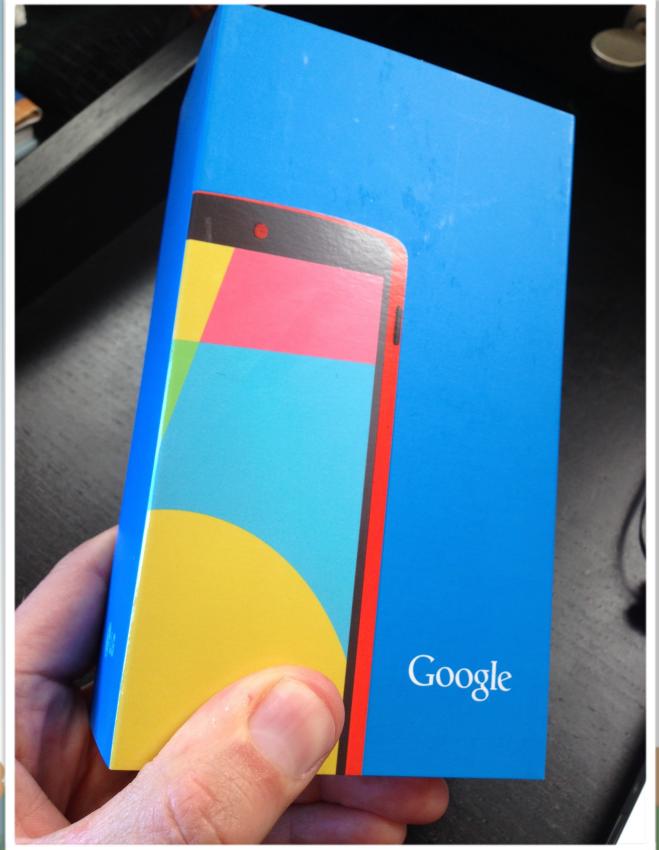
Dev Environment:

Android

Mobile and Ubiquitous Games ICS 163

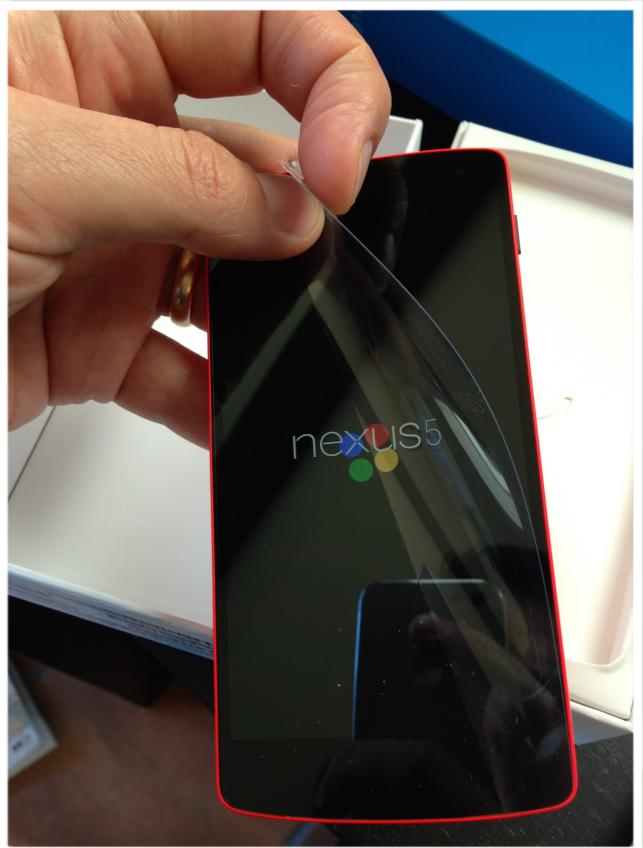
Donald J. Patterson



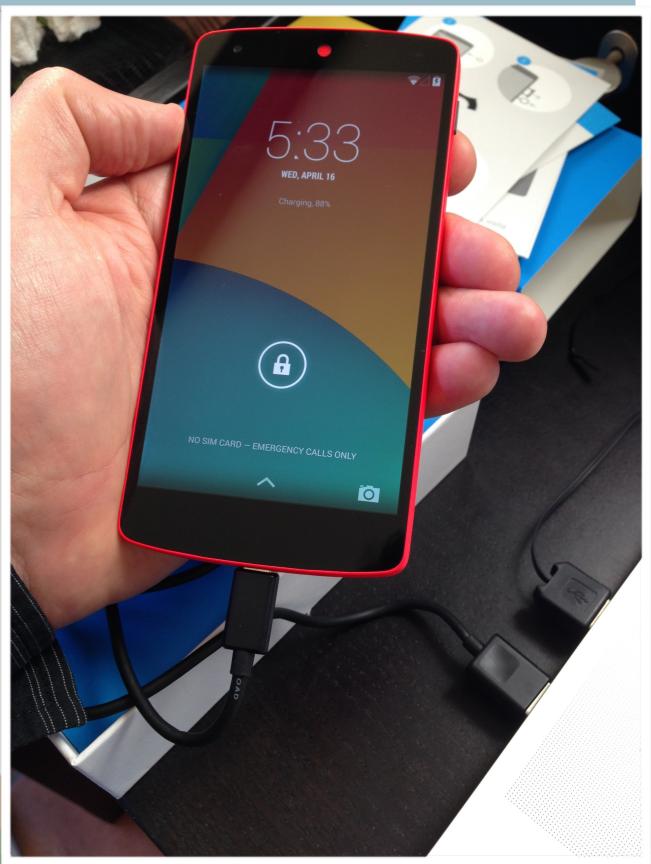












- Don't worry about SIM cards wifi only
- Connect to Wifi
- Don't associate with your Google account
- Enable Location Services
- Personalize the phone with "Peter Anteater"
- Dial *#*#checkin#*#* to update phone
 - "checkin succeeded"
- Connect USB on phone to computer to charge it

