CS160 User Interface Design

Introduction to Android

Section 1 • 8/28/2015

Sign in!

http://tinyurl.com/jingyi-160

Jingyi Li • **OH** Weds 2-3 411 Soda • noon@berkeley.edu

Logistics

Android Studio & Android SDK (adb)

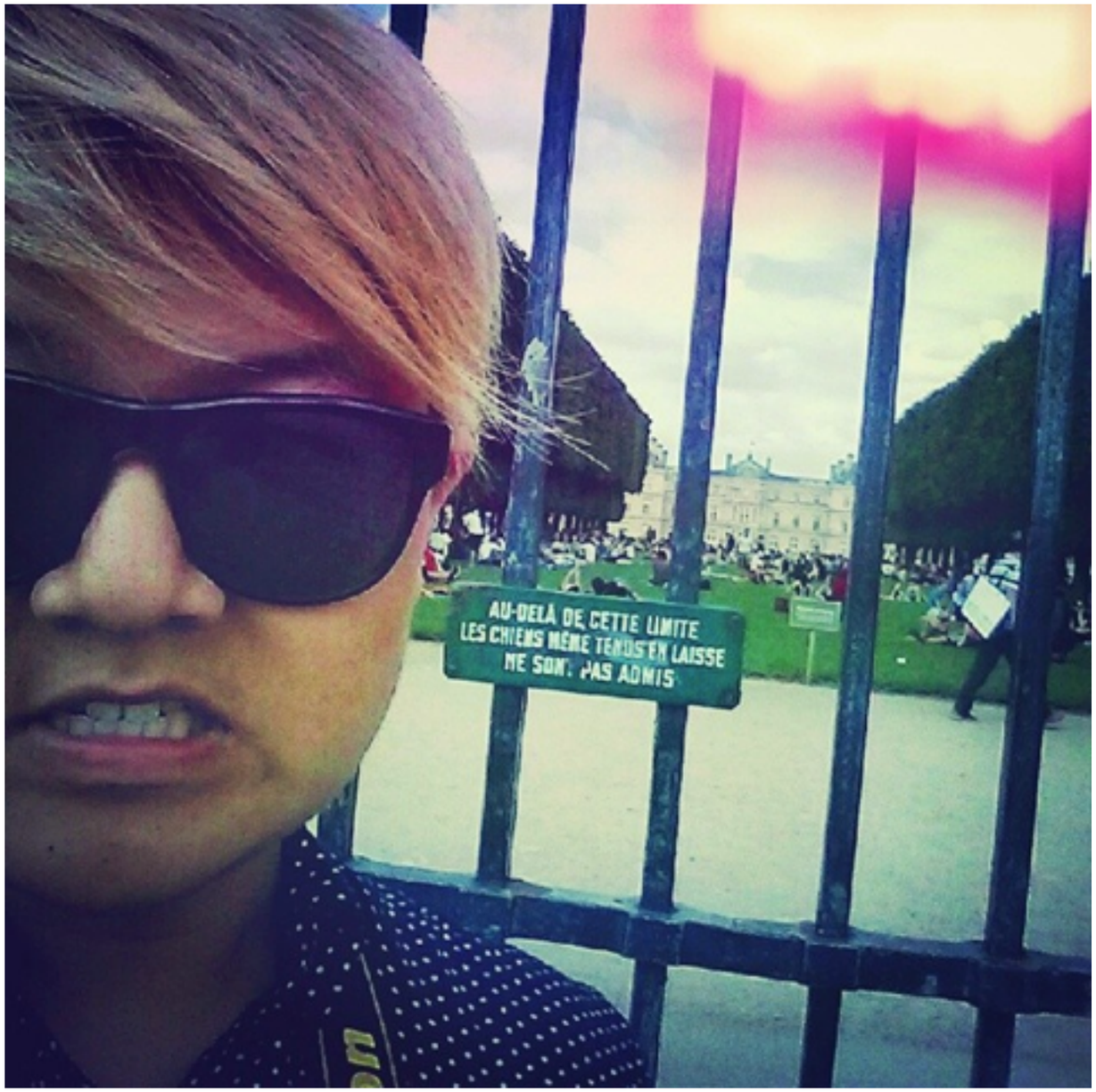
https://developer.android.com/sdk/installing/studio.html

Genymotion

https://cloud.genymotion.com/page/launchpad/download/

Sign in? Class account?

Me!



3rd year EECS

Took CS160 Su’ 15

Bcrew

Berkeley Innovation

“Maker” spaces

Adobe Creative Suite

Class Links

Course Website: http://teaching.paulos.net/cs160_FL2015/

For syllabus, grading policies, staff hours, useful links

bCourses: https://bcourses.berkeley.edu/courses/1363972

For reading response/assignment submissions, grades

Piazza: http://piazza.com/berkeley/fall2015/cs160

For Q&A

Hackster: For portfolio-ing submissions

Bitbucket: For submitting code

Assignments

Reading Response (due before next class, Thu 9/3)

0-2 scale (3 EC) • on bCourses

PRG01: You Animal (due 11:59pm Fri 9/11)

Get familiar with Android • details on bCourses • submit on Hackster/Bitbucket

DESIGN 01: Watches in the Wild (due before next-next class, Thu 9/10)

Practice the design cycle • details on bCourses • submit on Hackster

What is HCI?

Search

Pinterest

Elizabeth

Invite Friends To Pinterest

John Bourjaily
Invite

Rachel Bittenson
Invite

Niraj Amalkanti
Invite

Invite Friends

Find Friends

Kendra Prior
Follow

Megan Johnson
Follow

Lili Zhu
Follow

Topology ★ Find more at www.pinterest.com...

2 2

Found in
Character Design

Monster Children - I had the pleasure of hearing Campbell Milligan speak last night at the apple store in Sydney. Ive been following the mag for 10 years, and it still seems relevant and progressive. It was interesting to hear his creative influences were very similar to mine. I need to go and look at all my old David Carson books again. Inspiration at it finest. Nice one MC!

6 2

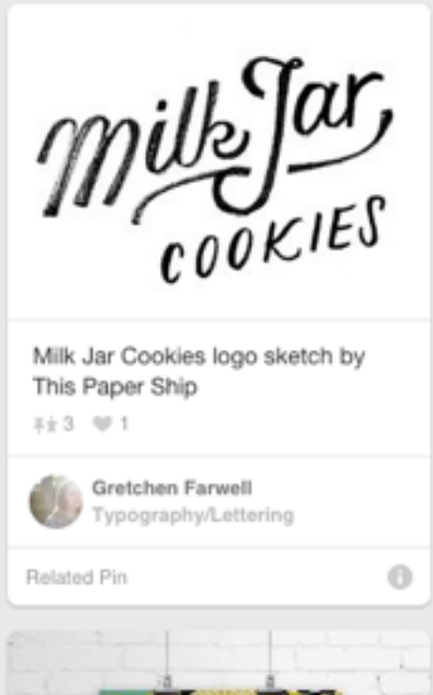
Nicole Esche
Layout

Related Pin

The Orange Dot Gallery presents: ORIGIN LONDON iloveyourtshirt.c...

