Maven Build Tool:

Phrases used:

* **validate**: validate the project is correct and all necessary information is available
* **compile**: compile the source code of the project
* **test**: test the compiled source code using a suitable unit testing framework. These tests should not require the code be packaged or deployed
* **package**: take the compiled code and package it in its distributable format, such as a JAR.
* **integration-test**: process and deploy the package if necessary into an environment where integration tests can be run
* **verify**: run any checks to verify the package is valid and meets quality criteria
* **install**: install the package into the local repository, for use as a dependency in other projects locally
* **deploy**: done in an integration or release environment, copies the final package to the remote repository for sharing with other developers and projects.

There are two other Maven lifecycles of note beyond the *default* list above. They are

* **clean**: cleans up artifacts created by prior builds
* **site**: generates site documentation for this projec

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

Set maven home environment variable as M2\_HOME = …/apacke-maven-3.2

Check maven version:

>> mvn --verison

1. Build plain old java project

mvn archetype:create

-DgroupId=[your project's group id]

-DartifactId=[your project's artifact id]

-DarchetypeArtifactId=maven-archetype-quickstart

>> mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=my-app -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false

Build the project

>> mvn package

Creating jar

>> mvn clean install

1. Create simple j2ee project

mvn archetype:create

-DgroupId=[your project's group id]

-DartifactId=[your project's artifact id]

-DarchetypeArtifactId=maven-archetype-j2ee-simple

1. Create simple web project

mvn archetype:create

-DgroupId=[your project's group id]

-DartifactId=[your project's artifact id]

-DarchetypeArtifactId=maven-archetype-webapp