

# Setup Android Environment for Development

first you will be required to download the necessary tools, SDKs and setup files to setup the environment for development. You can use a macOS, Windows or a Linux platform for your Android Application Development. All required packages, tools and other required files can be downloaded from the internet. Following are the names of the files, along with their descriptions that you will be required for developing Android apps.

## Java Development Kit (JDK)

Android SDK works on Java SE Development Kit (JDK). Therefore, first your system must have JDK installed.

***Note:** Make sure you download proper JDK based upon your system configurations as there are separate setup files for macOS, Windows and Linux platform.*

***Note:** Once you have installed JDK, you will also have to set `PATH` and `JAVA_HOME` variables. Usually, this is done automatically by the system.*

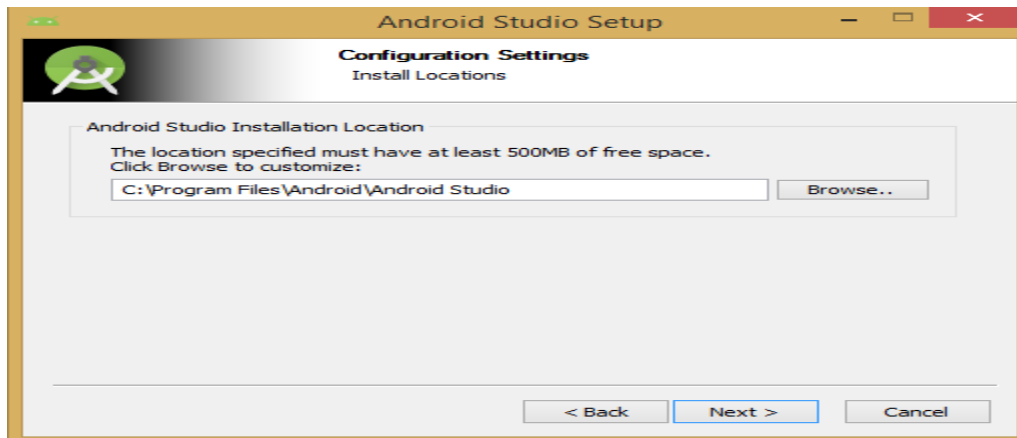
## Android SDK/Android Studio/Eclipse

Next comes Android SDK. It contains libraries, debugger, an emulator, documentations, sample codes and tutorials for each API level of the released versions of Android.

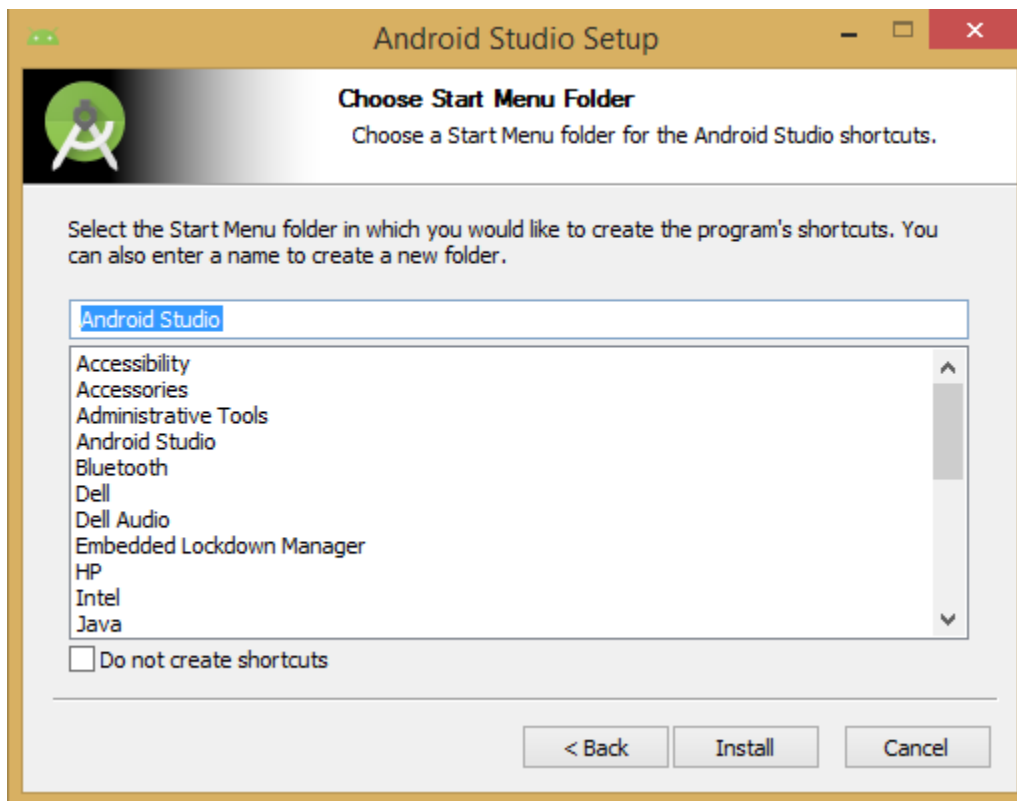
***Note:** Before the release of Android Studio, SDK was a standalone part of the Android Application development tools that could be integrated with other IDE's like Eclipse with the help of Android ADT Bundle. Later on, Google made Android SDK as a part of the Android Studio, which is the official IDE for Android development. You can download the complete Android Development Environment bundle(Android Studio + SDK)*

