From IntelliJ JavaFX demo to JAR

Form intelliJ You can have

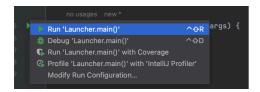


Steps:

1) add Launcher class

public class Launcher {
 public static void main(String[] args) {
 HelloApplication.main(args);
 }
}

- 2) Pls check class if correct. (**HelloApplication**). We have to fake Java passing a std cli app that will trigger JavaFX.
- 3) Try run form IntelliJ from Launcher:

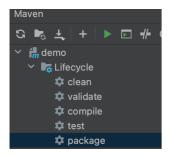


```
4) Add support for shade plugin. n POM add: (in plug-in section... <build> ---> <plugins> )
<!-- added -->
    <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-shade-plugin</artifactId>
        <version>3.2.0
        <executions>
             <execution>
                 <phase>package</phase>
                 <goals>
                     <goal>shade</goal>
                 </goals>
                 <configuration>
                     <shadedArtifactAttached>true</shadedArtifactAttached>
                     <shadedClassifierName>project-classifier/
shadedClassifierName>
                     <outputFile>shade\${project.artifactId}.jar</outputFile>
                     <transformers>
                          <transformer implementation=</pre>
"org.apache.maven.plugins.shade.resource.ManifestResourceTransformer">
                              <mainClass>com.ingconti.Launcher</mainClass>
                          </transformer>
                     </transformers>
                 </configuration>
             </execution>
        </executions>
    </plugin>
    <!-- end of added -->
5) PLS change your class and or path.
Tip:
If in one:
<mainClass>com.example.demo.Launcher</mainClass>
You remove ALL from "com" and start typing DOT, IntelliJ will suggest:
```

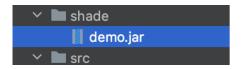


Go on selecting And typing dots!

6) On maven tab:



Click on package. You will see a new folder, shade: this will be You ready final JAR:



Right click to run.

Note: If You got

WARNING: Unsupported JavaFX configuration: classes were loaded from 'unnamed module @3c5d1c1b'

IT'S OK!

7) from console Open folder of JAR; on right click on shell:



(On windows will be open in Explorer..)

- 8) Open a std terminal / console (for windows shell... or better WSL2 console) and type cd
- 9) Drag folder in Your console (so You don't haver to type path...)

You will se something similar to:

cd /Users/ingconti/Downloads/samples-master/HelloFX/Maven/demo/shade/

11) hit return..

```
10) with Is -la or dir You should see:
-rw-r--r-@ 1 ingconti staff 8271988 Apr 11 12:11 demo.jar
Go on running:
java -jar demo.jar
Et voilà!
PS it also run from double click.
12) Some cleanup
You can remove all there section: <executions>
It's ONLY to run inside intellJ: now You run from jar.
13) If You rename package or folder, pls FIX POM! (Refactor should work..)
14) BUT I need console, too!
It's already ok.. we do start from console!
See main:
public class HelloApplication {
    public static void main(String[] args) {
         HelloApplication.main(args);
     }
}
```

main is ALREADY a console app. (DO not use Launcher, but modify HelloApplication, use of Launcher is only a. Dirty patch).

Suppose You want to run as server for example with some switch on run:

```
java -jar demo.jar --server
```

(PLS every time rebuild using package from MAVEN! We are using console!)

On main:

```
public static void main(String[] args) {
   for (String arg: args) {
       System.out.println(arg);
   }
   launch();
}
Run:
java -jar demo.jar --server
 server
SO:
public static void main(String[] args) {
    // for (String arg: args) { System.out.println(arg);}
    if (args.length > 0) {
        String param0 = args[0];
        if (param0.equals( "--server") )
            runAsServer();
    }else {
        launch();
    }
}
static void runAsServer(){
    System.out.println("started as server.. bye!");
}
....
You will get:
 ava - iar JavaFXMinimalClickableDemo.jar --server
started as server.. bye!
```

Final POM:

```
<?xml version="1.0" encoding="UTF-8"?>
project xmlns="http://maven.apache.org/POM/4.0.0"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/
maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>com.example</groupId>
    <artifactId>demo</artifactId>
    <version>1.0-SNAPSHOT</version>
    <name>demo</name>
    properties>
        ct.build.sourceEncoding>UTF-8/project.build.sourceEncoding>
        <junit.version>5.9.1</junit.version>
    </properties>
    <dependencies>
        <dependency>
            <groupId>org.openjfx</groupId>
            <artifactId>javafx-controls</artifactId>
            <version>19</version>
        </dependency>
        <dependency>
            <groupId>org.openjfx</groupId>
            <artifactId>javafx-fxml</artifactId>
            <version>19</version>
        </dependency>
    </dependencies>
    <build>
        <plugins>
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-compiler-plugin</artifactId>
                <version>3.10.1
                <configuration>
                    <source>19</source>
                    <target>19</target>
                </configuration>
            </plugin>
            <plugin>
                <groupId>org.openjfx</groupId>
                <artifactId>javafx-maven-plugin</artifactId>
               <version>0.0.8
            </plugin>
            <!-- added -->
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-shade-plugin</artifactId>
                <version>3.2.0
                <executions>
                    <execution>
                        <phase>package</phase>
                        <goals>
                            <goal>shade</goal>
                        </goals>
                        <configuration>
                            <shadedArtifactAttached>true</shadedArtifactAttached>
                            <shadedClassifierName>project-classifier</shadedClassifierName>
                            <outputFile>shade\${project.artifactId}.jar</outputFile>
                            <transformers>
```

```
<transformer implementation=</pre>
```