How To Download Java FX

Download IntelliJ

Dowload IntelliJ community edition at the following links depending on your operating system:
[Windows](#)
[Mac](#)
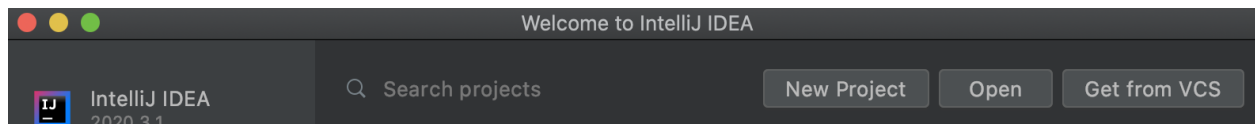[Linux](#)
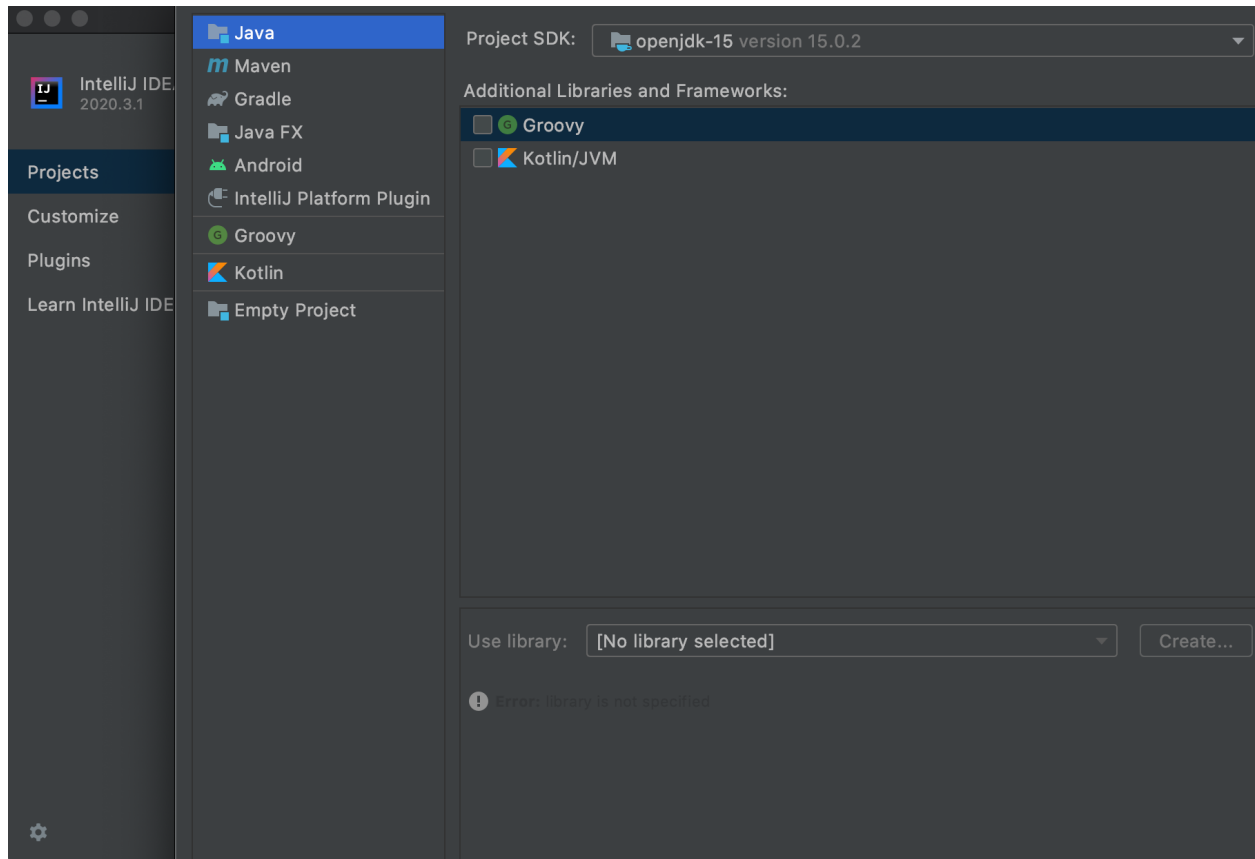and follow the instructions individual to your device to complete the download.

