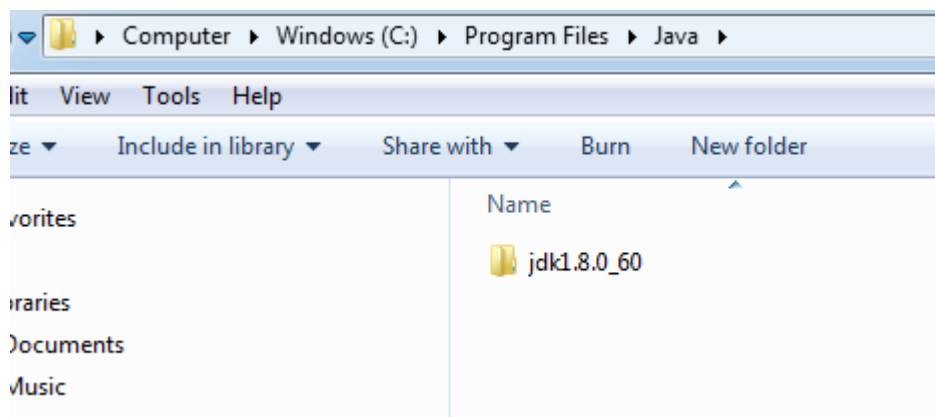


CIS 494 – Business System Development in Java

Android Studio Setup Instructions

1. Before you get started, **ensure that the Java Developers Kit (JDK) is installed**. Eclipse works well with the Java Runtime Engine (JRE); however, for Android Studio, you will need to ensure the JDK is installed.

1.1 Go to the Program Files folder and look in the Java folder. If you see a folder with “jdk” in the name, then you do have a JDK. If you only see a folder with “jre” in the name, you have only the JRE.



If the JDK is not installed, download the JDK for your operating system from Oracle’s website.

<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Get the JDK for your operating system and processor. If you have a 64-bit OS, get the version marked 64bit. If you have a 32-bit OS, get the version marked as x86.

1.2 **Install the JDK.**

Use the location of your JDK – don't copy the value shown in the picture below!

The screenshot shows the 'System Properties' dialog box with the 'Advanced' tab selected. The 'Environment Variables' button is visible. The 'Environment Variables' dialog is open, showing 'User variables for aahmad7'. The 'New System Variable' dialog is also open, showing the following details:

Variable	Value
PATH	C:\Program Files (x86)\SSH Communicat...
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	

New System Variable

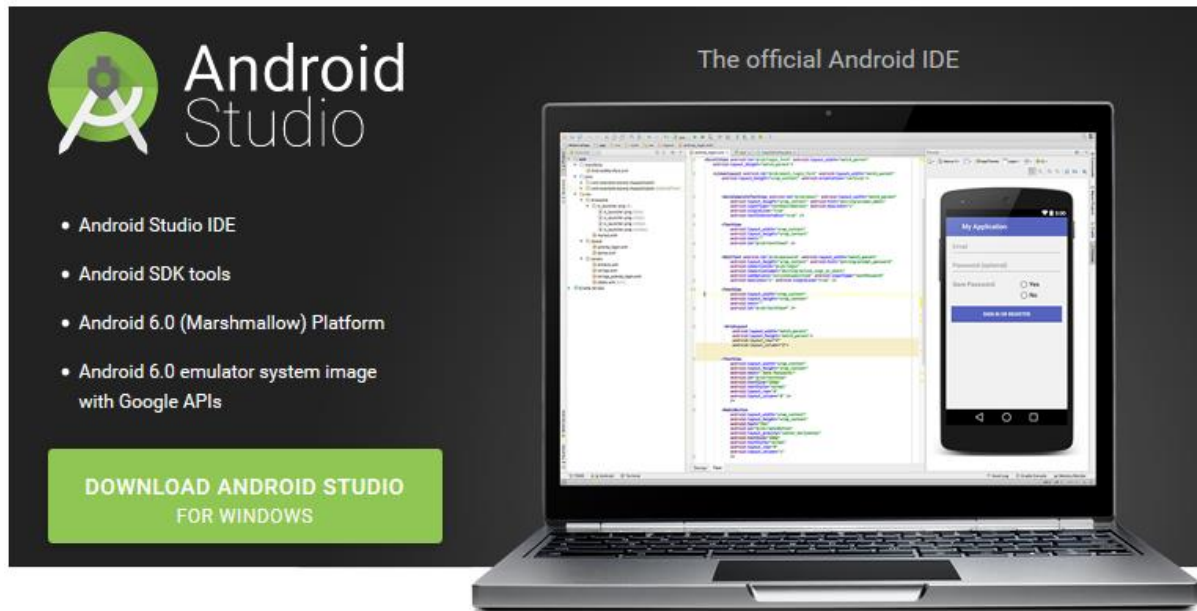
Variable name: JAVA_HOME

Variable value: C:\Program Files\Java\jdk1.8.0_60

Buttons: OK, Cancel

2. Once you have installed and verified that the JDK is installed, **download Android Studio** from <http://developer.android.com/sdk/>

This will be 1.0+ **Gigabytes** in size. Ensure you have sufficient hard drive space as well as a good network connection before you start the download.