9

Found in
Typography



Milk Jar Cookies logo sketch by This Paper Ship

3 1

Gretchen Farwell
Typography/Lettering

Related Pin

30 Flat Poster Design for Your Inspiration

1 1

9:41 AM
100%
Messages
Calendar
Photos
Camera
Weather
Clock
Maps
Videos
Notes
Reminders
Stocks
Game Center
Newsstand
iTunes Store
App Store
Passbook
Compass
Settings
Phone
Mail
Safari
Music
1:01
3:00
Power Trip (feat. Miguel)
J Cole - Born Sinner (Deluxe Version)
AirDrop
AirPlay
Messages
Peter
Contact
What's up?
Tony and Beth are in town. And they're free for dinner tonight.
Let's have them over. They haven't seen the new house. Want to grill?
Sure. It will be great to see them again.
Get a bunch of vegetables. And skewers.
Mail
Messages
Calendar

Envelope-Free℠ deposits
Checks
Welcome, insert your card
Xin chào, xin đưa thẻ của quý vị vào
REMOVE CASH
CANCEL
DEPOSIT CHECKS / CASH

5.89MI

This Class:

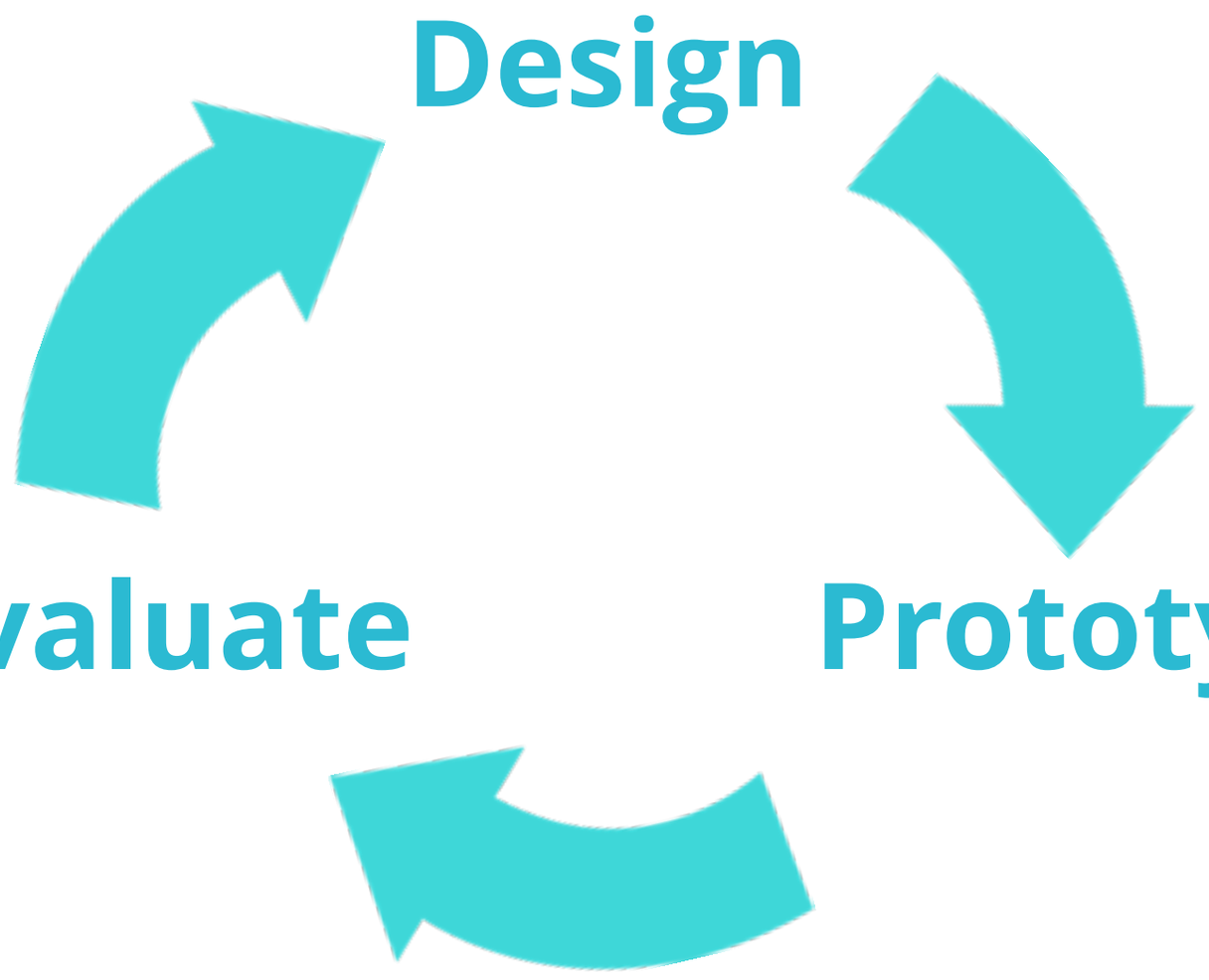
Devices

- How does it work? (61C/162)
- How is the architecture set up of connected devices? (168)
- How can we manage stored information? (186)

User

- How can we abstract this information so the user has a good time interacting with it?
- (Hint: You're going to have to actually talk to people!)

Design is iterative.



Industry: UI/UX / Front-end

The Content

User Interface

User Experience

Research

Makers' Marks:
Physical Markup for Designing and Fabricating Functional Objects

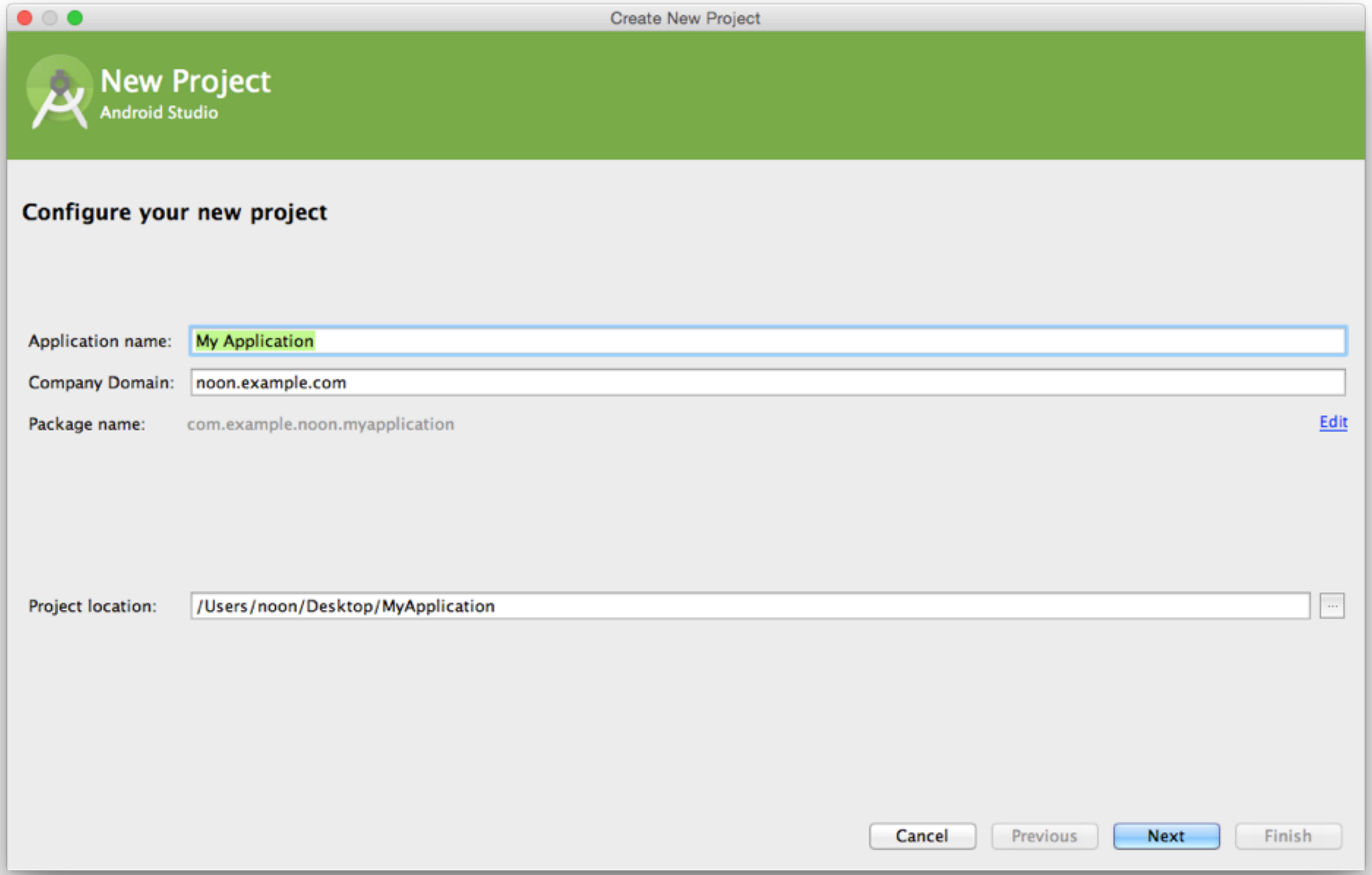
Valkyrie Savage*, Sean Follmer◊,
Jingyi Li*, Björn Hartmann*