Set Up JDK

- Set up JDK and write a "hello world" program and compile it to. if it compiles your JDK and intelliJ should be working correctly.
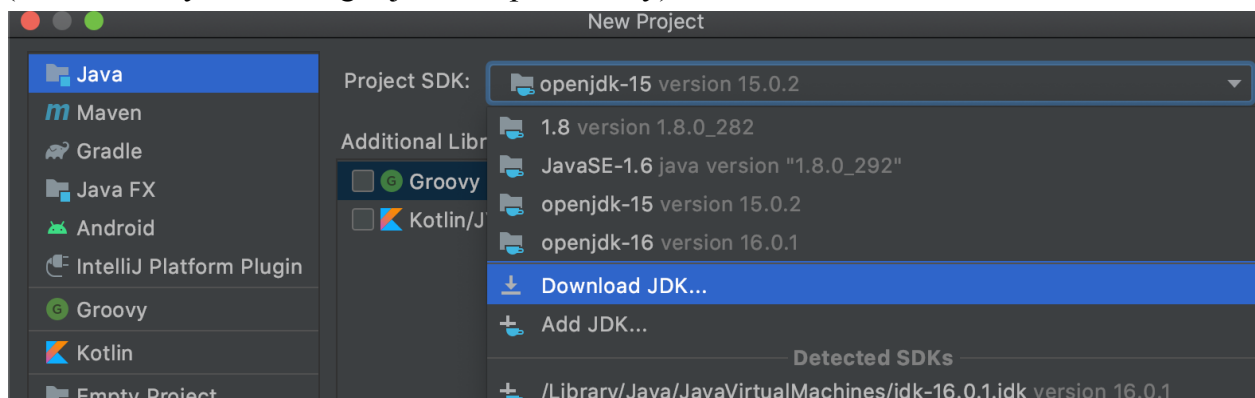
To Check If Your JDK Is Set Up Correctly

Click New Project

View the Project SDK drop down. If there is a value in the Project SDK dropdown as above you are okay. The JavaFX version we are working with should work with JDK 9 and onwards.
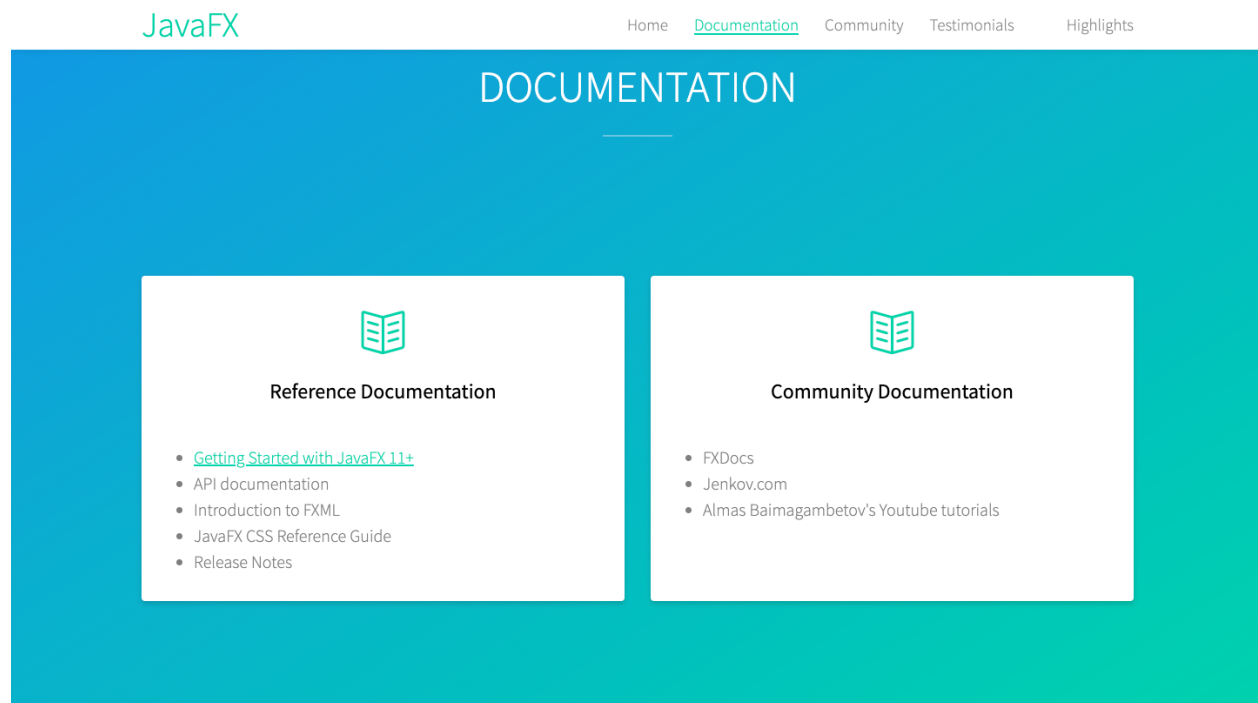
Downloading JDK

