

# React Native Setup

WebApp

DataLab, CS, NTHU

2019 Spring

# Installation

- Requirements
  - JDK 8
  - Python: both 2, 3 works for react native
  - React Native: `npm install -g react-native-cli`
  - Window:
    - Install Python2 and JDK through [Chocolatey](#)
    - `choco install -y nodejs.install python2 jdk8`
  - Mac:
    - [Download and install Oracle JDK 8](#)
    - Modern macOS versions come with Python 2.7.x itself

# Installation

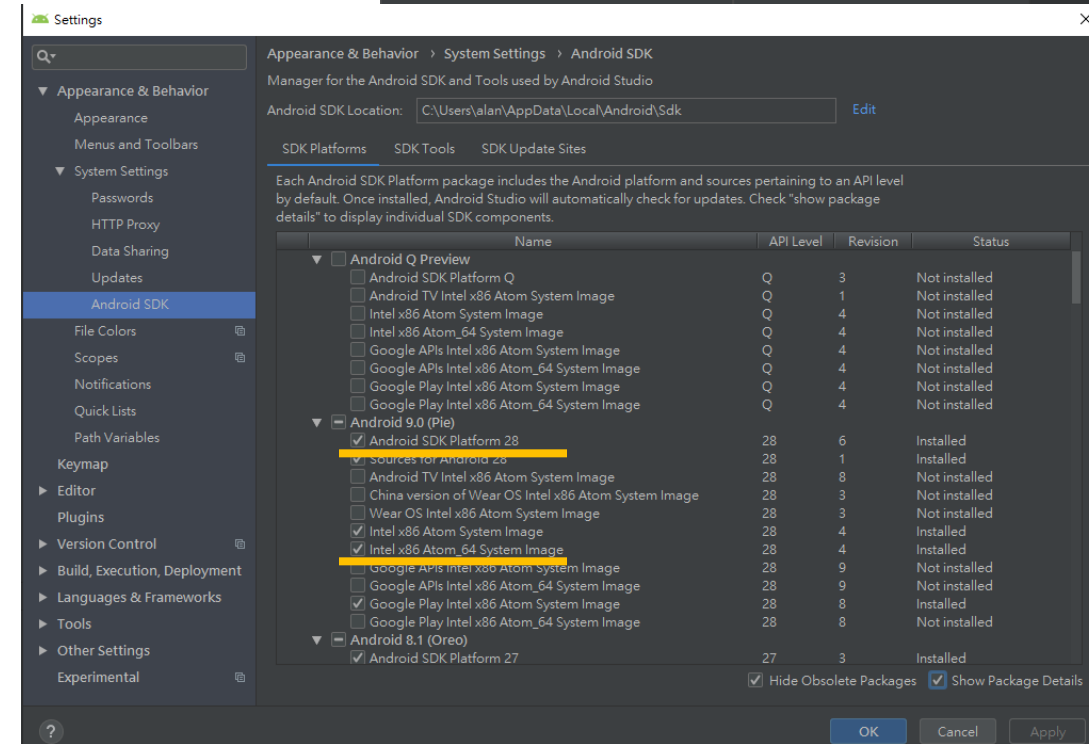
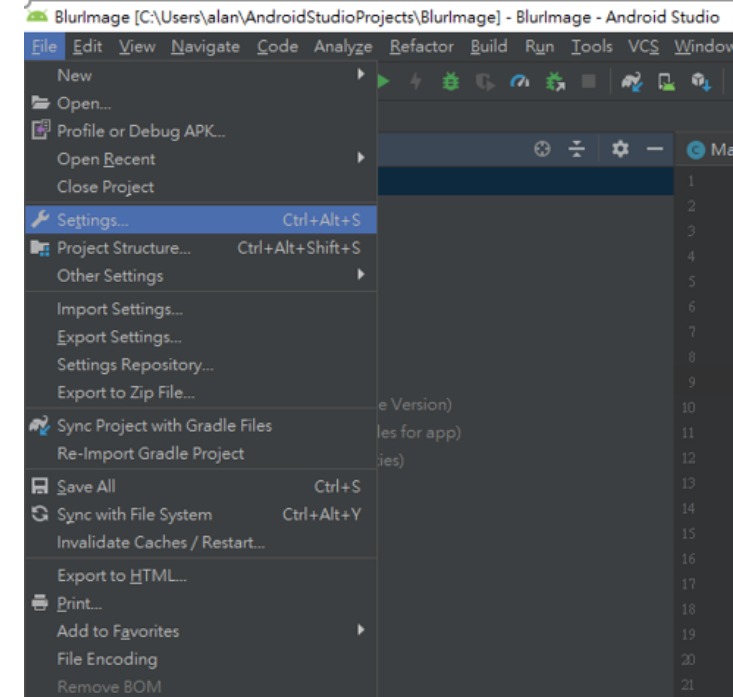
- [Android Studio](#)
  - Choose a "Custom" setup
  - Make sure the boxes are checked:
    - Android SDK
    - Android SDK Platform
    - Performance(Intel HAXM)
    - Android Virtual Device