*UC Berkeley EECS
◊Stanford University

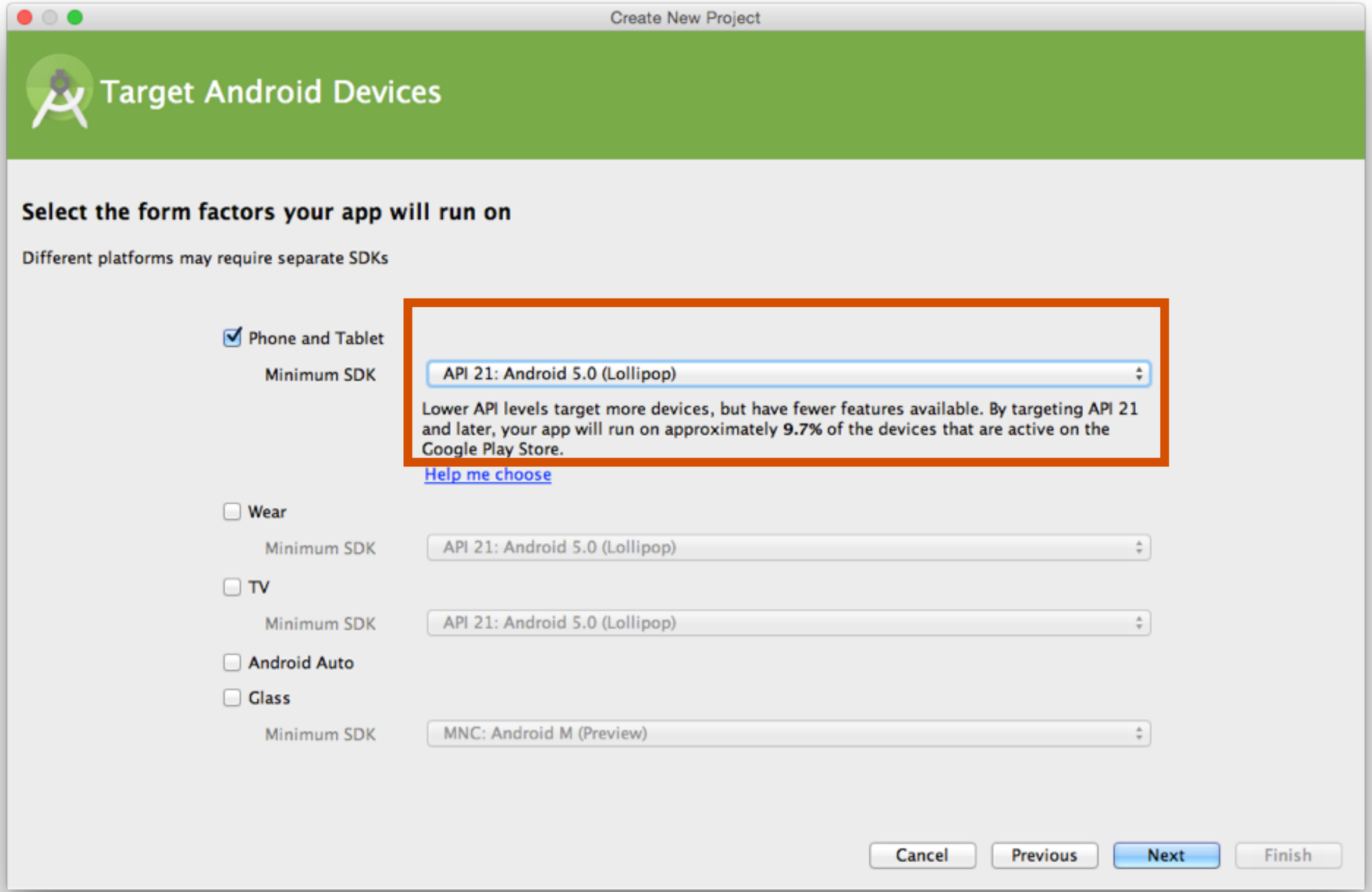
music by candu

Let’s get started with Android!

