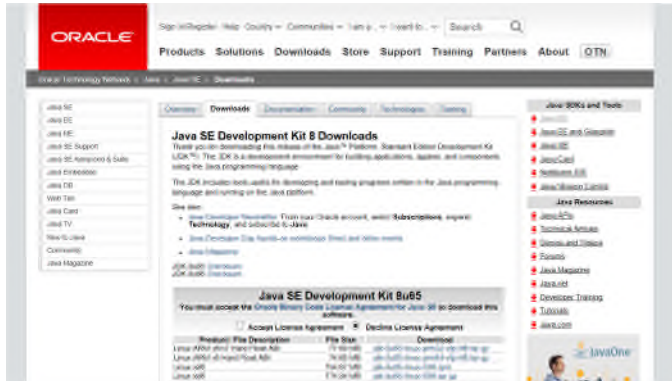


Installing and Running Maven Walkthrough

1. Java Installation JDK8 update 66

Download from this link:

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

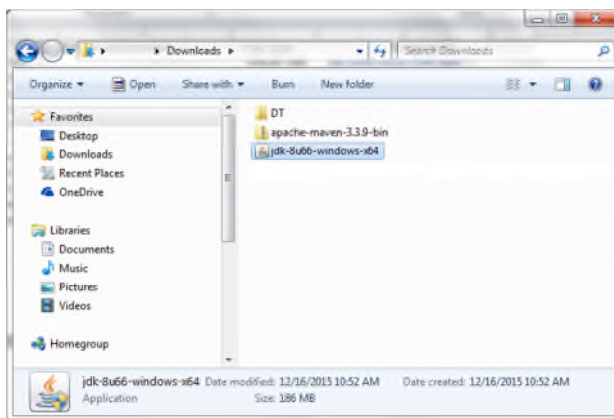


Scroll down to Java SE Development Kit 8u66.

Accept License Agreement and select the appropriate download for your operating system.

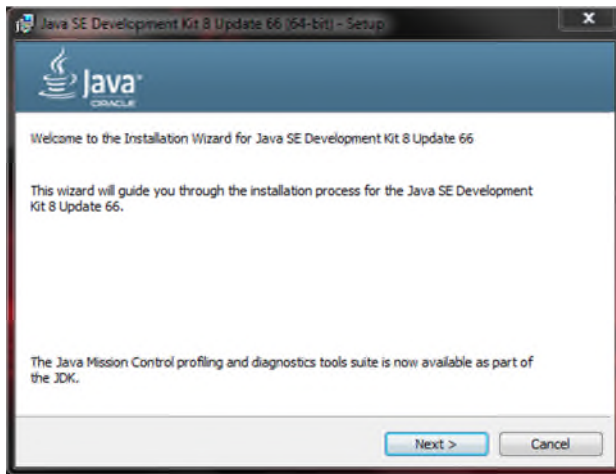
Java SE Development Kit 8u66		
You must accept the Oracle Binary Code License Agreement for Java SE to download this software.		
Thank you for accepting the Oracle Binary Code License Agreement for Java SE; you may now download this software.		
Product / File Description	File Size	Download
Linux x86	154.67 MB	jdk-8u66-linux-i586.rpm
Linux x86_64	174.83 MB	jdk-8u66-linux-x64.rpm
Linux x86_64	152.69 MB	jdk-8u66-linux-x64.tar.gz
Linux x86_64	172.89 MB	jdk-8u66-linux-x64.tar.gz
Mac OS X x64	227.12 MB	jdk-8u66-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	139.85 MB	jdk-8u66-solaris-sparcv9.tar.gz
Solaris SPARC i64-bit	99.05 MB	jdk-8u66-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	140 MB	jdk-8u66-solaris-x64.tar.gz
Solaris x64	96.2 MB	jdk-8u66-solaris-x64.tar.gz
Windows x86	181.33 MB	jdk-8u66-windows-i586.exe
Windows x64	196.65 MB	jdk-8u66-windows-x64.exe

Open the Application in your download folder (Windows is shown but Mac is very similar).



