

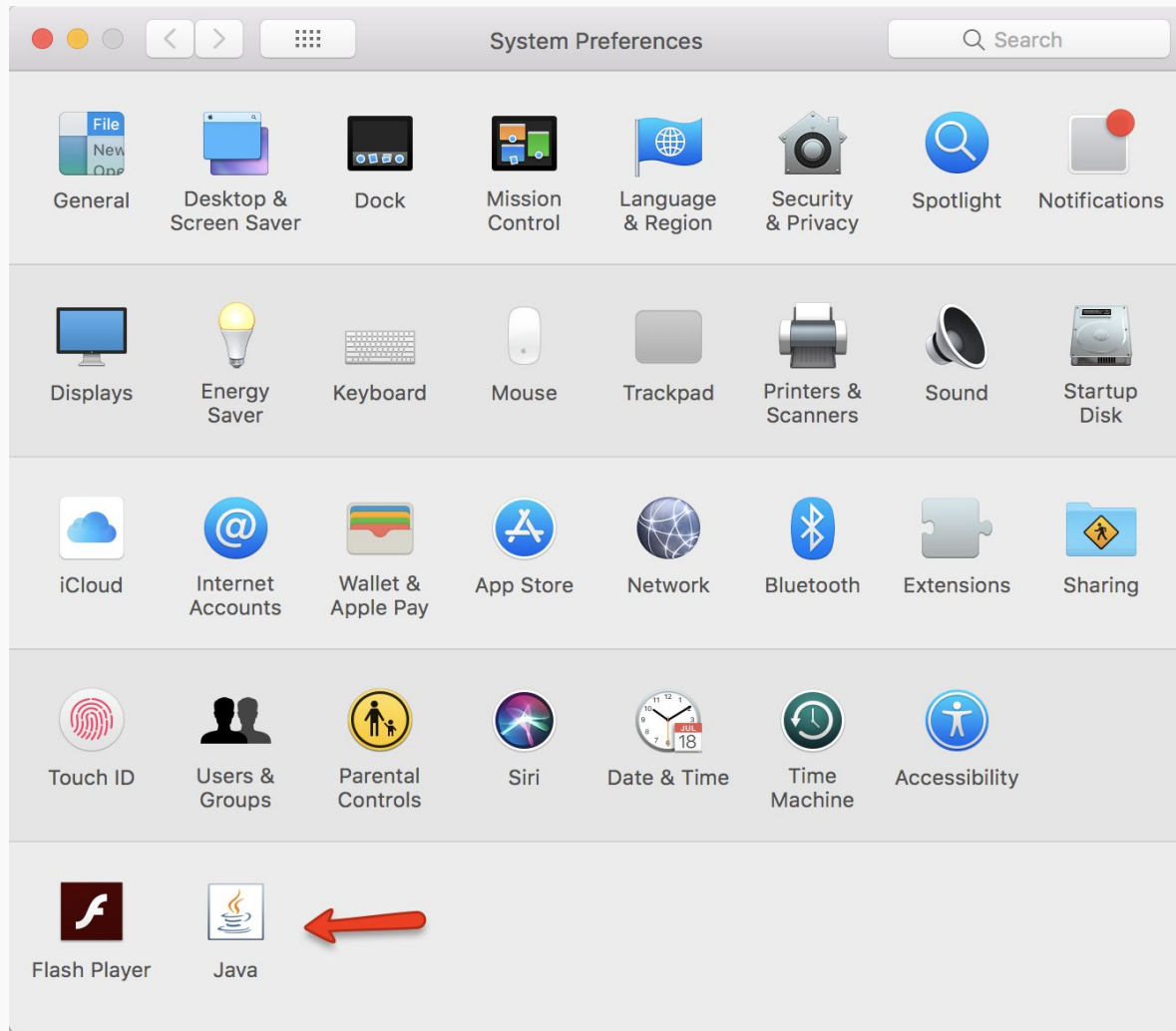


JAVA Installation For Mac

How to check if you already have java installed

A way to check if you already have Java

1. Press Command button and space bar on the keyboard a search box will appear
2. Type system preferences and press enter
3. And Verify if you have JAVA installed (see screenshot)



How to install Java:

1. Ahead to the oracle website
<https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>
2. Click on Accept from the Java SE Development Kit 8u201 It should be the first one that Display stable
3. Click on link for Mac OS X x64
jdk-8u201-macosx-x64.dmg

Oracle Technology Network / Java / Java SE / Downloads

Java SE Development Kit 8 Downloads

Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications, applets, and components using the Java programming language.

