

## Mac Users:

Download and Install Java on Mac (I do recommend Java 8)

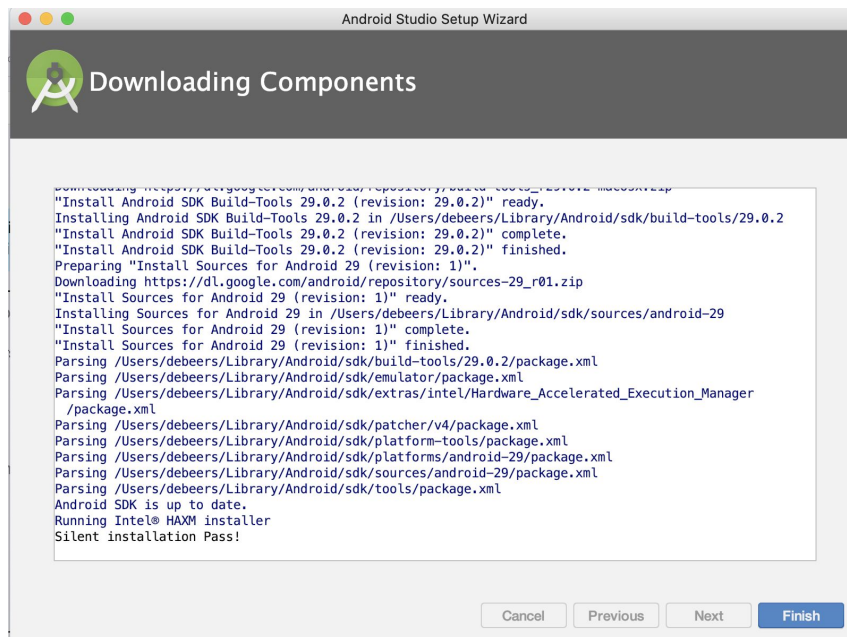
If you asked for registration, go ahead and register an Oracle account, providing a real email

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

Download and Install Android Studio on Mac (includes Android SDK)

<https://developer.android.com/studio/index.html>

Open installed Android Studio and finish the installation process.



Set environment variables:

Info about zsh and bash and how to change your default shell

<https://support.apple.com/en-gb/HT208050>

1. If you are on Catalina, MacOS 10.15 or newer, you add your variables in **.zprofile**; your default shell in Terminal should be **zsh**. If you don't have .zprofile file, you need to create one under your home directory. To change to home directory, use **cd ~** command in Terminal. To create .zprofile, use **touch .zprofile** command in your Terminal
2. If you are on an older version of MacOS, you work with your **.bash\_profile**; If you don't have .bash\_profile file, you need to create one under your home directory. To change to home directory, use **cd ~** command in Terminal. To create .bash\_profile, use **touch .bash\_profile** command in your Terminal

Open your `.zprofile` or `.bash_profile`, by running `open -e <file_name>` from your Terminal

To set `HAVA_HOME`, add the following:

```
export PATH="/usr/local/bin:$PATH"  
export JAVA_HOME=$(/usr/libexec/java_home)
```

Video how to set `JAVA_HOME` [https://www.youtube.com/watch?v=kTpkPu\\_\\_jjM](https://www.youtube.com/watch?v=kTpkPu__jjM) be careful if you are on Catalina (Mac OS 10.15), this video shows `.bash_profile`, you do all the same in `.zprofile`

To set **Android variables** in a way they needed in this class and for work, in the same file add the following (copy-paste it):

```
export ANDROID_HOME=~/.Library/Android/sdk  
export ANDROID_SDK_ROOT=~/.Library/Android/sdk  
export ANDROID_AVD_HOME=~/.android/avd  
export  
PATH=${PATH}:$ANDROID_HOME/emulator:$ANDROID_HOME/tools:$ANDROID_HOME  
/platform-tools:$ANDROID_HOME/tools/bin
```

(Please note, the last export has its `PATH` on the new line; in this doc it doesn't fit the line but in your file, export and `PATH` should be on the same line. That's critical.)

Once you are done, save changes (command+s) in the file, and run the following from Terminal

```
source ~/.bash_profile
```

or

```
source ~/.zprofile
```

Restart Terminal. Verify all went well by running the following from Terminal

```
echo $JAVA_HOME
```

It should return the location of Java

```
adb devices
```

It should return a message "List of devices attached"

Lastly, Install/Update Xcode

<https://apps.apple.com/us/app/xcode/id497799835?mt=12>

## Windows Users:

Download and Install Java on Windows (I do recommend Java 8)

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

Set JAVA\_HOME

<https://www.youtube.com/watch?v=rzto4yY3pVw> video how to do both - installing and setting up home

Download and install Android Studio (includes Android SDK)

<https://developer.android.com/studio/index.html>

Install OEM USB Drivers (select the driver based on what Android phone you have)