Installing and Running Maven Walkthrough

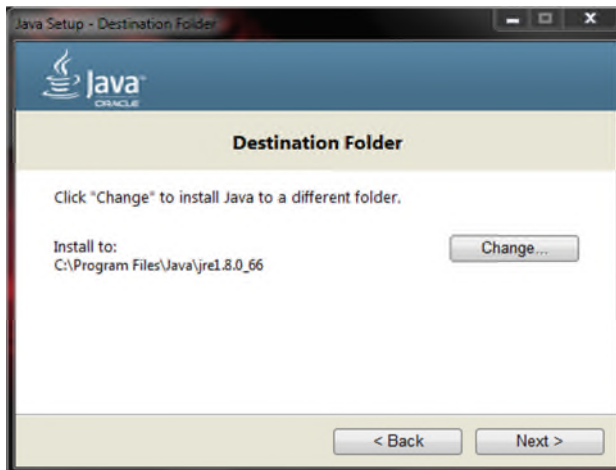
Click Next.



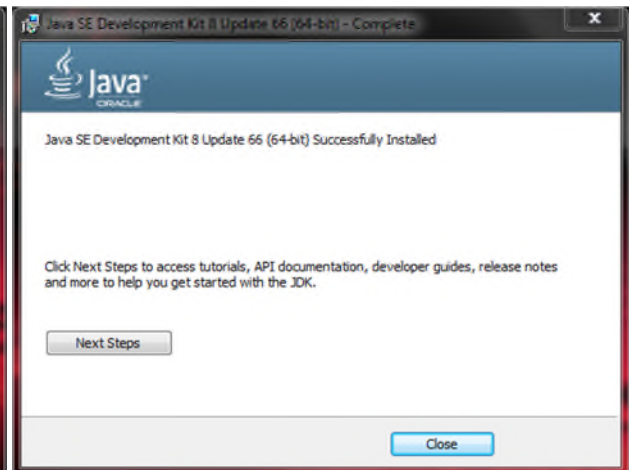
Click Next again.



And again.



And click Close.

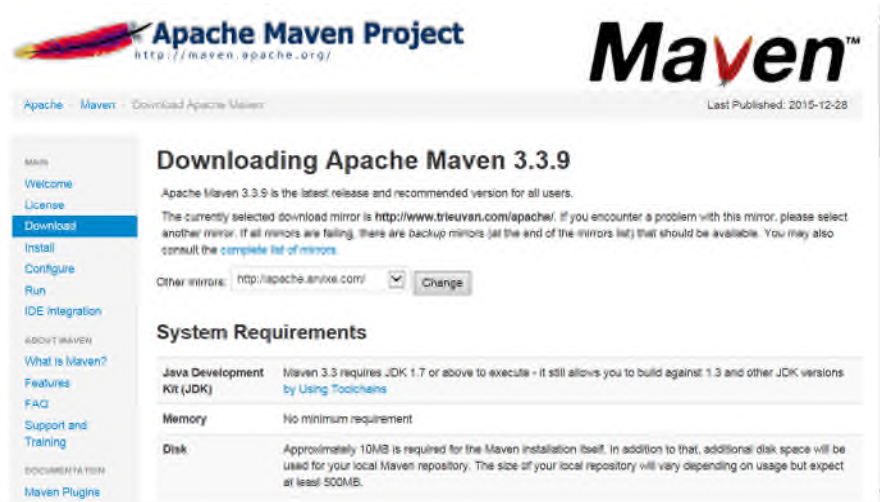


Java SE Development Kit 8 is now successfully installed.