The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java platform.

See also:

- Java Developer Newsletter: From your Oracle account, select **Subscriptions**, expand **Technology**, and subscribe to **Java**.
- Java Developer Day hands-on workshops (free) and other events
- Java Magazine

JDK 8u201 checksum
JDK 8u202 checksum

Java SE Development Kit 8u201

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Linux ARM 32 Hard Float ABI	72.98 MB	jdk-8u201-linux-arm32-vfp-hflt.tar.gz
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Linux x86	185.77 MB	jdk-8u201-linux-i586.tar.gz
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Linux x64	66.23 MB	jdk-8u201-linux-x64-demos.tar.gz

Java SE Development Kit 8u201

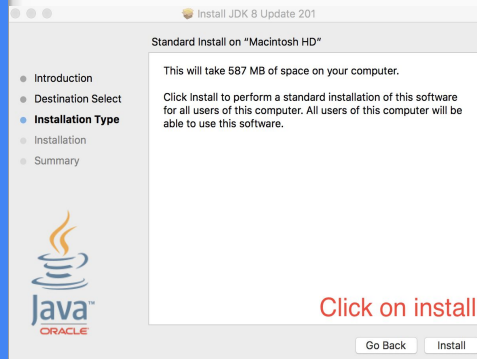
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Windows x86	197.66 MB	jdk-8u201-windows-i586.exe
Windows x64	207.46 MB	jdk-8u201-windows-x64.exe

How to install Java:

1. Ahead to the Install JDK 8 Update 201
2. On the introduction section click on continue
3. On the installation type section click on install



How to install Java:

1. Click Move to trash for the JDK 8 Update 201



Do you want to move the "JDK 8 Update 201" Installer to the Trash?

To keep this package and disk image in its current location, click Keep.

Keep

Move to Trash

How to check if Java is installed:

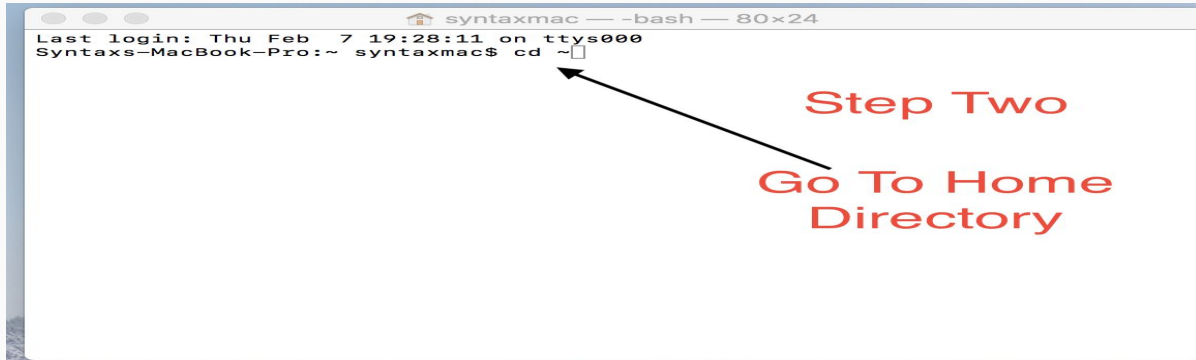
1. Press Command button and space bar on the keyboard and a search box will appear, type terminal and press enter.
2. Now ahead to the Home directory by typing **cd ~** and press enter
3. Type **pwd** and press enter



```
Last login: Thu Feb 7 19:28:11 on ttys000
Syntaxs-MacBook-Pro:~ syntaxmac$
```

This screenshot shows a terminal window with the title bar 'syntaxmac' and window controls. The prompt is 'Syntaxs-MacBook-Pro:~ syntaxmac\$'.

