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Android Studio

CSC3054 / CSC7054

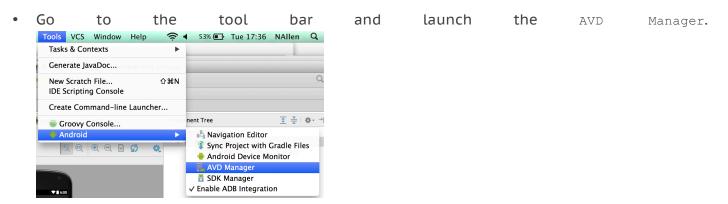
Working with the emulator

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Working with the emulator

What if you wanted to test an app on a different phone, say the <code>Galaxy Nexus</code>? In this case, rather than run out and buy a new <code>Galaxy Nexus</code>, it is possible to run the <code>HelloAndroid</code> program on an emulated <code>Galaxy Nexus</code> using the <code>Android Emulator</code>. In order to do this an emulated phone instance should be created and used inside the emulator. These emulated phone instances are called <code>Android Virtual Devices</code>, or <code>AVDs</code>.

Go back to the IDE and set up an Android virtual device corresponding to a Galaxy Nexus.



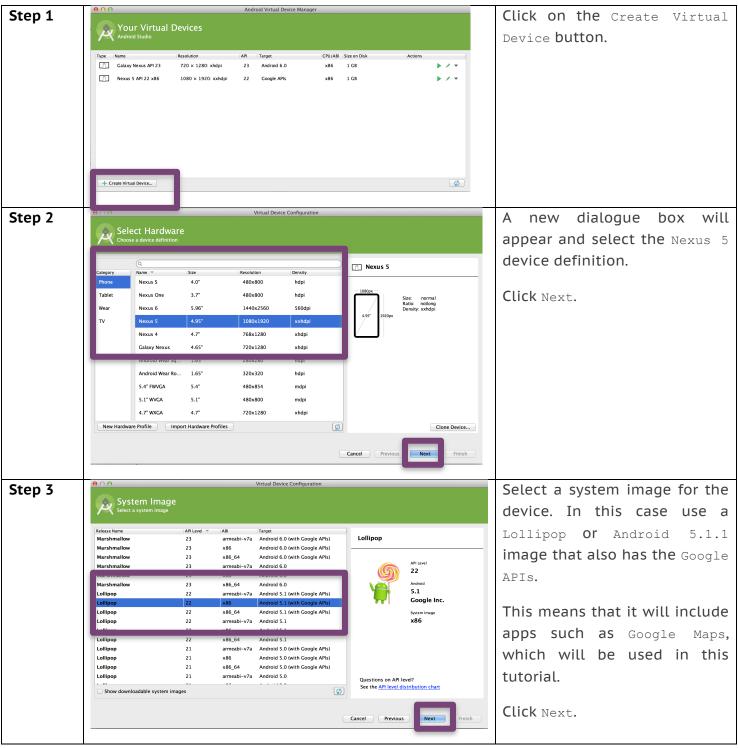
· Alternatively, look for the icon that shows an Android in front of a device, click on it



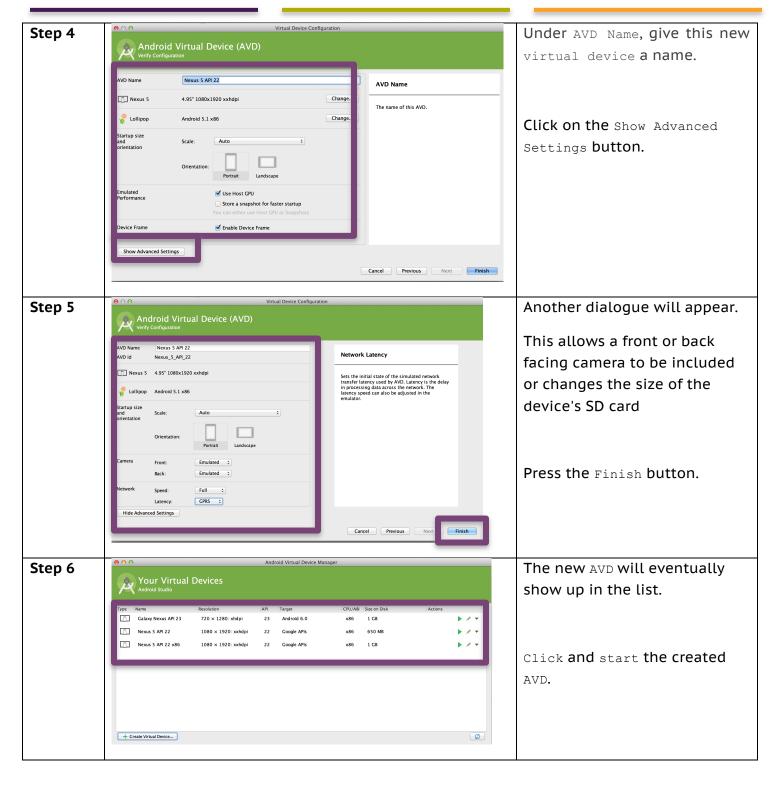
• A dialogue box will be displayed showing existing virtual devices. It will also allow you to make new ones.