Installing and Running Maven Walkthrough

2. Download the Maven package from:

<https://maven.apache.org/download.cgi>



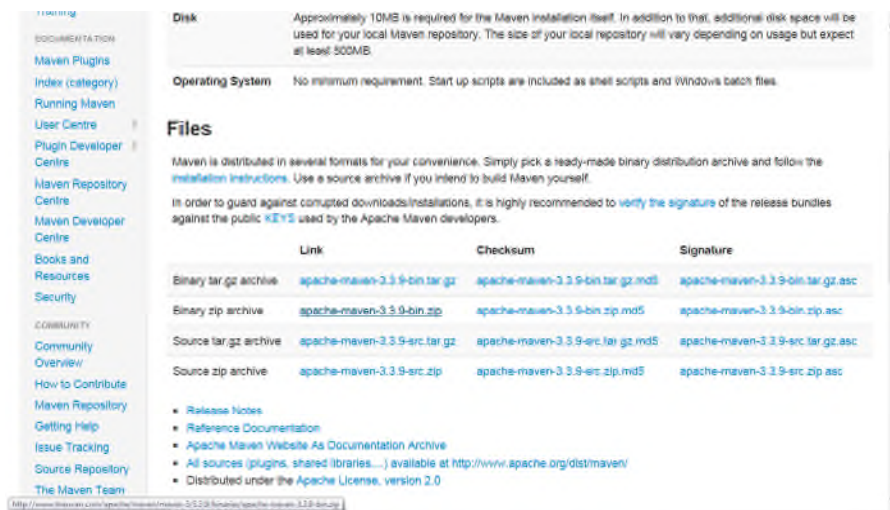
The screenshot shows the Apache Maven Project website. The header includes the Apache Maven Project logo and the word "Maven" in a large, stylized font. Below the header, there is a navigation menu on the left with links like "Welcome", "License", "Download", "Install", "Configure", "Run", "IDE integration", "About Maven", "What is Maven?", "Features", "FAQ", "Support and Training", "Documentation", and "Maven Plugins". The main content area is titled "Downloading Apache Maven 3.3.9". It states that Apache Maven 3.3.9 is the latest release and recommended version for all users. It also provides a link to the currently selected download mirror: <http://www.brievan.com/apache/>. Below this, there is a section for "System Requirements" which lists the following:

Requirement	Details
Java Development Kit (JDK)	Maven 3.3 requires JDK 1.7 or above to execute - it still allows you to build against 1.3 and other JDK versions by Using Toolchains
Memory	No minimum requirement
Disk	Approximately 10MB is required for the Maven installation itself. In addition to that, additional disk space will be used for your local Maven repository. The size of your local repository will vary depending on usage but expect at least 500MB.

Scroll down and download:

[apache-maven-3.3.9-bin.zip](#) for Windows

[apache-maven-3.3.9-bin.tar.gz](#) for Mac



The screenshot shows the Apache Maven Project website, specifically the "Files" section. It lists the available download formats and their checksums and signatures. The table below summarizes the information:

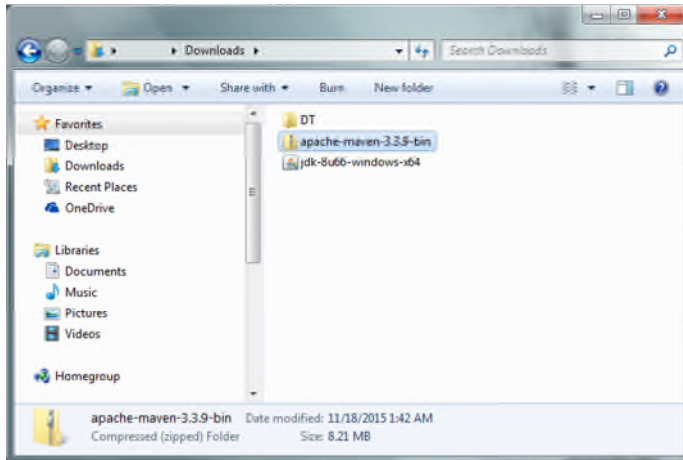
Link	Checksum	Signature	
Binary tar.gz archive	apache-maven-3.3.9-bin.tar.gz	apache-maven-3.3.9-bin.tar.gz.md5	apache-maven-3.3.9-bin.tar.gz.asc
Binary zip archive	apache-maven-3.3.9-bin.zip	apache-maven-3.3.9-bin.zip.md5	apache-maven-3.3.9-bin.zip.asc
Source tar.gz archive	apache-maven-3.3.9-src.tar.gz	apache-maven-3.3.9-src.tar.gz.md5	apache-maven-3.3.9-src.tar.gz.asc
Source zip archive	apache-maven-3.3.9-src.zip	apache-maven-3.3.9-src.zip.md5	apache-maven-3.3.9-src.zip.asc

