# Dev Environment:

## Android

## Mobile and Ubiquitous Games

ICS 163

Donald J. Patterson

# Out of the box experience

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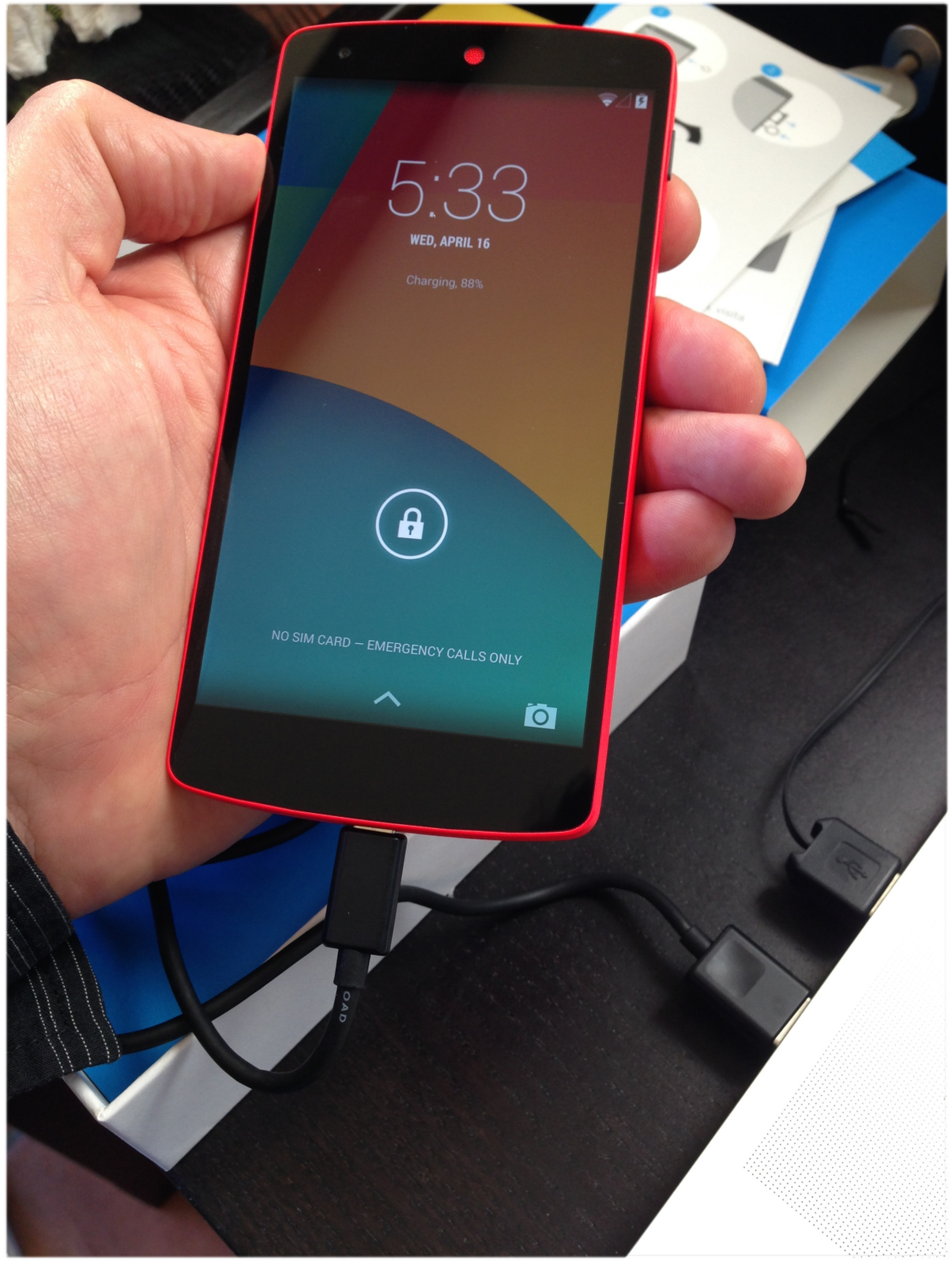


# Out of the box experience

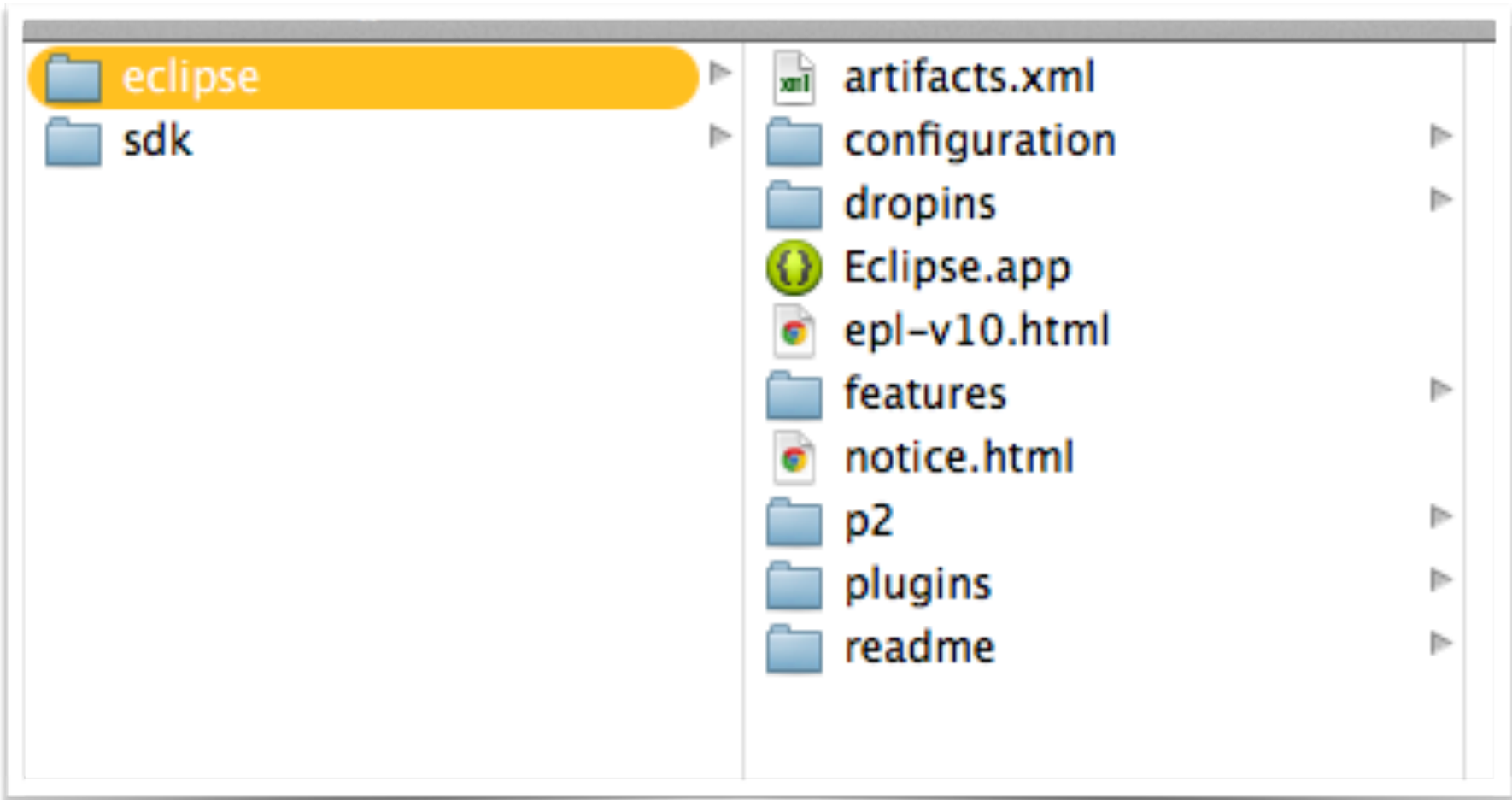
- Don’t worry about SIM cards - wifi only
- Connect to Wifi
- Don’t associate with your Google account
- Enable Location Services
- Personalize the phone with “Peter Anteater”
- Dial *#*#checkin#*#* to update phone
  - “checkin succeeded”
- Connect USB on phone to computer to charge it

# Setting up your environment

- http://developer.android.com/
  - http://developer.android.com/sdk/index.html

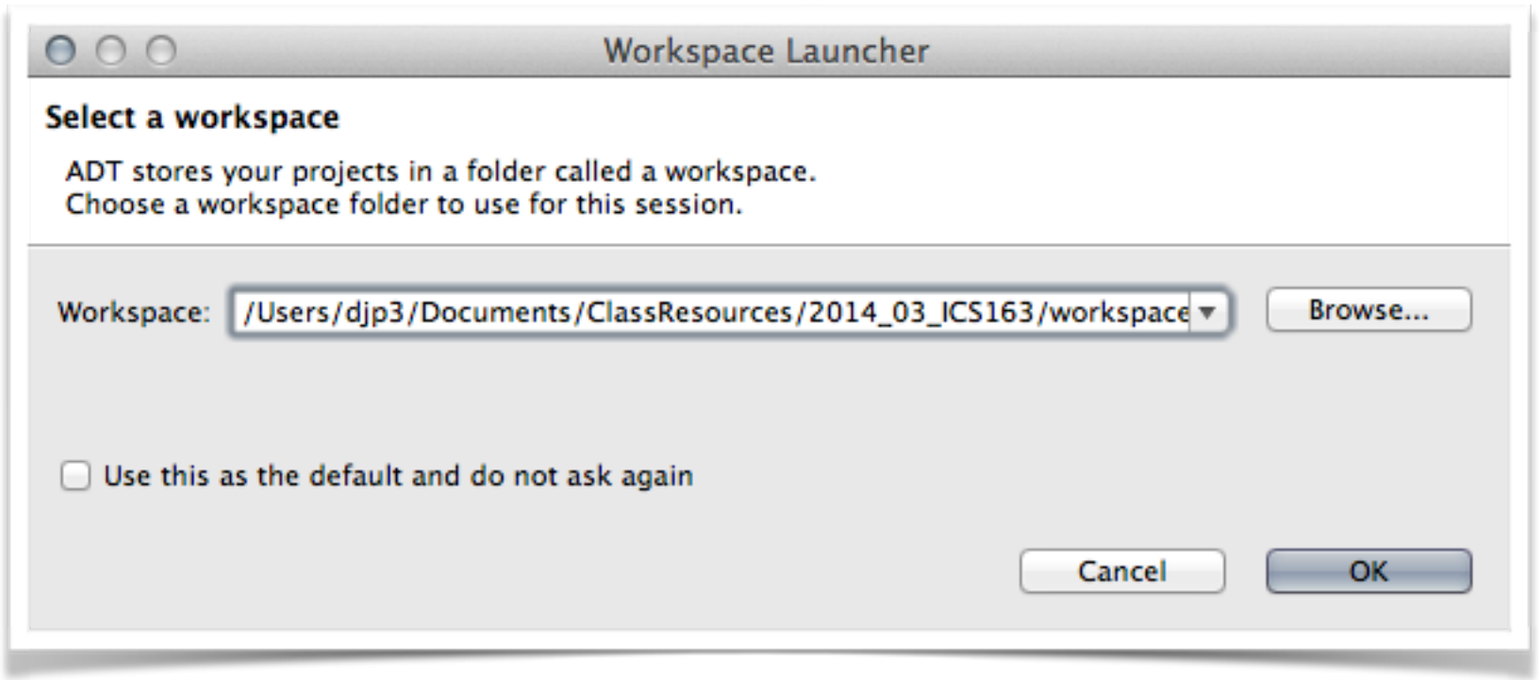
# Setting up your environment

- Unpacks into a self-contained installation of Eclipse with Android Software development Kit (SDK) and plug-ins installed