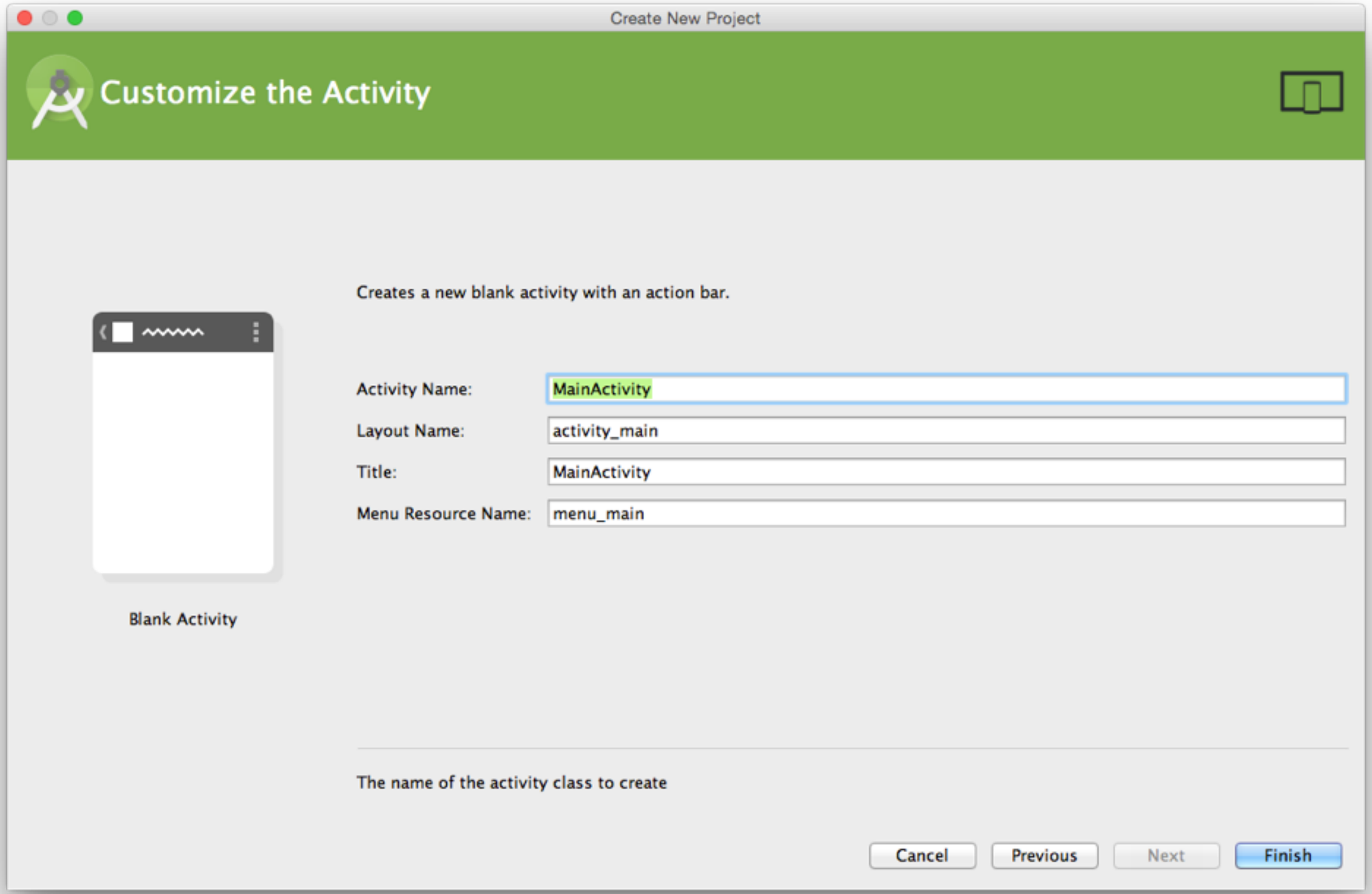
Creating a New Project



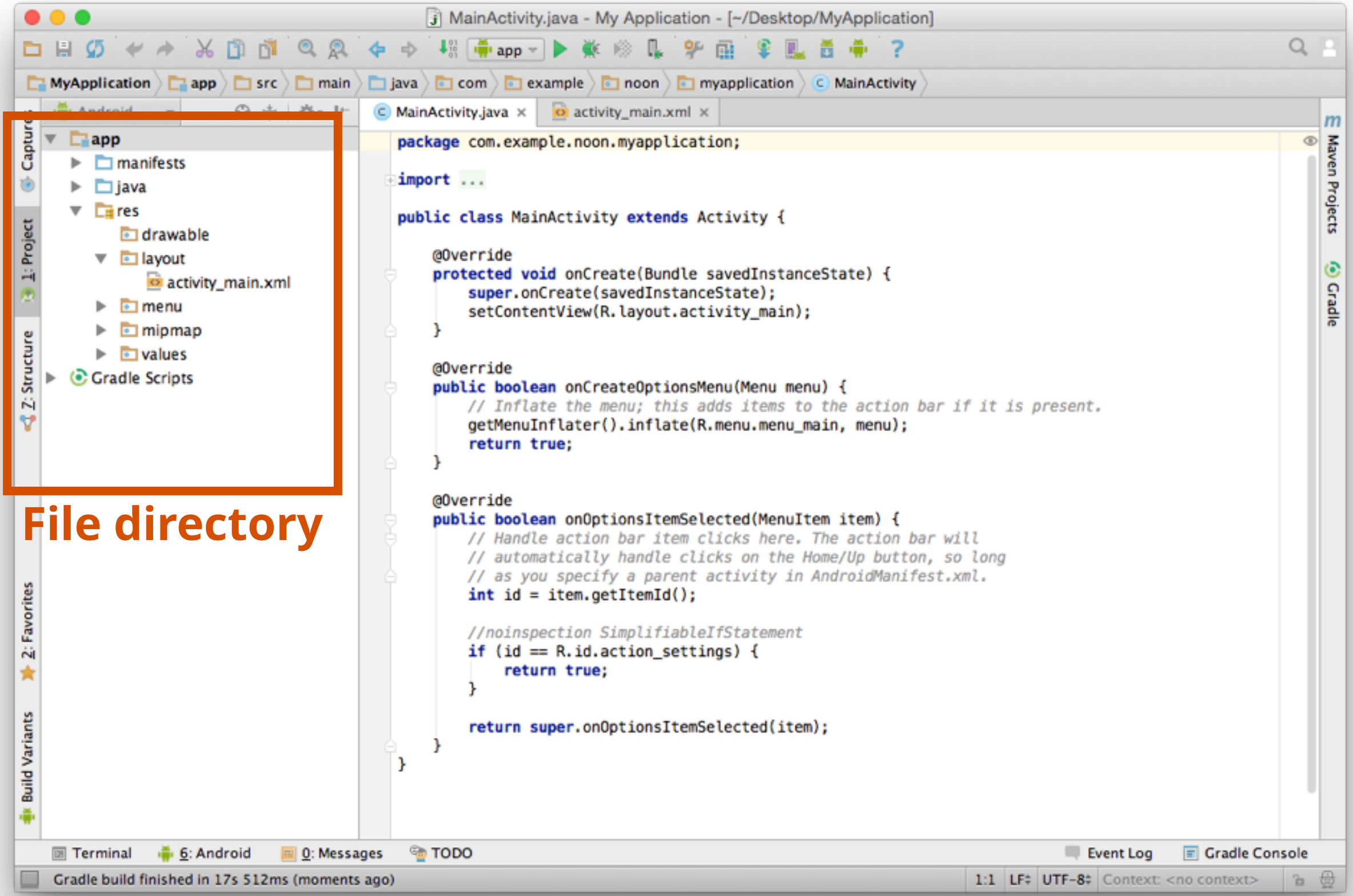
Creating a New Project



Creating a New Project



Android Studio Layout