Below the table, there are links to "Release Notes", "Reference Documentation", "Apache Maven Website As Documentation Archive", and "All sources (plugins, shared libraries...) available at <http://www.apache.org/dist/maven/>". It also mentions that the sources are distributed under the Apache License, version 2.0.

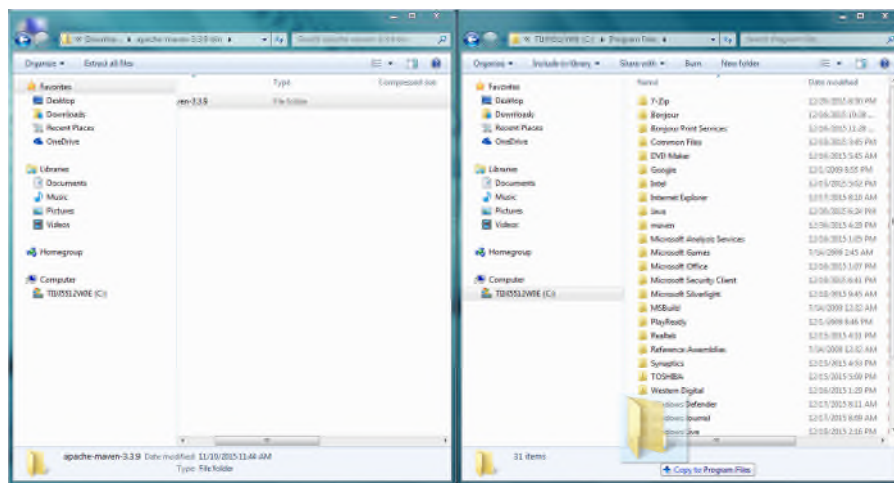
Installing and Running Maven Walkthrough

3a. Installing Maven for Windows

Open the file in your download folder.

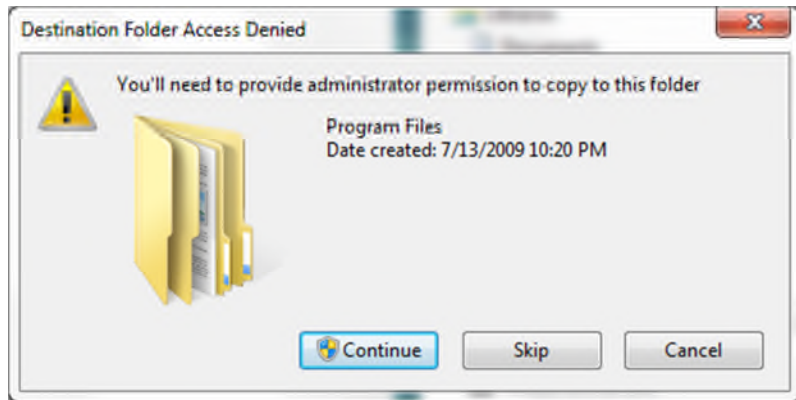


Move the apache-maven-3.3.9 folder to the C:\program files\ folder.



