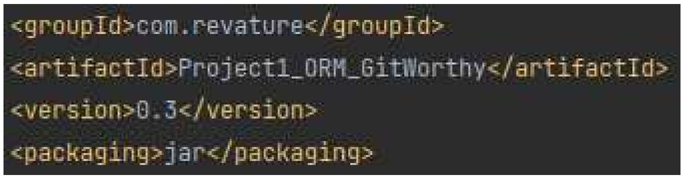
Maven IntelliJ Jar Guide

I. Creating the Jar

First, set the information in your pom.xml file:

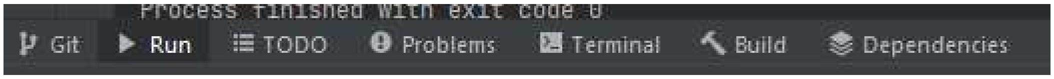


```
<groupId>com.revature</groupId>
<artifactId>Project1_ORM_GitWorthy</artifactId>
<version>0.3</version>
<packaging>jar</packaging>
```

This should appear near the top. For each of these:

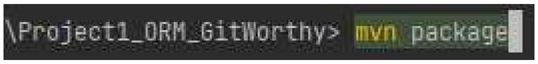
- **groupId**: this will be the directory maven will search in the .m2 folder for the jar
- **artifactId**: will be the (most of) the name of the jar and should probably just mirror the project name, as it does by default
- **version:** Whatever version number you want to give it, this will be a subfolder under groupId and the other part of the jar name
- **packaging:** how the project will be packaged when “maven package” is run, like jar or war

Save the information in the first 3 for later when using the jar. Next, click the terminal tab in the bottom of IntelliJ



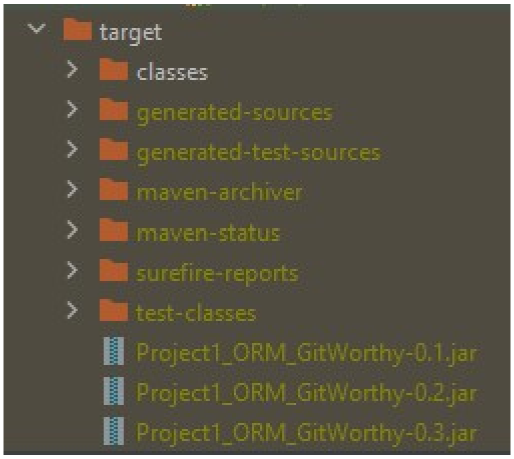
```
Process finished with exit code 0
```

Enter “mvn package” into the terminal…



```
\Project1_ORM_GitWorthy> mvn package
```

Then it will show console stuff and if it shows BUILD SUCCESS, you should be able to find your jar in the target folder



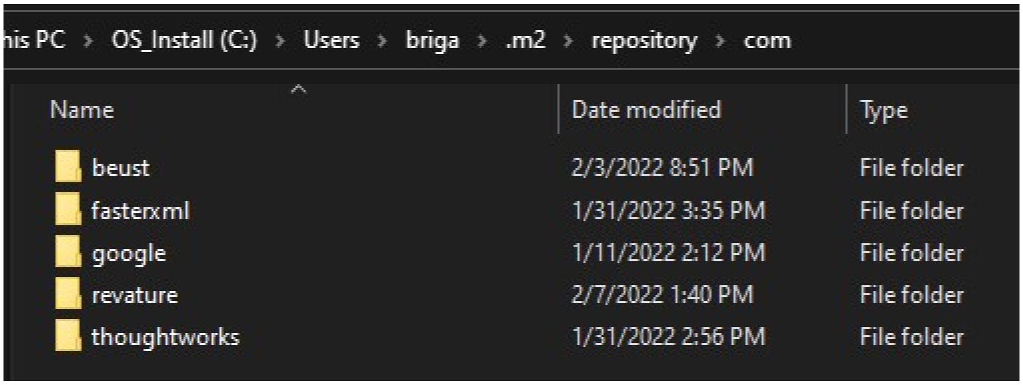
```
target
  classes
  generated-sources
  generated-test-sources
  maven-archiver
  maven-status
  surefire-reports
  test-classes
  Project1_ORM_GitWorthy-0.1.jar
  Project1_ORM_GitWorthy-0.2.jar
  Project1_ORM_GitWorthy-0.3.jar
```

Right click the jar file, hit copy and now it’s on your clipboard.