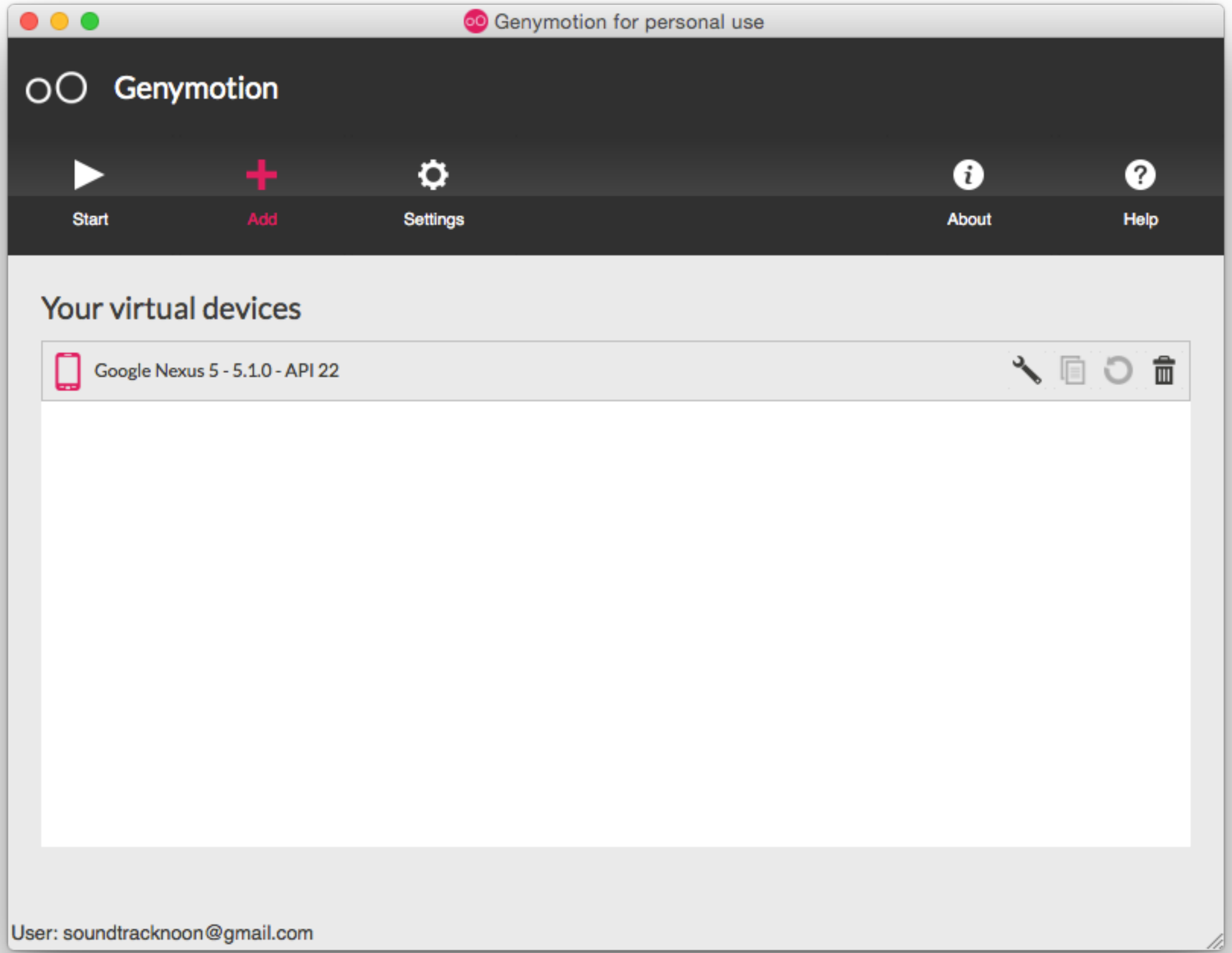
SDK Version: API 21

Open up **app > build.gradle**

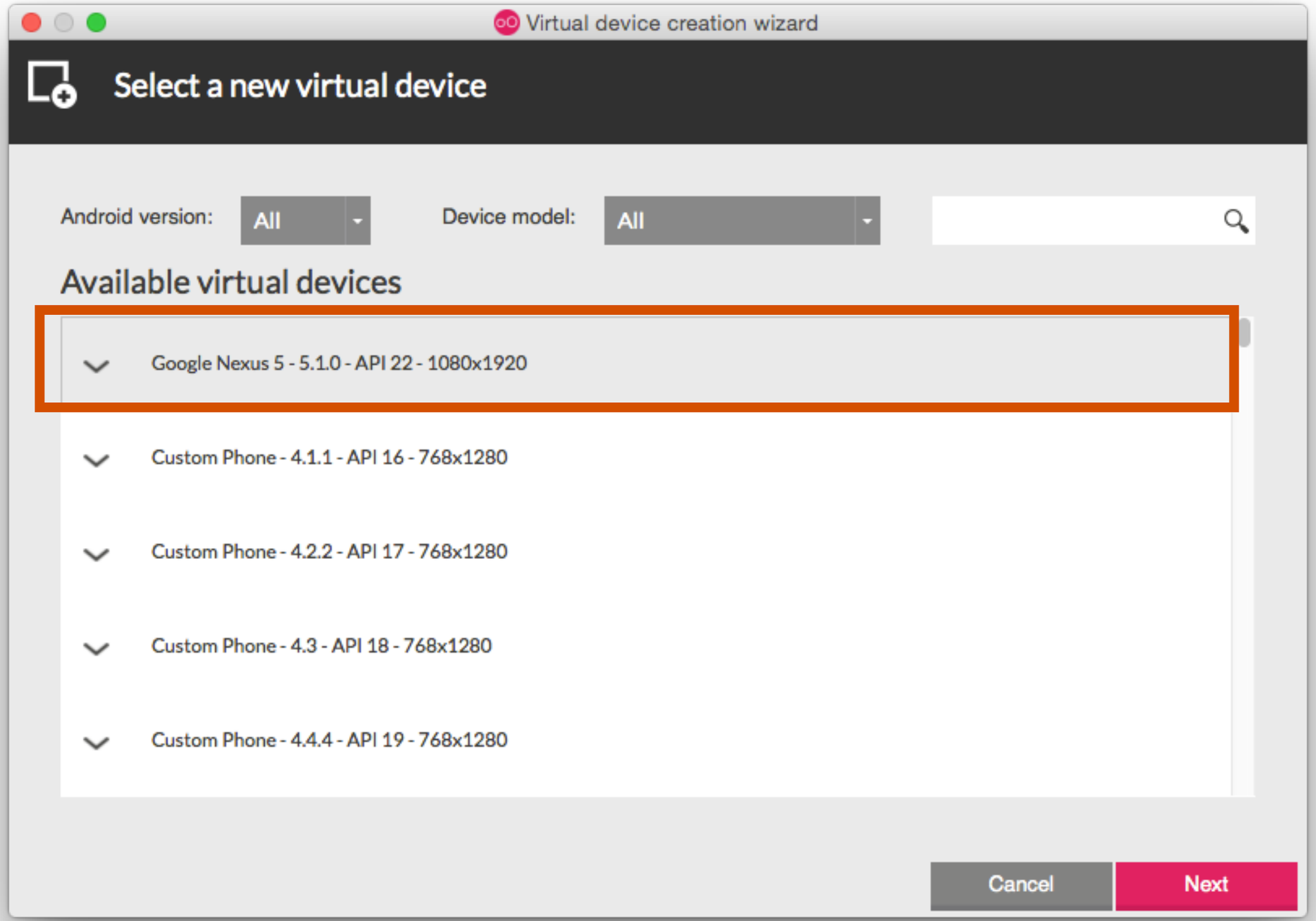
Make sure **compileSdkversion** and **targetSdkVersion** are ≥ **21**