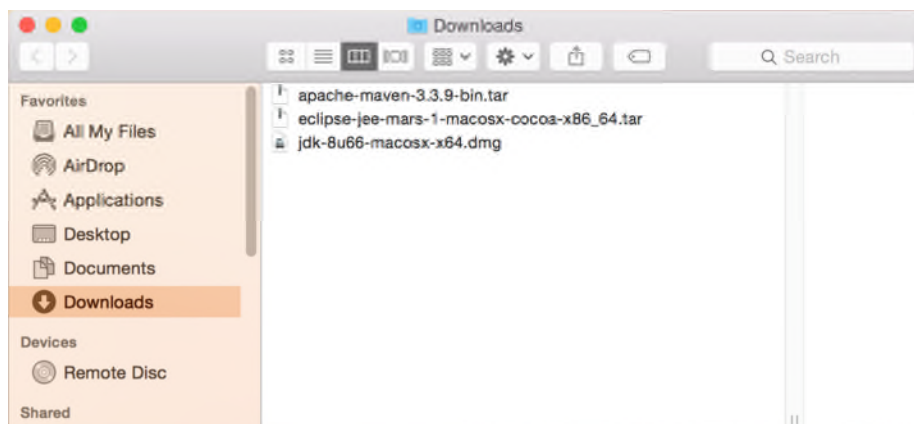
Provide administrator permission.

Installing and Running Maven Walkthrough

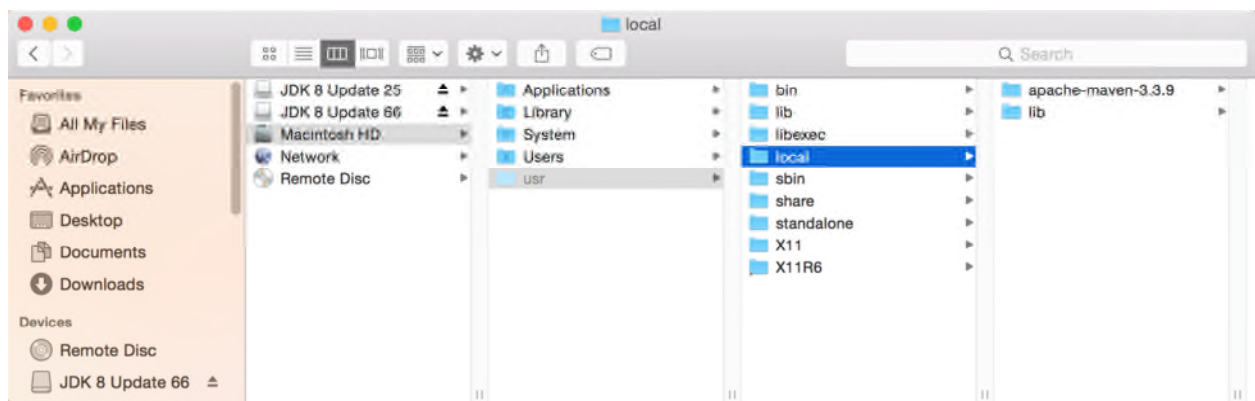


3b. Installing Maven for Mac

Double-click on the **apache-maven-3.3.9-bin.tar** file it will be extracted in the same folder.



Move the extracted Folder to **/usr/local**.



Provide the required administrator username and password.

Installing and Running Maven Walkthrough

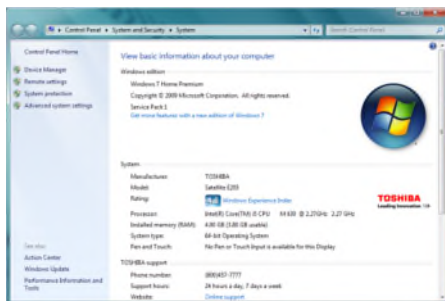
4. Review the setting.xml file.

For Windows: C:\Program Files\apache-maven-3.3.9\conf
For Mac: /usr/local/apache-maven-3.3.9/conf