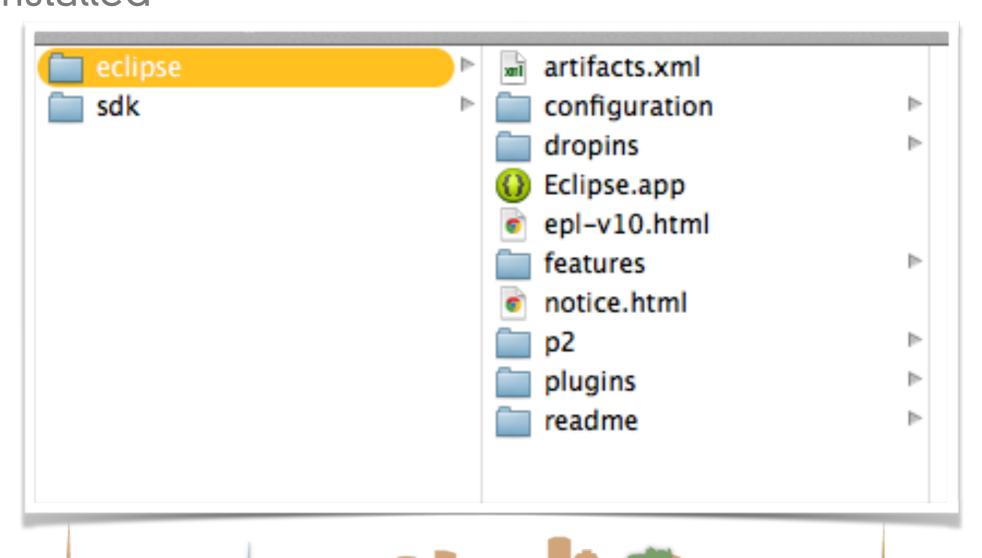


- http://developer.android.com/
 - http://developer.android.com/sdk/index.html

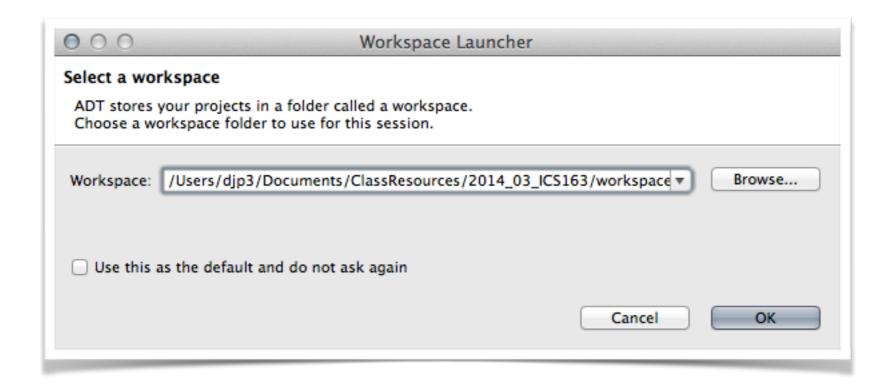




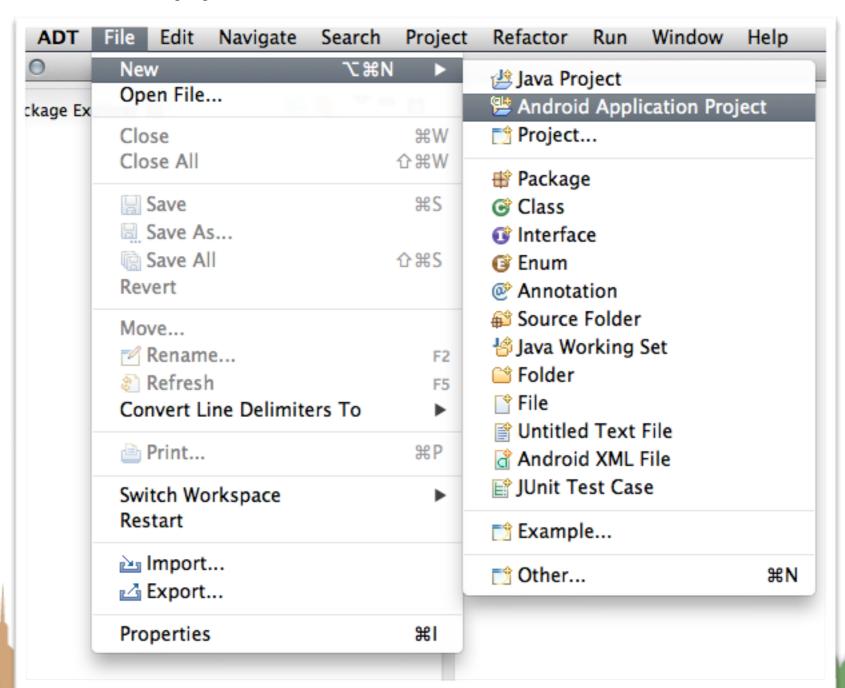
 Unpacks into a self-contained installation of Eclipse with Android Software development Kit (SDK) and plug-ins installed



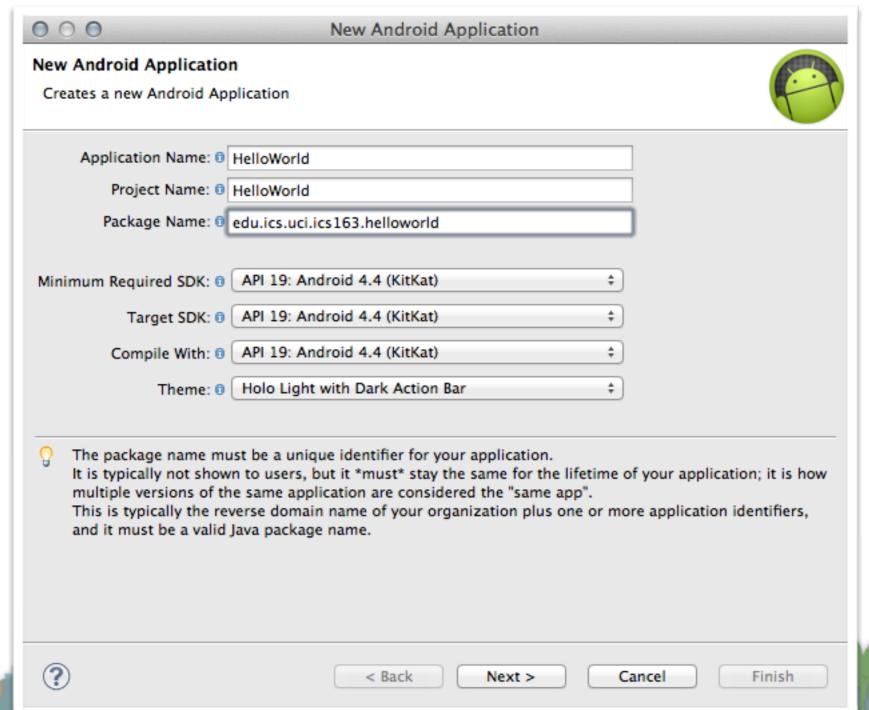
- Like any Eclipse project, set up a workspace
- Should be unique for this class



- There are Android specific options
- Start a new app

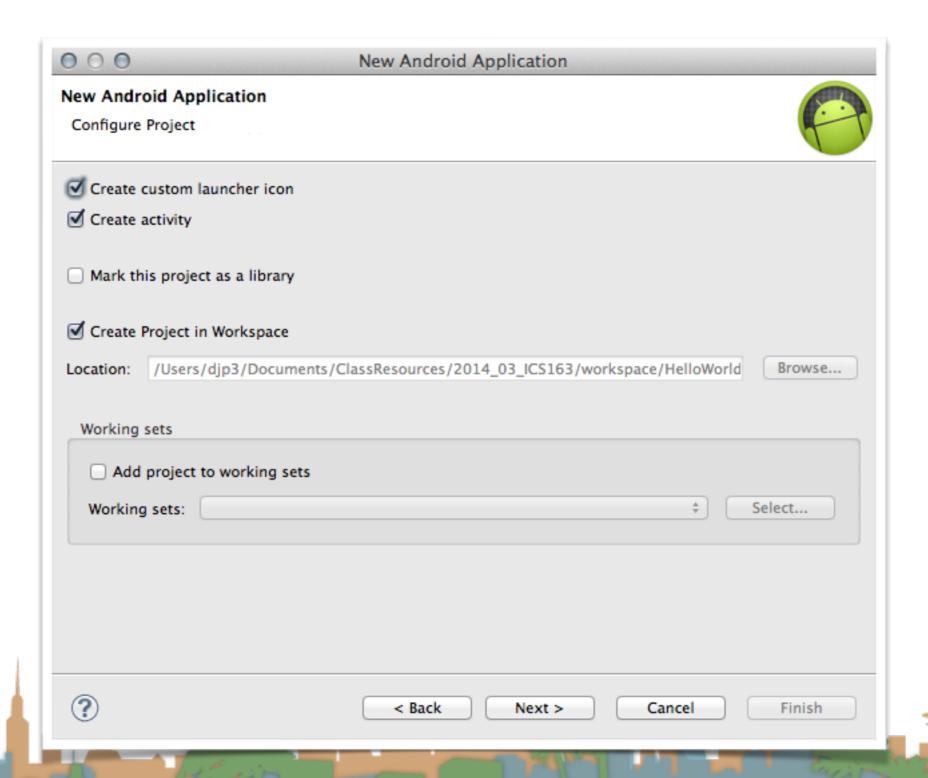


- Minimum SDK is the oldest phone your app will work with
- 2.2 is probably the oldest you should consider