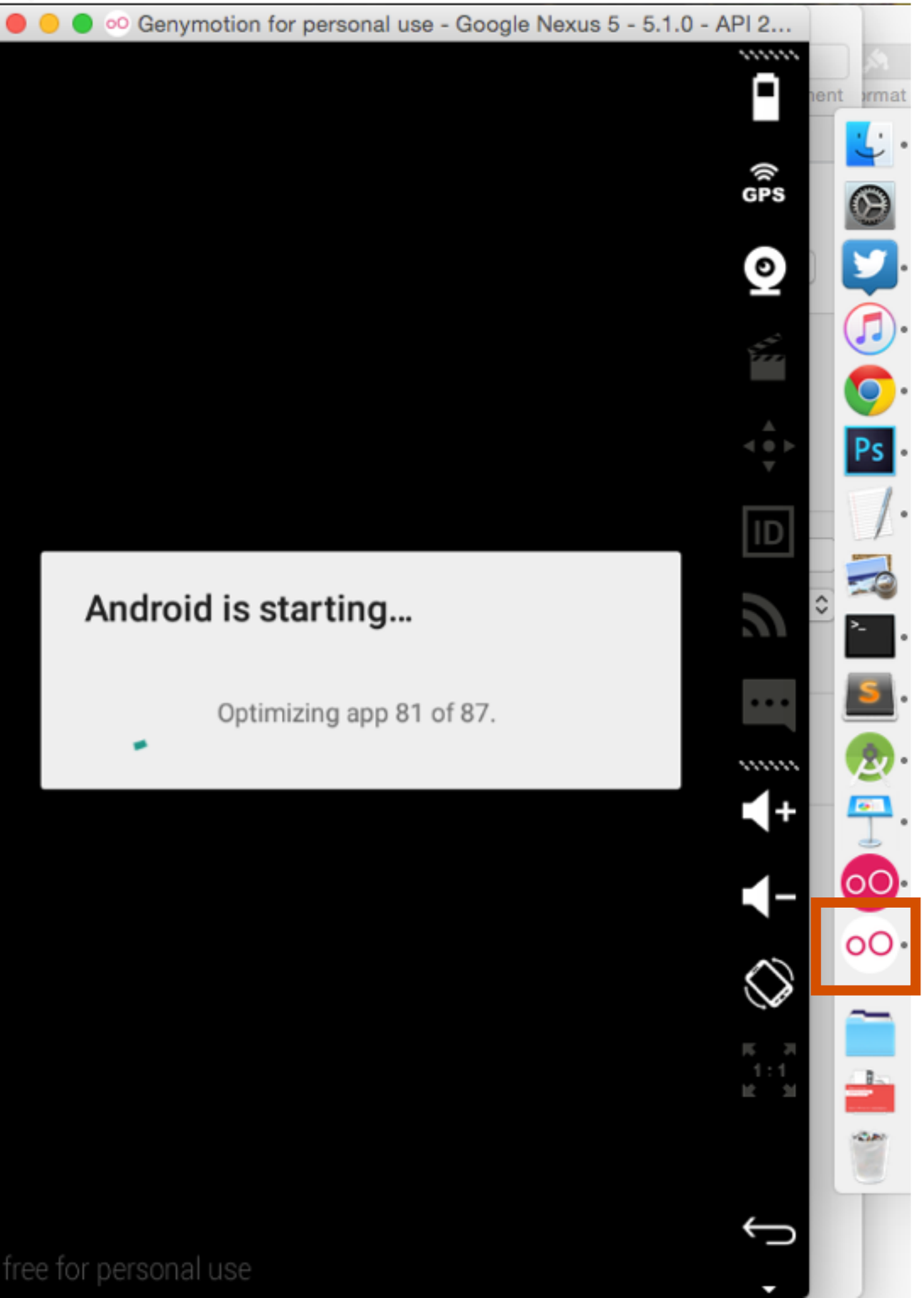
```
apply plugin: 'com.android.application'

android {
    compileSdkVersion 22
    buildToolsVersion "23.0.0 rc3"

    defaultConfig {
        applicationId "com.example.noon.myapplication"
        minSdkVersion 21
        targetSdkVersion 22
        versionCode 1
        versionName "1.0"
    }
    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'
        }
    }
}

dependencies {
    compile fileTree(dir: 'libs', include: ['*.jar'])
}
```

Genymotion


Genymotion for personal use
Genymotion
Start
Add
Settings
About
Help
Your virtual devices
Google Nexus 5 - 5.1.0 - API 22
User: soundtracknoon@gmail.com

Genymotion

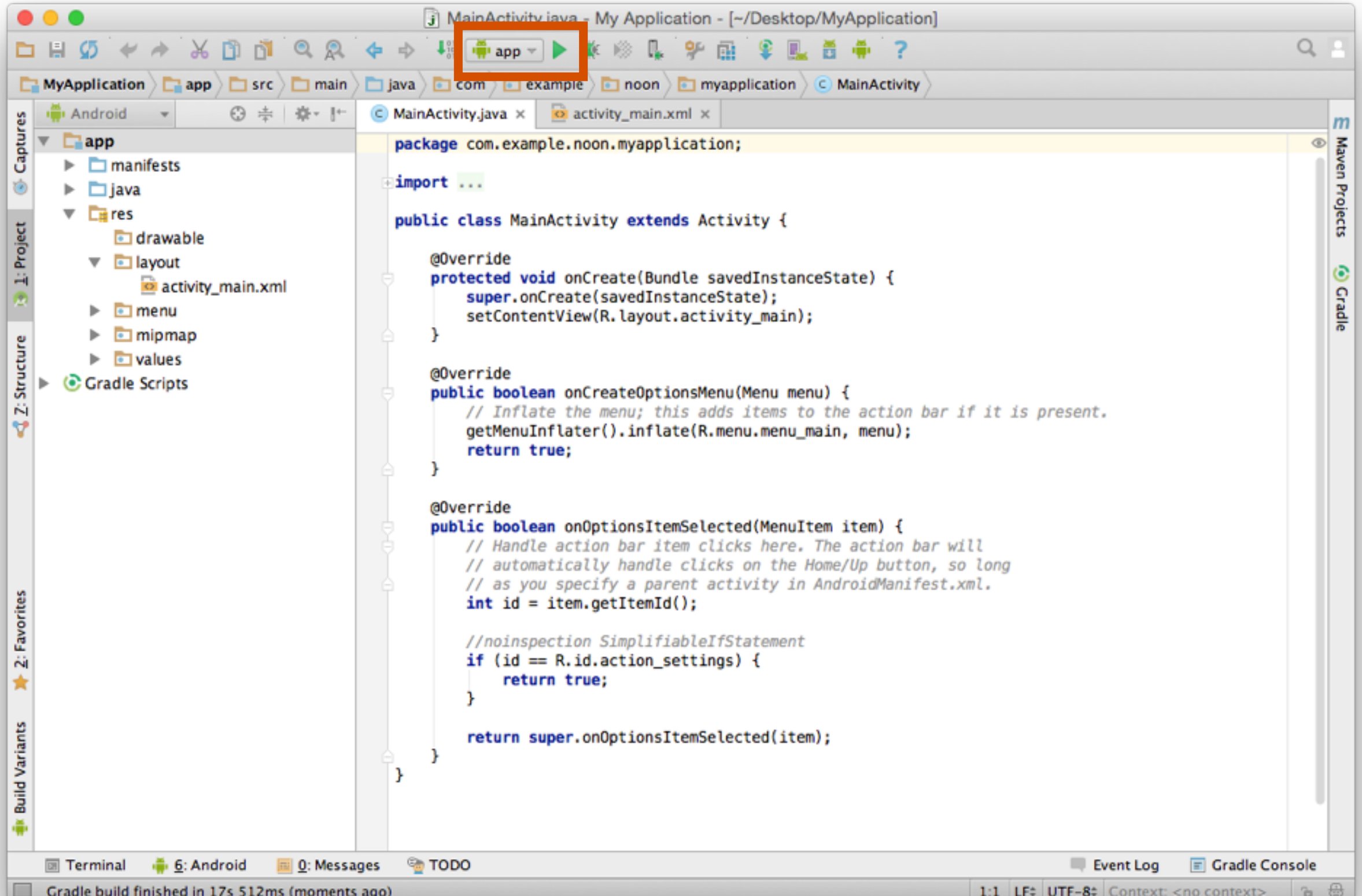

Virtual device creation wizard
Select a new virtual device
Android version:
All
Device model:
All
Available virtual devices
Google Nexus 5 - 5.1.0 - API 22 - 1080x1920
Custom Phone - 4.1.1 - API 16 - 768x1280
Custom Phone - 4.2.2 - API 17 - 768x1280
Custom Phone - 4.3 - API 18 - 768x1280
Custom Phone - 4.4.4 - API 19 - 768x1280
Cancel
Next