# Installation

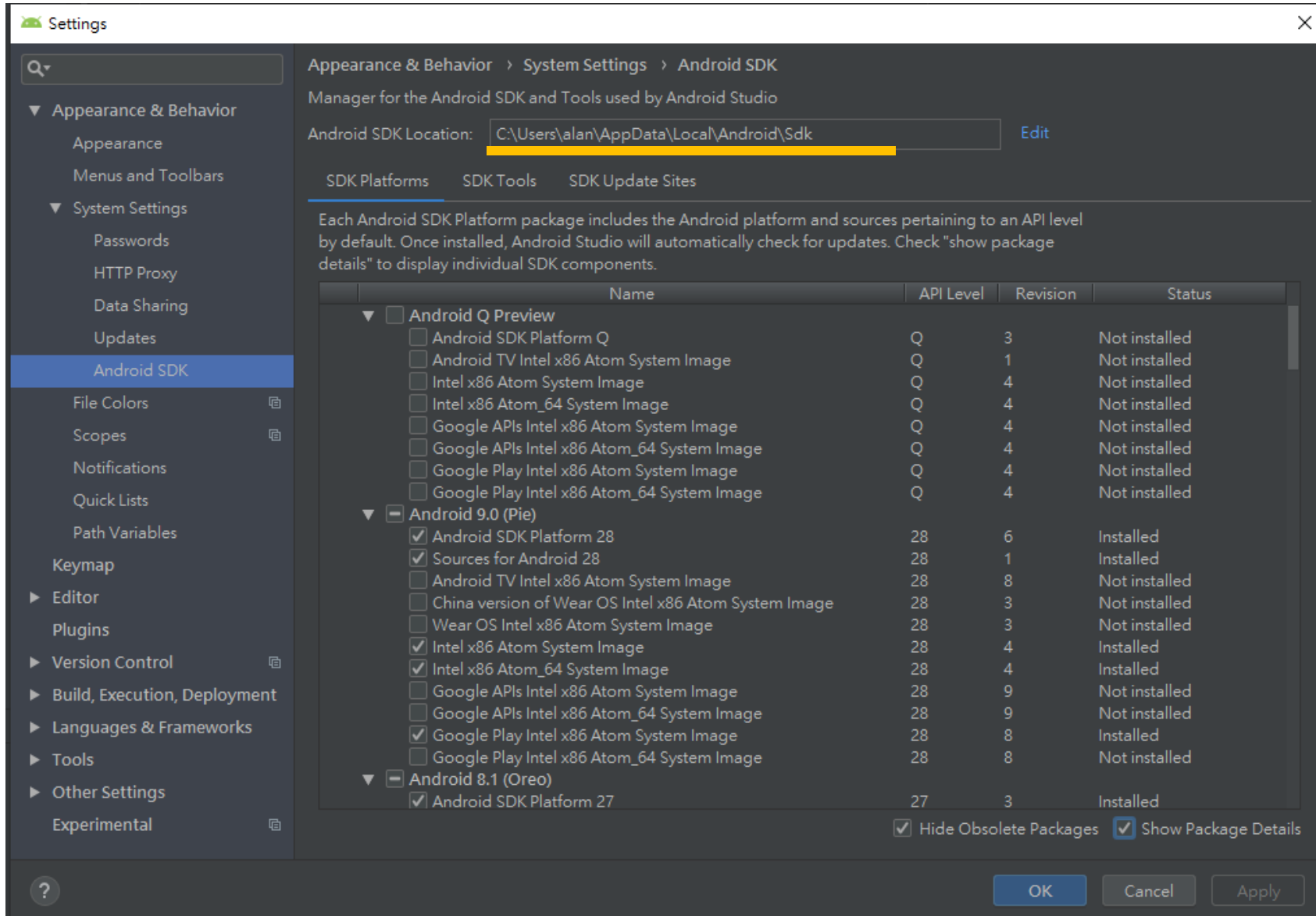
- Android Studio

- Install the Android SDK

- open SDK Manager
      - File->settings->Appearance & Behavior->Android SDK
    - make sure the following items are checked
      - Android SDK Platform 28
      - Intel x86 Atom\_64 System Image or Google APIs Intel x86 Atom System Image
  - then click Apply