(or if unsure you have right jdk set up correctly)

Select the Project SDk drop down and click downlaod JDK. In the pop up window the most up to date jdk will be preselected. Click download here.

Navigating OpenJFX

Website: https://openjfx.io/

Select getting started with JavaFX 11+ or select the link below.
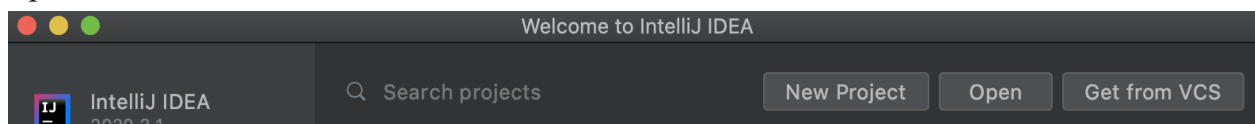
JavaFX Documentation: https://openjfx.io/openjfx-docs/

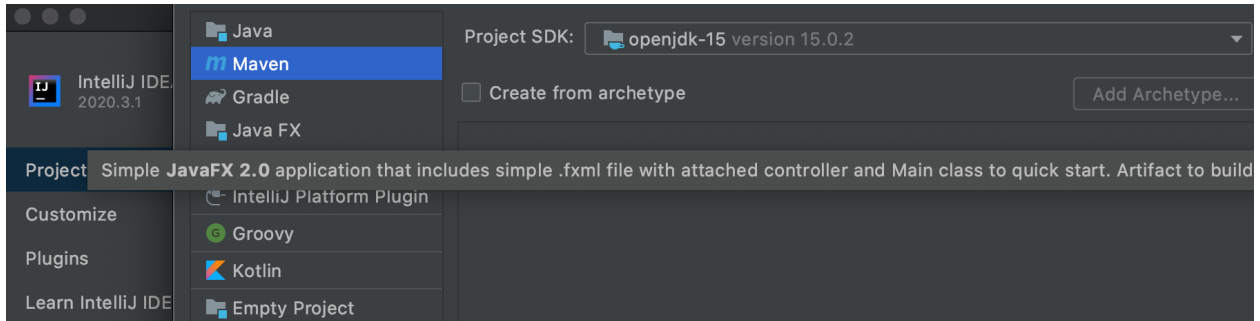On this page select JavaFX and IntelliJ > Modular with Maven.
Keep this page open while configuring intelliJ for reference. This page will detail how to configure IntelliJ with Maven if you get stuck.