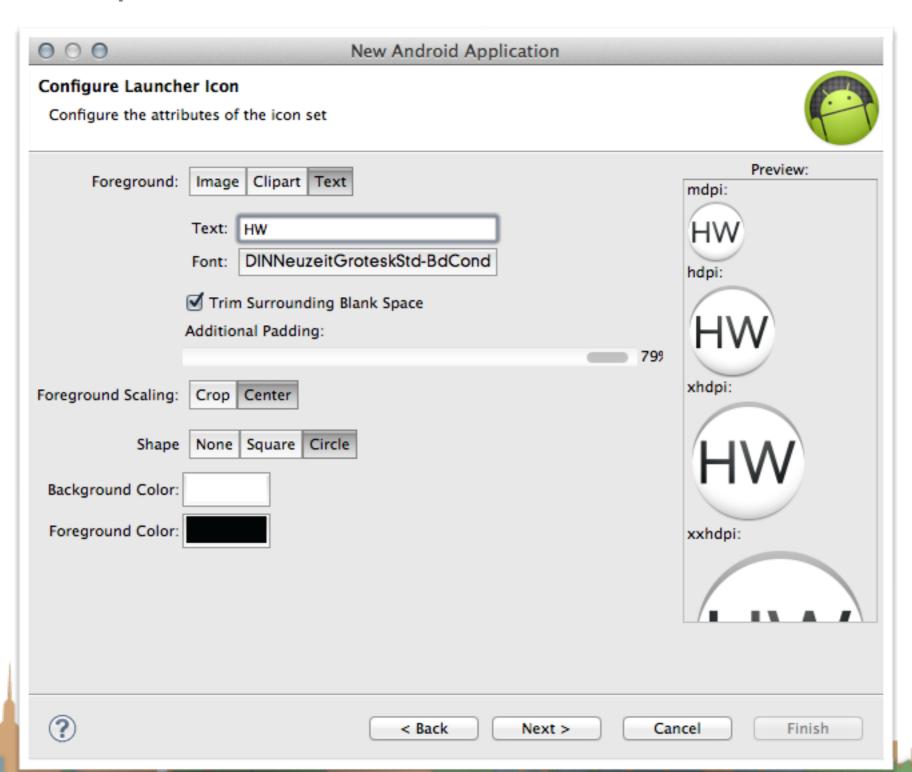




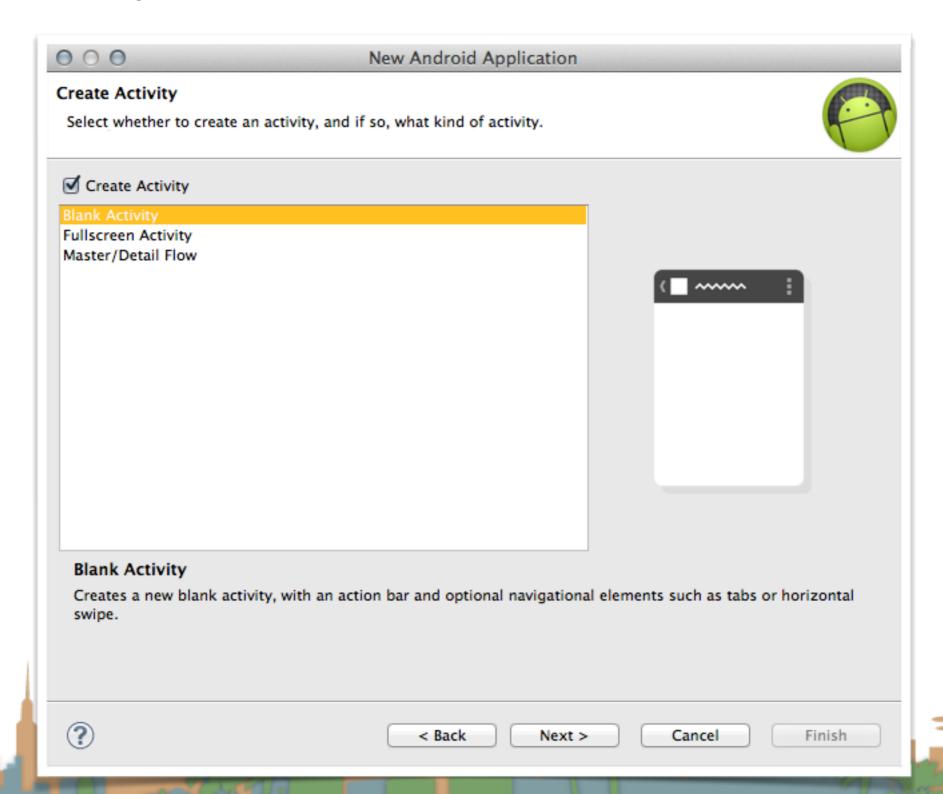
note "library" option



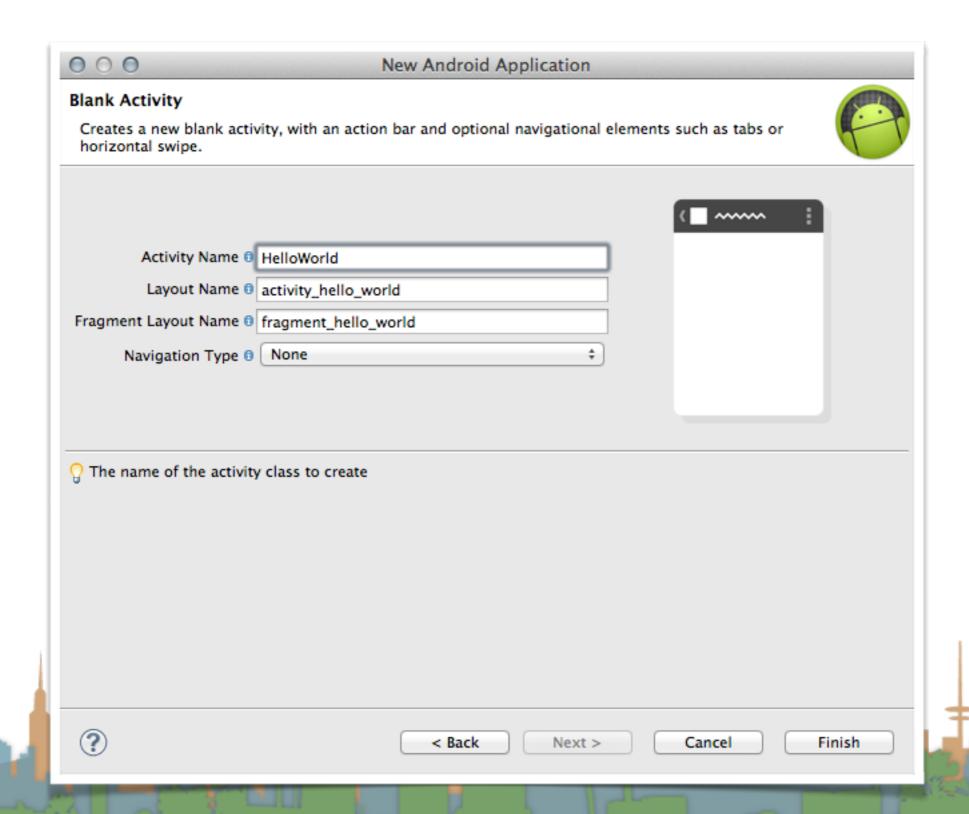
icon set up

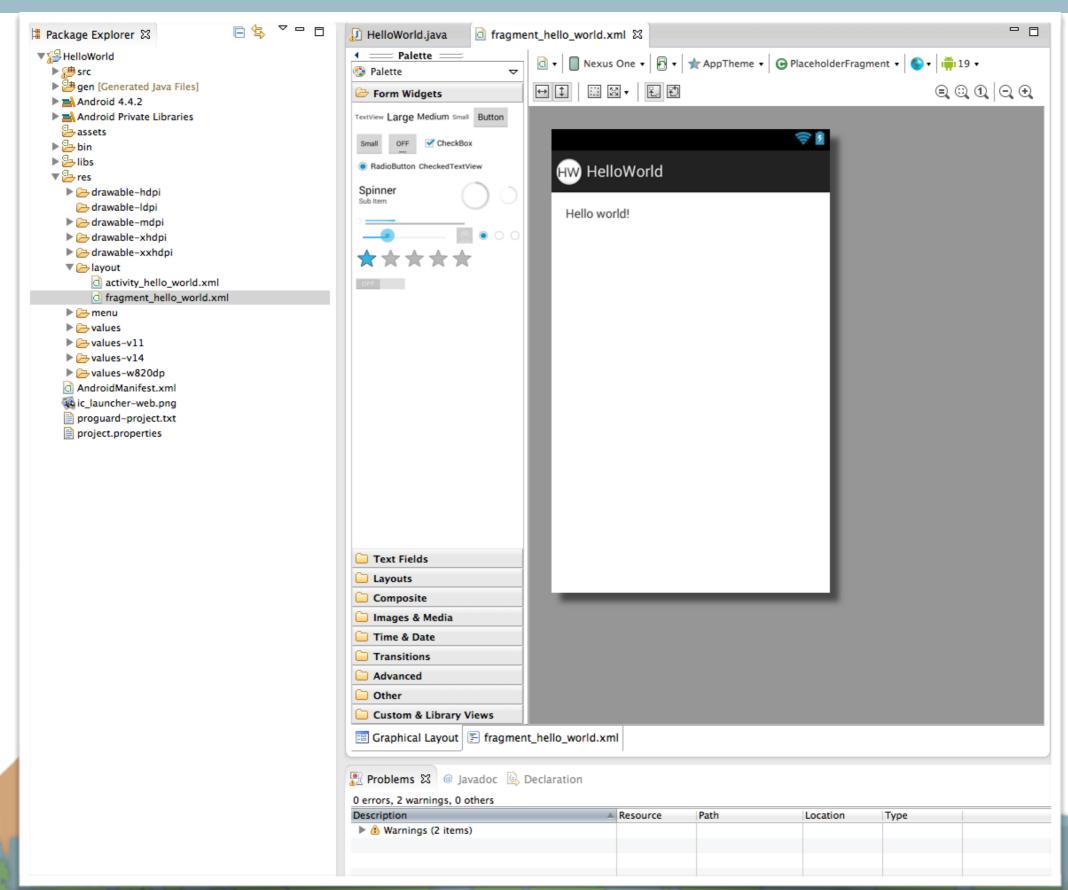