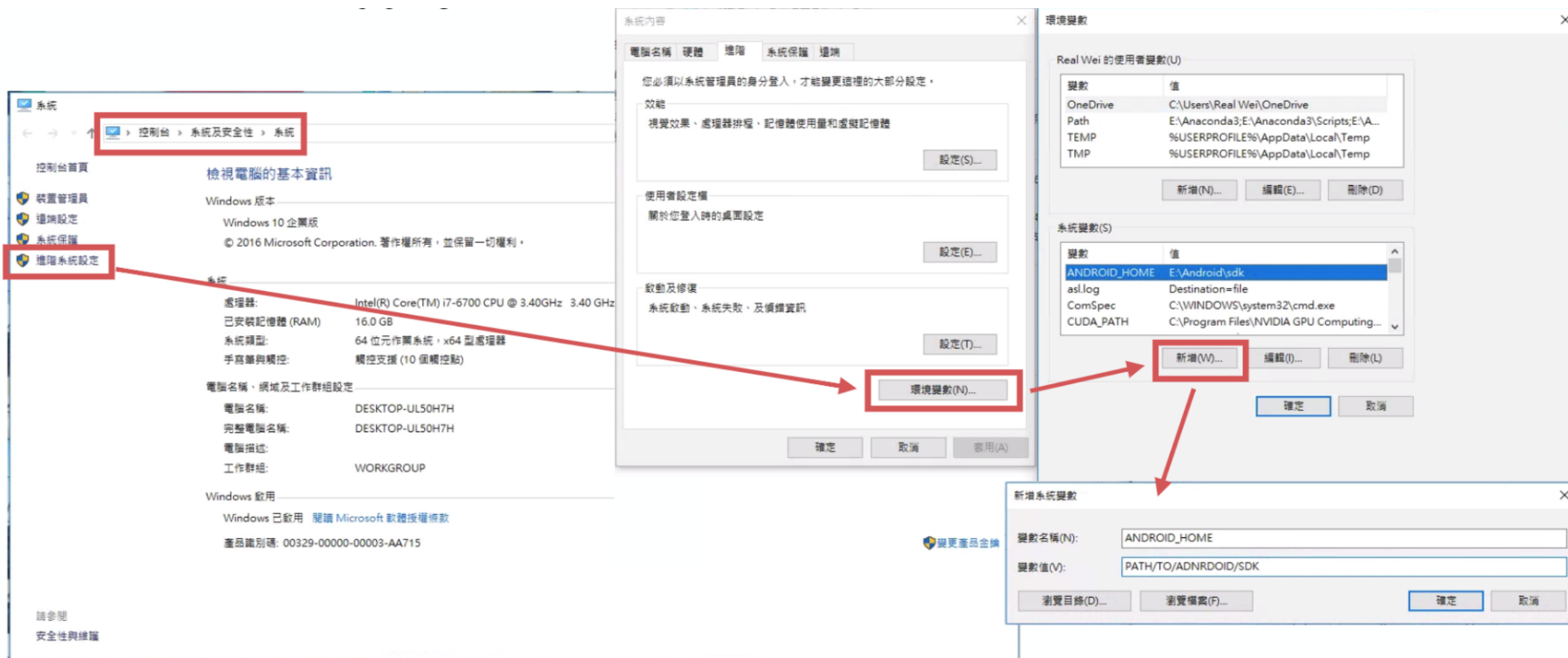


# Android SDK Path



# Environment Variable

- Windows



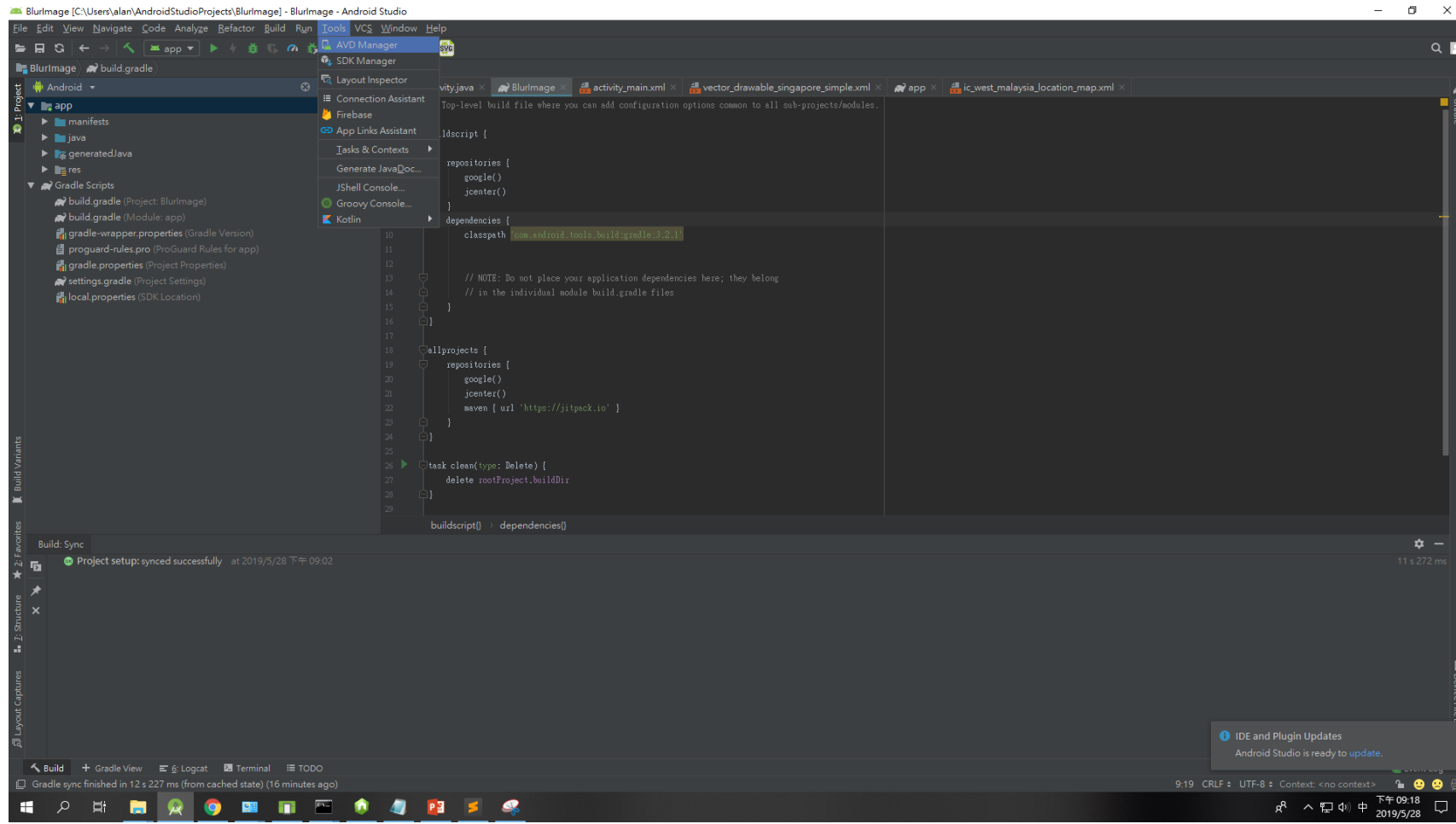
# Environment Variable

- Mac

- ```
export ANDROID_HOME=$HOME/Library/Android/sdk export  
PATH=$PATH:$ANDROID_HOME/emulator export  
PATH=$PATH:$ANDROID_HOME/tools export  
PATH=$PATH:$ANDROID_HOME/tools/bin export  
PATH=$PATH:$ANDROID_HOME/platform-tools
```