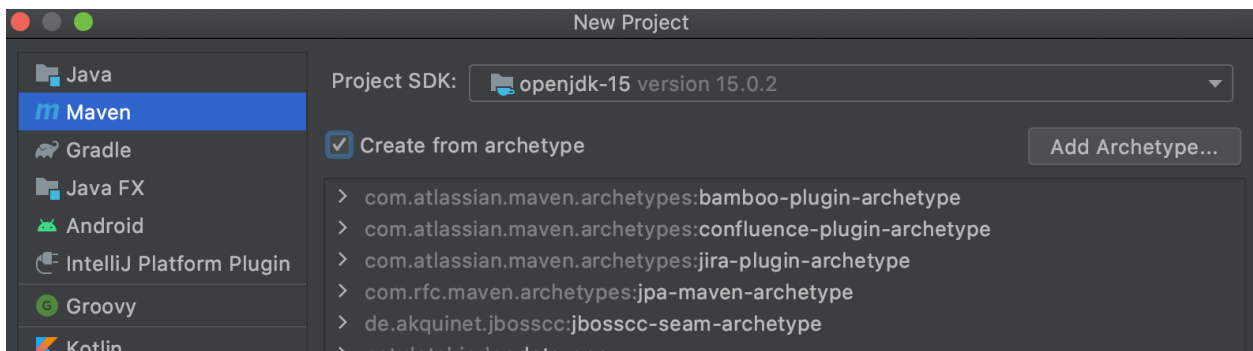## Configuring IntelliJ With Maven

Open intelliJ

Select new project

Select maven on the left hand side

Tick the box "Create from archetype". This means we are going to use an existing archetecture to create a new project. JavaFX has a different way of executing. For example it does not have a main class and method making it tricky to run. If preexisting archetecture is used makes it easier for the user.
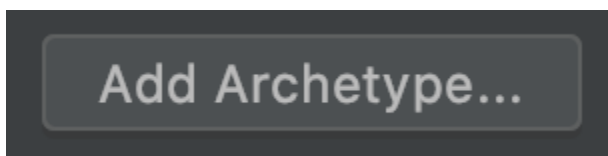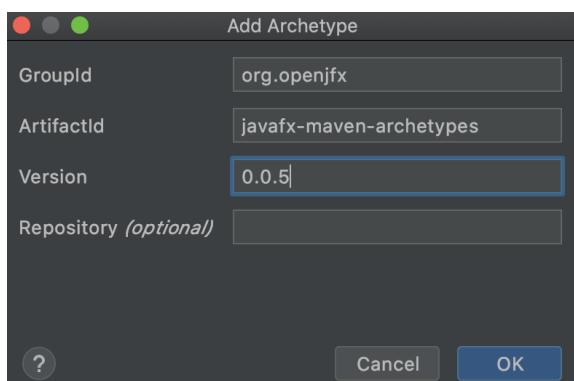

Select add archetype in the top right corner.

Using the instructions from openjfx, some details need to be filled into this text box
groupId → org.openjfx
artifactId → javafx-maven-archetypes
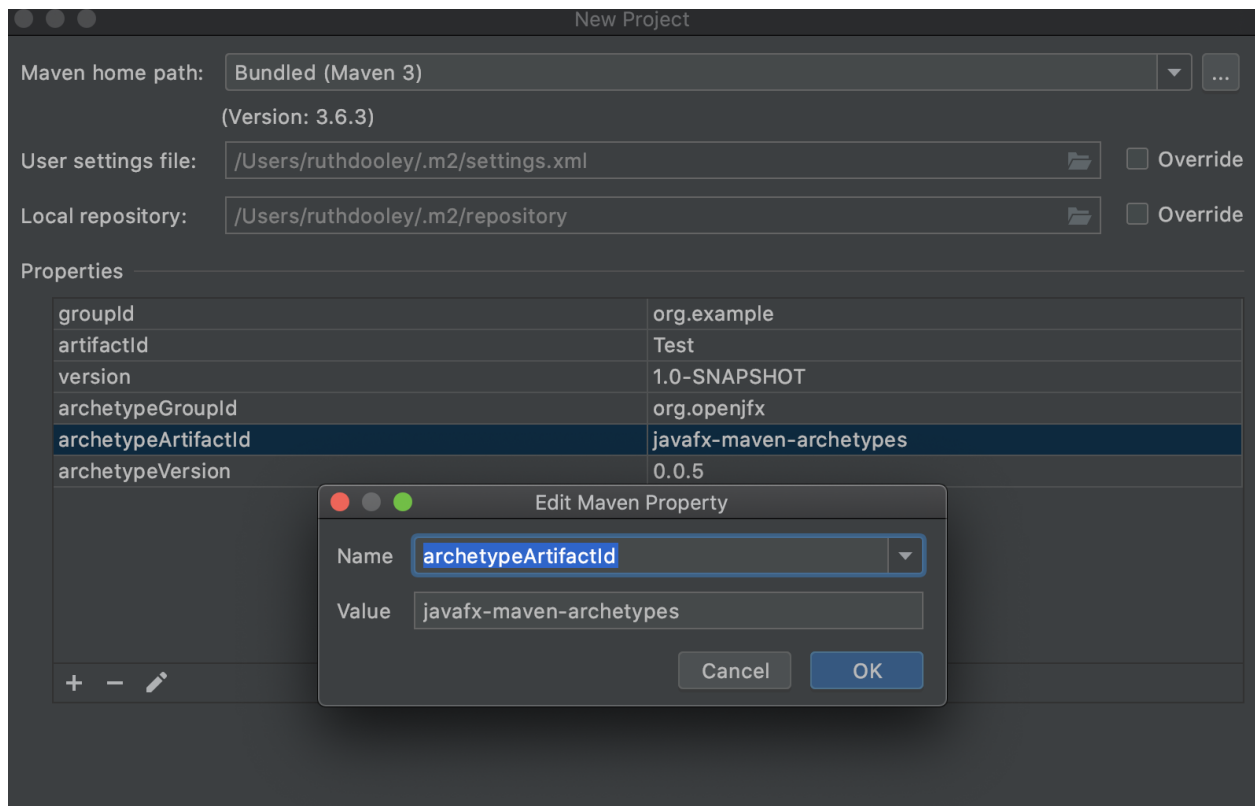Version → 0.0.5