3. Prepare for installation

- Close ALL applications.
- Preferably, disable or suspend your antivirus software or any other application that can prevent the setup process from accessing files.
- Disable Windows Defender.
- Ensure that you have at least 5 GB space available.

Remember to turn on your security software after Android Studio is working.

4. Before you begin the setup, read the following suggestions:

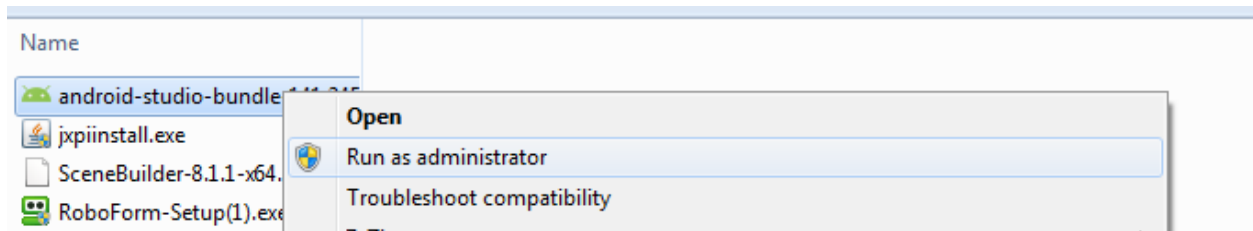
4.1 Android Studio will be installed to Program Files by default. This choice is acceptable.

4.2 The setup will also install Android Software Developer's Kit (SDK). This software manages all the components that Android Studio needs such as emulators, APIs, and extra software components. The default location for the SDK is in the app data folder.

Preferably **modify the setup location** for the SDK from the APPDATA folder to something more accessible like C:\AndroidSDK. ***There can be no spaces in the path name.***

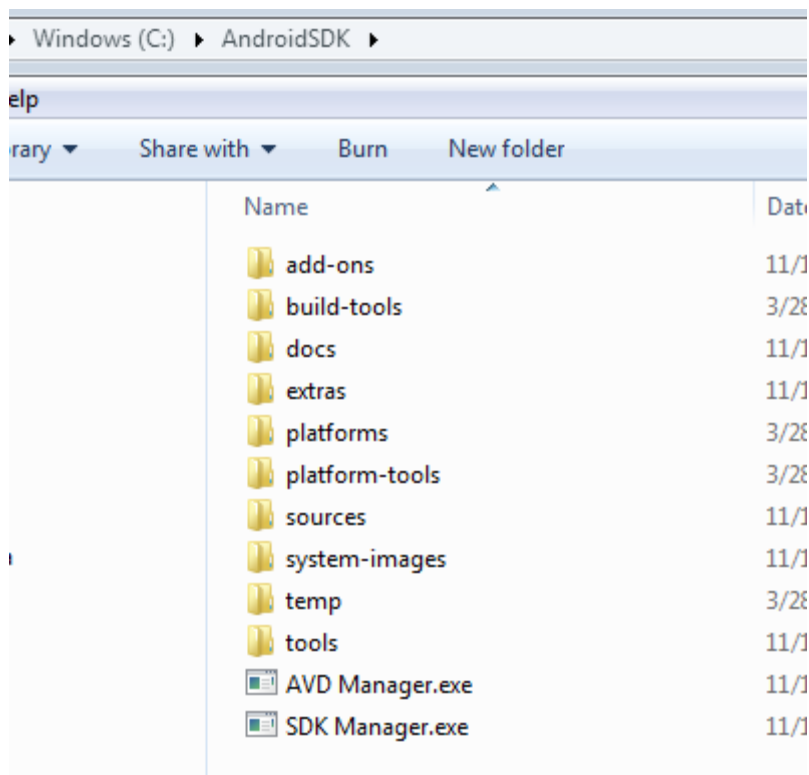
4.3 Should you get a choice about the RAM size for your emulator, the default choice will be 1 GB of memory. Extend that to anywhere between 1.6 GB (1600 MB) to 2 GB. The default 1 GB will not be enough memory to actually run the emulator. ***This choice cannot be modified short of running the emulator setup again.***

4.4. **Run the Android Studio setup file** as administrator by right-clicking the file in Windows. You can accept most default choices except for the suggestions stated above.