Genymotion for personal use - Google Nexus 5 - 5.1.0 - API 2...
GPS
Android is starting...
Optimizing app 81 of 87.
free for personal use

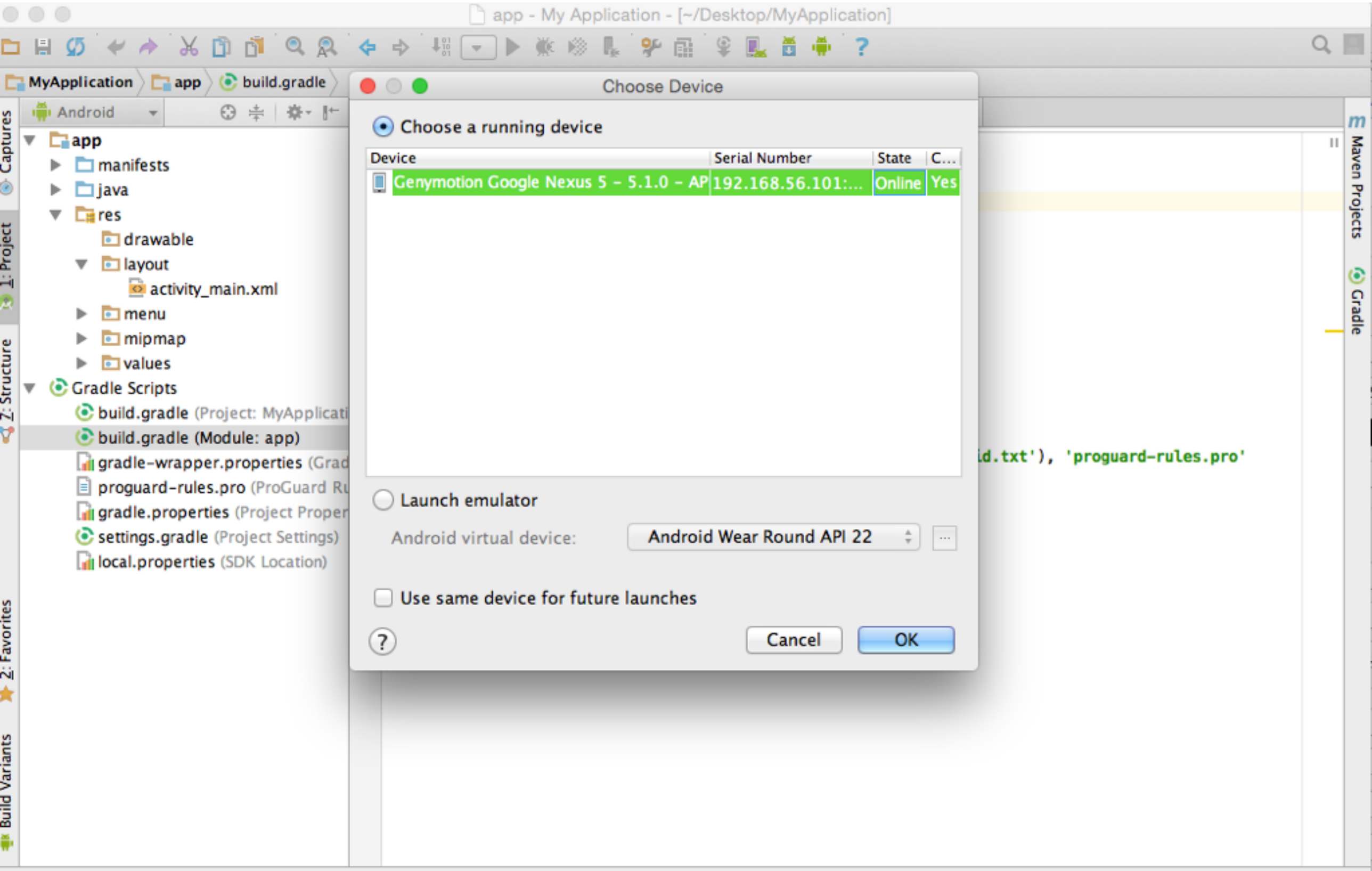
Genymotion

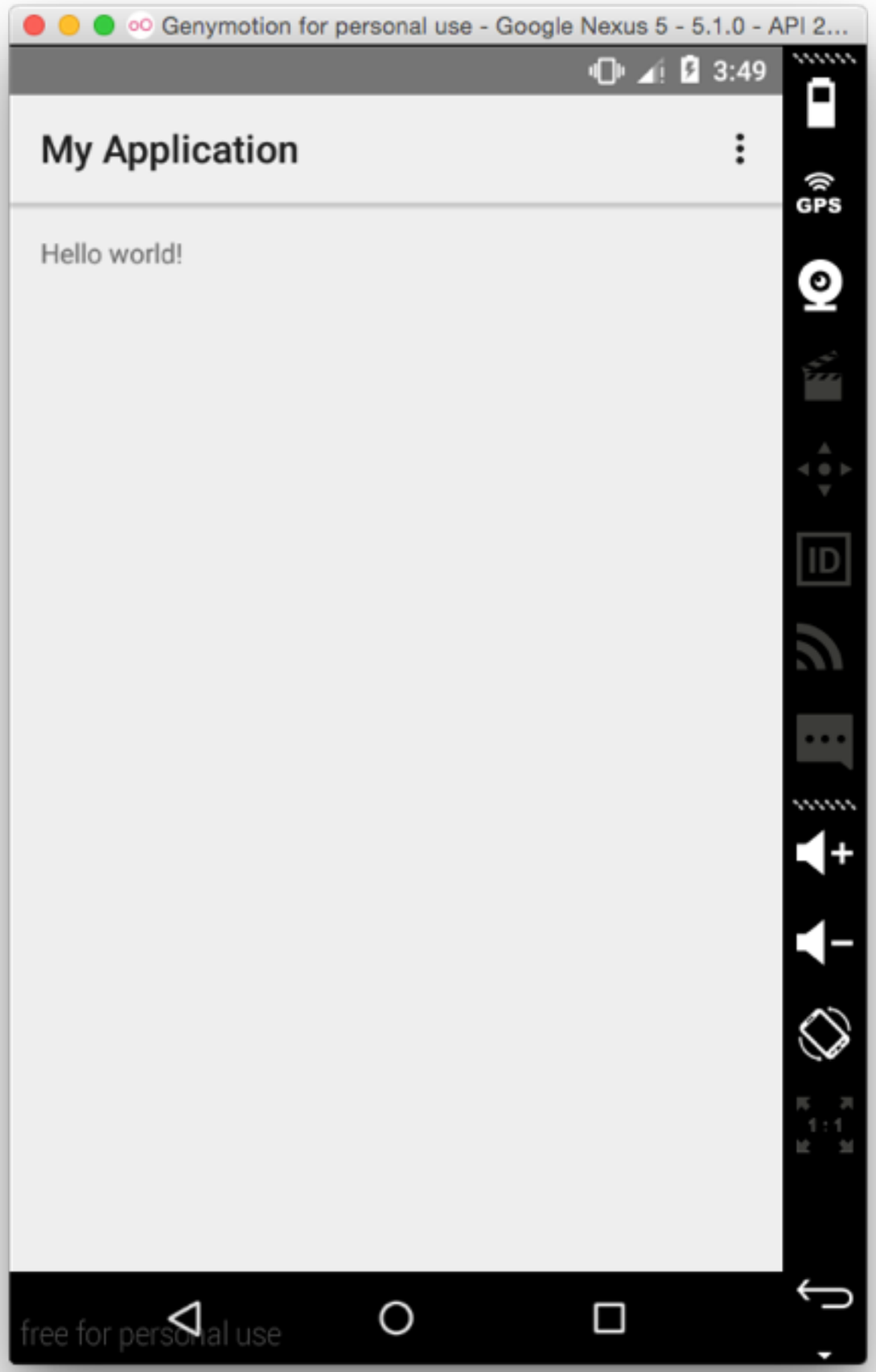
Android Studio Layout

Run the app

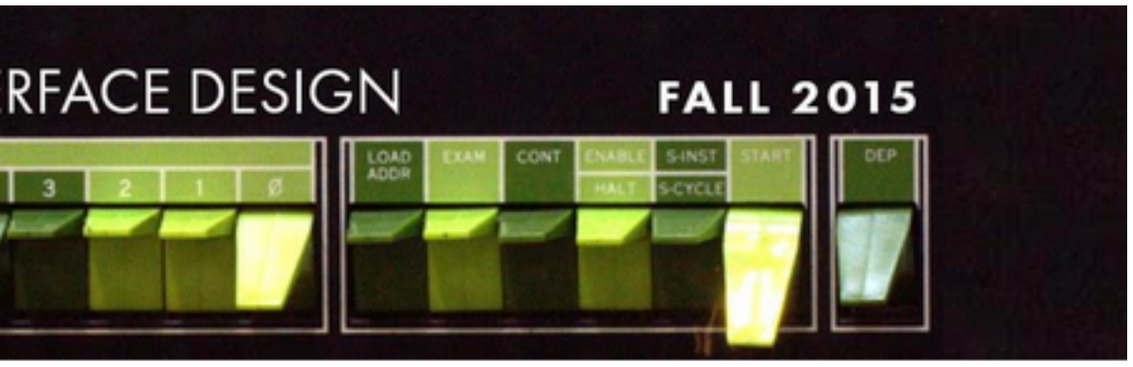


Android Studio Layout




Genymotion for personal use - Google Nexus 5 - 5.1.0 - API 2...
3:49
My Application
Hello world!
GPS
ID
1:1
free for personal use

You did it!



bCourses Piazza Hackster

