

Step 1: Check Your Setup

- **Java Version:** You need **JDK 14 or later** (check with `java -version`).
 - **JavaFX SDK:** Download from <https://openjfx.io> and extract it.
 - Example path:
 - Windows: `C:\javafx-sdk-21`
 - macOS/Linux: `/opt/javafx-sdk-21`
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Step 2: Compile Your Project

From your project folder:

```
Shell
mkdir out
javac --module-path "C:\javafx-sdk-21\lib" --add-modules javafx.controls,javafx.fxml -d out $(find .
-name "*.java")
Show more lines

(Adjust path for macOS/Linux.)
```

Step 3: Create JAR

Create a manifest file `manifest.mf`:

```
None
Manifest-Version: 1.0
Main-Class: your.package.MainClass
```

Then package:

```
Shell
jar cfm MyApp.jar manifest.mf -C out .
```

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Step 4: Use jpackage to Create a Native App

Run:

```
jpackage --name MyApp \
--input .
--main-jar MyApp.jar \
--main-class your.package.MainClass \
--module-path "C:\javafx-sdk-21\lib" \
--add-modules javafx.controls,javafx.fxml \
--type exe
```

Show more lines

For macOS:

Shell

```
jpackage --name MyApp \
--input .
--main-jar MyApp.jar \
--main-class your.package.MainClass \
--module-path /opt/javafx-sdk-21/lib \
--add-modules javafx.controls,javafx.fxml \
--type dmg
```

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This will create:

- Windows: `MyApp.exe` installer
 - macOS: `MyApp.dmg` installer
 - Linux: `MyApp.deb` or `MyApp.rpm`
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Step 5: Double-Click and Run

After installation, you'll have a **native app icon** that launches without needing `java`

`--module-path`

Optional Enhancements:

- Add an **icon**: `--icon myicon.ico` (Windows) or `.icns` (macOS).
 - Add **license**, **version**, etc. with `--app-version`, `--license-file`.
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 **Result:** Your JavaFX app will behave like a normal desktop app—double-clickable, no command line needed.