

SOFTWARE DESIGN AND ARCHITECTURE

Android Studio 4 & Android 10 Setup Tutorial - Mac

Android Studio Tutorial - Mac Users

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1. Download Android Studio (version 4.1.0 or newer):

https://developer.android.com/studio



Android Studio provides the fastest tools for building apps on every type of Android device.

DOWNLOAD ANDROID STUDIO

4.1 for Mac (878 MB)

DOWNLOAD OPTIONS RELEASE NOTES

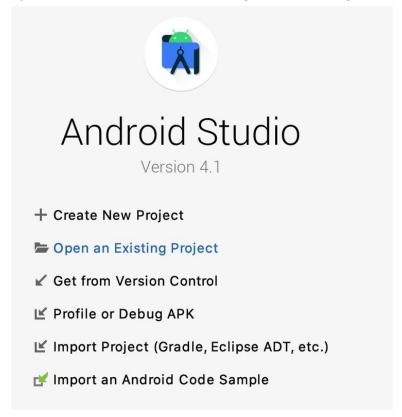
2. Install it

- Leave the Android SDK and Android Virtual Device boxes checked -- they are necessary.
- It may take a while for the program to install.

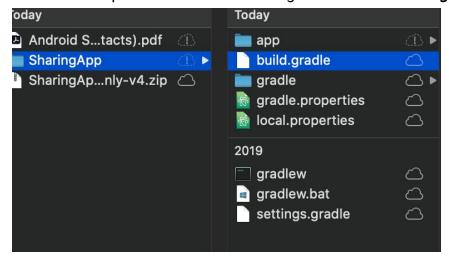
- If asked to import settings from a previous version/setup, ignore and continue with the setup

Open an existing Android Studio project.

- Open Android Studio and click "Open an existing Android Studio project"



Download the provided codebase. Navigate and select build.gradle



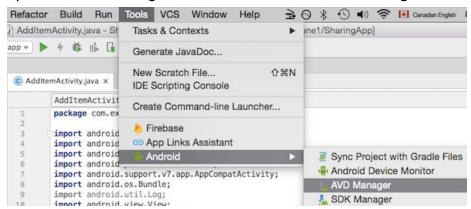
- Once you click **OK** it will start building the project, which may take a few minutes to complete.
- You may need to download or update Java -- Android Studio will let you know when you try to build the project.

- Update everything it prompts you to update.

4. Create an Android Virtual Device (AVD)

Next you will need to create an Android Virtual Device (AVD) i.e., an android emulator.

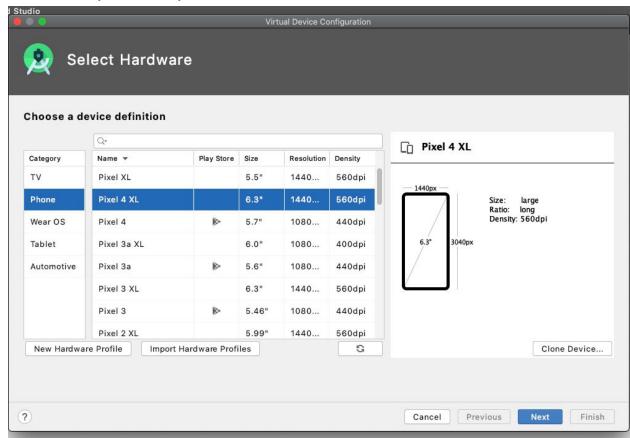
Open the AVD Manager: Tools → Android → AVD Manager



Click Create Virtual Device



Select the any device of your choice - here we use Pixel 4 XL; click Next



 Select Q - API level 29 (Aka Android 10). You may have to download this first and this may take a while.

Release Name	API Level ▼	ABI	Target
R	R	x86	Android 11.0 (Google APIs)
R	30	x86	Android 11.0 (Google APIs)
Q	29	x86	Android 10.0 (Google APIs)
Oreo Download	27	х86	Android 8.1 (Google APIs)
Oreo	26	x86	Android 8.0 (Google APIs)
Nougat Download	25	x86	Android 7.1.1 (Google APIs)
Nougat Download	24	х86	Android 7.0 (Google APIs)
Marshmallow Download	23	х86	Android 6.0 (Google APIs)
Lollipop Download	22	x86	Android 5.1 (Google APIs)

- It will prompt you to give it a name to identify it. The name will have no effect on how the program runs, as long as you know which one you need to run the app.



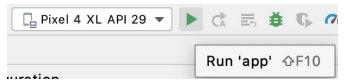
- Click **Finish** when this is complete.

5. Run the App

Select a virtual device from the drop down menu



- Click the **play button** to run the app.



- The emulator takes a while to load, install and run your app. Be patient!
- Once your emulator finish loading and the app will start:



Congrats, you can now start programming in Android Studio! Play around with the app to see how it works!