icon set up

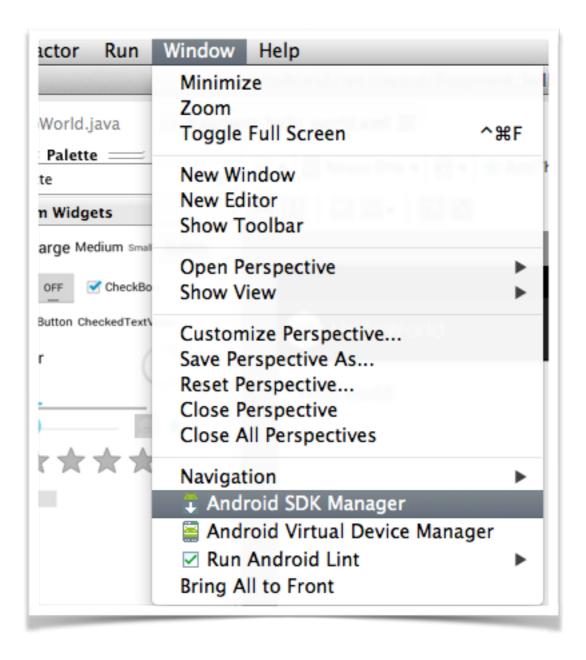


navigation style

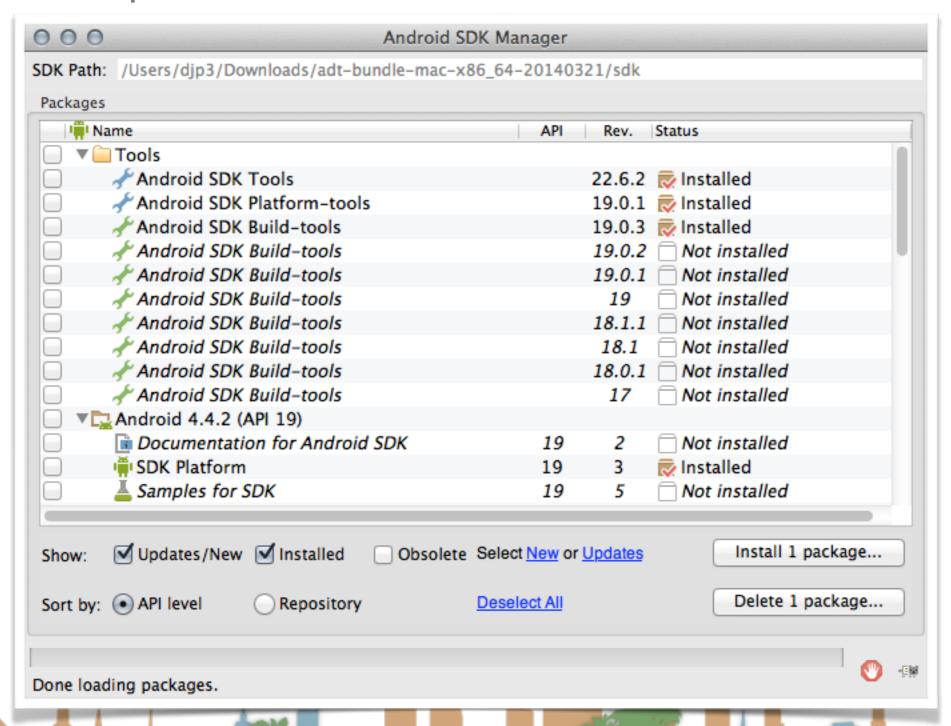




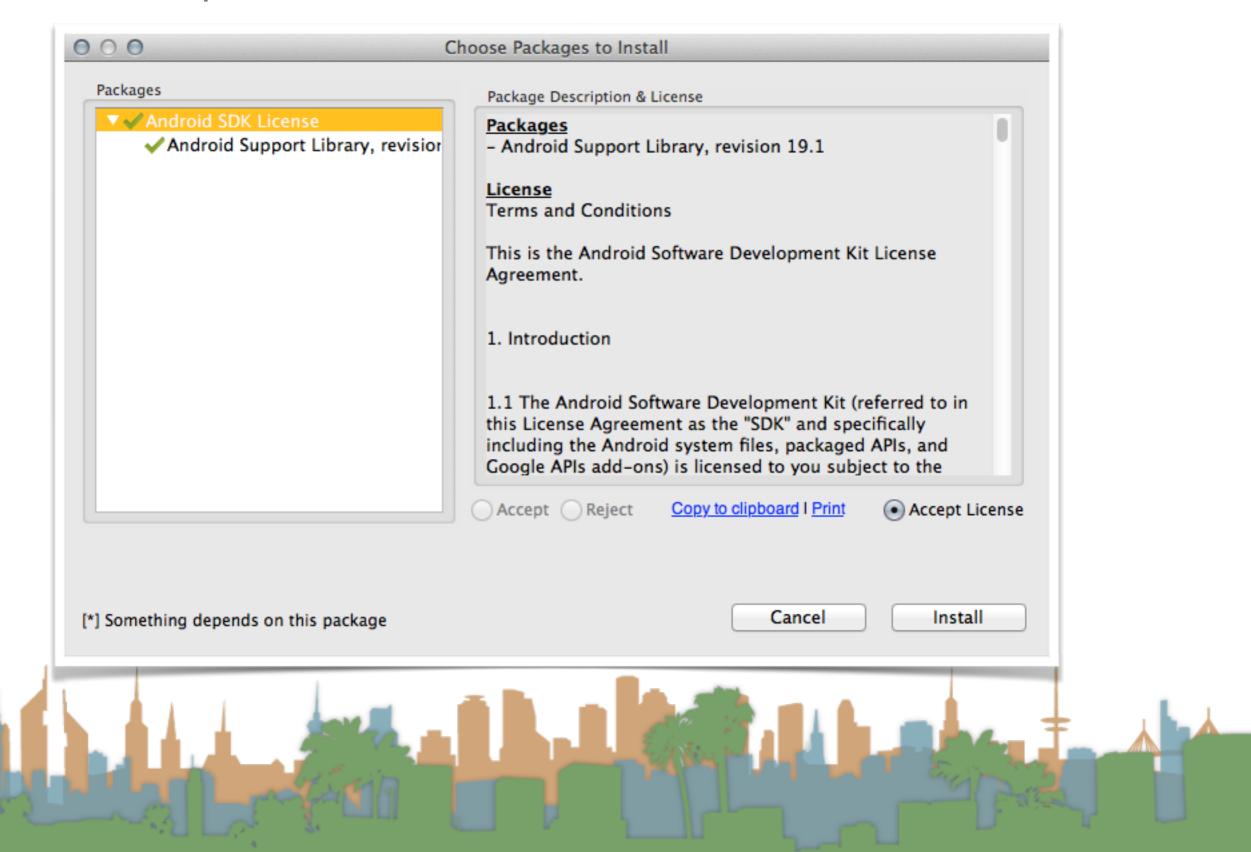
Let's make sure we have everything we need in the SDK



