

Developer Documentation

The following is a guide to the installation, compilation, and running of the MemeDoppler app. This guide starts on the assumption that the user has the most recent version of Windows 10 with a terminal emulator or subsystem, OSX, or whatever linux Distro they prefer (provided it can run Android Studio). Note that the app is currently not available on the Google Play store, and at this stage in development, you will need to emulate it or install it on your phone via Android Studio.

Installation

If you do not already have it, download Android Studio from this site (<https://developer.android.com/studio/index.html>). If you have Windows, make sure you get the version with the android SDK. If you have Windows, this page has a nice tutorial for installing android studio (<https://developer.android.com/studio/install.html>). When you install Android Studio, make sure it installs with the Android SDK and Android Virtual Device (AVD). While you wait for it to install, start up your terminal and cd to the directory you wish to have our repo in. Clone our repo in using the link provided on our github page. I would have that directory fairly close to root, as android studio doesn't like excessively long paths.

If Android Studio has installed and started, make sure you have the most recent version Android SDK Build-Tools installed. Then, go to tools>android>AVD Manager. Click the button to create a virtual device. Our app looks best and has been tested most thoroughly on the Nexus 5, but should work on any device, provided it can get Android API LVL 25+. After selected a device, select Android Nougat with API Level 25 or above (otherwise known as Android v7.1). Again, we tested at 25. Whatever API level you use, be sure that it is a version that specifies the availability of Google APIs. This should be mentioned along with the various versions available for emulating. Note that if you run this on a physical Android device, your device should be configured for these APIs already. If you are installing an AVD, then once it installation is complete, finish the AVD profile with no further changes.

Compilation and Running

Android studio may have automatically opened your project, but if it hasn't, go to File>Open and navigate to the directory you chose for our git repo, selecting the MemeDoppler directory within our memedoppler git directory. This is the Android Studio project. Then, click the green triangle in the toolbar or go to Run>Run "app". This will compile the app as well as run it. As physical phones add potential failures, I would recommend using the AVD you created earlier (we had it working on each phone we tested, though). Select it, and click ok. If it gives you the option to InstantRun, chose the other option. This may take some time to start up. From here on out, the User Documentation should carry you out.