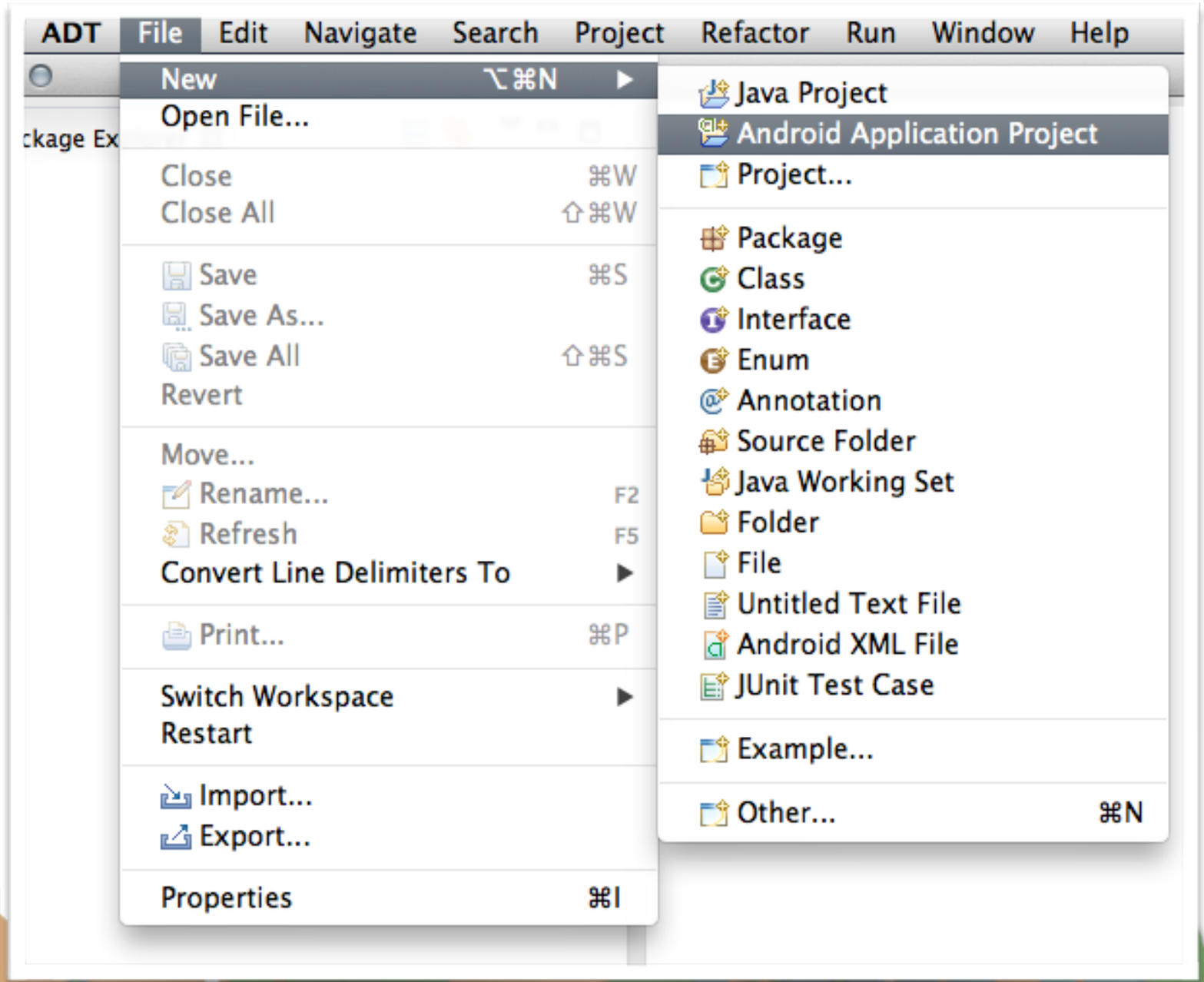
# Setting up your environment

- Like any Eclipse project, set up a workspace
- Should be unique for this class



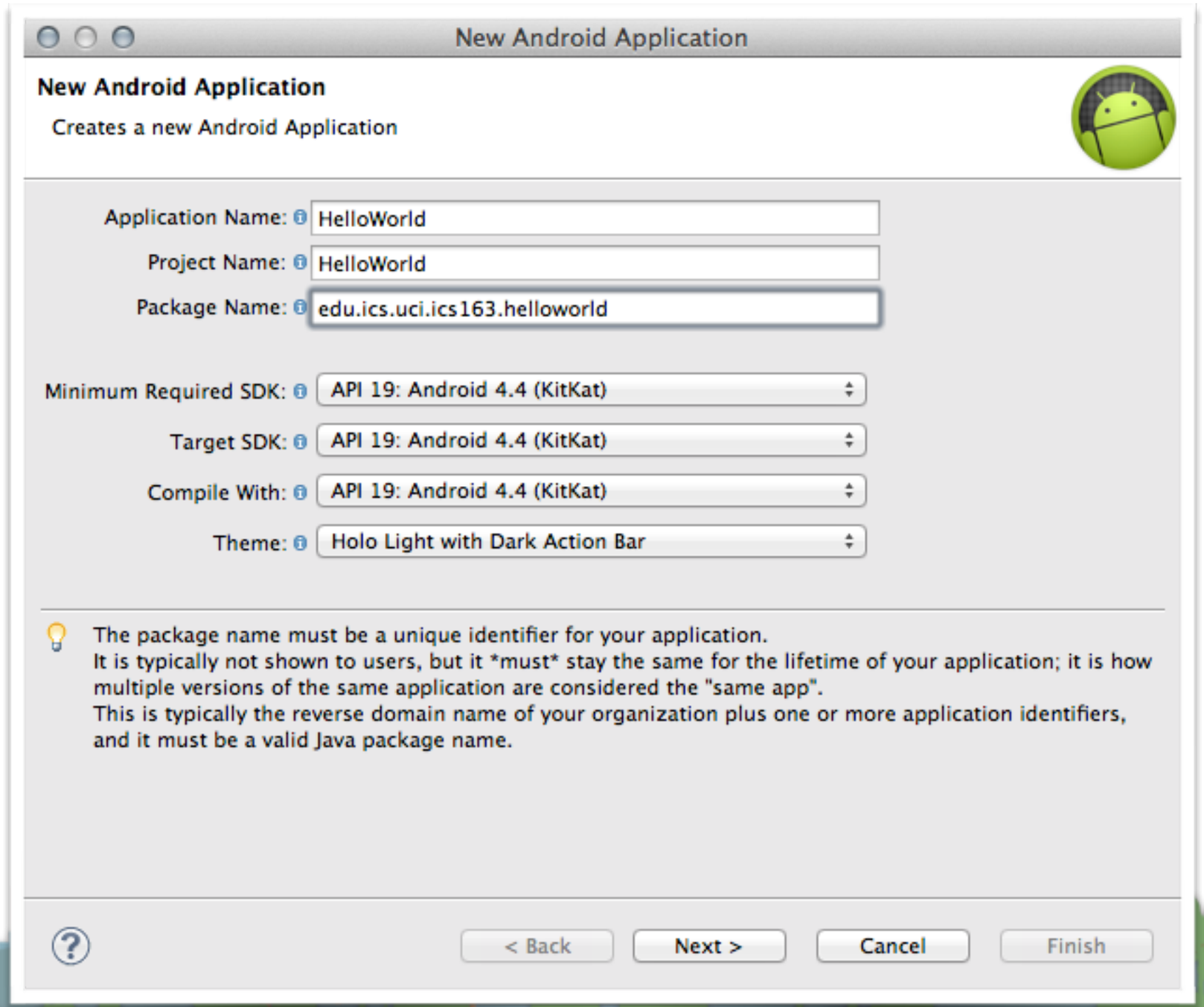
# Setting up your environment

- There are Android specific options
- Start a new app



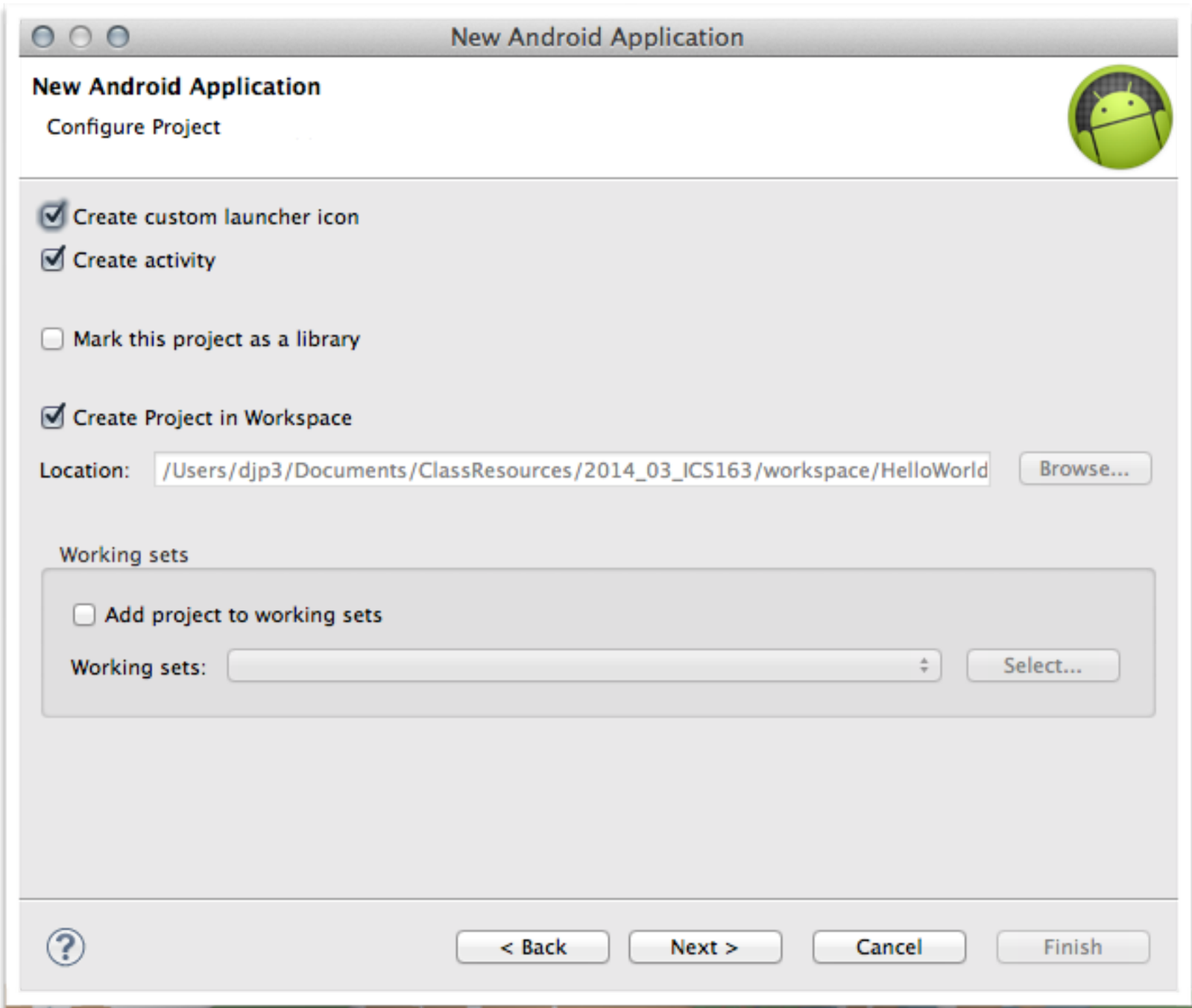
# Setting up your environment

- Minimum SDK is the oldest phone your app will work with
- 2.2 is probably the oldest you should consider