Install updates -> 4.4.3



• Install updates -> 4.4.3

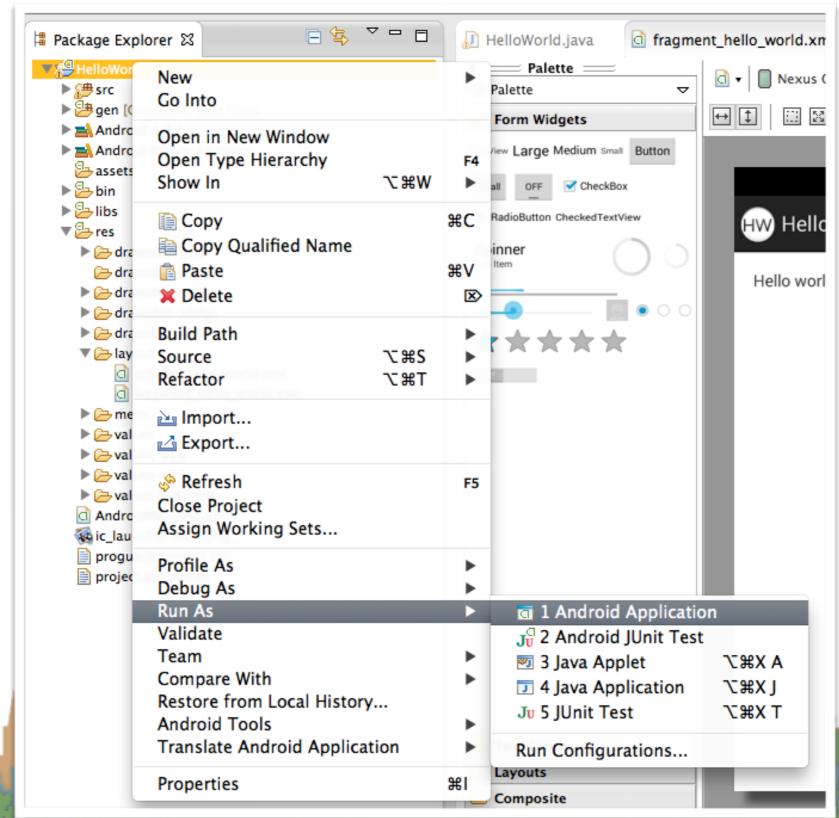


Beef up your emulator

I Name		API	Rev.	Status	
▶ Android 4.2.2 (API 17)					
► Android 4.1.2 (API 16)					
► Android 4.0.3 (API 15)					
▶ □ Android 4.0 (API 14)					
▶ □ Android 3.2 (API 13)					
▶ □ Android 3.1 (API 12)					
▶ Android 3.0 (API 11)					
▶ Android 2.3.3 (API 10))				
▶ □ Android 2.2 (API 8)					
▶ □ Android 2.1 (API 7)					
▶ □ Android 1.6 (API 4)					
▶ □ Android 1.5 (API 3)					1,
▼ 🗀 Extras					
Android Support Repository			5	Not installed	
■ Android Support Library			19.1	戻 Installed	
Google Analytics App Tracking SDK			3	Not installed	
Google Play services for Froyo			12	Not installed	
🔃 Google Play service	s		16	Not installed	
🔃 Google Repository			7	Not installed	
🔃 Google Play APK Ex	pansion Library		3	Not installed	
🖸 Google Play Billing	Library		5	Not installed	
🛅 Google Play Licensi	ng Library		2	Not installed	
☐ Google USB Driver			9	Rot compatible with Mac C	
🛅 Google Web Driver			2	☐ Not installed	J
😨 Intel x86 Emulator	Accelerator (HAXM	installe		Not installed ■	L
ow: 🗹 Updates/New 🗹 Ins	talled Obsolet	e Select New or	Undates	Install 1 package	
ow. Sopulates/New Ins	obsolet	C 001001 11011 01	<u>Opaulos</u>	z paciageni	
rt by: API level Re	pository	Deselect All		Delete packages	