# Android Virtual Device

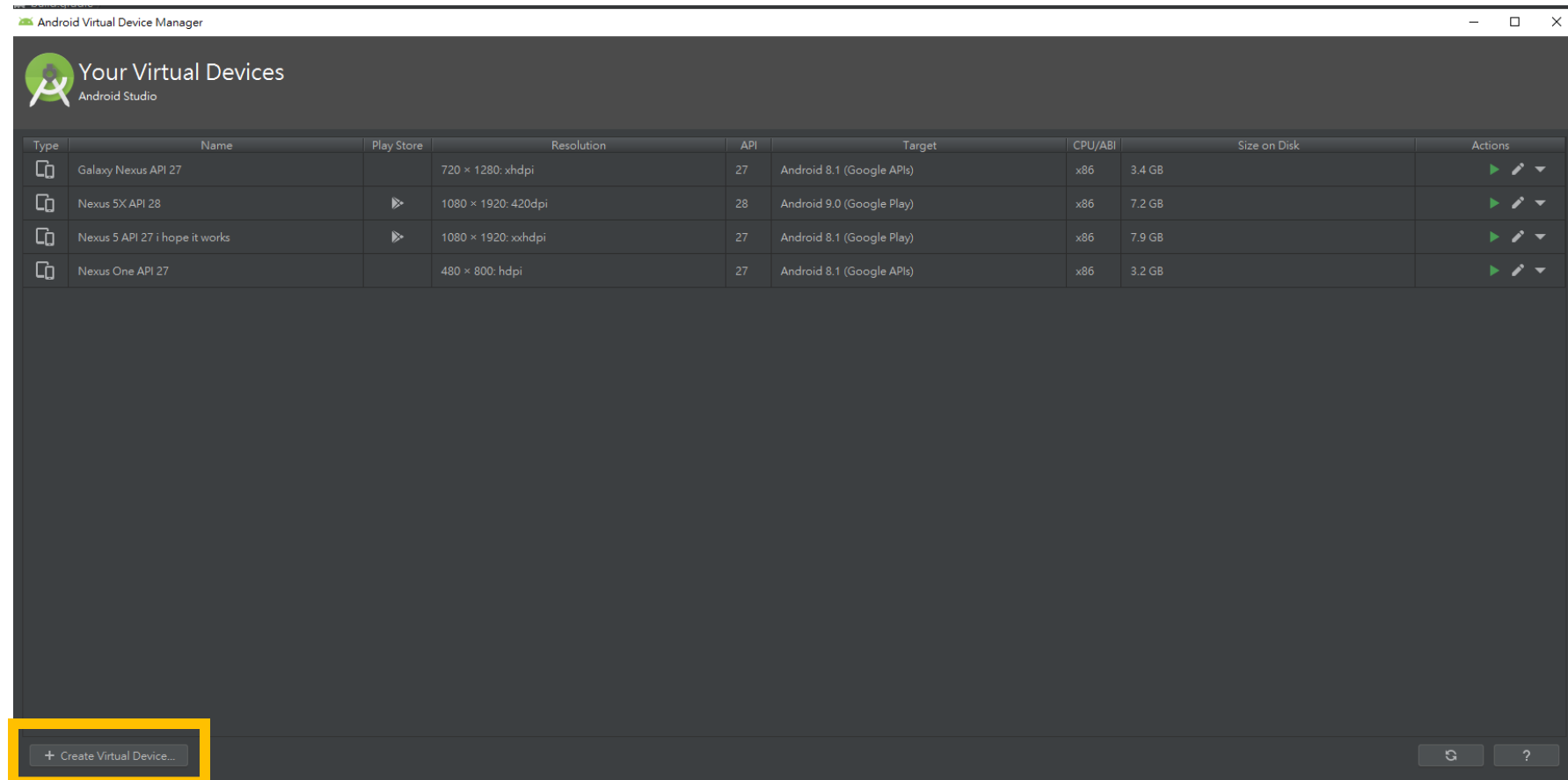
- Open AVD Manager





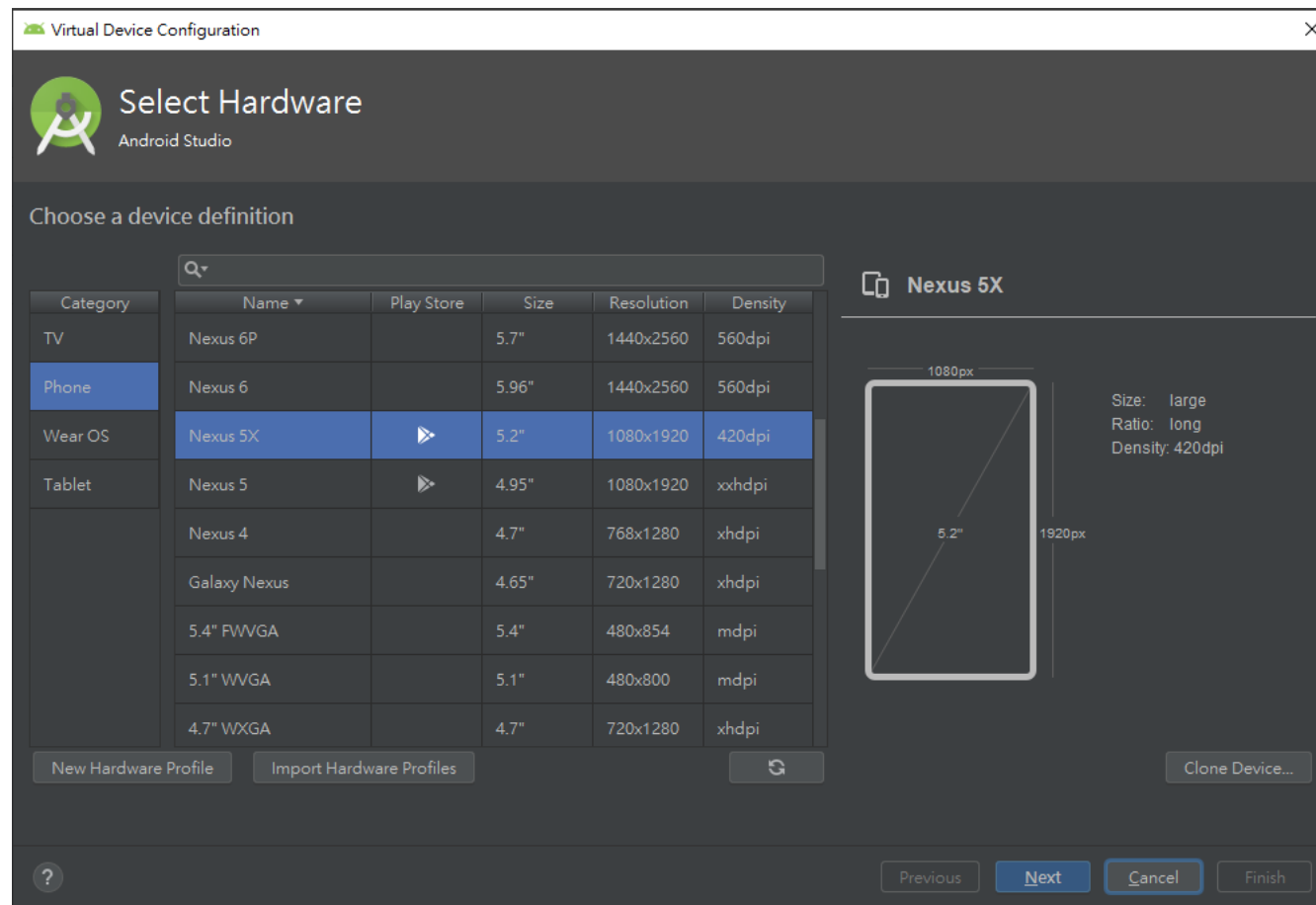
# Android Virtual Device

- Create Virtual Device



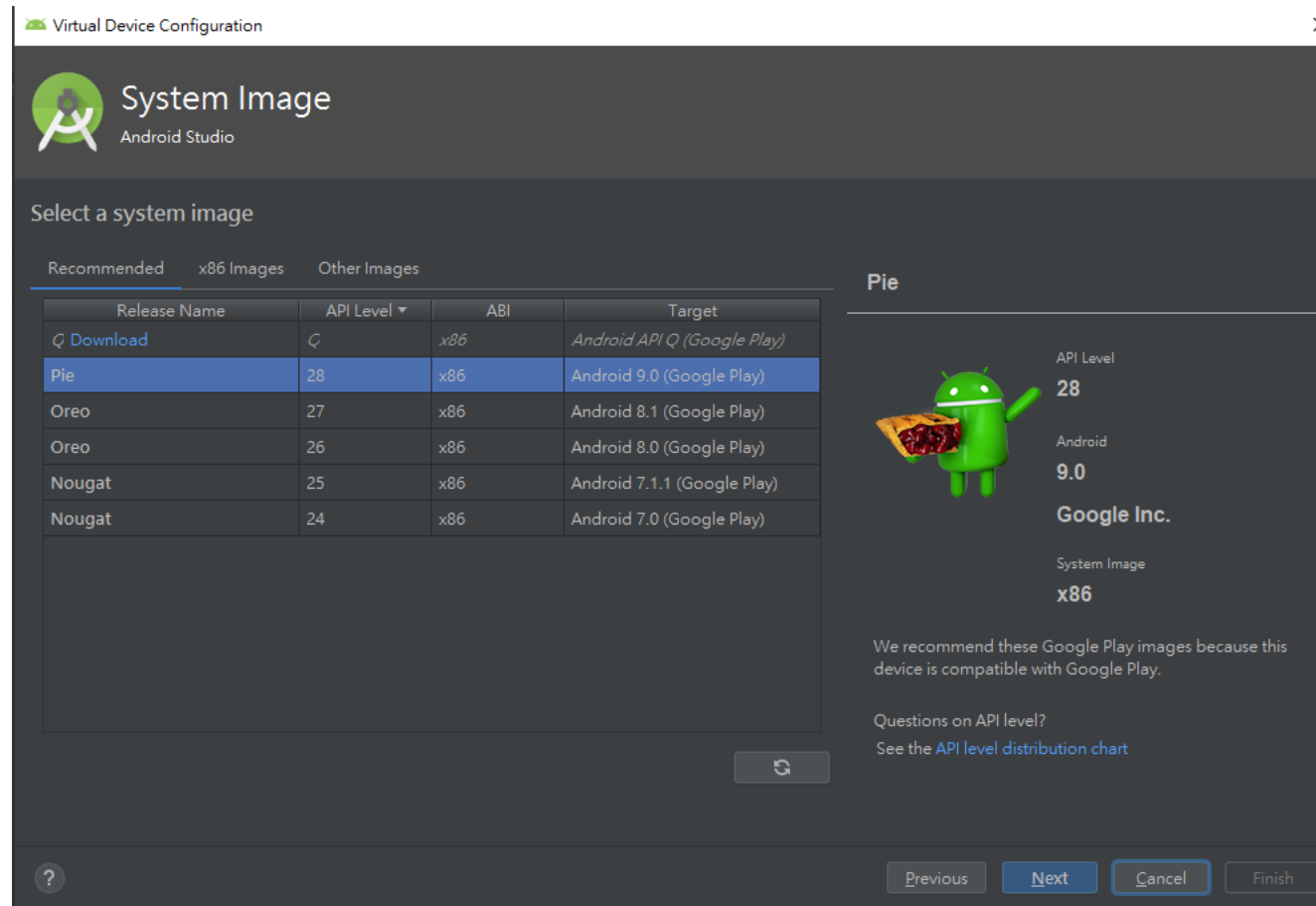
# Android Virtual Device

- Choose any phone you like



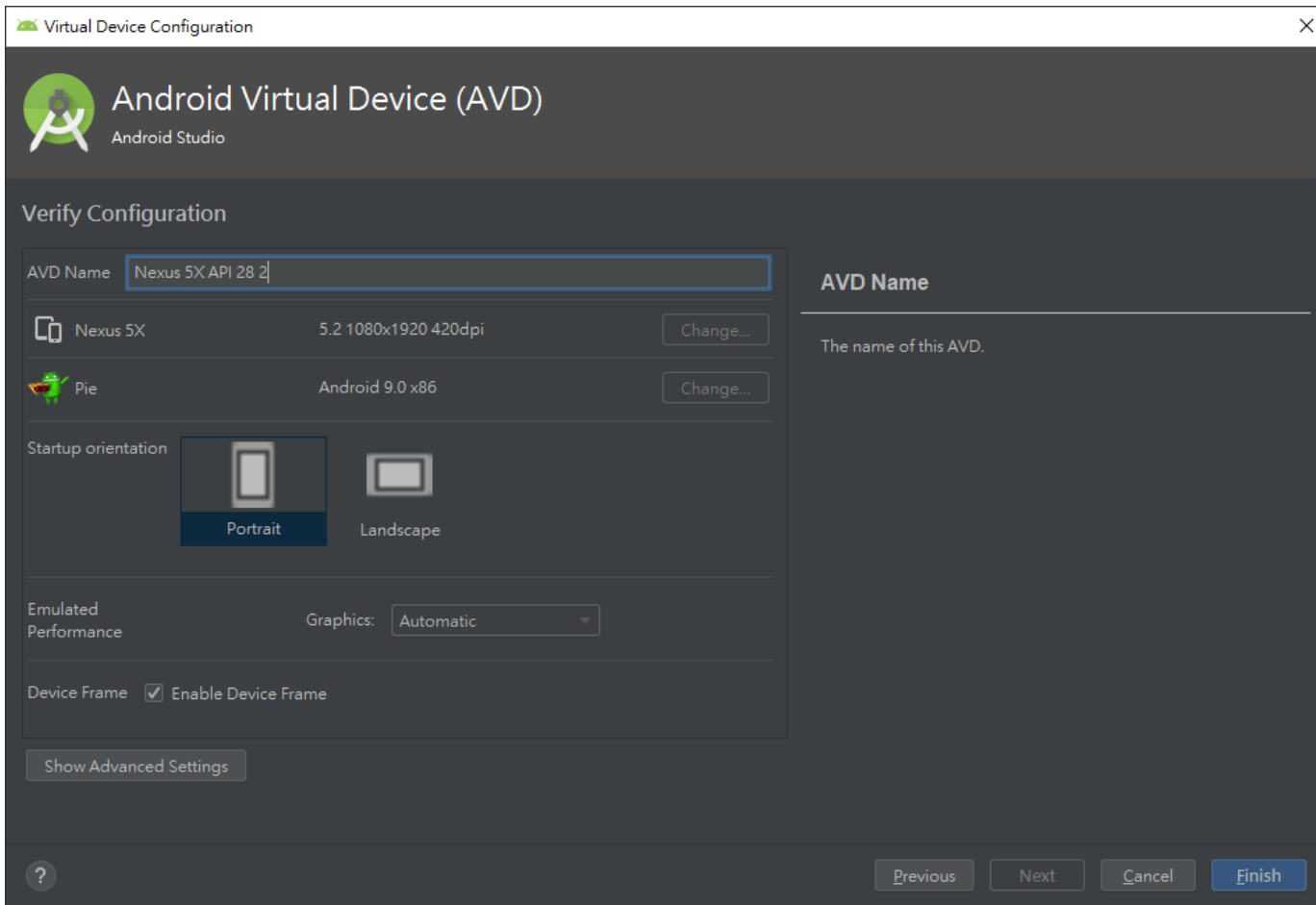
# Android Virtual Device

- Choose any system image you like



# Android Virtual Device

- Click finish and see the virtual Device



# Create a RN Project

- Make sure you Run as Administrator when you open Terminal