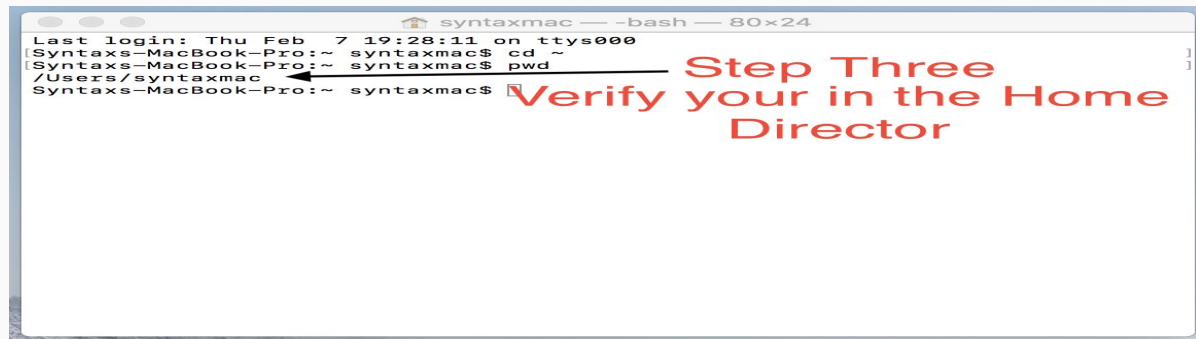
Step One
Terminal



```
syntaxmac — -bash — 80x24
Last login: Thu Feb 7 19:28:11 on ttys000
Syntaxs-MacBook-Pro:~ syntaxmac$ cd ~
```

This screenshot shows the terminal after typing 'cd ~'. The prompt is now 'Syntaxs-MacBook-Pro:~ syntaxmac\$'. An arrow points from the text 'Go To Home Directory' to the '~' in the prompt.

Step Two
Go To Home
Directory



```
syntaxmac — -bash — 80x24
Last login: Thu Feb 7 19:28:11 on ttys000
[Syntaxs-MacBook-Pro:~ syntaxmac$ cd ~
[Syntaxs-MacBook-Pro:~ syntaxmac$ pwd
/Users/syntaxmac
Syntaxs-MacBook-Pro:~ syntaxmac$
```

This screenshot shows the terminal after typing 'pwd'. The prompt is 'Syntaxs-MacBook-Pro:~ syntaxmac\$' and the output is '/Users/syntaxmac'. An arrow points from the text 'Verify your in the Home Director' to the output path.

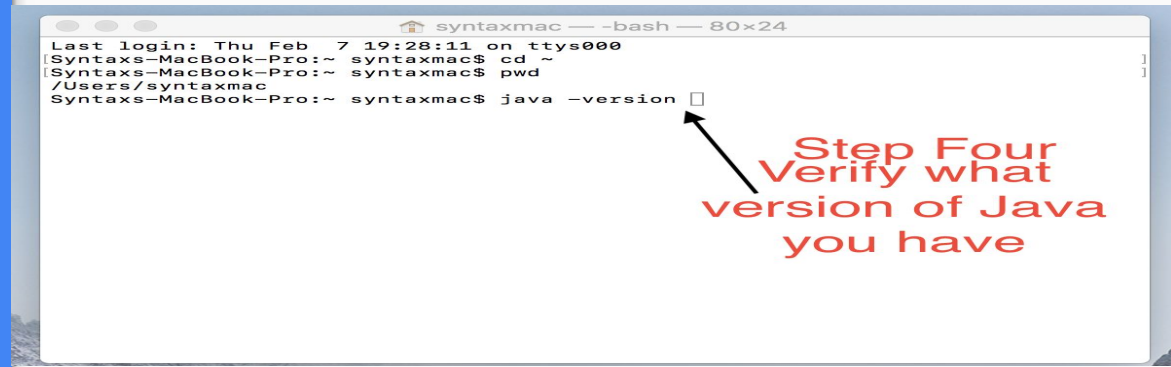
Step Three
Verify your in the Home
Director

How to check if Java is installed:

4.Type **java -version** and press enter

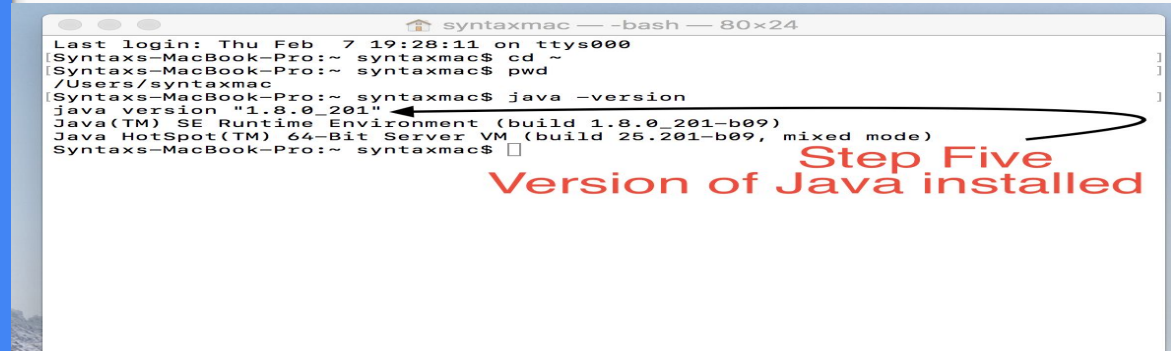
5. You will see that you have a version of java installed on your mac

6.If you do not have Java installed on your mac a pop up will appear (see screenshot in the next slide).**Click Ok**



```
syntaxmac — bash — 80x24
Last login: Thu Feb  7 19:28:11 on ttys000
Syntaxs-MacBook-Pro:~ syntaxmac$ cd ~
Syntaxs-MacBook-Pro:~ syntaxmac$ pwd
/Users/syntaxmac
Syntaxs-MacBook-Pro:~ syntaxmac$ java -version
```

Step Four
Verify what
version of Java
you have



```
syntaxmac — bash — 80x24
Last login: Thu Feb  7 19:28:11 on ttys000
Syntaxs-MacBook-Pro:~ syntaxmac$ cd ~
Syntaxs-MacBook-Pro:~ syntaxmac$ pwd
/Users/syntaxmac
Syntaxs-MacBook-Pro:~ syntaxmac$ java -version
java version "1.8.0_201"
Java(TM) SE Runtime Environment (build 1.8.0_201-b09)
Java HotSpot(TM) 64-Bit Server VM (build 25.201-b09, mixed mode)
Syntaxs-MacBook-Pro:~ syntaxmac$
```

Step Five
Version of Java installed



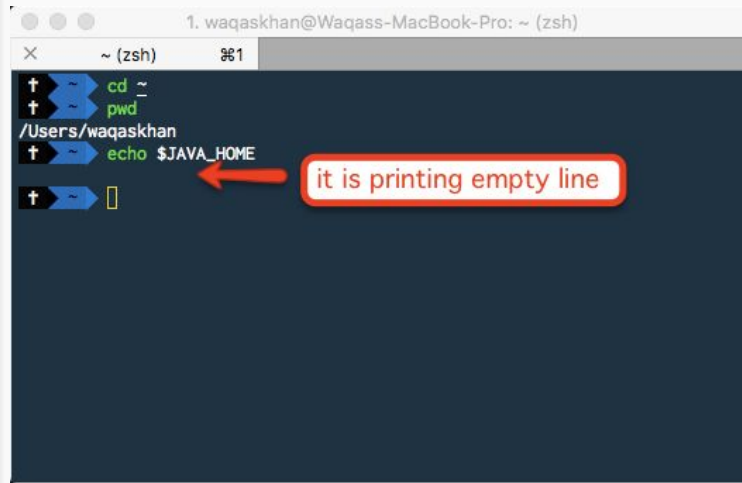
NOW WE NEED TO SETUP AN ENVIRONMENT SO THE SYSTEM KNOWS WHERE OUR JAVA IS:

1. Open Terminal
2. Type **cd ~**
3. Press Enter
4. Type **pwd** (this will bring you to the home directory)
5. For example:
/Users/waqaskhan
6. Now type **echo \$JAVA_HOME**
7. In the screenshot it is printing empty line means the path is not defined (see screenshot in next slide)
8. Now type **ls -la**
9. Look for **.bash_profile** (we keep JAVA variable in this file, if you have it already it's good if you do not have we will create it)

```
† ~ java -version
java version "1.8.0_151"
Java(TM) SE Runtime Environment (build 1.8.0_151-b12)
Java HotSpot(TM) 64-Bit Server VM (build 25.151-b12, mixed mode)
† ~
```

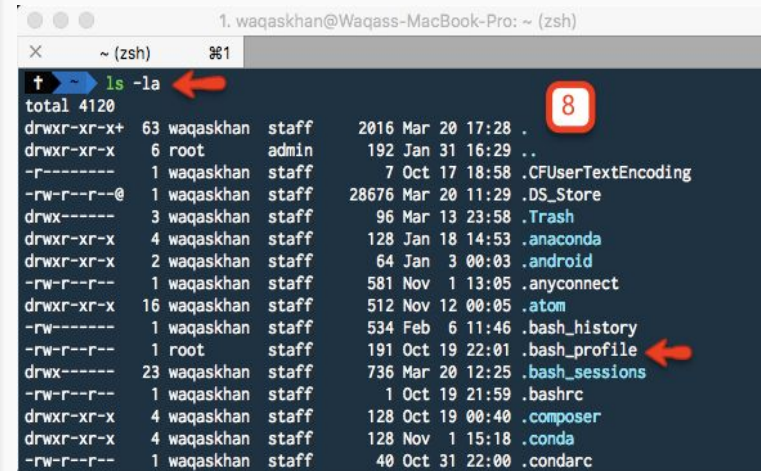

NOW WE NEED TO SETUP AN ENVIRONMENT SO THE SYSTEM KNOWS WHERE OUR JAVA IS:

1. If you have **.bash_profile**, skip the next steps.
2. If you do not have **.bash_profile** we will have to create it
3. In the command line type **touch .bash_profile**
4. type **ls -la**
5. You will see **.bash_profile** is created.
6. Now inside the **.bash_profile** we will need to provide a PATH for JAVA
7. In the command line type **open -e .bash_profile**
8. See screenshot in the next slide)



```
1. waqaskhan@Waqass-MacBook-Pro: ~ (zsh)
~ (zsh) %1
↑ ~ cd ~
↑ ~ pwd
/Users/waqaskhan
↑ ~ echo $JAVA_HOME
↑ ~
```

