

RAJAT VERMA

SOFTWARE TESTING

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SOFTWARES SETUP | OS | MAC

MAVEN



<https://github.com/rajatt95>

<https://www.youtube.com/@rajatt95>



What is Maven?

1. Maven is a popular open-source build tool developed by the Apache Group to build, publish, and deploy several projects at once for better project management
2. Maven requires **JAVA** to execute. So we will have to first install Java and then maven into our Mac OS
3. Verifying the JDK installation

a. java -version

```
rajatverma@rajats-MacBook-Air ~ % java -version
java version "15.0.2" 2021-01-19
Java(TM) SE Runtime Environment (build 15.0.2+7-27)
Java HotSpot(TM) 64-Bit Server VM (build 15.0.2+7-27, mixed mode, sharing)
rajatverma@rajats-MacBook-Air ~ %
```



How to download Maven?

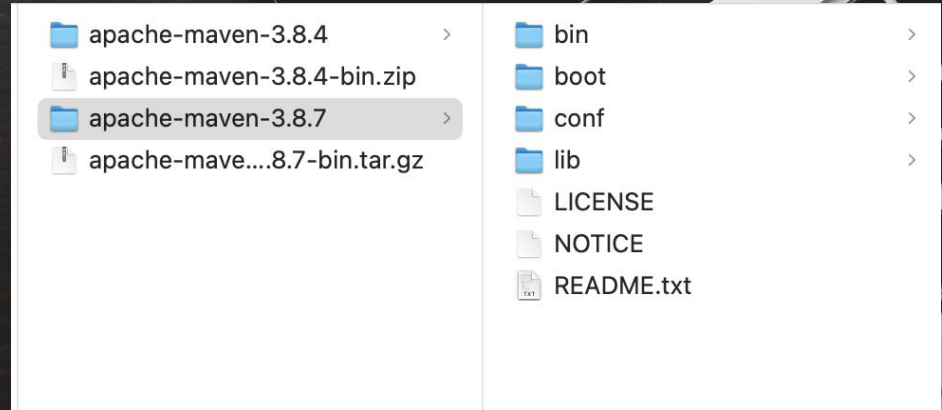
1. Go to URL:
 - a. <https://maven.apache.org/download.cgi>
2. Download the “Binary tar.gz archive” file

Link	
Binary tar.gz archive	apache-maven-3.8.7-bin.tar.gz



How to setup Maven?

1. Put this file into some directory
 - a. Example: Softwares/apache-maven-3.8.7
2. Extract the downloaded file
 - a. By double click on it



Setup Environment Variable - M2_HOME and Path

1. Commands

a. To open `.zshrc` file

i. `cd ~/`

ii. `open -e .zshrc`

iii. `export JAVA_HOME=$(/usr/libexec/java_home -v15.0.2)`

iv. `export`

`M2_HOME="/Users/rajatverma/Desktop/Work/Softwares/apache-maven-3.8.7"`

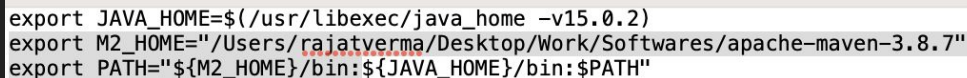
`export`

`PATH="${M2_HOME}/bin:${JAVA_HOME}/bin:$PATH"`

v. `source .zshrc`



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A screenshot of a terminal window titled ".zshrc — Edited" showing the following commands:

```
export JAVA_HOME=$(/usr/libexec/java_home -v15.0.2)
export M2_HOME="/Users/rajatverma/Desktop/Work/Softwares/apache-maven-3.8.7"
export PATH="${M2_HOME}/bin:${JAVA_HOME}/bin:$PATH"
```

export JAVA_HOME=\$(/usr/libexec/java_home -v15.0.2)
export M2_HOME="/Users/rajatverma/Desktop/Work/Softwares/apache-maven-3.8.7"
export PATH="\${M2_HOME}/bin:\${JAVA_HOME}/bin:\$PATH"

Setup Environment Variable - M2_HOME and Path (2)

1. Commands

a. To verify the setup

i. `echo $M2_HOME`

ii. `echo $PATH`

b. Maven version

i. `mvn -version`

```
rajatverma@rajats-MacBook-Air ~ % echo $M2_HOME
/Users/rajatverma/Desktop/Work/Softwares/apache-maven-3.8.7
rajatverma@rajats-MacBook-Air ~ % echo $PATH
/Users/rajatverma/Desktop/Work/Softwares/apache-maven-3.8.7/bin:/Library/Java/JavaVirtualMachine
s/jdk-15.0.2.jdk/Contents/Home/bin:/Library/Java/JavaVirtualMachines/jdk-15.0.2.jdk/Contents/Hom
e/bin:/Users/rajatverma/Library/Java/JavaVirtualMachines/corretto-17.0.4.1/Contents/Home/bin:/Us
ers/rajatverma/Library/Android/sdk/tools:/Users/rajatverma/Library/Android/sdk/platform-tools:/b
in:/Users/rajatverma/Library/Android/sdk/tools:/Users/rajatverma/Library/Android/sdk/platform-to
ols:/Users/rajatverma/Library/Android/sdk/tools:/Users/rajatverma/Library/Android/sdk/platform-t
ools:/bin:/Users/rajatverma/Library/Java/JavaVirtualMachines/corretto-17.0.4.1/Contents/Home/bin
:/Users/rajatverma/Library/Android/sdk/tools:/Users/rajatverma/Library/Android/sdk/platform-tool
s:/usr/local/bin:/System/Cryptexes/App/usr/bin:/usr/bin:/bin:/usr/sbin:/sbin:/Library/Apple/usr/
binevalevalevaleval
rajatverma@rajats-MacBook-Air ~ % ;2C
```

```
rajatverma@rajats-MacBook-Air ~ % mvn -version
Apache Maven 3.8.7 (b89d5959fcde851dcb1c8946a785a163f14e1e29)
Maven home: /Users/rajatverma/Desktop/Work/Softwares/apache-maven-3.8.7
Java version: 15.0.2, vendor: Oracle Corporation, runtime: /Library/Java/JavaVirtualMachines/jdk
-15.0.2.jdk/Contents/Home
Default locale: en_IN, platform encoding: UTF-8
OS name: "mac os x", version: "10.16", arch: "x86_64", family: "mac"
rajatverma@rajats-MacBook-Air ~ %
```

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