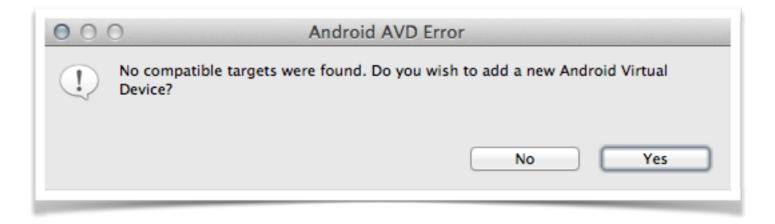


Run your Hello World app

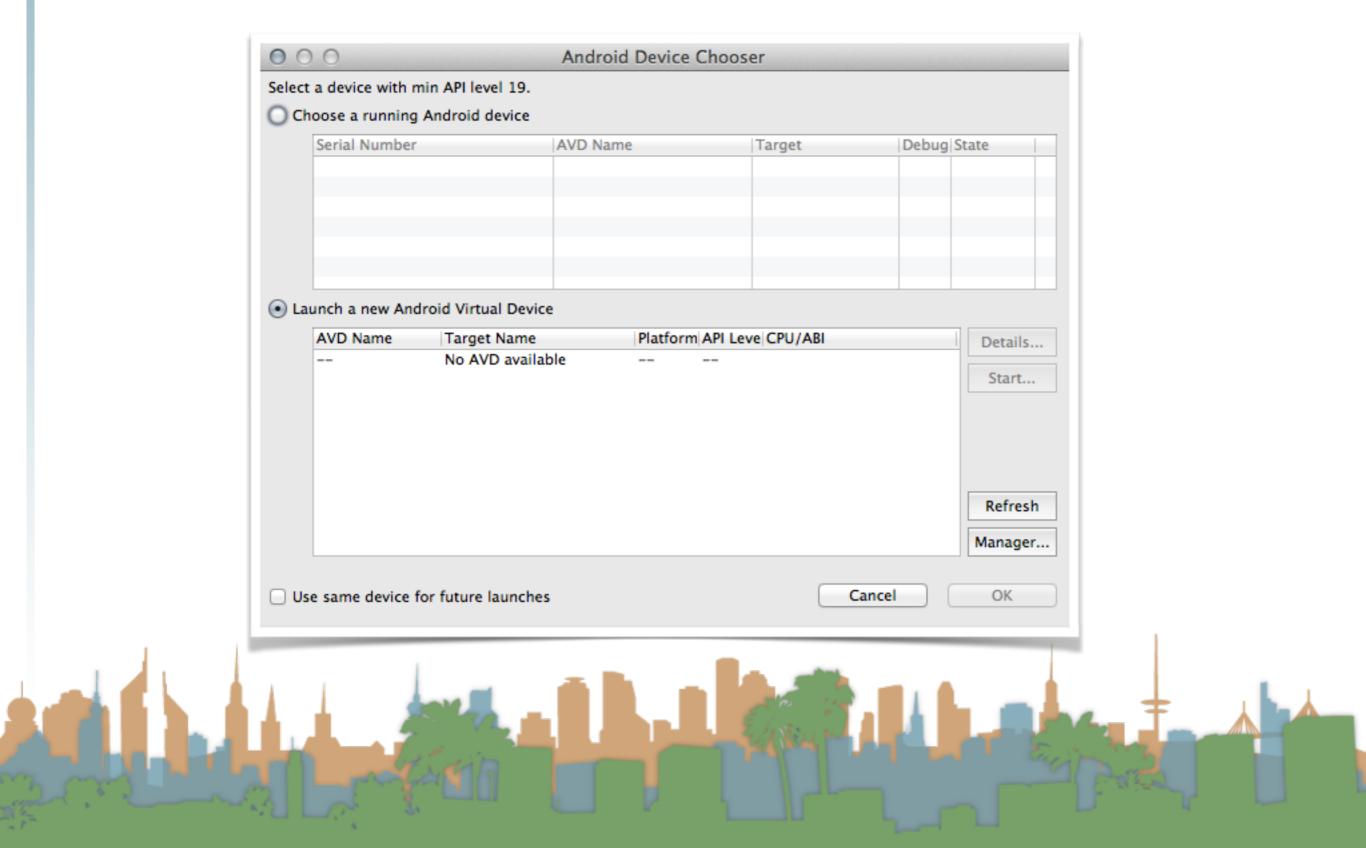


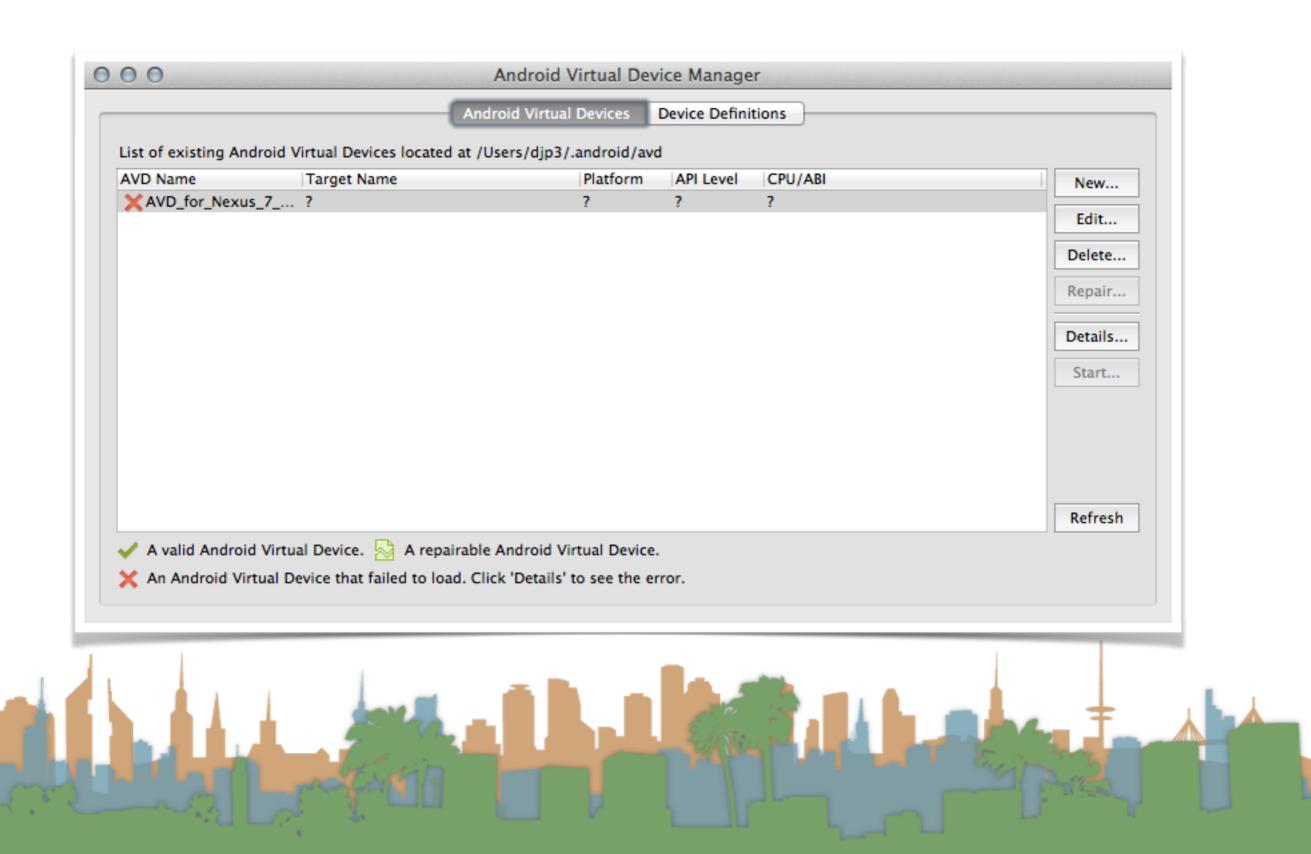


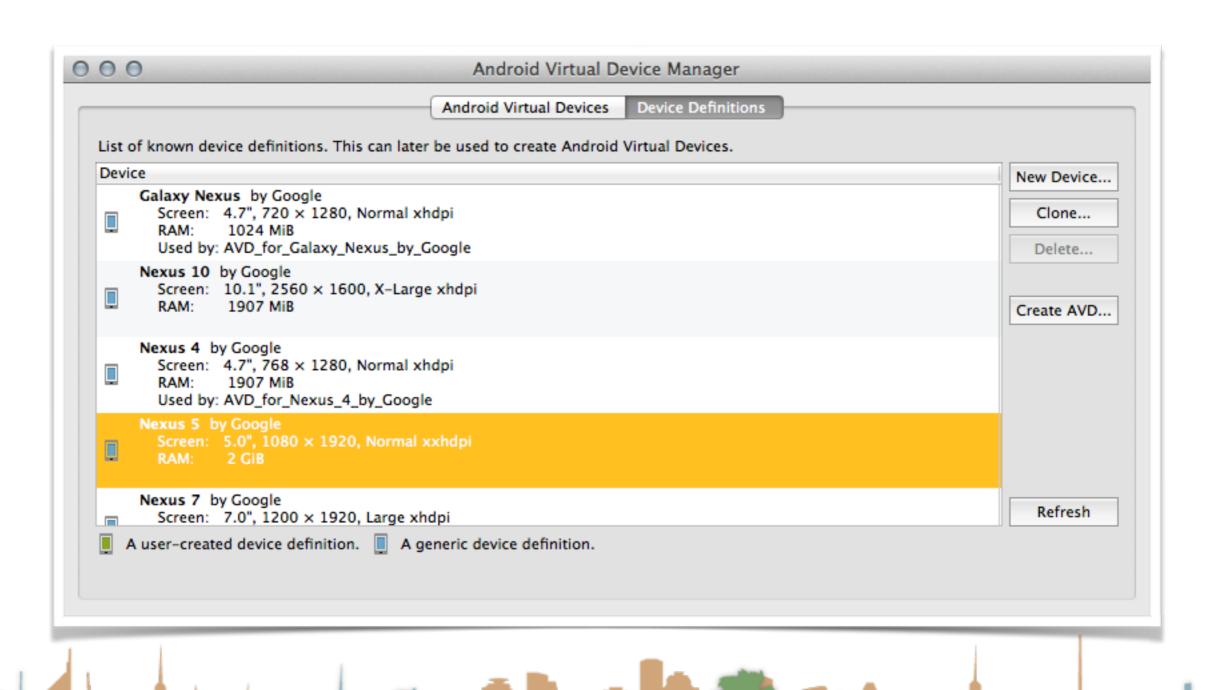
• on what? an emulator

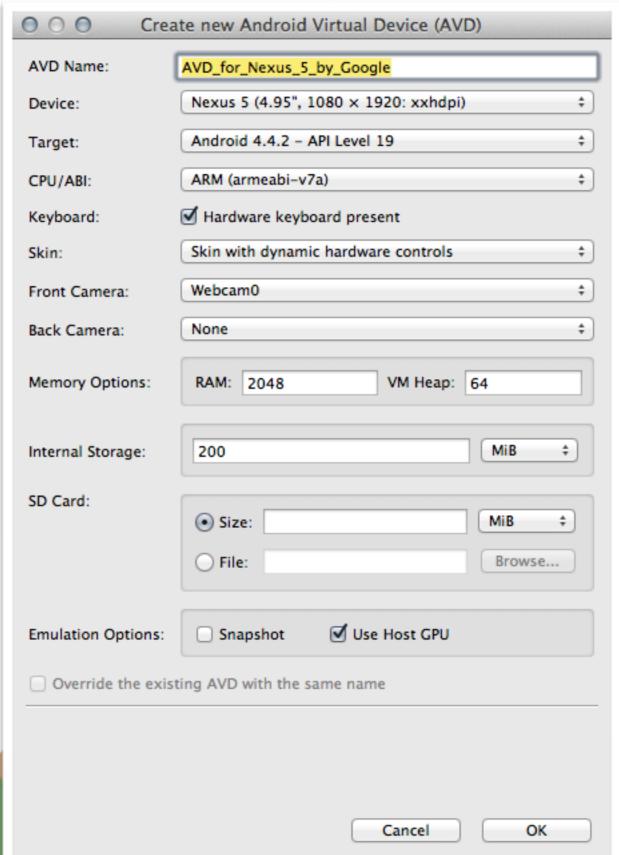


• on what? an emulator, aka an Android Virtual Device