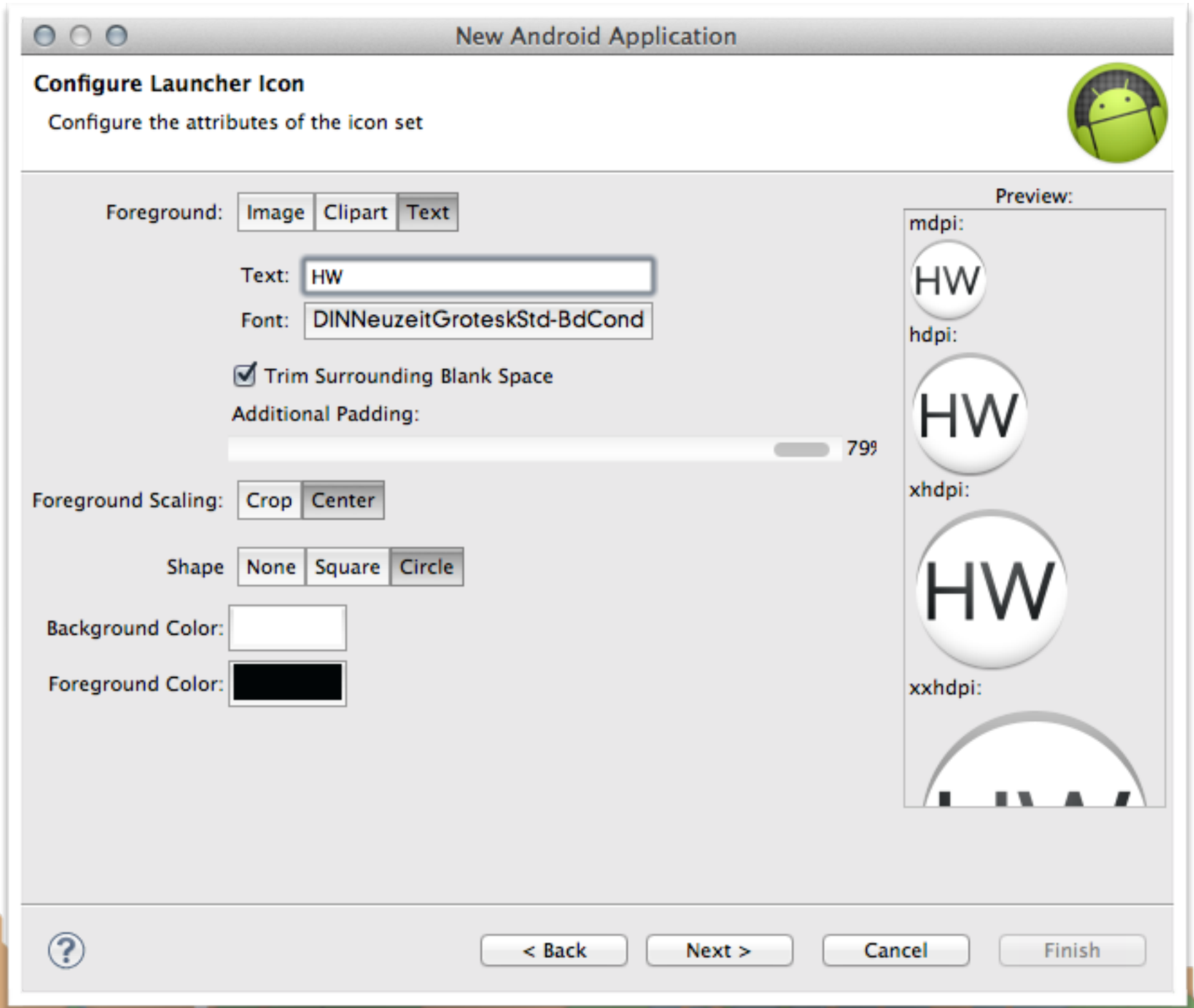
# Setting up your environment

- note “library” option



# Setting up your environment

- icon set up



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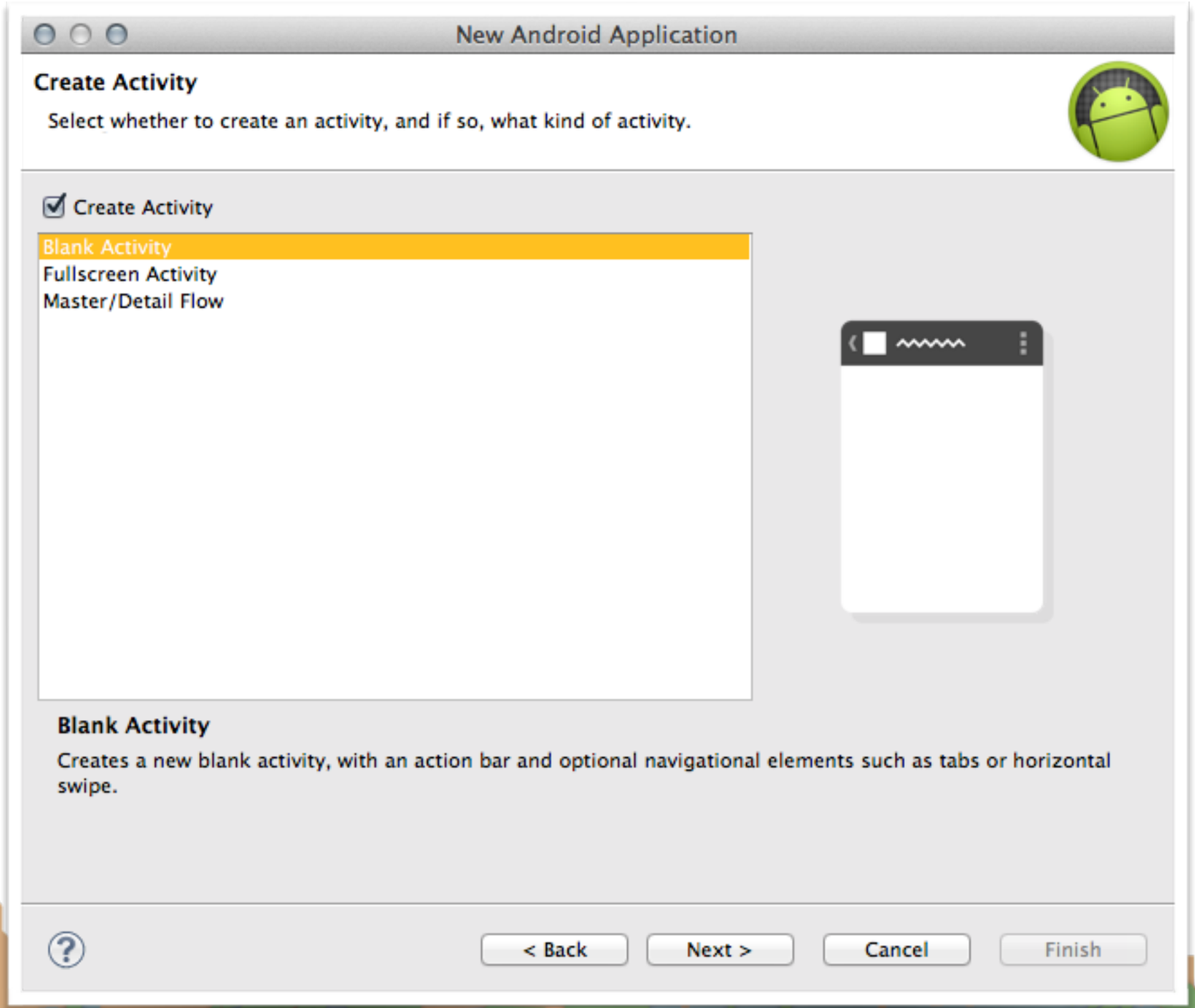
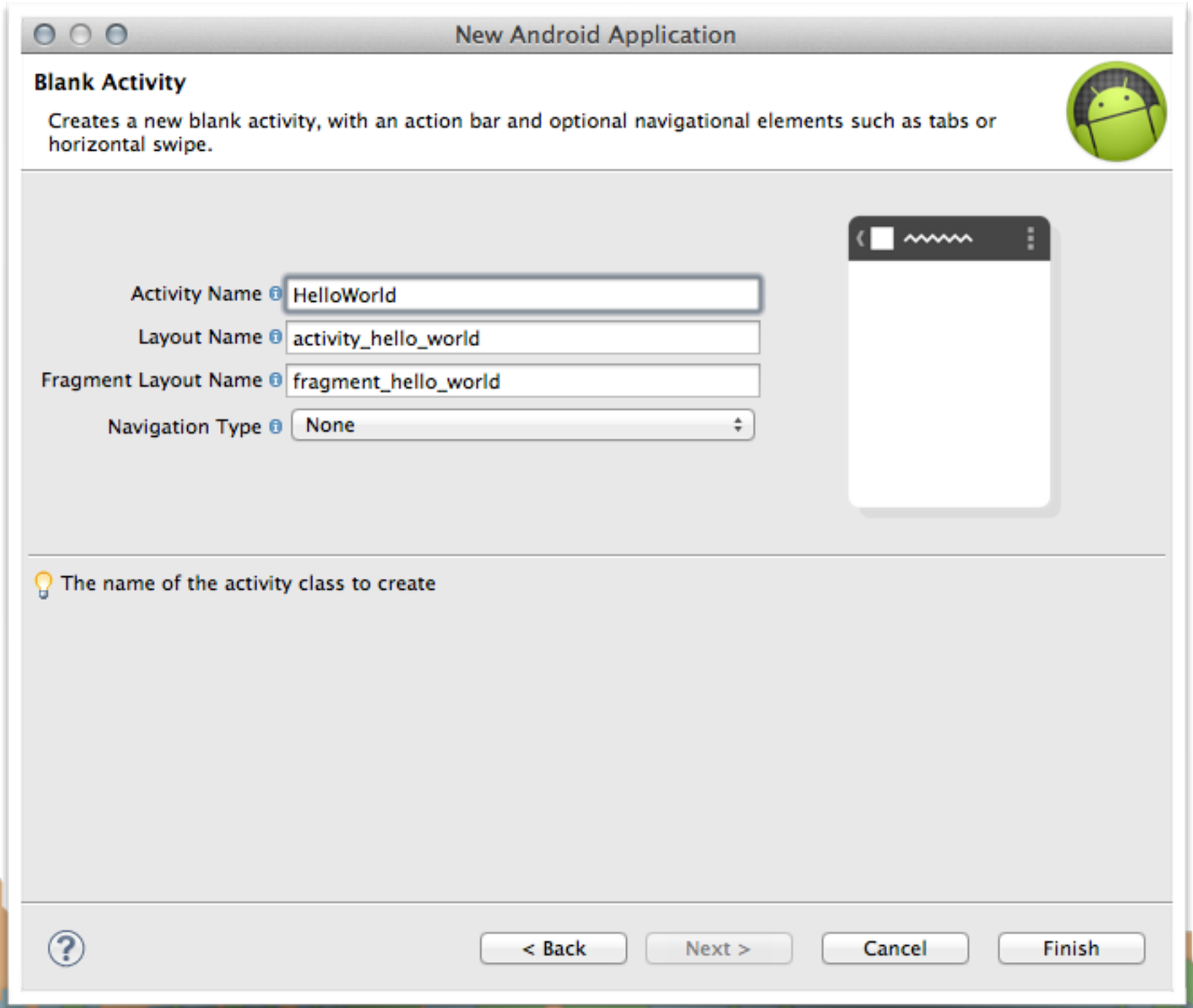


# Setting up your environment

- navigation style



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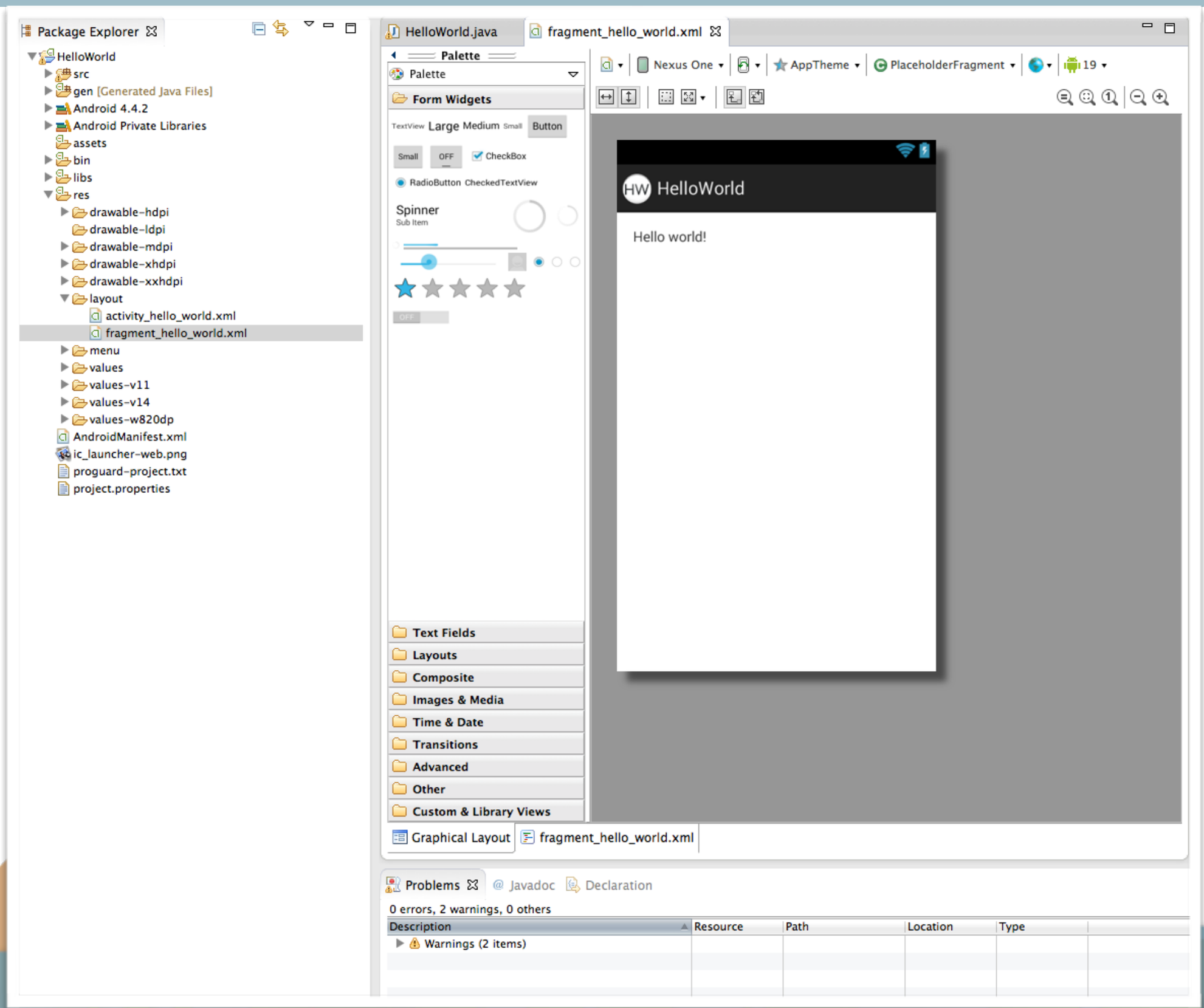
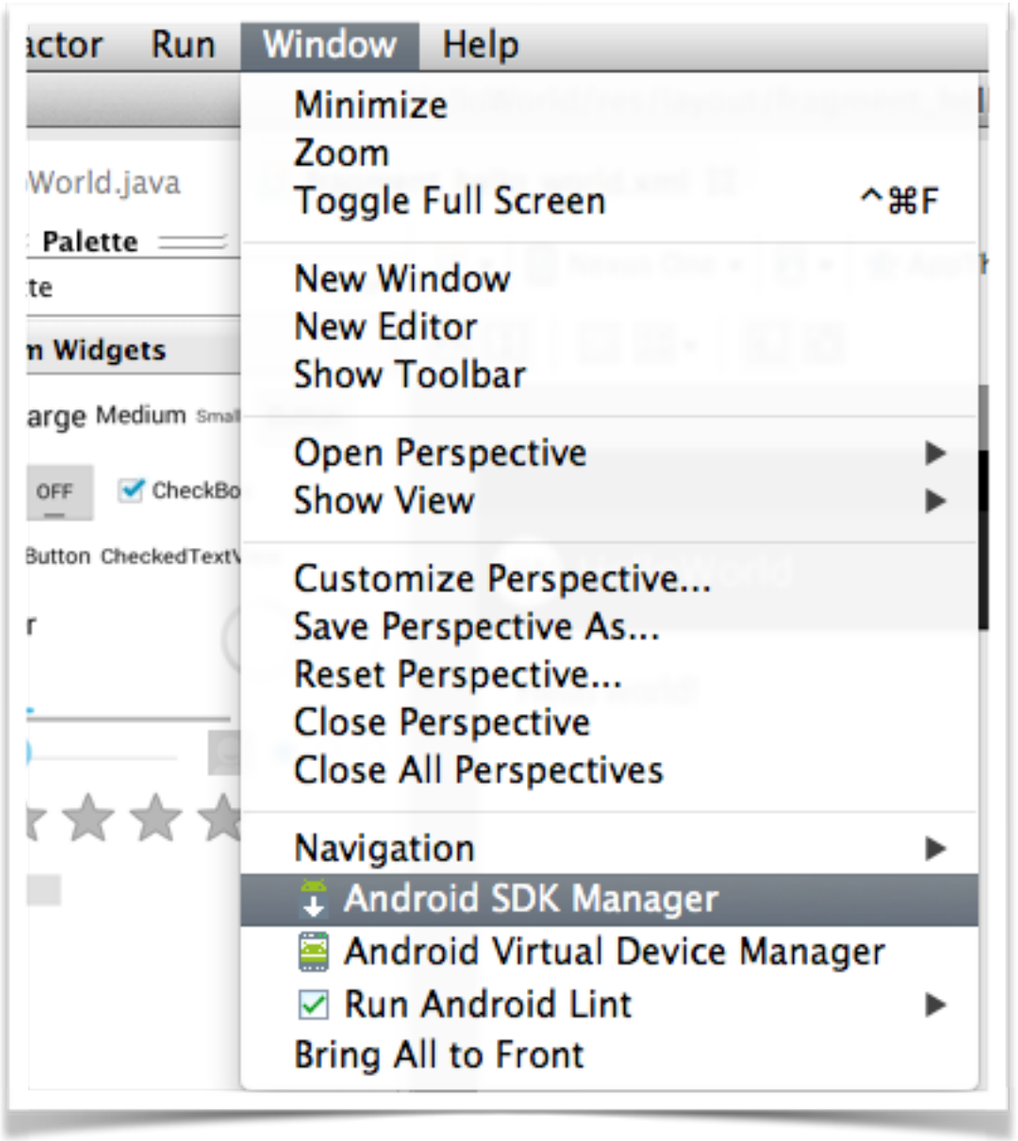


