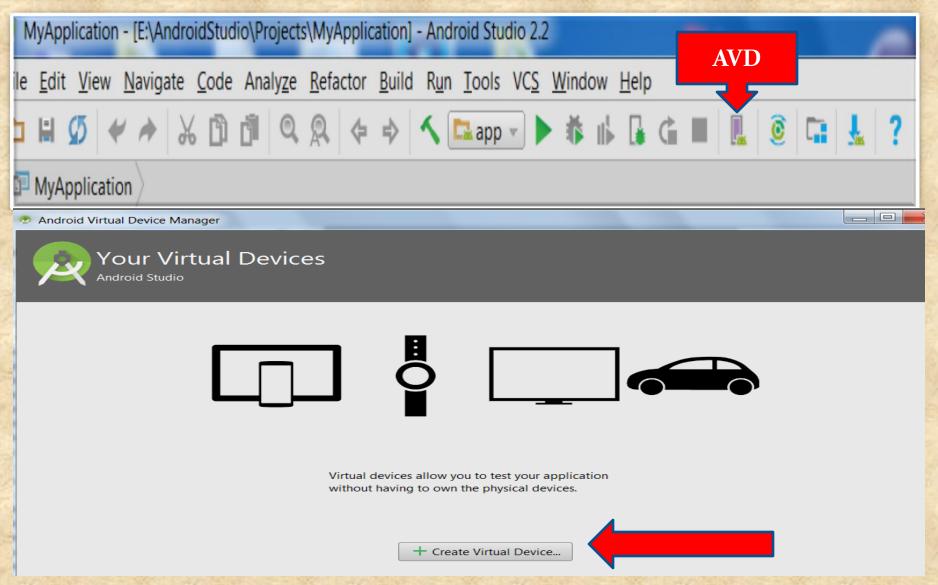


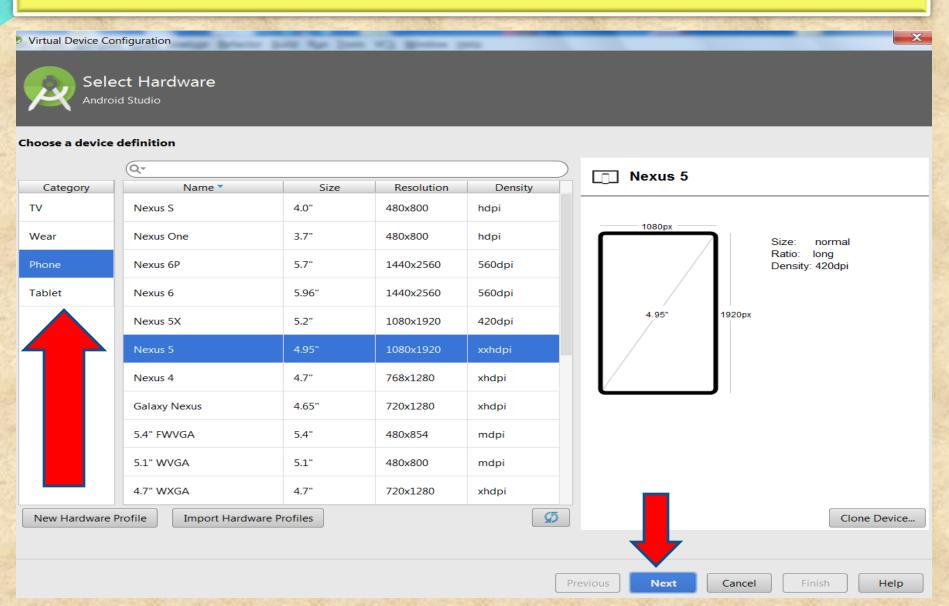


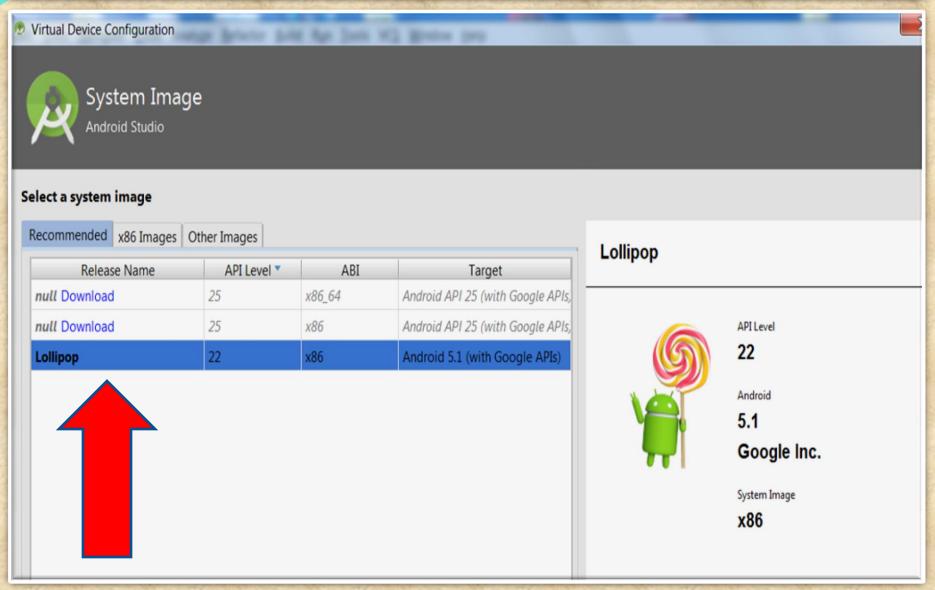


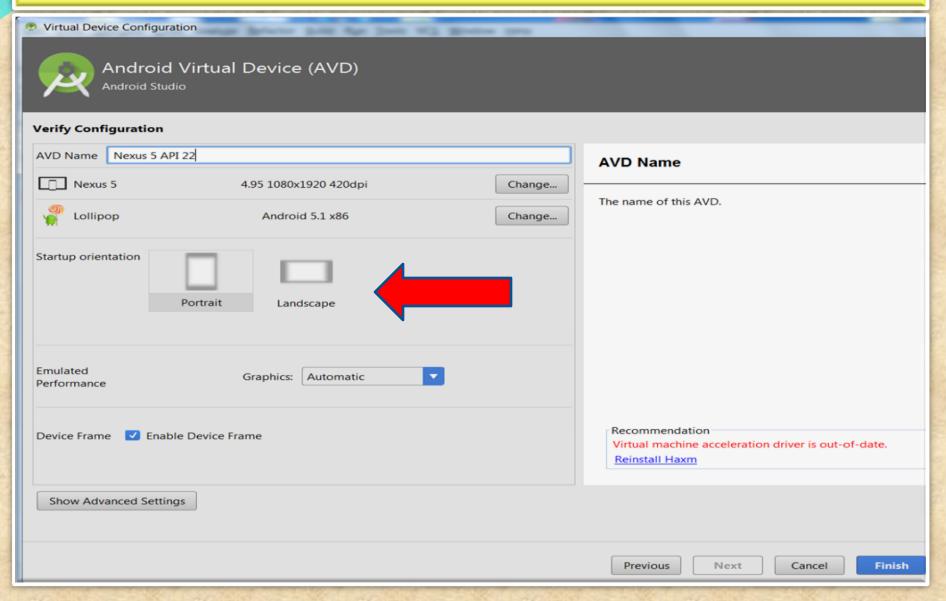


















Туре	Name	Resolution	API	Target	CPU/ABI	Size on Disk	Actions
	Nexus 5 API 22	1080 × 1920: xxhdpi	22	Android 5.1 (Goog	x86	650 MB) / v

Edit > Set Graphics to Software GL2.0