II. Using the jar

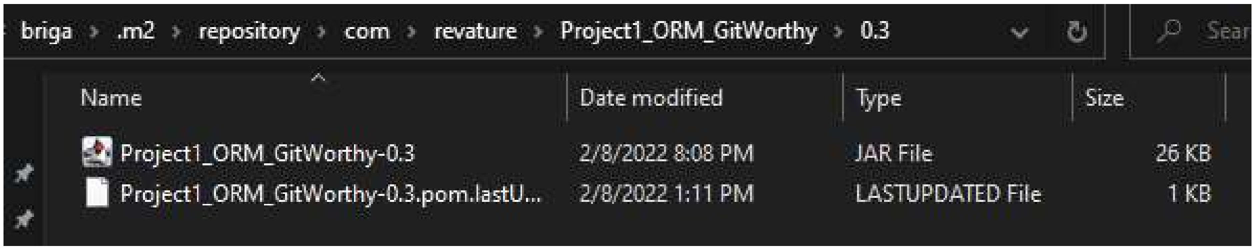
If you either just made the jar and want to make it available to other projects or got it from someone else, find the .m2 directory in your computer. For me, it was directly under my user folder. Inside .m2, open the repository folder.

The rest depends on information in your pom. First, the group id indicates where to place these in. If it was com.revature, the “com” folder probably exists already. Inside there, if the revature folder doesn’t exist, create it.


his PC › OS_Install (C:) › Users › briga › .m2 › repository › com

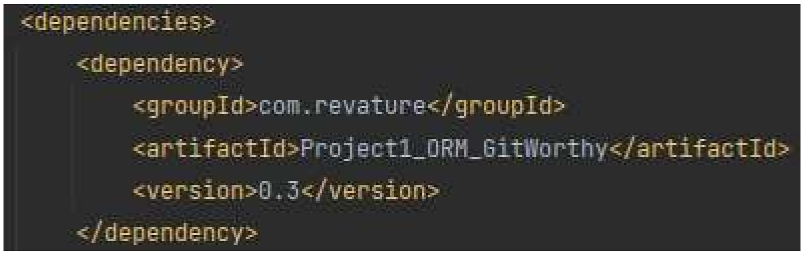
Name	Date modified	Type
beust	2/3/2022 8:51 PM	File folder
fasterxml	1/31/2022 3:35 PM	File folder
google	1/11/2022 2:12 PM	File folder
revature	2/7/2022 1:40 PM	File folder
thoughtworks	1/31/2022 2:56 PM	File folder

Inside the revature folder, make a directory with the name of your artifactId. Then, inside that directory, make another one named the version number you listed in your pom.xml. Finally, place the jar file inside this folder.


briga › .m2 › repository › com › revature › Project1_ORM_GitWorthy › 0.3
Sear

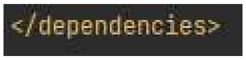
Name	Date modified	Type	Size
Project1_ORM_GitWorthy-0.3	2/8/2022 8:08 PM	JAR File	26 KB
Project1_ORM_GitWorthy-0.3.pom.lastU...	2/8/2022 1:11 PM	LASTUPDATED File	1 KB

Once the jar is in place, open a project you want to use the jar in and open the pom.xml. Go to the <dependencies section> (or create it if it doesn’t exist yet) and paste the first 3 parts of the original project’s information in there under a <dependency> tag.



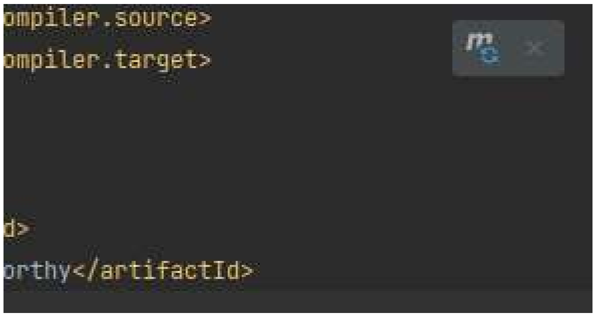
```
<dependencies>
    <dependency>
        <groupId>com.revature</groupId>
        <artifactId>Project1_ORM_GitWorthy</artifactId>
        <version>0.3</version>
    </dependency>
```

(Make sure the dependencies tag is also closed off at some point)



```
</dependencies>
```

The text will probably show red, and if it does, there should be a small box with an “m” that shows up in your text display.



```
ompiler.source>
ompiler.target>



d>
orthy</artifactId>
```

Click the m to load the new dependency and it should stop showing red, meaning the dependency was found in the maven directory.

Side notes:

- The dependencies used in the original project (that was turned into jar) might need to be included in the dependencies of the project using the jar as well
- I’ve run into issues where the project using the jar and the jar itself have classes of the same name and run into collisions, notably “NoSuchMethodError” because it will reference the wrong class
- (I have no idea if this is the best way but just wanted to make a step-by-step guide of what worked for me. Probably isn’t even close to the best way really)