

Creating and Exporting a Project

Throughout the course, we'll ask you to create projects for your labs, homeworks, and projects. This page covers:

- How to create a project using our Maven archetype
- How to export a project using our Maven export plugin

Creating a Project

Open your Command Prompt (Windows)/Terminal (Mac). Navigate to the folder you're organizing all your Fundies 2 projects in using the following command:

```
cd [path to your folder]
```

`cd` stands for "Change Directory". This command will navigate your terminal over to the specified path. Any commands you run that create files will organize the files into the specified directory.

Paste and run the following command in your command line (*Command Prompt* for Windows, *Terminal* for Mac):

```
mvn archetype:generate -DarchetypeArtifactId=homework-quickstart -DarchetypeGroupId=org.atp-fivt -DarchetypeVersion=1.09 -Djavaversion=21
```

When prompted, enter the following:

groupId	uk.ac.nulondon
artifactId	<your project name (i.e. lab1, homework1, etc.)
version	<i>press Enter</i>
package	<i>press Enter</i>

Here's an idea of what you should see:

```
Define value for property 'groupId': uk.ac.nulondon
Define value for property 'artifactId': myproject
Define value for property 'version' 1.0-SNAPSHOT: :
Define value for property 'package' uk.ac.nulondon: :
Confirm properties configuration:
javaversion: 21
groupId: uk.ac.nulondon
artifactId: myproject
version: 1.0-SNAPSHOT
package: uk.ac.nulondon
Y: : |
```

The terminal will ask you for confirmation; enter "Y" and press *Enter* to continue.

If you see **BUILD SUCCESS**, you're in business.

```
Define value for property 'groupId': uk.ac.nulondon
Define value for property 'artifactId': myproject
Define value for property 'version' 1.0-SNAPSHOT: :
Define value for property 'package' uk.ac.nulondon: :
Confirm properties configuration:
javaversion: 21
groupId: uk.ac.nulondon
artifactId: myproject
version: 1.0-SNAPSHOT
package: uk.ac.nulondon
Y: : Y
[INFO] -----
[INFO] Using following parameters for creating project from Archetype: homework-quickstart:1.09
[INFO] -----
[INFO] Parameter: groupId, Value: uk.ac.nulondon
[INFO] Parameter: artifactId, Value: myproject
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: uk.ac.nulondon
[INFO] Parameter: packageInPathFormat, Value: uk/ac/nulondon
[INFO] Parameter: package, Value: uk.ac.nulondon
[INFO] Parameter: groupId, Value: uk.ac.nulondon
[INFO] Parameter: artifactId, Value: myproject
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: javaversion, Value: 21
[WARNING] Don't override file C:\Users\Katelin\myproject\src\main\java\uk\ac\nulondon
[WARNING] Don't override file C:\Users\Katelin\myproject\src\test\java\uk\ac\nulondon
[INFO] Executing META-INF/archetype-post-generate.groovy post-generation script
[INFO] Project created from Archetype in dir: C:\Users\Katelin\myproject
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:34 min
[INFO] Finished at: 2024-01-23T20:26:09Z
[INFO] -----
```

Zippping a Project

Professor Ivan has put together a Maven plugin to help make zipping and exporting your projects easier.

He's created a video tutorial you can follow [here \(https://www.youtube.com/watch?v=dE8IVLJekks&ab_channel=IvanPonomarev\)](https://www.youtube.com/watch?v=dE8IVLJekks&ab_channel=IvanPonomarev).

To use the plugin, insert the following into the <Plugins> section of your *pom.xml* file:

```
<plugin>
  <groupId>org.atp-fivt</groupId>
  <artifactId>export-maven-plugin</artifactId>
  <version>1.0</version>
  <configuration>
    <zipFileName>Name_Surname.zip</zipFileName>
  </configuration>
</plugin>
```

The `zipFileName` parameter allows you to specify the desired name for the zip file. By default, the file name is set to `export.zip`.

To run the plugin, execute:

```
mvn export:export
```

The resulting `.zip` file will be located in the target directory. Going forward, use this command to zip up your projects for submission.