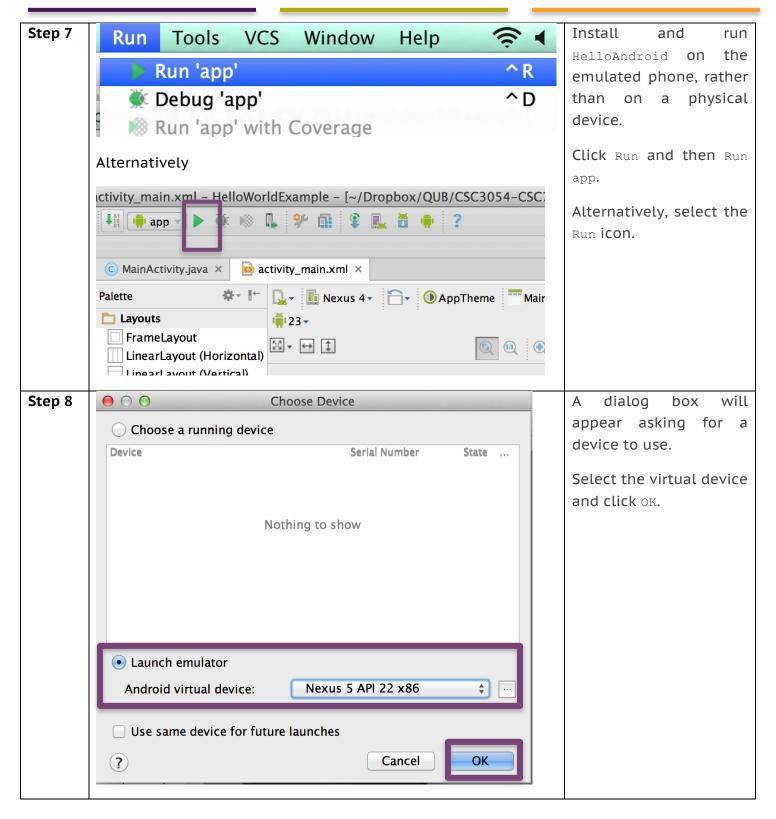
Create a new virtual device.



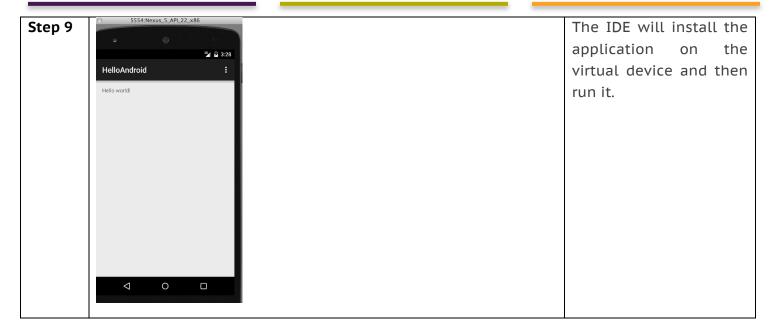












Why use an Emulator?

Advantages	Disadvantages
Emulators are cheaper than actual devices.	The Android emulator is really slow. This can be frustrating when rapidly experimenting and tuning an app
You don't have to buy all the devices that you may want to test on.	Some features are not well supported by the emulator. For instance, there's no support for Bluetooth connectivity and no support for connecting accessories to the emulator via USB cables.
The emulator allows you to easily configure hardware characteristics like the size of the SD card you have, the display size, and whether the device has a track ball.	Some software features aren't available by default in the emulator, so certain applications may not run on it.
Any modifications made are isolated to the emulated device so you don't have to worry that your testing will mess up your phone or its data	The emulator is not the device. It is not possible to really know how an app is going to look and perform on an actual device just by looking at how it performs in the emulator.