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this
work for additional information regarding copyright ownership. The ASF licenses this file to you under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations
under the License. -->
<!-- This is the configuration file for Maven. It can be specified at two levels: 1. User Level. This settings.xml file provides configuration for a single
user, and is normally provided in $(user.home)/.m2/settings.xml. | NOTE: This location can be overridden with the CLI option: |
-s /path/to/user/settings.xml | 2. Global Level. This settings.xml file provides configuration for all Maven | users on a machine (assuming they're all
using the same Maven | installation). It's normally provided in | $(maven.home)/conf/settings.xml. | NOTE: This location can be overridden with the
CLI option: | -gs /path/to/global/settings.xml | The sections in this sample file are intended to give you a running start at | getting the most out of
your Maven installation. Where appropriate, the default | values (values used when the setting is not specified) are provided. | -->
<settings xmlns="http://maven.apache.org/SETTINGS/1.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/xsd/settings-1.0.0.xsd
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/xsd/settings-1.0.0.xsd">
  <!-- localRepository | The path to the local repository maven will use to store artifacts. | Default: $(user.home)/.m2/repository
  <localRepository>${path.to.local.repo}/localRepository</localRepository> -->
  <!-- interactiveMode | This will determine whether maven prompts you when it needs input. If set to false, | maven will use a sensible default
value, perhaps based on some other setting, for | the parameter in question. | Default: true <interactiveMode>true</interactiveMode> -->
  <!-- offline | Determines whether maven should attempt to connect to the network when executing a build. | This will have an effect on artifact
downloads, artifact deployment, and others. | Default: false <offline>false</offline> -->
  <!-- pluginGroups | This is a list of additional group identifiers that will be searched when resolving plugins by their prefix, i.e. | when invoking
a command line like "mvn prefix:goal". Maven will automatically add the group identifiers | "org.apache.maven.plugins" and
"org.codehaus.mojo" if these are not already contained in the list. -->
  <pluginGroups>
    <!-- pluginGroup | Specifies a further group identifier to use for plugin lookup. <pluginGroup>com.your.plugins</pluginGroup> -->
  </pluginGroups>
  <!-- proxies | This is a list of proxies which can be used on this machine to connect to the network. | Unless otherwise specified (by system
property or command-line switch), the first proxy | specification in this list marked as active will be used. -->
  <proxies>
    <!-- proxy | Specification for one proxy, to be used in connecting to the network. | <proxy> <id>optional</id> <active>true</active>
<protocol>http</protocol> <username>proxypuser</username> <password>proxypass</password> <host>proxy.host.net</host>
<port>80</port> <nonProxyHosts>local.net|some.host.com</nonProxyHosts> </proxy> -->
  </proxies>
  <!-- servers | This is a list of authentication profiles, keyed by the server-id used within the system. | Authentication profiles can be used
whenever maven must make a connection to a remote server. -->
```

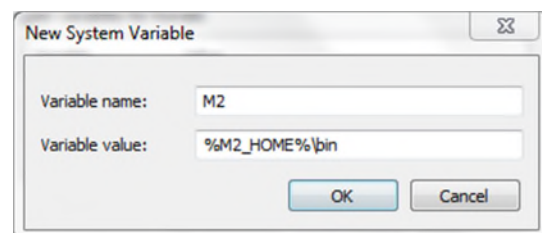
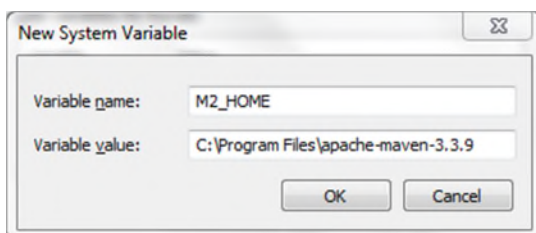
5a. Set Environment Variable in Windows

Click → Control Panel → System and Security → System.



Click **Advanced system settings** →
Environment Variables → **New...**

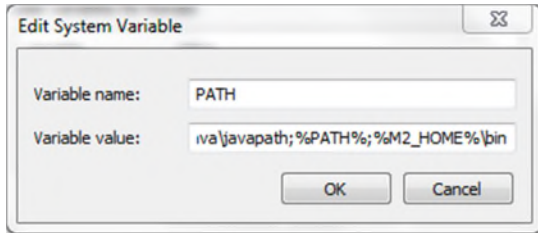
Click **OK** → **New...** (again)



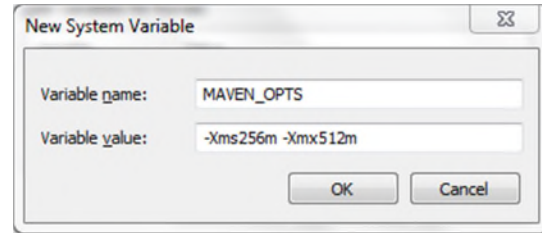
Installing and Running Maven Walkthrough

Click OK → find the PATH and click Edit...

Add to the Variable; do not change what is already there. Values are separated by a ; (semicolon)



Click OK → New...



Click OK → OK to close the screens.

5b. Set Environment Variable on MAC

Open Terminal and type:

Go to your home folder **cd ~/**

Open it: **open -a TextEdit.app .bash_profile**

If you don't have the file type **touch .bash_profile** to create a new file named **.bash_profile**.

And add the following lines to it:

```
export JAVA_HOME=$(/usr/libexec/java_home -v 1.8)
export M2_HOME=/usr/local/apache-maven-3.3.9
export M2=/usr/local/apache-maven-3.3.9/bin
export PATH=:/usr/local/apache-maven-
3.3.9/bin:/usr/local/bin:/usr/bin:/bin:/usr/sbin:/sbin
export MAVEN_OPTS="-Xms256m -Xmx512m"
```

Save and exit. (The changes will take effect next time you start Terminal)

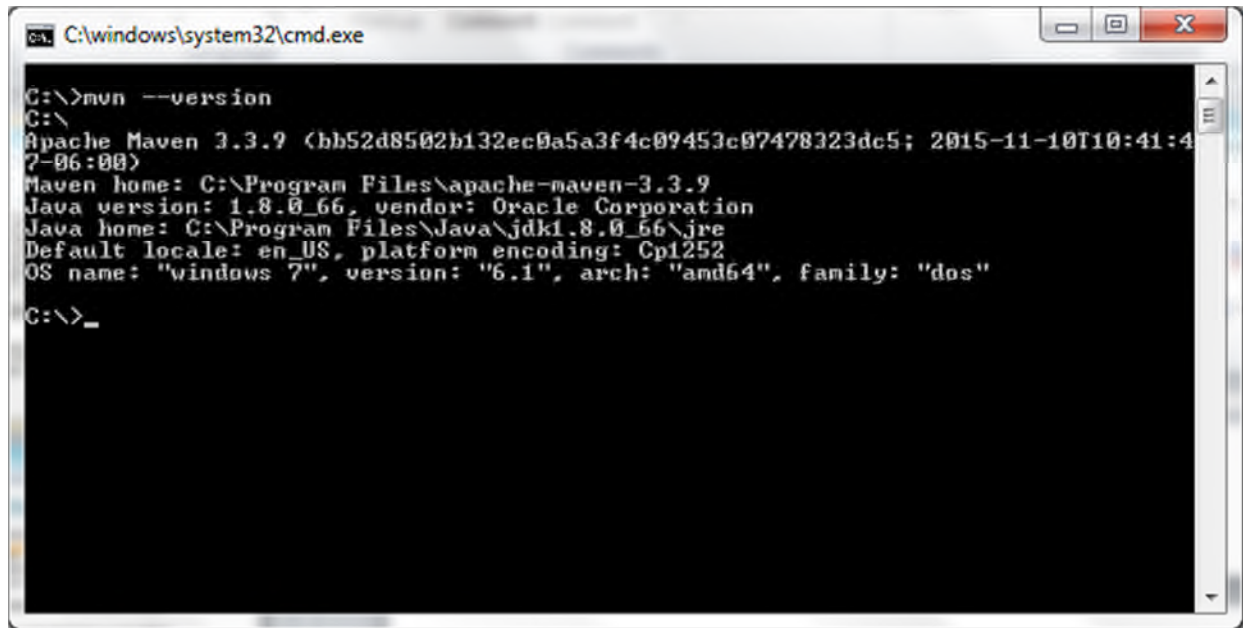
6. Run Maven

For windows: Winkey+R type cmd and click OK.

For Mac: Open Terminal

Type **mvn --version** and hit enter.

Installing and Running Maven Walkthrough



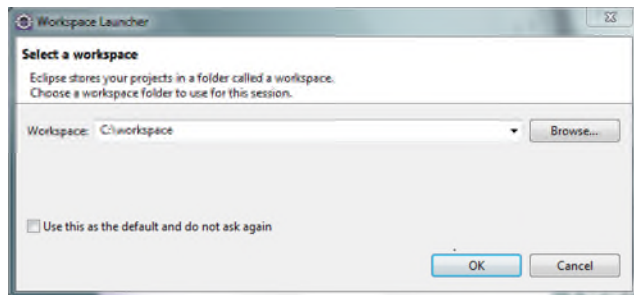
```
C:\windows\system32\cmd.exe