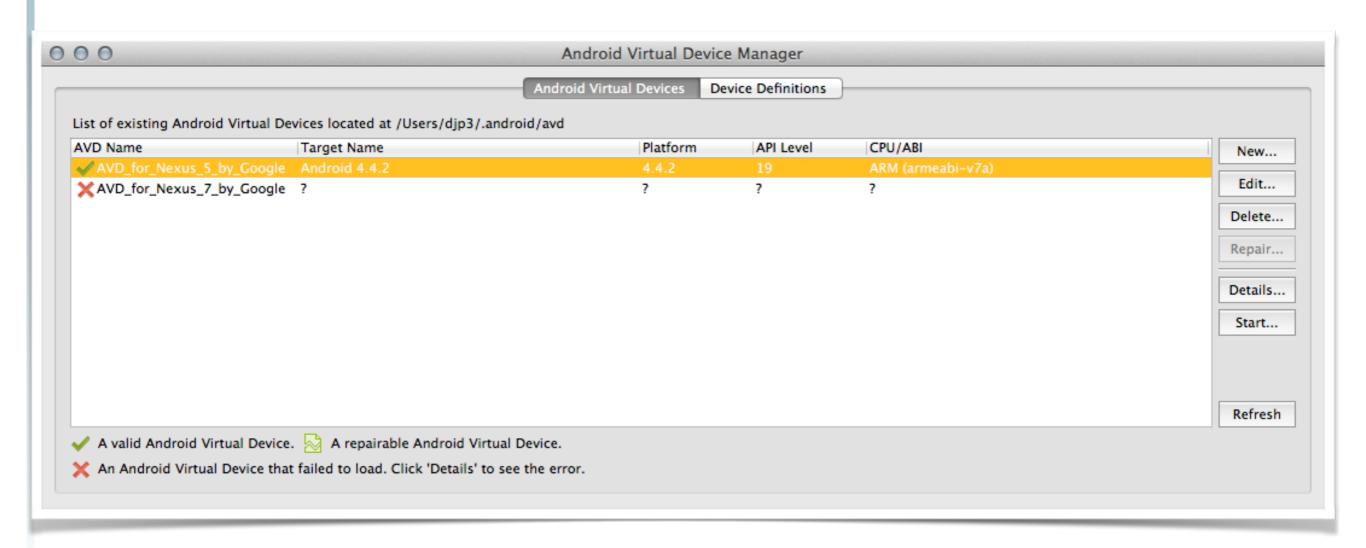




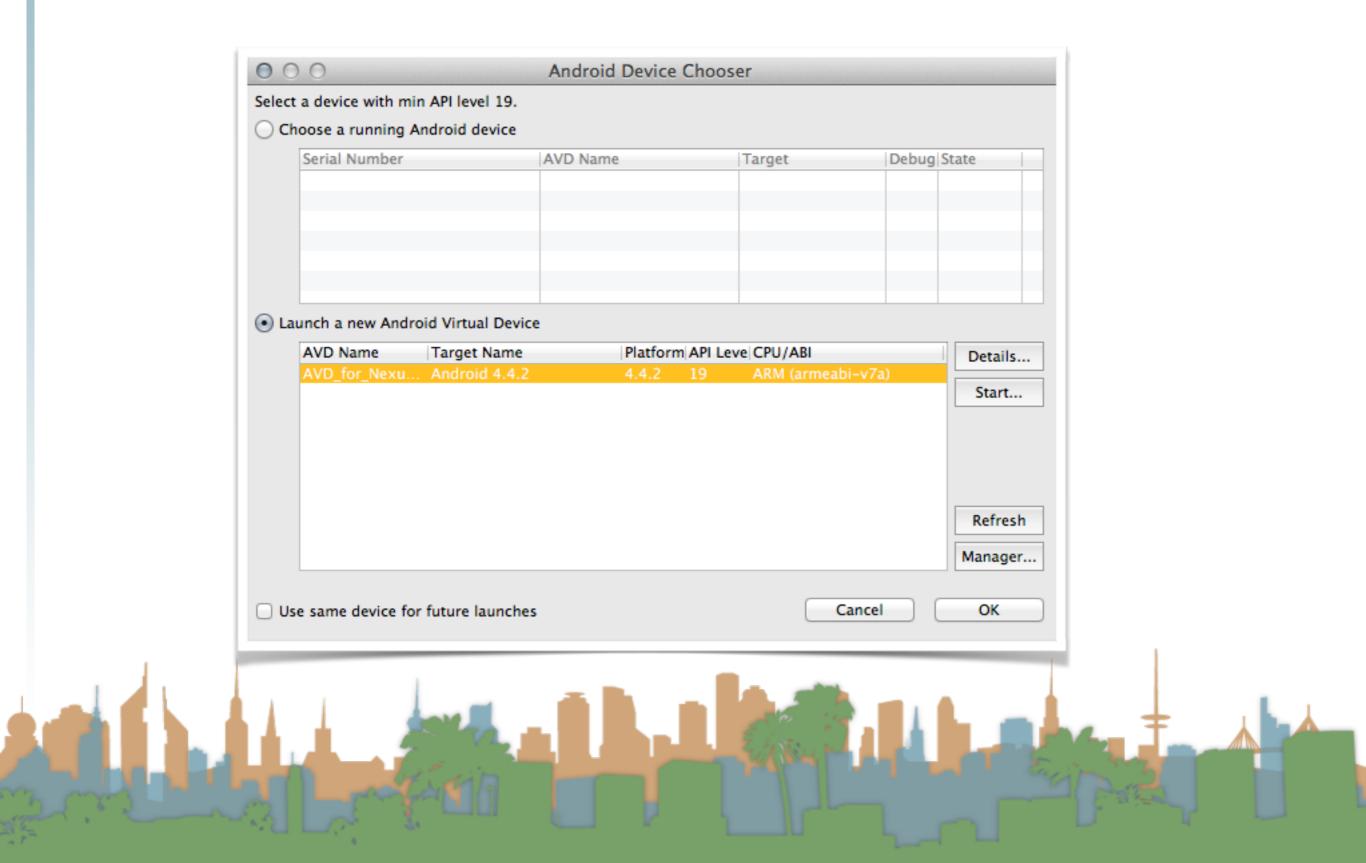








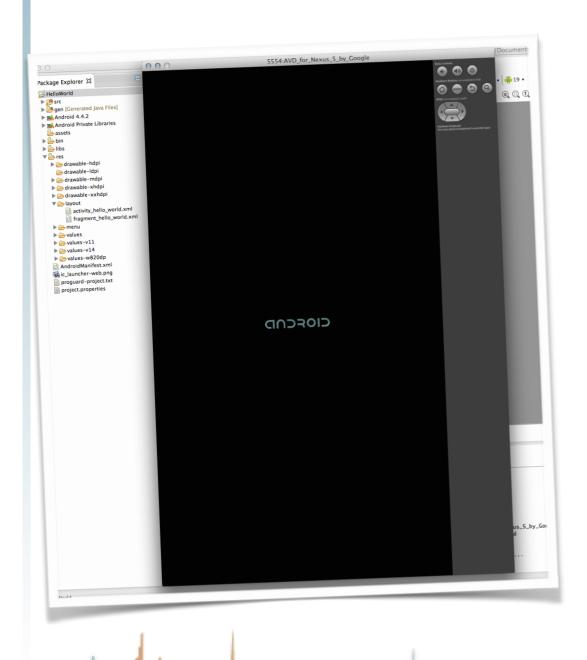
choose the emulator



and boot, and wait,

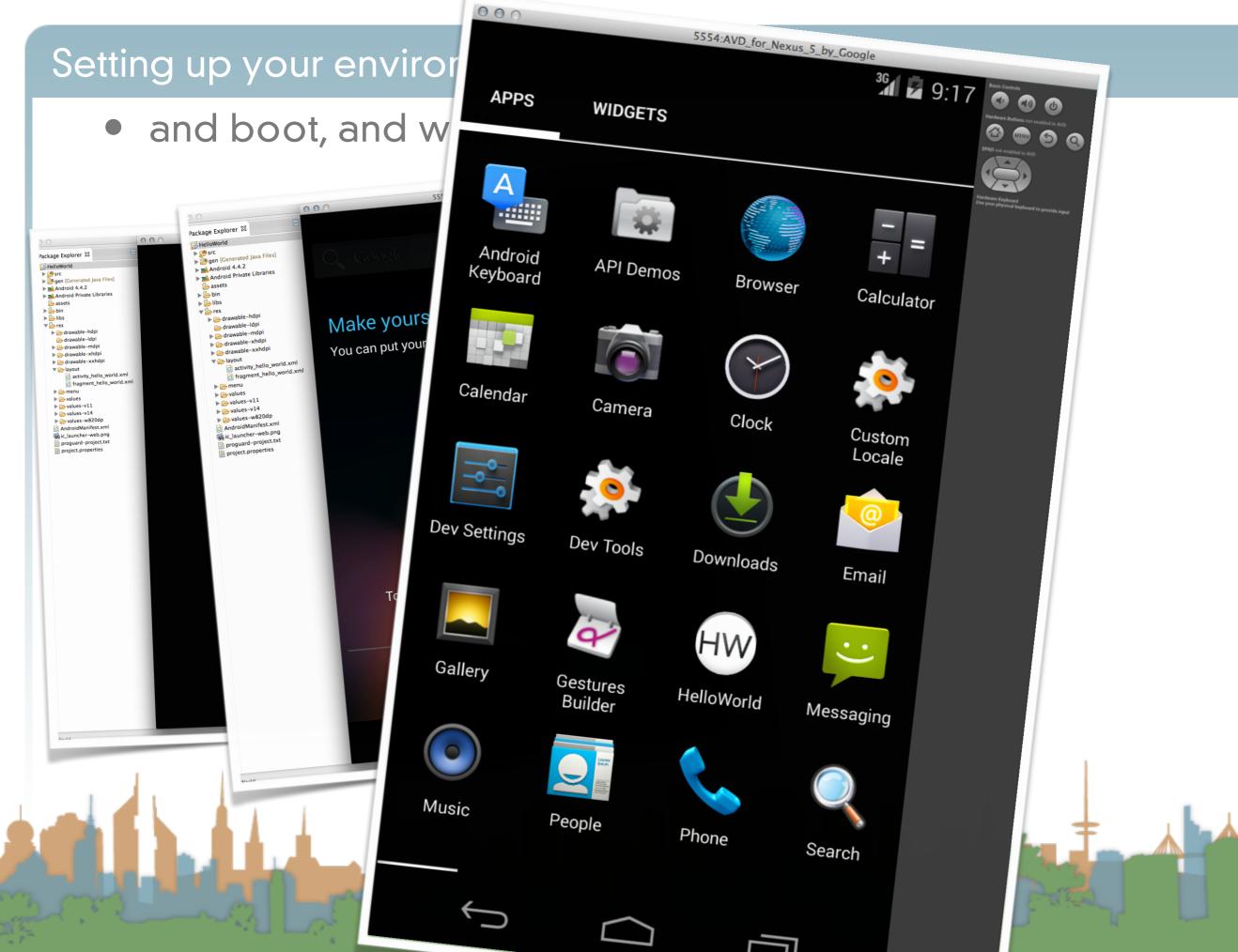


and boot, and wait,

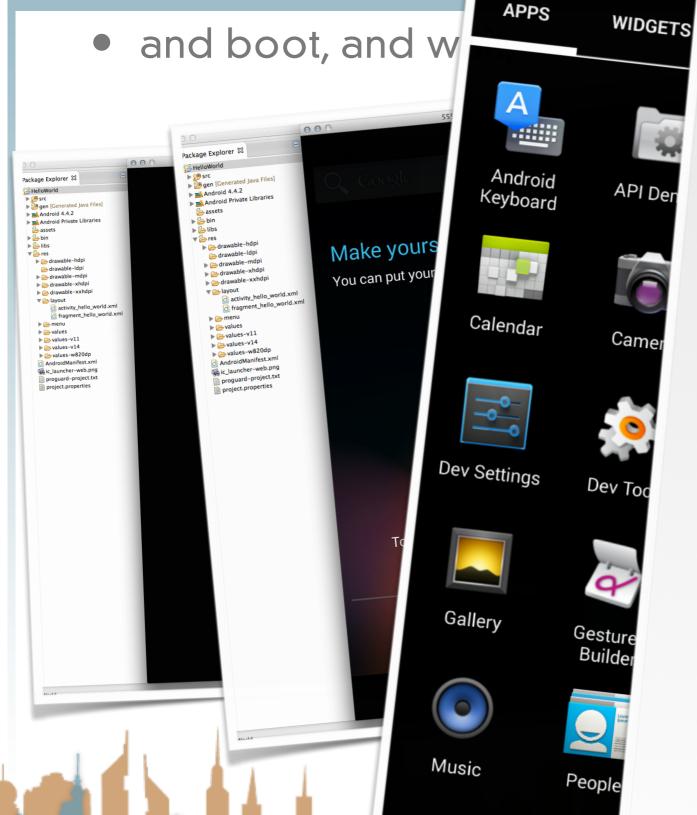


and boot, and wait,