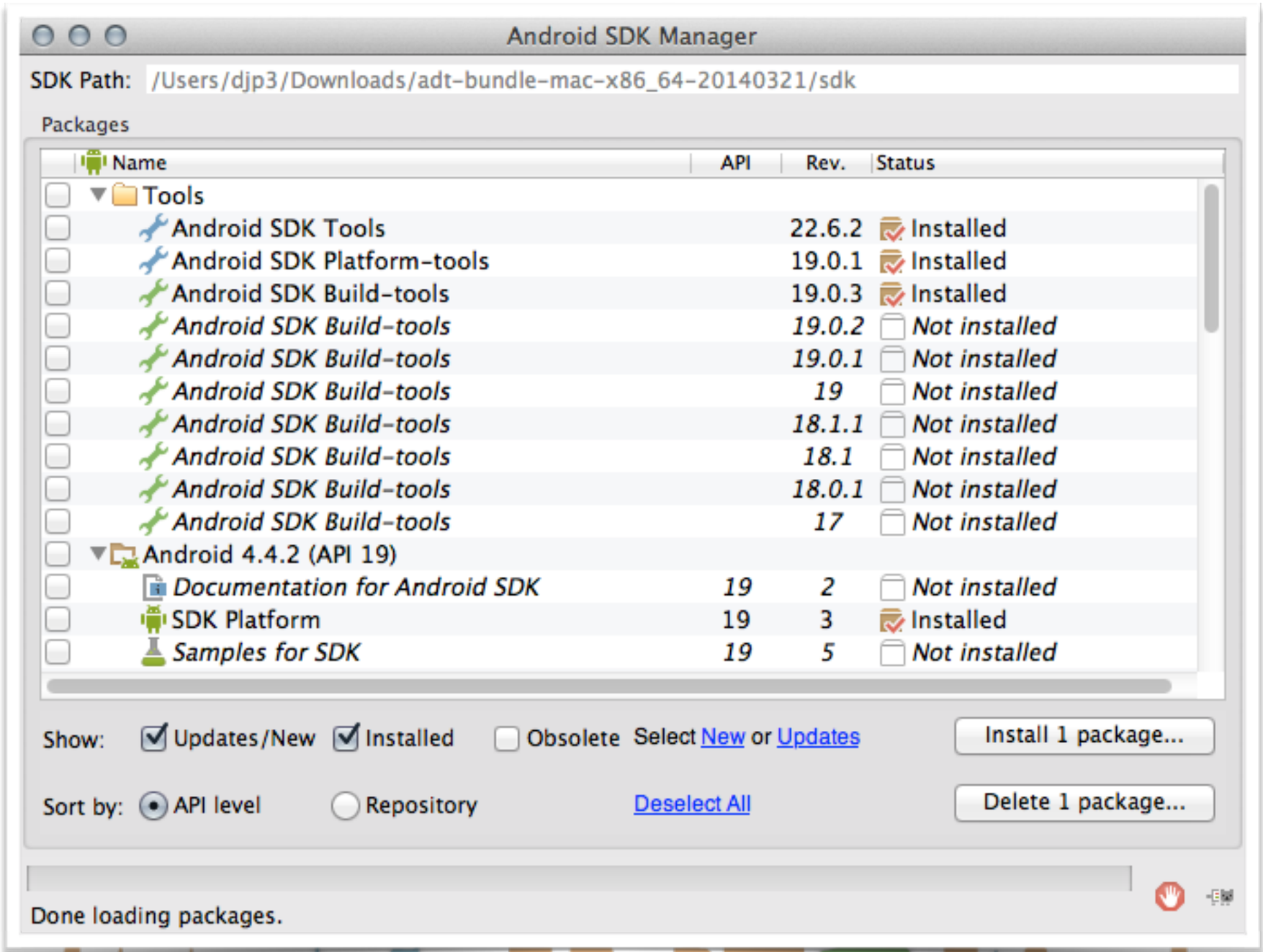
# Setting up your environment

- Let's make sure we have everything we need in the SDK



# Setting up your environment

- Install updates -> 4.4.3



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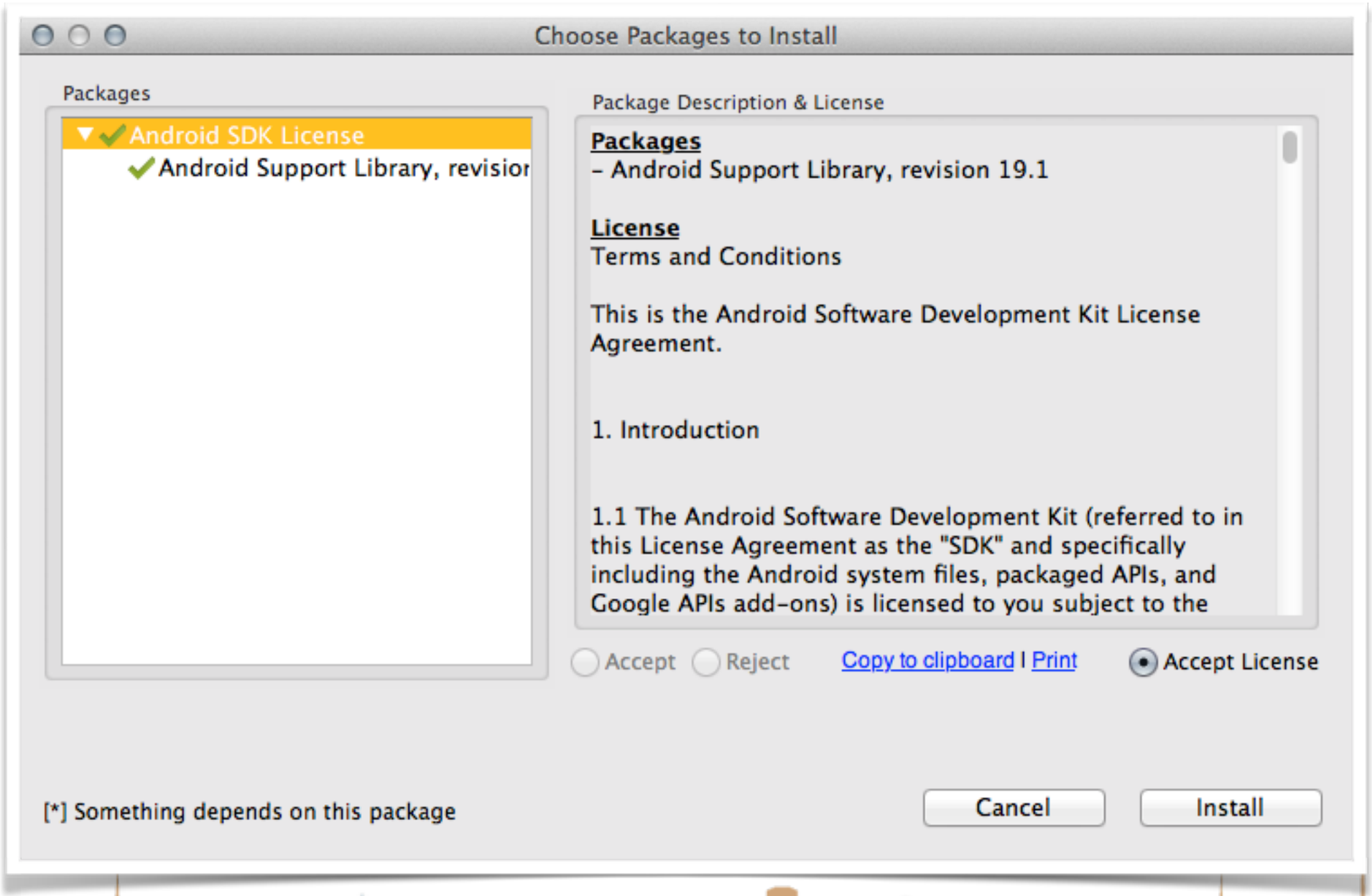
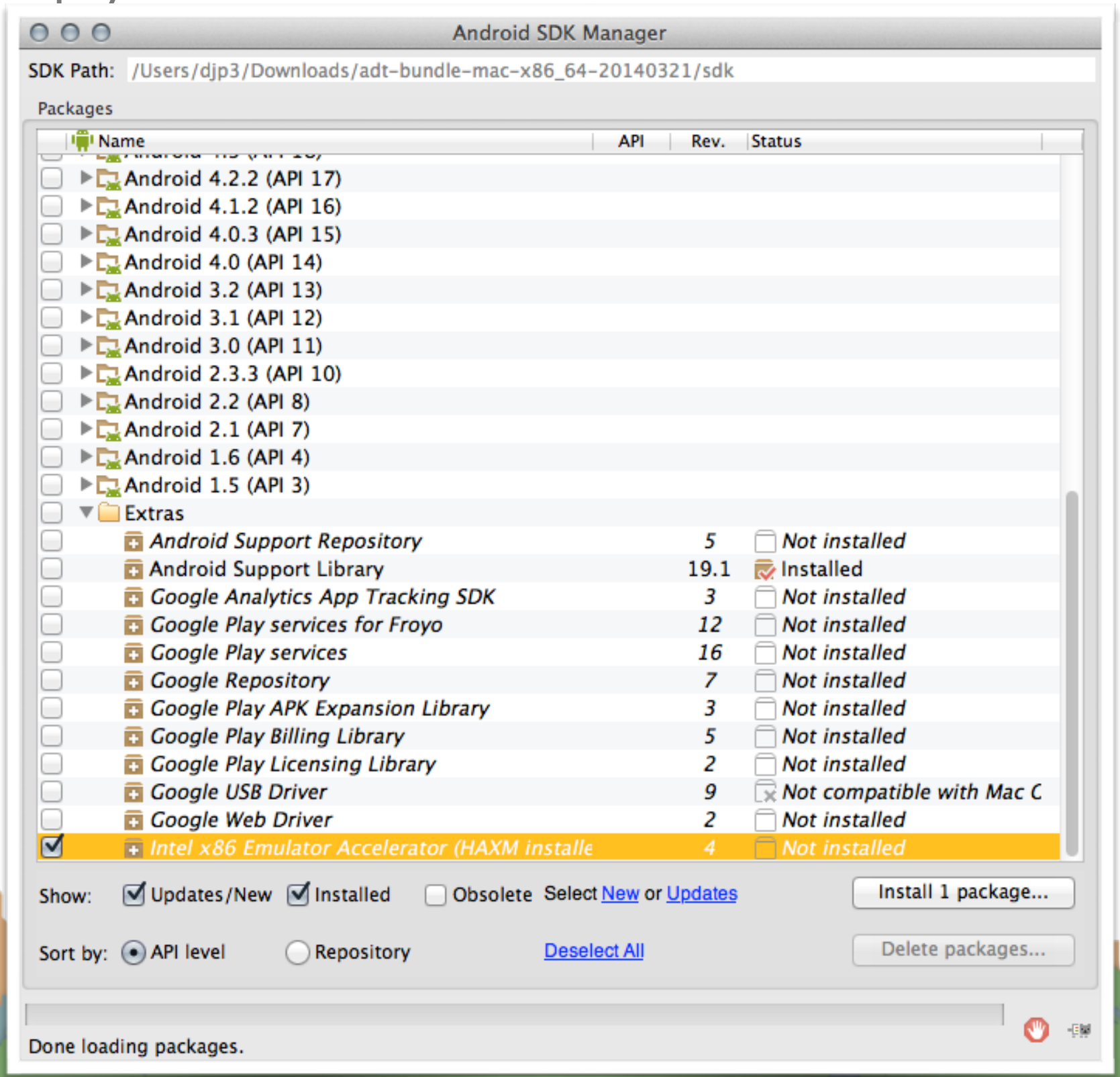