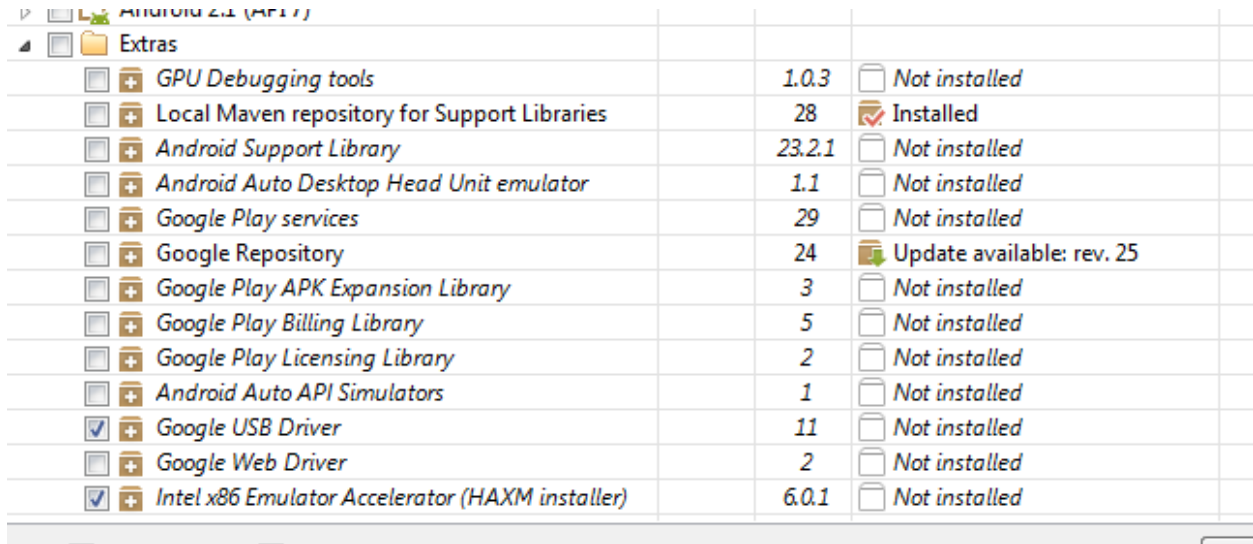
5. After you finish setting up Android Studio, go to the SDK folder. It will be in the folder location you specified during setup (if you changed the default APPDATA location).

You should see the Android Virtual Device (AVD) Manager as well as the SDK Manager.



5.1 Run the SDK Manager.

Look at whether the following are installed or not. For example, the screenshot below shows that Google USB Driver is not installed and is checked for installation.



Android 2.2 (API 7)			
Extras			
<input type="checkbox"/>	GPU Debugging tools	1.0.3	<input type="checkbox"/> Not installed
<input type="checkbox"/>	Local Maven repository for Support Libraries	28	<input checked="" type="checkbox"/> Installed
<input type="checkbox"/>	Android Support Library	23.2.1	<input type="checkbox"/> Not installed
<input type="checkbox"/>	Android Auto Desktop Head Unit emulator	1.1	<input type="checkbox"/> Not installed
<input type="checkbox"/>	Google Play services	29	<input type="checkbox"/> Not installed
<input type="checkbox"/>	Google Repository	24	<input type="checkbox"/> Update available: rev. 25
<input type="checkbox"/>	Google Play APK Expansion Library	3	<input type="checkbox"/> Not installed
<input type="checkbox"/>	Google Play Billing Library	5	<input type="checkbox"/> Not installed
<input type="checkbox"/>	Google Play Licensing Library	2	<input type="checkbox"/> Not installed
<input type="checkbox"/>	Android Auto API Simulators	1	<input type="checkbox"/> Not installed
<input checked="" type="checkbox"/>	Google USB Driver	11	<input type="checkbox"/> Not installed
<input type="checkbox"/>	Google Web Driver	2	<input type="checkbox"/> Not installed
<input checked="" type="checkbox"/>	Intel x86 Emulator Accelerator (HAXM installer)	6.0.1	<input type="checkbox"/> Not installed

Check the box and install these components if these are not already installed. If the installer tells you that you already have a more recent version installed, you can skip the installation for that particular component.

- Tools Folder
 - Android SDK Tools
- Android 6.0 (API 23)
 - Google APIs
 - Google APIs Intel x86 Atom System Image
 - Google APIs ARM EABI v7a System Image
- Extras
 - Google USB Driver
 - Intel x86 Emulator Accelerator (HAXM Installer)

You can come back anytime to the SDK Manager and install and/or update components.

6.0 Run Android Studio! Let it perform any software updates it needs to do.