C:\>mvn --version
C:\>
Apache Maven 3.3.9 (bb52d8502b132ec0a5a3f4c09453c074783223dc5; 2015-11-10T10:41:47-06:00)
Maven home: C:\Program Files\apache-maven-3.3.9
Java version: 1.8.0_66, vendor: Oracle Corporation
Java home: C:\Program Files\Java\jdk1.8.0_66\jre
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 7", version: "6.1", arch: "amd64", family: "dos"

C:\>_
```

Open Eclipse.

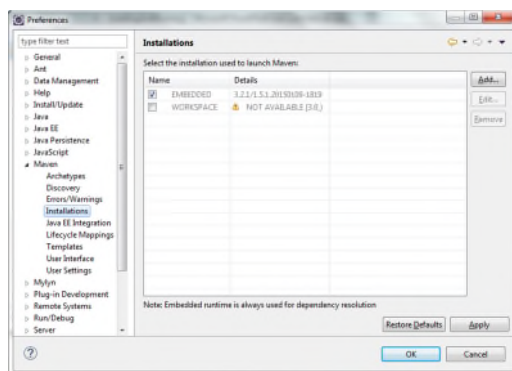
Select a directory to create the folder in or use default.



Windows: Click Window → Preferences

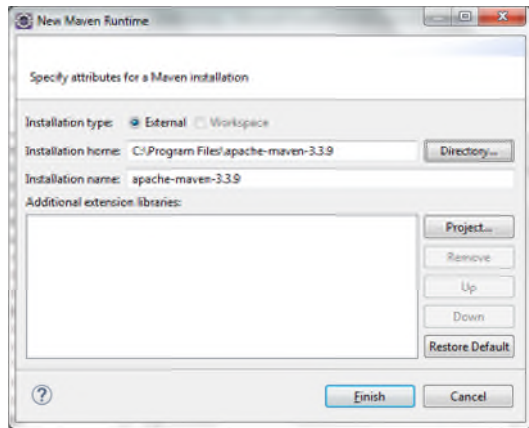
Mac: Click Eclipse → Preferences

Click Maven → Installations



Click Add...

Installing and Running Maven Walkthrough



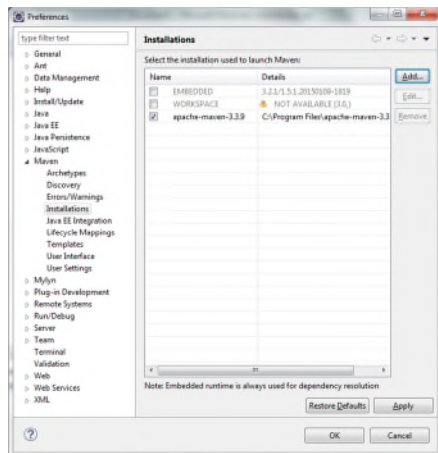
Type in the location of you apache maven runtime or click Directory to browse to it.

For Windows: C:\Program Files\apache-maven-3.3.9

For Mac: \Usr\Local\apache-maven-3.3.9

Click Finish.

Select the new Runtime.



Click OK to Apply and close the window.