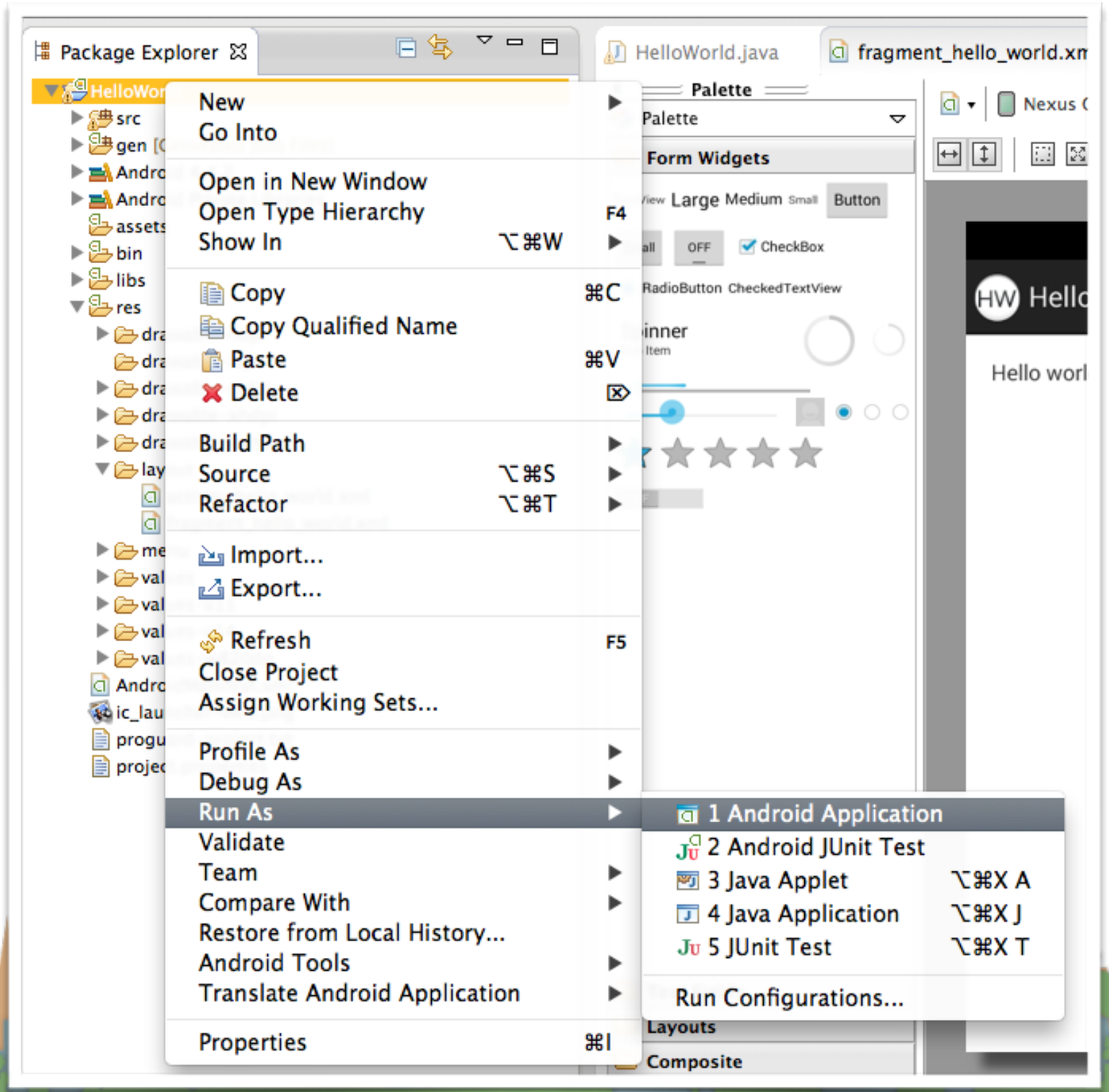
# Setting up your environment

- Beef up your emulator



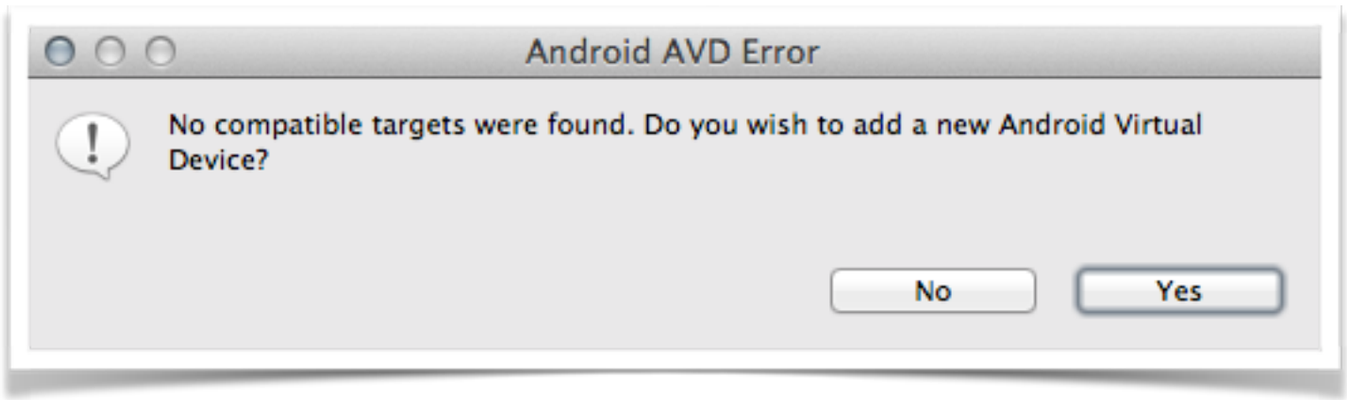
# Setting up your environment

- Run your Hello World app



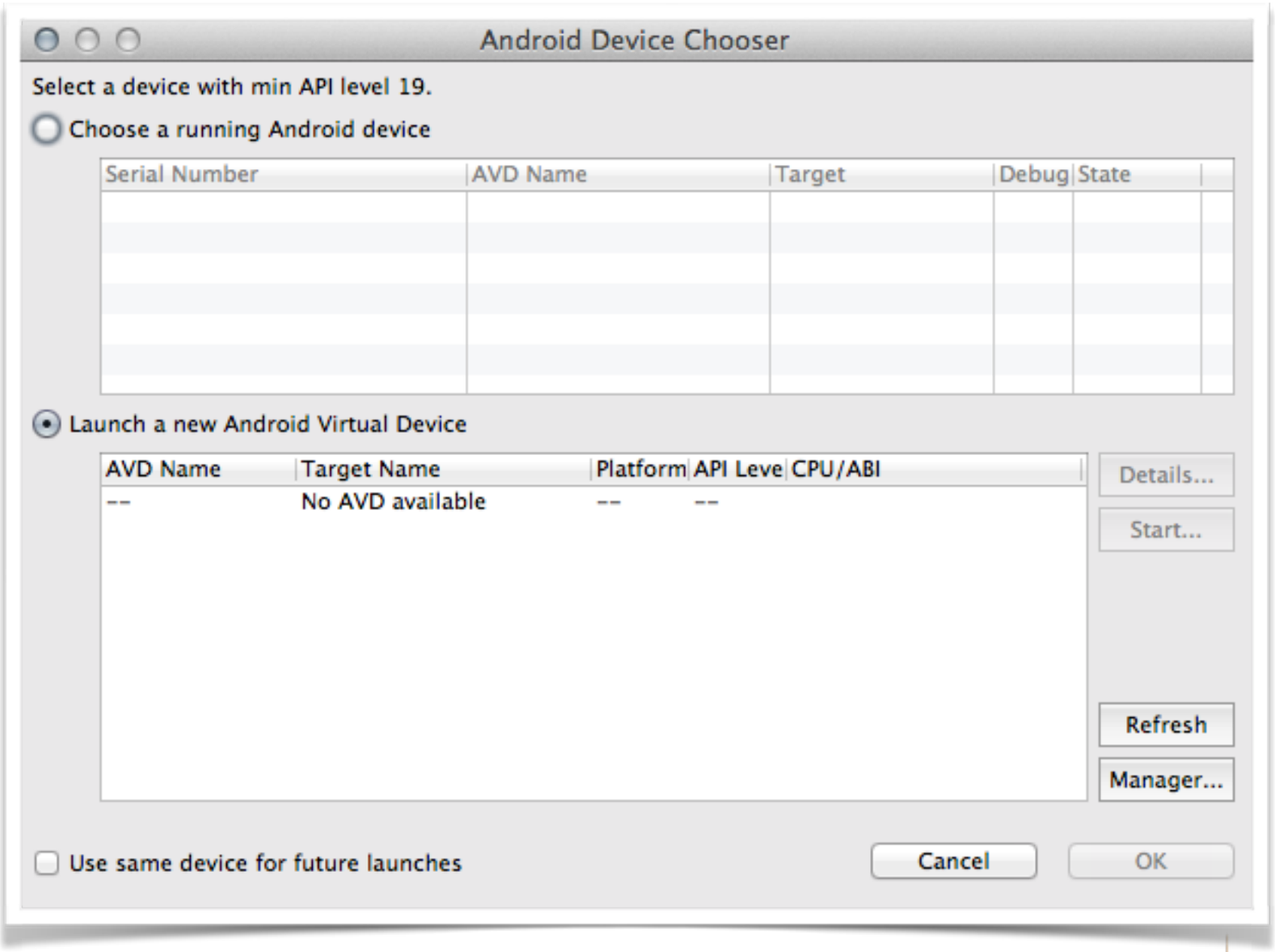
# Setting up your environment

- on what?  an emulator



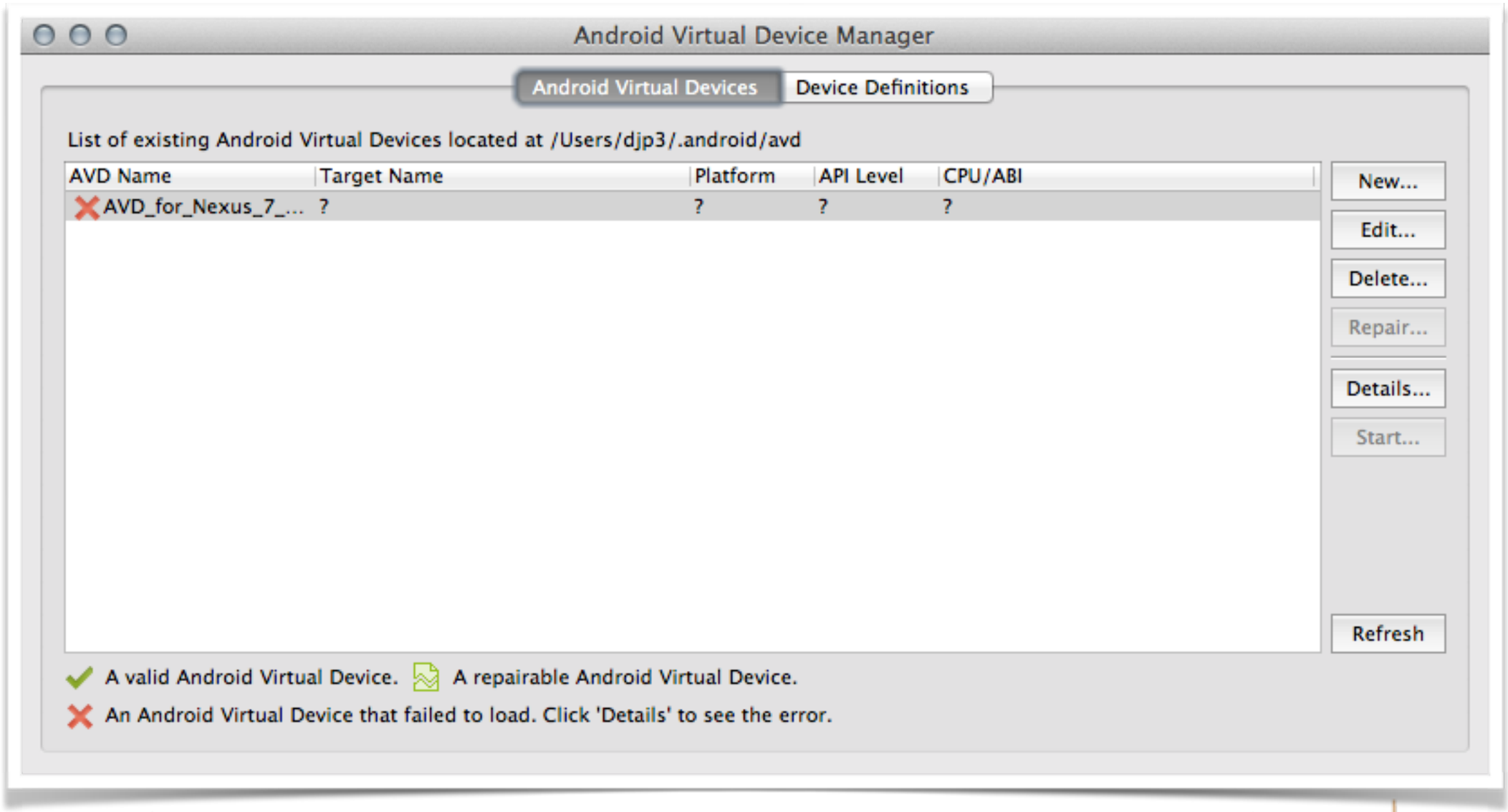
# Setting up your environment

- on what?  an emulator, aka an Android Virtual Device