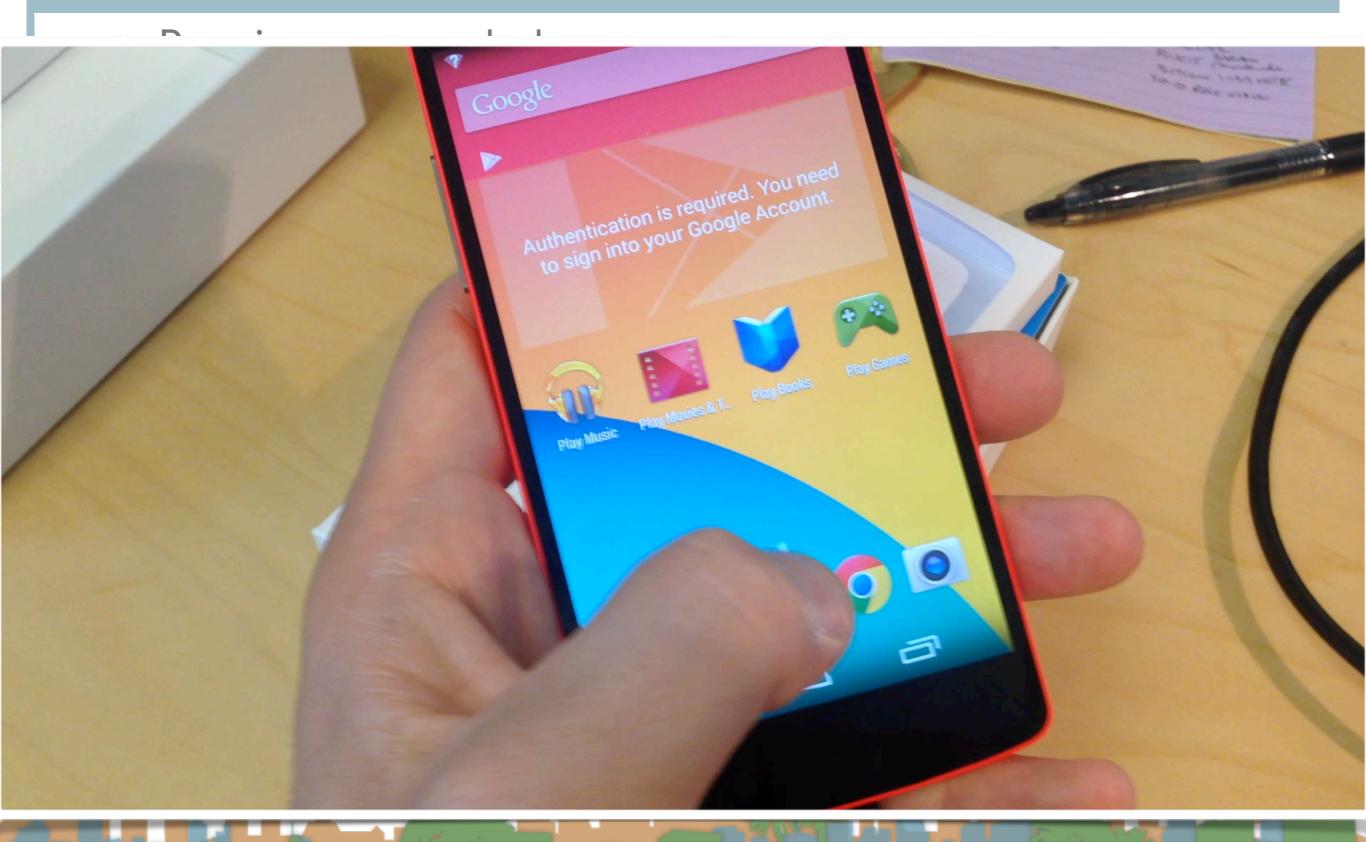


Hello world!

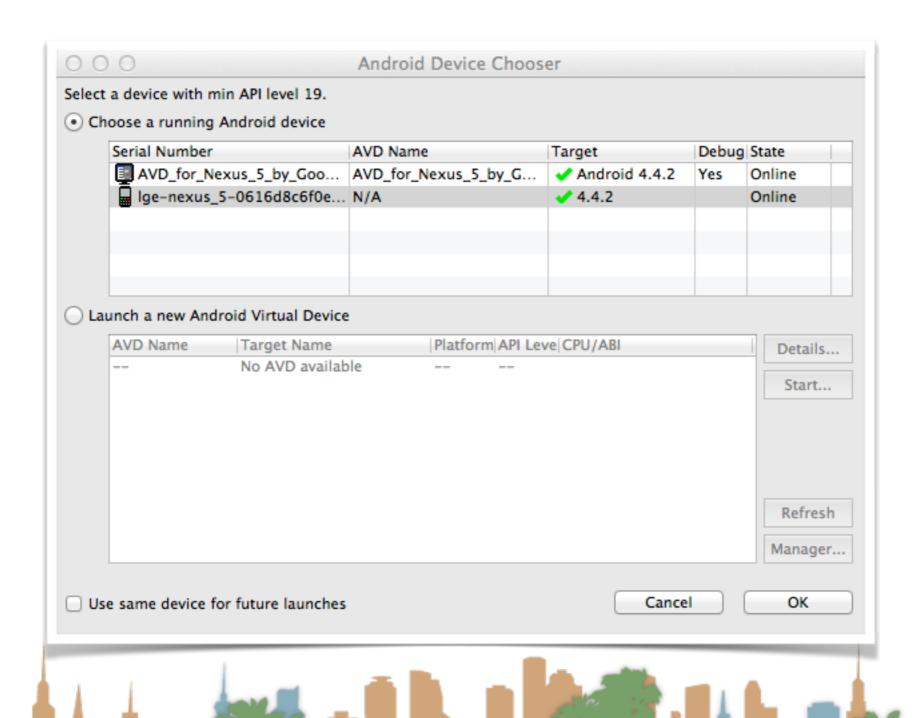




- Running on a real phone
 - Enable USB debugging in Developer settings



Now the real phone and emulator are both options



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

Now the real phone and emulator are both options