## Setup and Installation of Android Studio

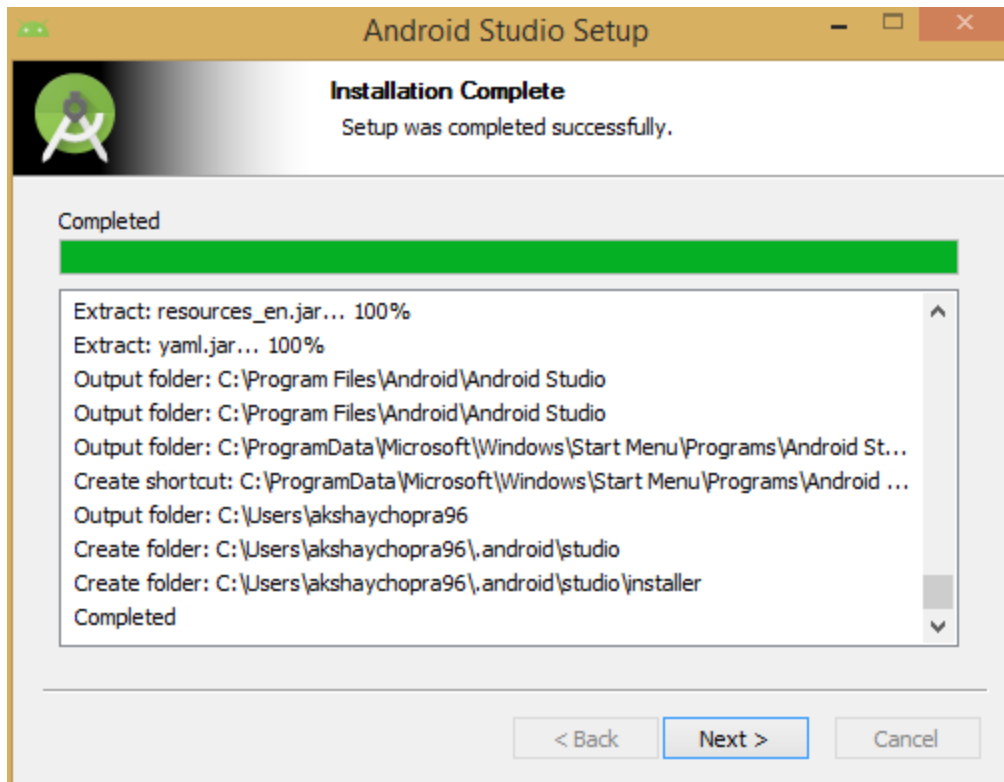
Once you have finished with installing JDK and downloading Android Studio IDE setup file, double click on the .exe file (setup file) of the Android Studio. It will prepare the file for setup and will ask you for the location where you want to install it.



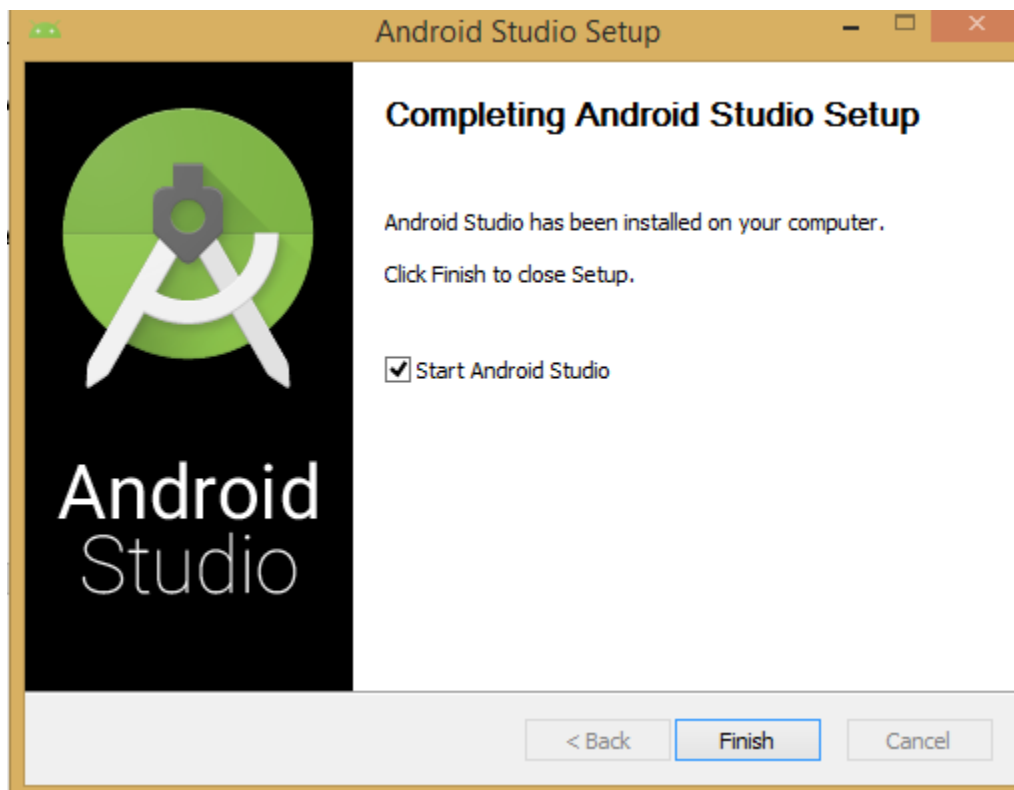
Select an appropriate location and click on **Next** button.