# Setting up your environment

- set up the properties of your emulator



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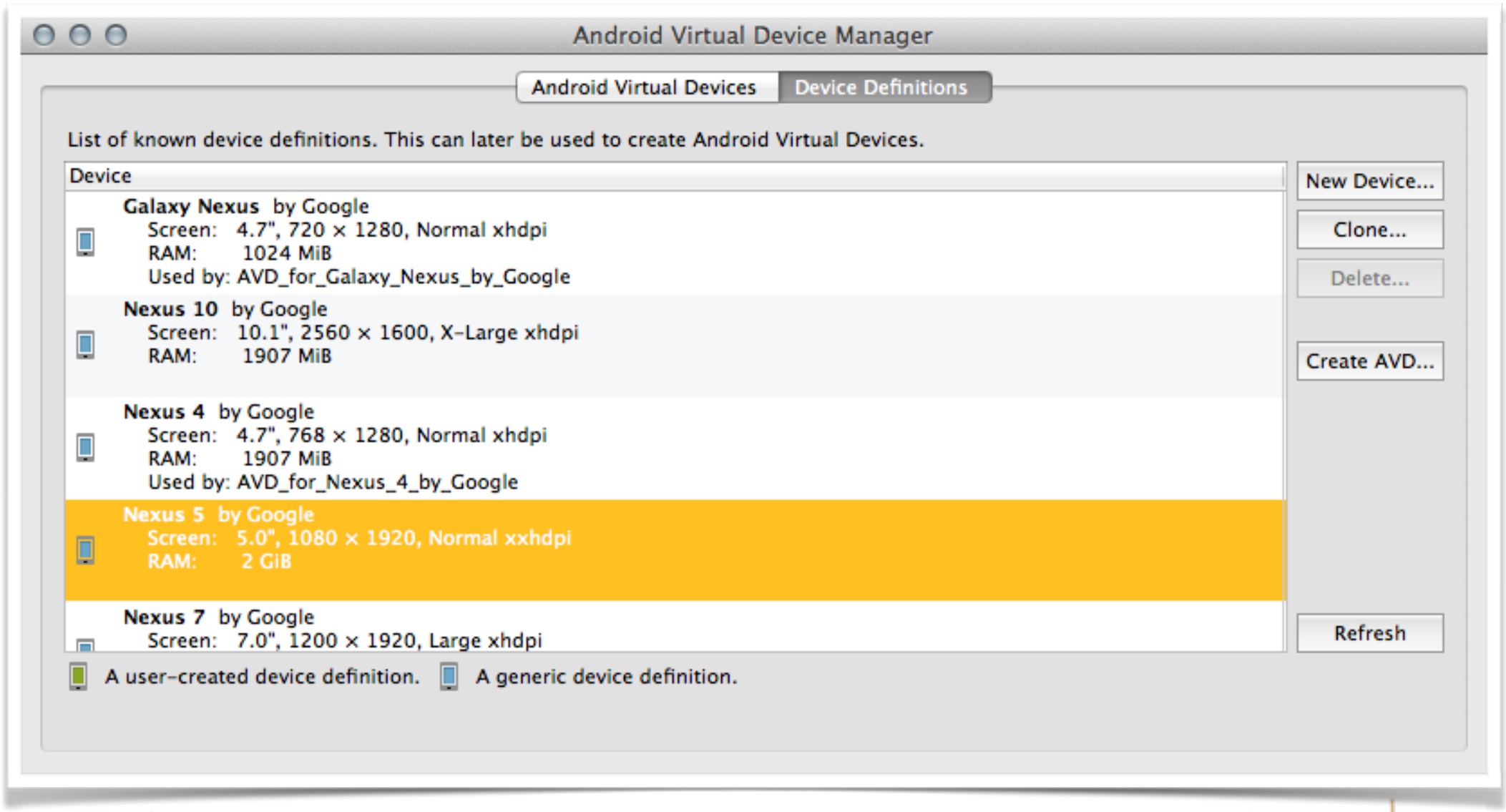

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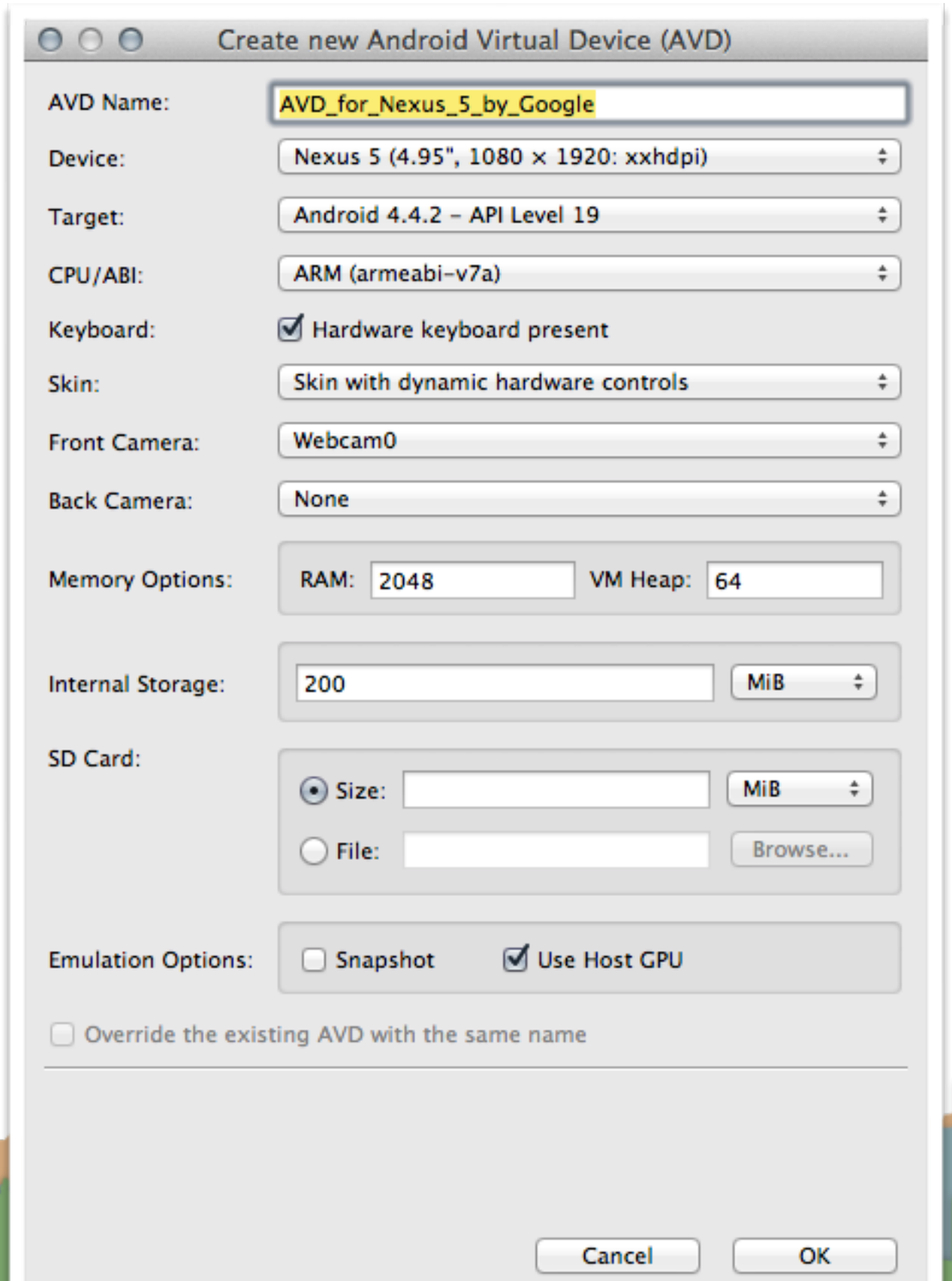

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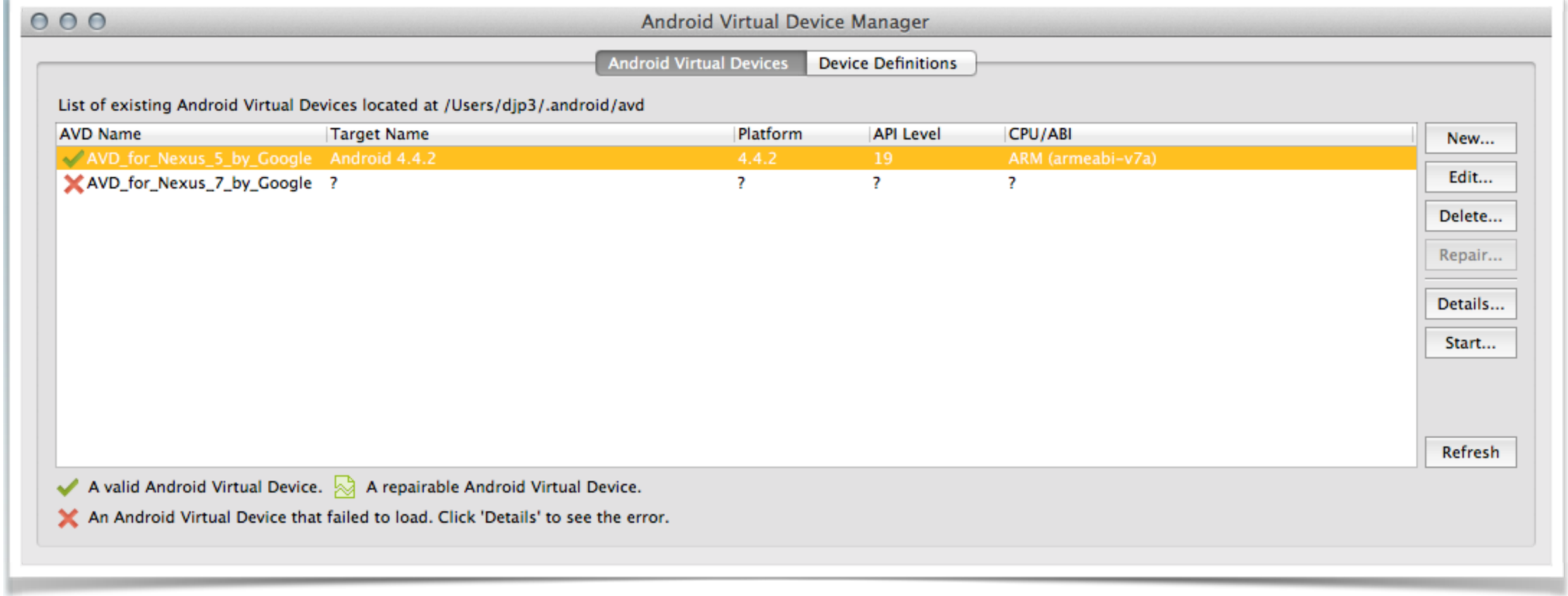
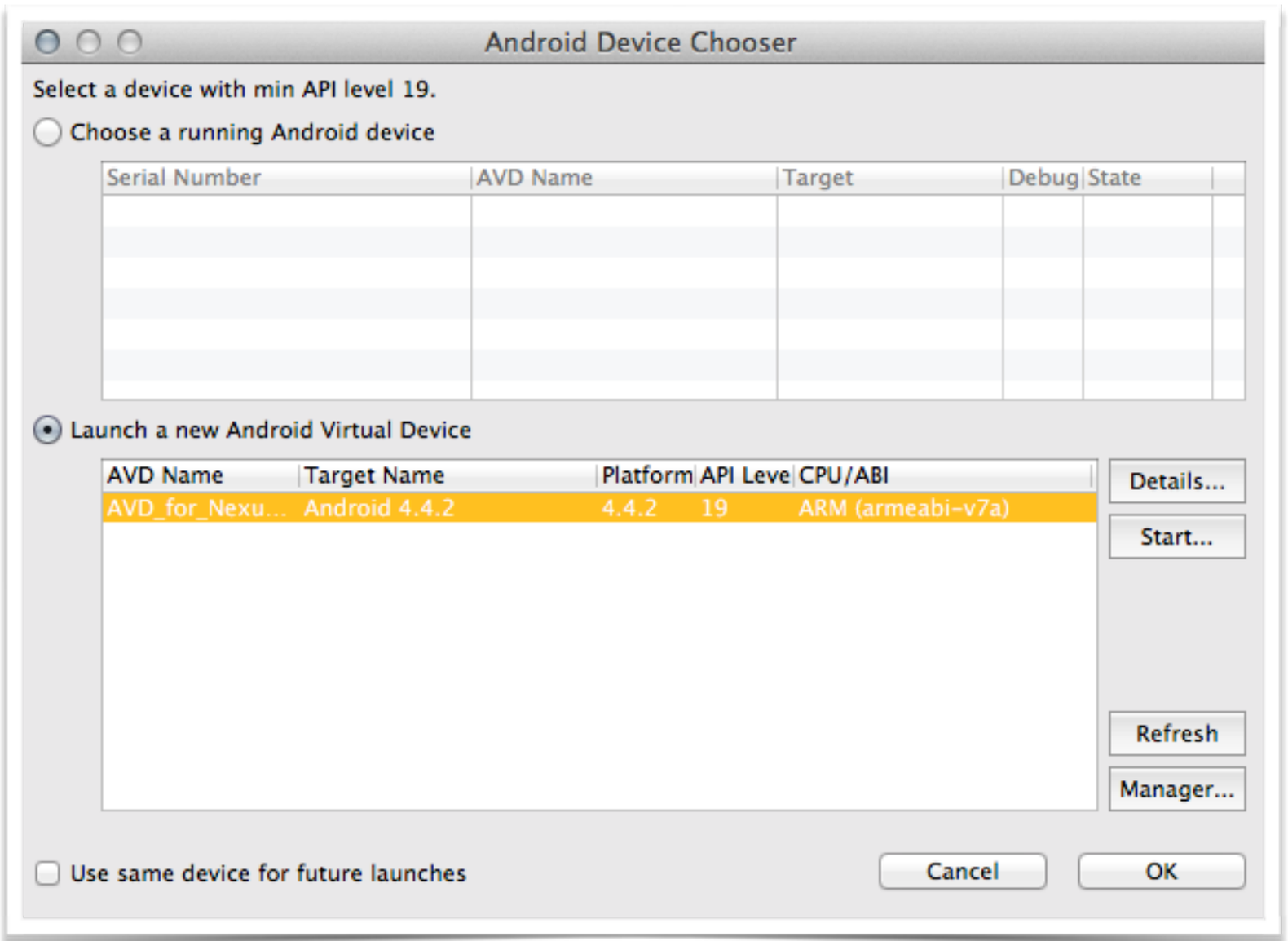