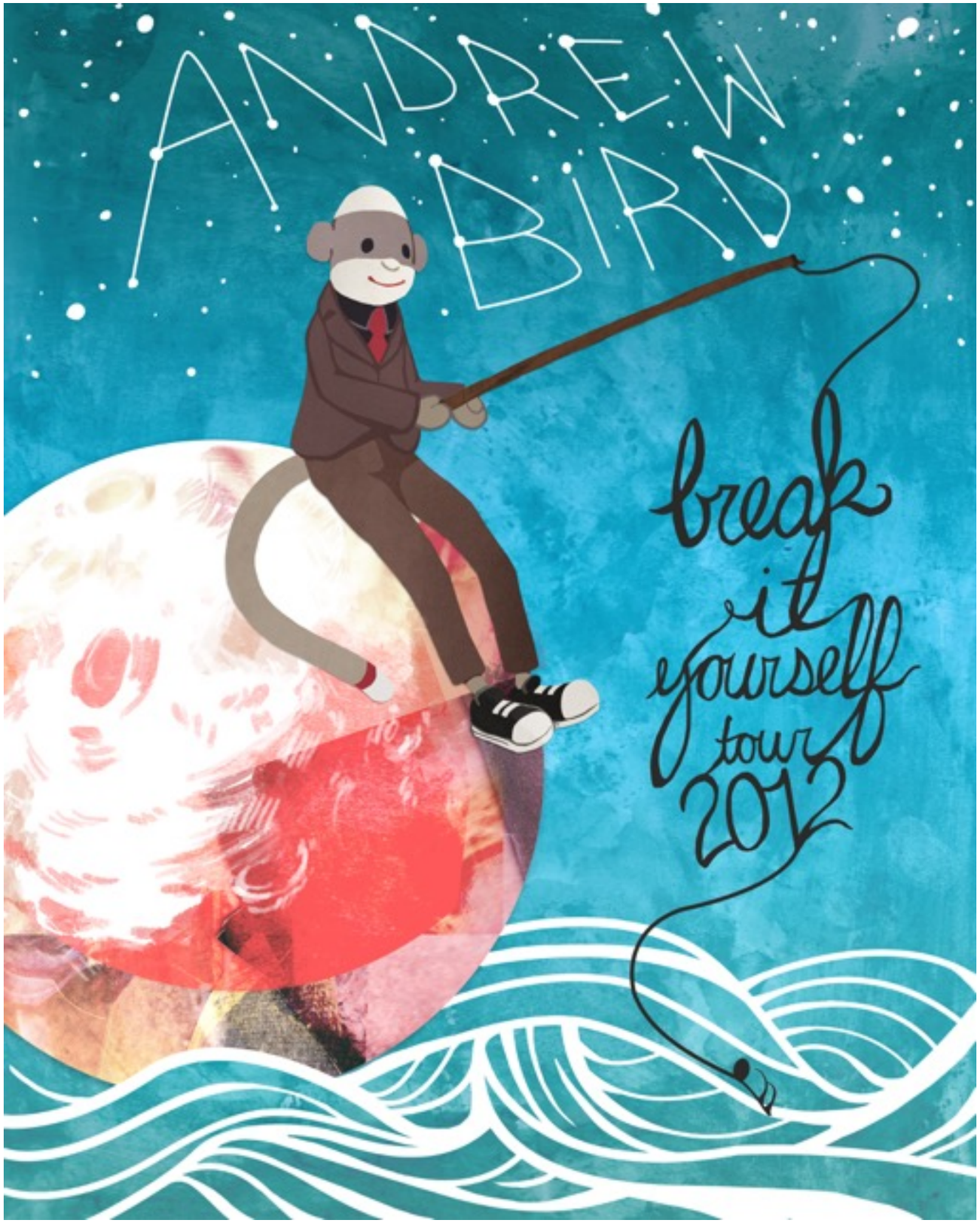
Section Links

Section 1 Handout

Section Handout

- Code
- IDE tips
- User Interface Layout 101:
  - Software Architecture
  - Views
  - Android Style Guide
  - Controllers & Models
  - Emulator help
  - Debugging your Program

2005



2012

Did you sign in? Class account form?

http://tinyurl.com/jingyi-160

Reading Response • before class Thu 9/3

PRG01: You Animal • 11:59pm Fri 9/11

DESIGN 01: Watches in the Wild • before class Thu 9/11

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