Press okay

Press next

Rename your project to a descriptive name. Choose a different location for your project or leave it as the default. The details for the atifact coordinates can be left the same. Select next

Define in Maven to use JavaFX

We are using the javafx-archetype-simple

Double click on javafx-maven-archtypes and this pop up should appear.
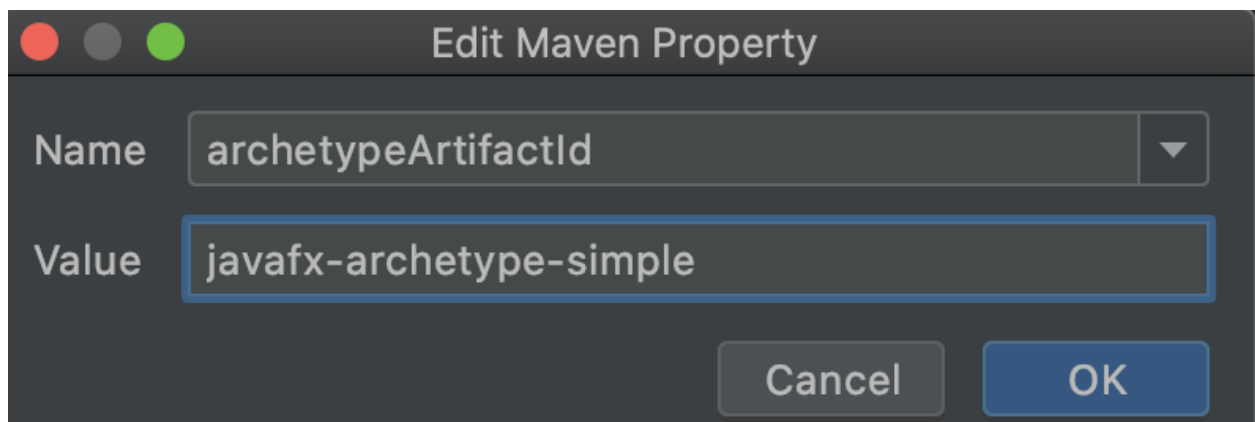
Copy and paste javafx-archetype-simple into the value element of the pop up and select ok.
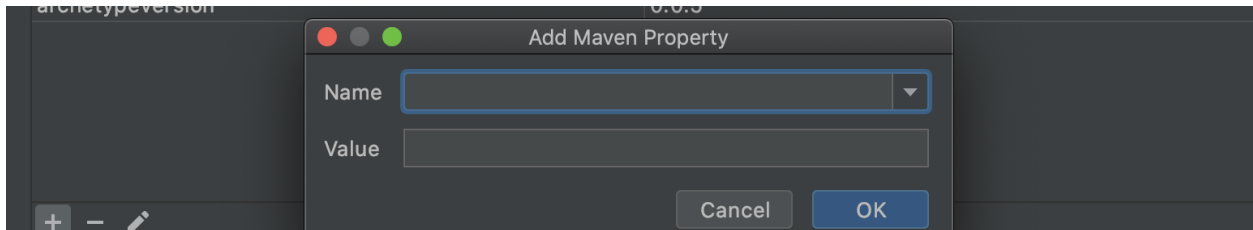
Add a javafx version property. Select the plus in the botton left of this image and this pop up should appear.
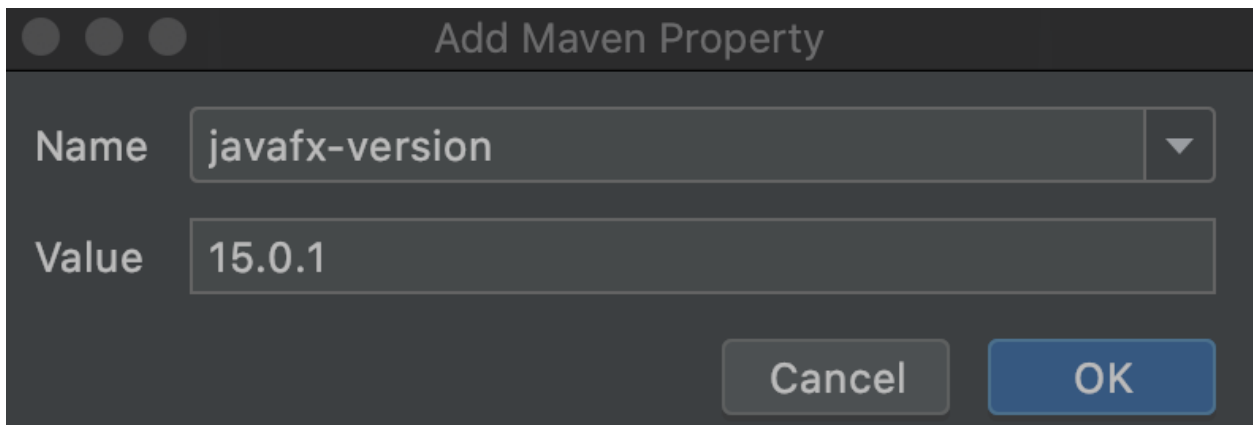
Pass through these values:
Name → javafx-version