Click on **Install** button. It will start installing as shown below.

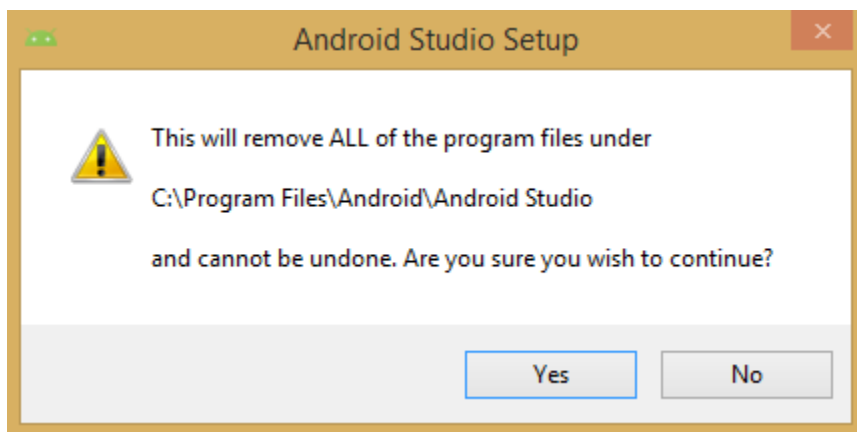
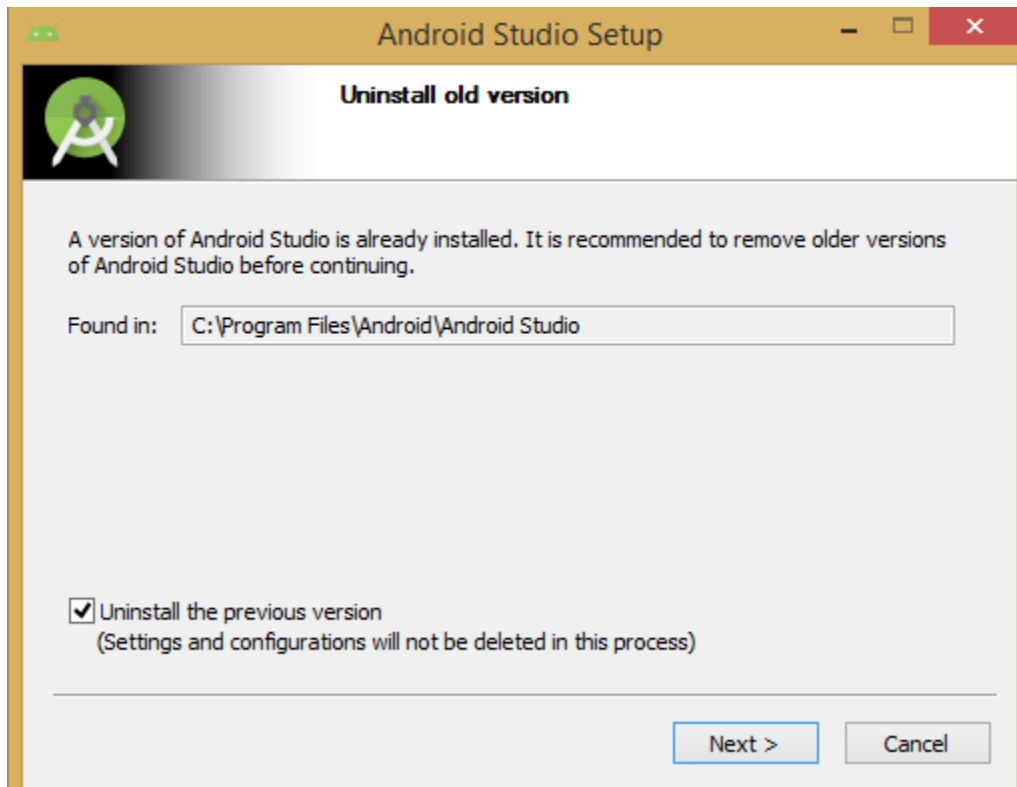


Click on **Next** button.



Android Studio has been installed directly and it is ready for use. Click on finish button and Android Studio will open.

**Note:** *If you have installed any previous version of Android Studio, Android Studio setup will first remove your previous version and then it will install the new one, as shown in the images below. Settings and Configurations are not deleted in this process.*



Android Studio will automatically get the location of the Android SDK if it is in the same location as itself. But if it fails to discover, then it'll ask you to browse to the Android SDK's location.