

# Java Programming

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- Import a Java Maven library into an IntelliJ project.

## Today's Lecture

## Overview

1. Install the library in the local Maven repository.
2. Create a new IntelliJ project that uses Maven as the build system (this project will import and use the library).
  - You can name the project whatever you want (for example, mytestproject).
3. Add a Maven dependency for the library you are importing to the test project. You need the following information about the Maven library you are importing:
  - Artifact id
  - Group id
  - Version number
4. If importing into an FXML project, update the module-info.java file.

# Import Maven Library Overview

- Open a command prompt and navigate to the Maven executable file directory (change slightly to fit your IntelliJ version).

```
C:\Program Files\JetBrains\IntelliJ IDEA Community Edition  
2021.3.1\plugins\maven\lib\maven3\bin
```

- Run the Maven install command at the command prompt. Here is the format:

```
mvn install:install-file -Dfile=fullfilename -DgroupId=groupId -DartifactId=artifactId  
-Dversion=version -Dpackaging=jar
```

- For example, assume you want to install the following:

```
file: c:\temp\PseudoAssemblyObf-1.0.jar  
groupId: org.example  
artifactId: PseudoAssemblyObf  
version: 1.0
```

- Here is the command:

```
mvn install:install-file -Dfile=c:\temp\PseudoAssemblyObf-1.0.jar -  
DgroupId=org.example -DartifactId=PseudoAssemblyObf -Dversion=1.0 -  
Dpackaging=jar
```

Note: The mvn command requires the JAVA\_HOME environment variable to be set to the location of the JDK.

# 1. Install the Library in the Local Maven Repository

- Create an IntelliJ project that uses the Maven build system.
- You can name the project whatever you want.

## 2. Create an IntelliJ Project

- Add a Maven dependency for the library you are importing to the test project.
- You need the following information about the Maven library you are importing:
  - Artifact id
  - Group id
  - Version
- Add a new `<dependency>` item to the test project's pom.xml file.

```
<dependencies>  
  <dependency>  
    <groupId>GROUP ID GOES HERE</groupId>  
    <artifactId>ARTIFACT ID GOES HERE</artifactId>  
    <version>VERSION GOES HERE</version>  
  </dependency>  
</dependencies>
```

- Go to Maven window and press the Reload projects button.

## 3. Add Maven Dependency

## ONLY NECESSARY IF IMPORTING TO AN FXML PROJECT!

- The FXML project includes a module-info.java file.
- You will need to add a requires statement for the library you are importing to module-info.java.
- For example:  
requires PseudoAssemblyObf;

# 4. Importing to an FXML Project

- End of Slides

**End of Slides**