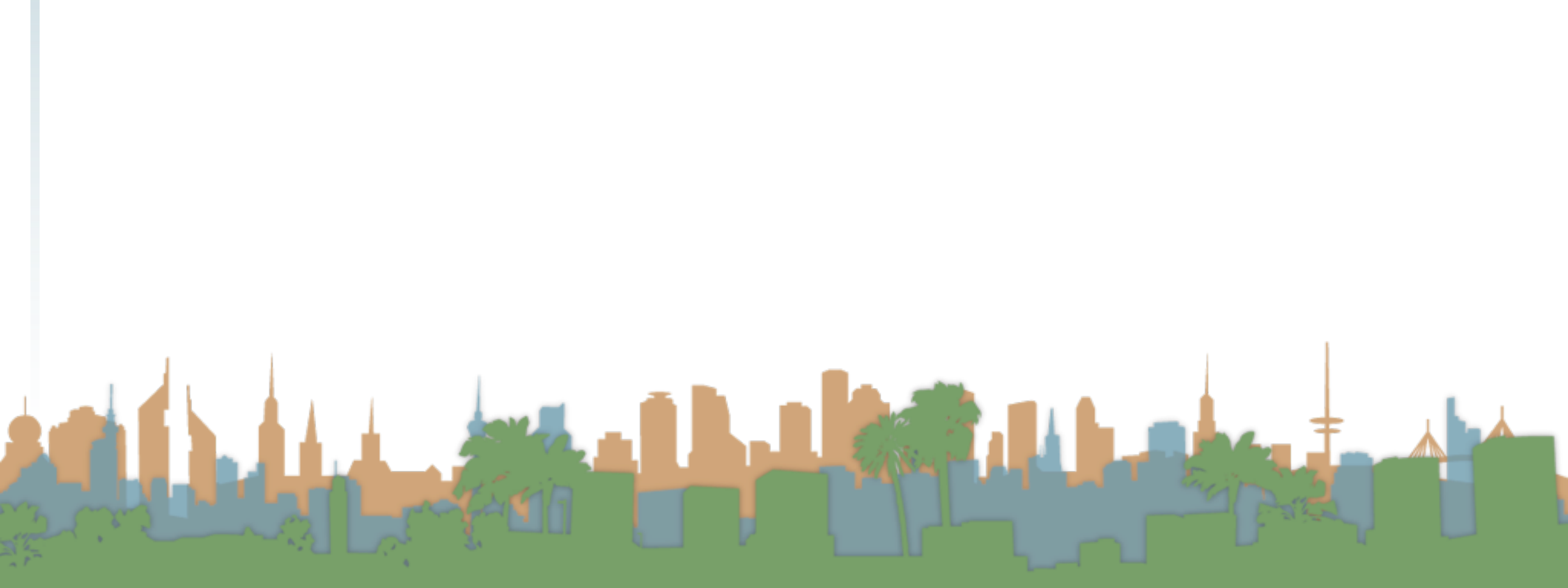
# Setting up your environment

- choose the emulator



# Setting up your environment

- and boot, and wait,



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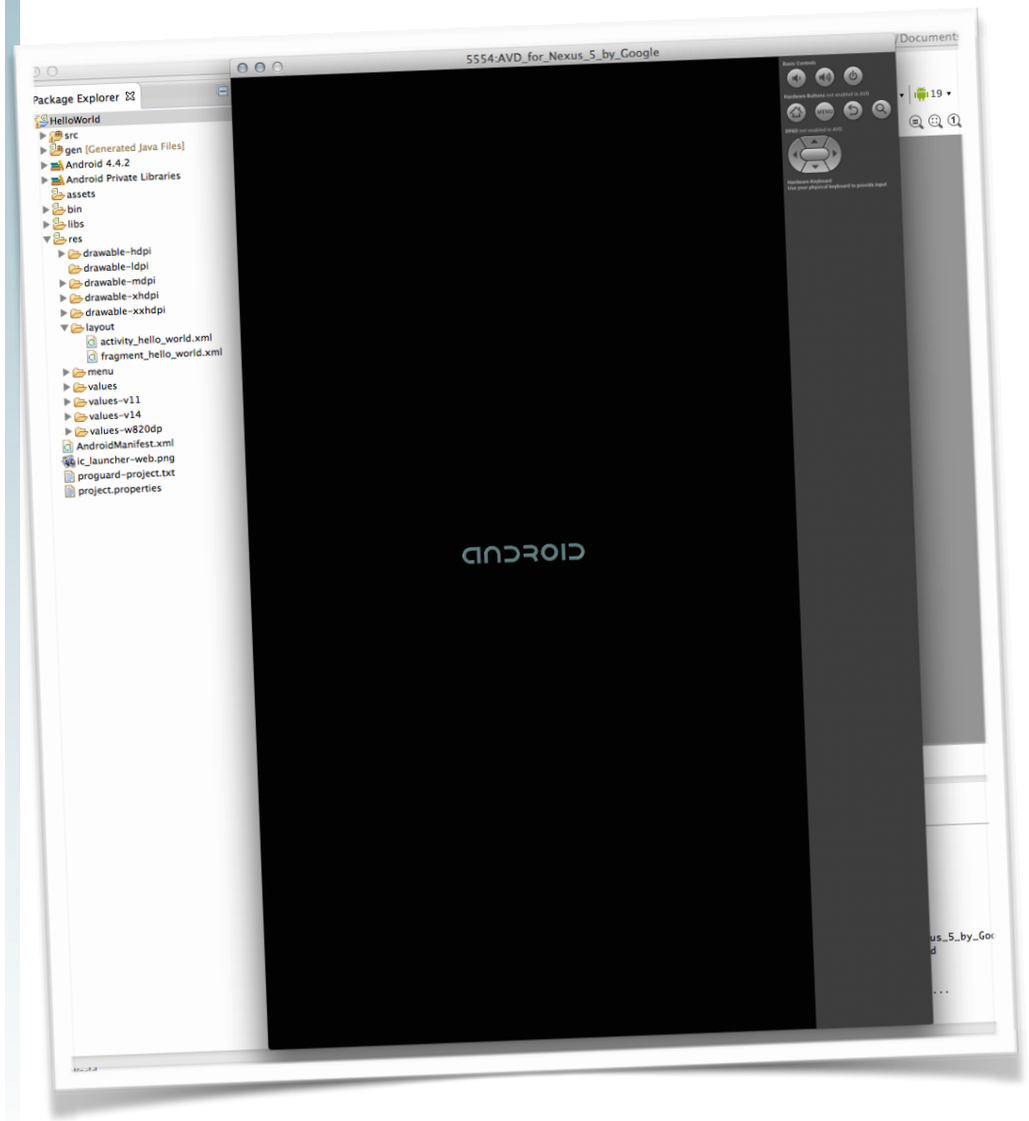

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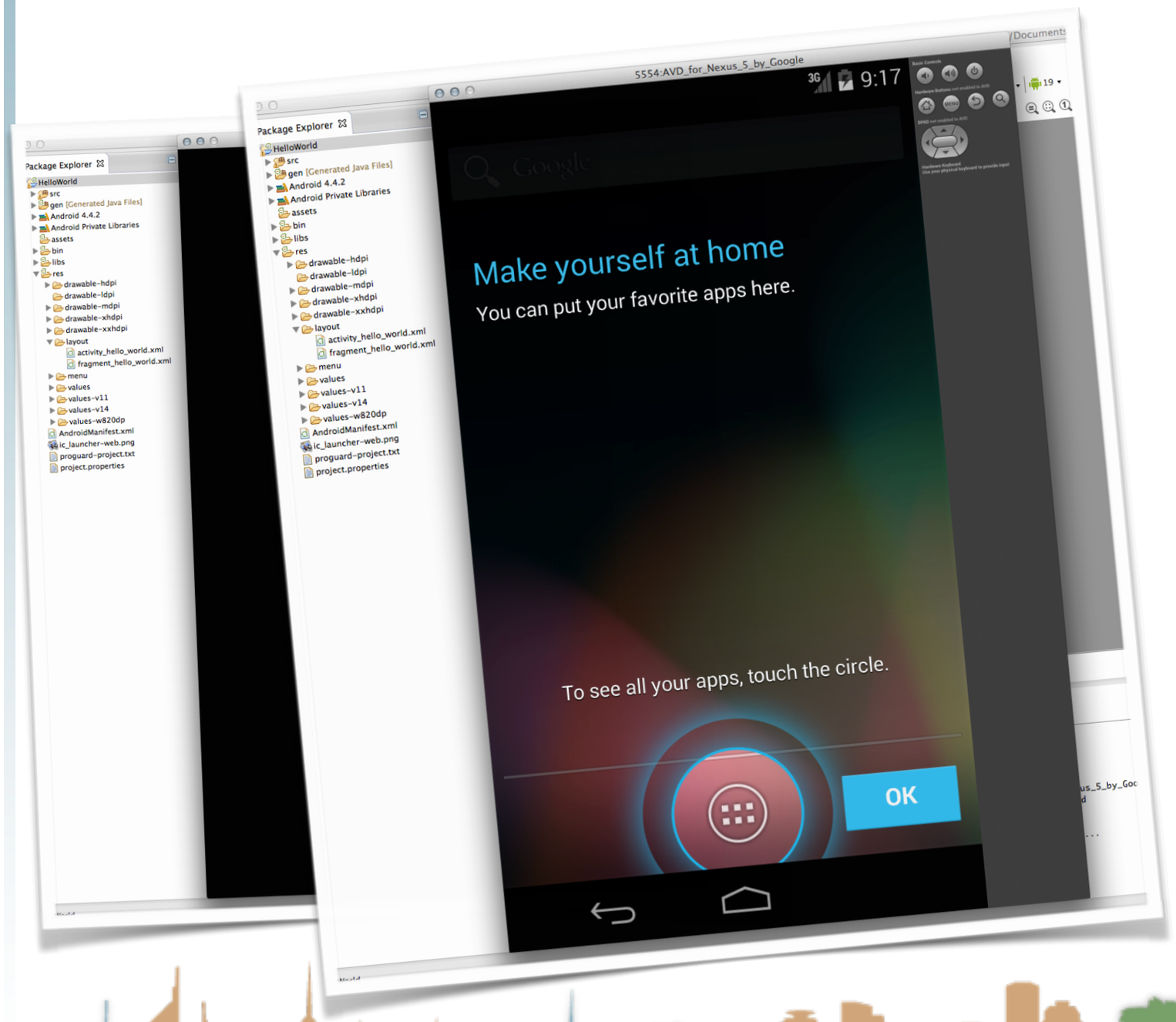