it is printing empty line

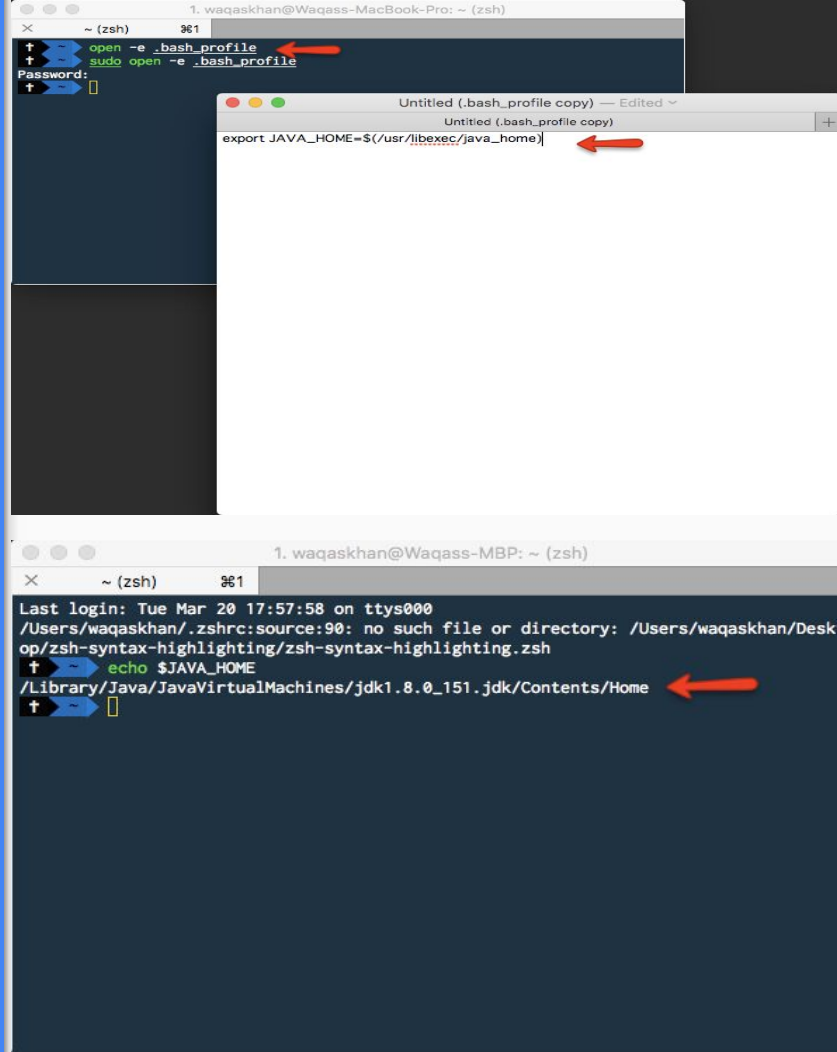


```
1. waqaskhan@Waqass-MacBook-Pro: ~ (zsh)
~ (zsh) %1
↑ ~ ls -la
total 4120
drwxr-xr-x+ 63 waqaskhan staff 2016 Mar 20 17:28 .
drwxr-xr-x  6 root    admin  192 Jan 31 16:29 ..
-r-----  1 waqaskhan staff    7 Oct 17 18:58 .CFUserTextEncoding
-rw-r--r--@ 1 waqaskhan staff 28676 Mar 20 11:29 .DS_Store
drwx----- 3 waqaskhan staff   96 Mar 13 23:58 .Trash
drwxr-xr-x  4 waqaskhan staff  128 Jan 18 14:53 .anaconda
drwxr-xr-x  2 waqaskhan staff   64 Jan  3 00:03 .android
-rw-r--r--  1 waqaskhan staff  581 Nov  1 13:05 .anyconnect
drwxr-xr-x 16 waqaskhan staff  512 Nov 12 00:05 .atom
-rw-----  1 waqaskhan staff  534 Feb  6 11:46 .bash_history
-rw-r--r--  1 root    staff  191 Oct 19 22:01 .bash_profile
drwx----- 23 waqaskhan staff  736 Mar 20 12:25 .bash_sessions
-rw-r--r--  1 waqaskhan staff    1 Oct 19 21:59 .bashrc
drwxr-xr-x  4 waqaskhan staff  128 Oct 19 00:40 .composer
drwxr-xr-x  4 waqaskhan staff  128 Nov  1 15:18 .conda
-rw-r--r--  1 waqaskhan staff   40 Oct 31 22:00 .condarc
```

8

NOW WE NEED TO SETUP AN ENVIRONMENT SO THE SYSTEM KNOWS WHERE OUR JAVA IS

1. In the `.bash_profile`
2. write `export JAVA_HOME=$(/usr/libexec/java_home)`
3. Save the file
4. Close the file
5. Close the terminal
6. Quit the terminal
7. Re-Open the terminal
8. Type `echo $JAVA_HOME`
9. Verify the JAVA installation (see screenshot)
10. The version might be different for you depending upon the version availability.



```
1. waqaskhan@Waqass-MacBook-Pro: ~ (zsh)
↑ open -e .bash_profile
↑ sudo open -e .bash_profile
Password:
↑

Untitled (.bash_profile copy) — Edited
Untitled (.bash_profile copy)
export JAVA_HOME=$(/usr/libexec/java_home)
```

```
1. waqaskhan@Waqass-MBP: ~ (zsh)
~ (zsh) %1
Last login: Tue Mar 20 17:57:58 on ttys000
/Users/waqaskhan/.zshrc:source:90: no such file or directory: /Users/waqaskhan/Desktop/zsh-syntax-highlighting/zsh-syntax-highlighting.zsh
↑ echo $JAVA_HOME
/Library/Java/JavaVirtualMachines/jdk1.8.0_151.jdk/Contents/Home
↑
```