

Technical Tutorial

Maven build tool

Maven is a Java build tool that can be used to build and manage any Java-based project.

Prerequisites: JDK 11+ and some Java experience.

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Install Maven

1. Navigate to maven.apache.org
2. Download a binary archive and expand in a convenient place (e.g., C:\maven).
3. Add Maven's bin directory to your path (e.g., C:\maven\bin).
4. Test your installation by typing the following into a new cmd prompt window: `mvn --version`

Create a Maven Project¹

1. Create a "test" folder on your Desktop.
2. From the cmd prompt inside of the new "test" folder, enter:

```
mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=my-app -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false
```
3. Change into your new project directory (my-app).
4. Review the pom.xml file.
5. Build the project: `mvn package`
6. Investigate the source code.
7. Run the newly compiled and packaged JAR with:

```
java -cp target/my-app-1.0-SNAPSHOT.jar com.mycompany.app.App
```
8. Clean the project: `mvn clean`
9. Create the documentation: `mvn site`

¹ Source: <https://maven.apache.org/guides/getting-started/maven-in-five-minutes.html> retrieved 3/17/2023