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# Setting up your environment

- Running on a real phone
  - Enable USB debugging in Developer settings

http://developer.android.com/tools/device.html#setting-up

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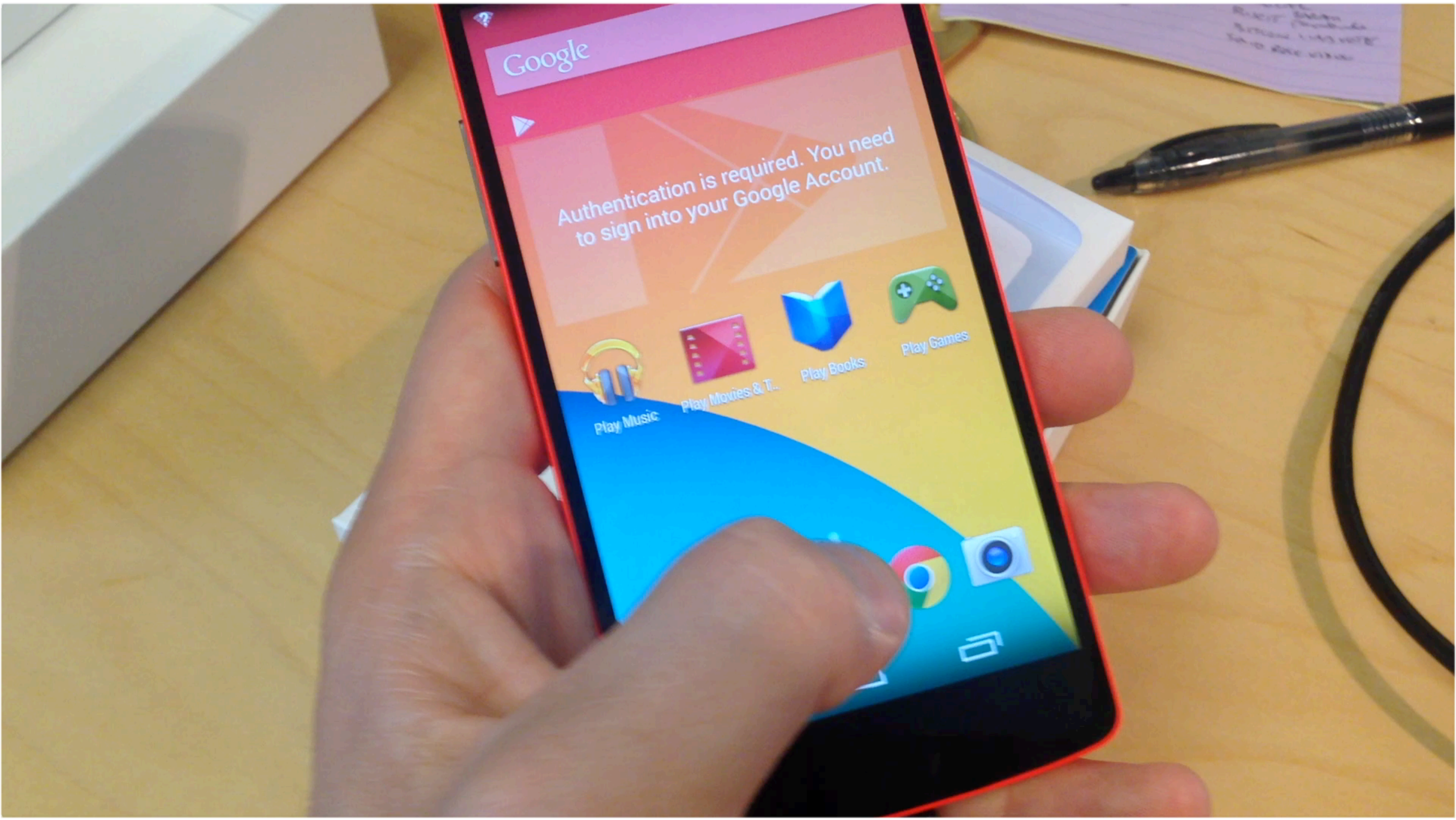


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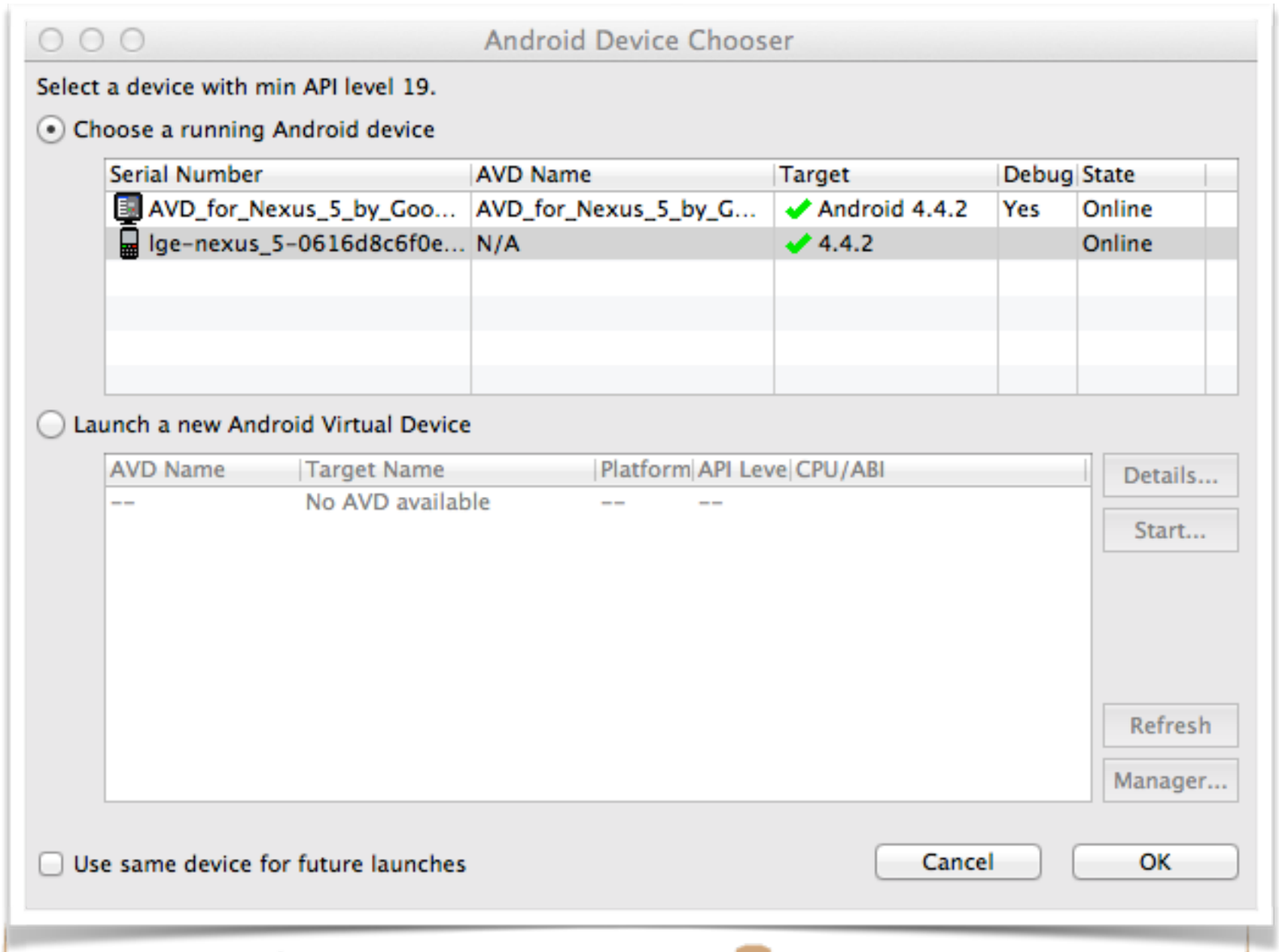
# Setting up your environment

- Now the real phone and emulator are both options

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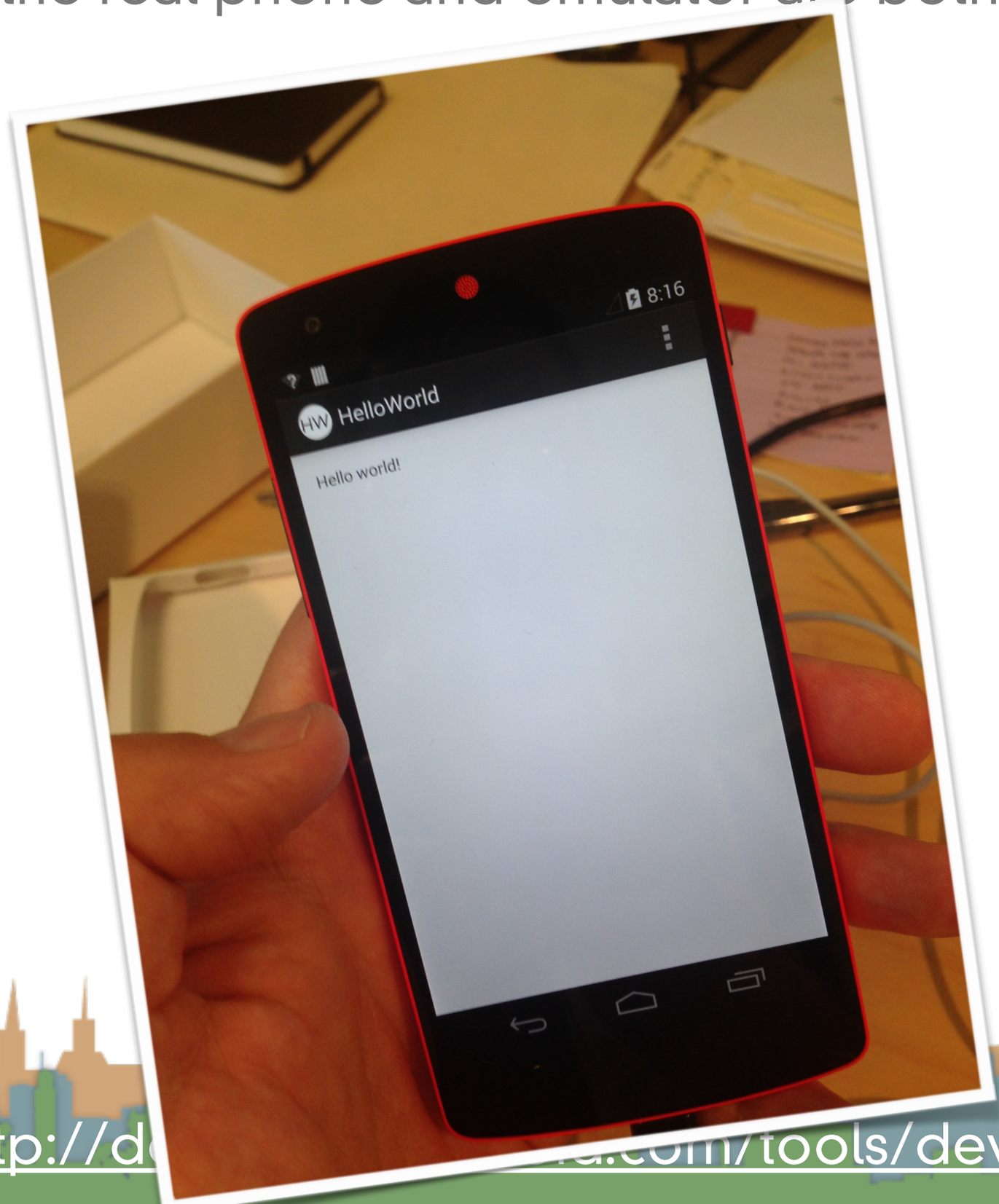


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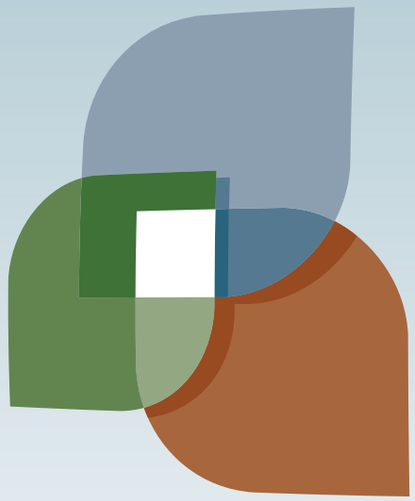

# LUCI