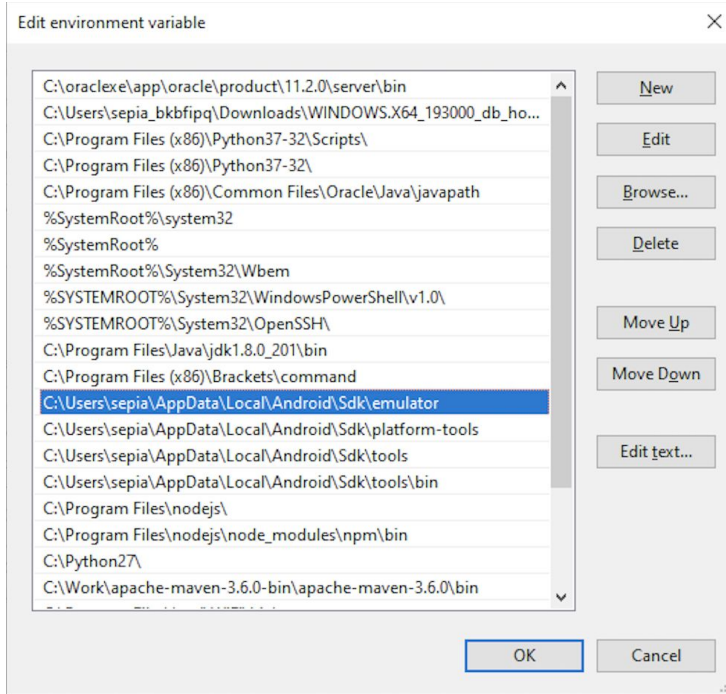
<https://developer.android.com/studio/run/oem-usb>

Set ANDROID\_HOME

<https://www.youtube.com/watch?v=S5wqTSuL3j4>

**Note:** This video is posted to walk you through things like - how to get to Env variables on Windows, and where to edit them. **The actual order** of those should be like on the screenshot below.

There are four related to Android: \emulator, \platform-tools, \tools, tools\bin. Following this order is very important.



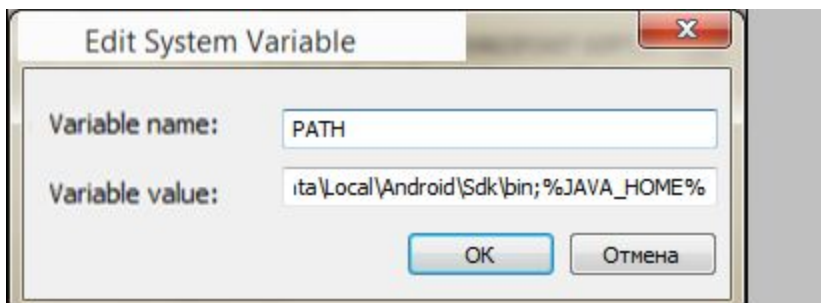
If you don't have **PATH Variables** set it:

1. Click the **Environment Variables** button.
2. Under **System Variables**, click **New**.
3. In the **Variable Name** field, enter either:

## **PATH**

4. In the **Variable Value** field, enter your SDK installation path:

**C:\Users\USER\_FOLDER\AppData\Local\Android\Sdk\emulator;C:\Users\USER\_FOLDER\AppData\Local\Android\Sdk\platform-tools;C:\Users\USER\_FOLDER\AppData\Local\Android\Sdk\tools;C:\Users\USER\_FOLDER\AppData\Local\Android\Sdk\bin;%JAVA\_HOME%**



Restart your computer. Verify all went well by running the following from command line

```
echo %JAVA_HOME%
```

It should return the location of Java

```
adb devices
```

It should return a message "List of devices attached"

### Everyone:

Gmail Account

YouTube Account

Computer Screen Recorder:

- Quicktime Player on Mac  
<https://etc.usf.edu/techease/4all/getting-started/creating-screen-recordings-with-quicktime-player/>
- Windows 10 <https://betanews.com/2019/01/14/windows-10-screen-recorder-utility/>
- Windows 7/8 <https://www.awesomescreenshot.com/>

Device Screen Recorder:

- Android:  
[https://play.google.com/store/apps/details?id=com.hecorat.screenrecorder.free&hl=en\\_US](https://play.google.com/store/apps/details?id=com.hecorat.screenrecorder.free&hl=en_US)
- iOS: iPhone X and above - <https://support.apple.com/en-us/HT207935>
- Alternatively - Quicktime Player on Mac  
<https://etc.usf.edu/techease/4all/getting-started/creating-screen-recordings-with-quicktime-player/>

Charles Proxy - **do not download until asked by your instructor**

<https://www.charlesproxy.com/>

Bonus:

Uninstall Java on Mac

```
sudo rm -rf /Library/Internet Plug-Ins/JavaAppletPlugin.plugin
```

```
sudo rm -rf /Library/Java/JavaVirtualMachines/jdk-9.0.4.jdk/Contents
```

```
sudo rm -rf /Library/PreferencePanes/JavaControlPanel.prefPane
```

```
sudo rm -rf /Library/Java/Home
```

```
sudo rm -rf /Library/Java/MacOS
```

Note: this is uninstalling jdk-9.0.4.jdk version. You might have different.