- `react-native init <project_name>`

```
C:\Users\alan\Desktop>react-native init demoProject
This will walk you through creating a new React Native project in C:\Users\alan\Desktop\demoProject
'yarn' 0.0.0-0.0.0 T~0.0.0 B i 0.0.0 檬 {0.0.0 X 柯 0.0.0 gC
Installing react-native...
Consider installing yarn to make this faster: https://yarnpkg.com
npm WARN deprecated core-js@1.2.7: core-js@<2.6.8 is no longer maintained. Please, upgrade to core-js@3 or at least to a
actual version of core-js@2.
```

```
Run instructions for iOS:
  • cd C:\Users\alan\Desktop\demoProject && react-native run-ios
- or -
  • Open ios\demoProject.xcodeproj in Xcode
  • Hit the Run button
```

```
Run instructions for Android:
  • Have an Android emulator running (quickest way to get started), or a device connected.
  • cd C:\Users\alan\Desktop\demoProject && react-native run-android
```

# Run a RN project

- cd to the project folder
  - `cd <project_name>`
- Run RN project
  - `react-native run-android`

```
C:\Users\alan\Desktop\demoProject>react-native run-android
info Starting JS server...
info Building and installing the app on the device (cd android && gradlew.bat app:installDebug)...
```

```
node "C:\Users\alan\Desktop\demoProject\node_modules\react-native\scripts\cli.js" --reactNativePath ../ --projectRoot ../ start

Running Metro Bundler on port 8081.

Keep Metro running while developing on any JS projects. Feel free to
close this tab and run your own Metro instance if you prefer.

https://github.com/facebook/react-native

Looking for JS files in
  C:\Users\alan\Desktop\demoProject
Loading dependency graph, done.
DELTA [android, dev] ..\..\..\index.js 100.0% (572/572), done.
```