Version → 15.0.1 (Not 15.0.1.)
Select ok

Select Finish

Verifying The Configuration

The project will open up in a new window.

It will load for a while to generate the project and structure. This is what your console in IntelliJ should look like during this process.

```
[INFO] Parameter: version, value: 1.0-SNAPSHOT
[INFO] Parameter: javafx-maven-plugin-version, Value: 0.0.4
[INFO] Project created from Archetype in dir: /private/var/folders/xr/2lm6n06d5p104dc5l_qbqg400000gn/T/arche
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  30.311 s
[INFO] Finished at: 2021-07-20T23:13:29+01:00
[INFO] ------------------------------------------------------------------------

Process finished with exit code 0
```
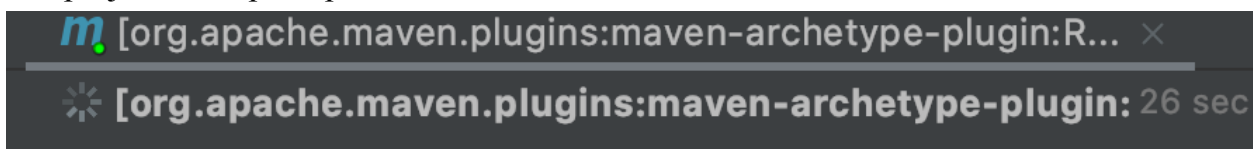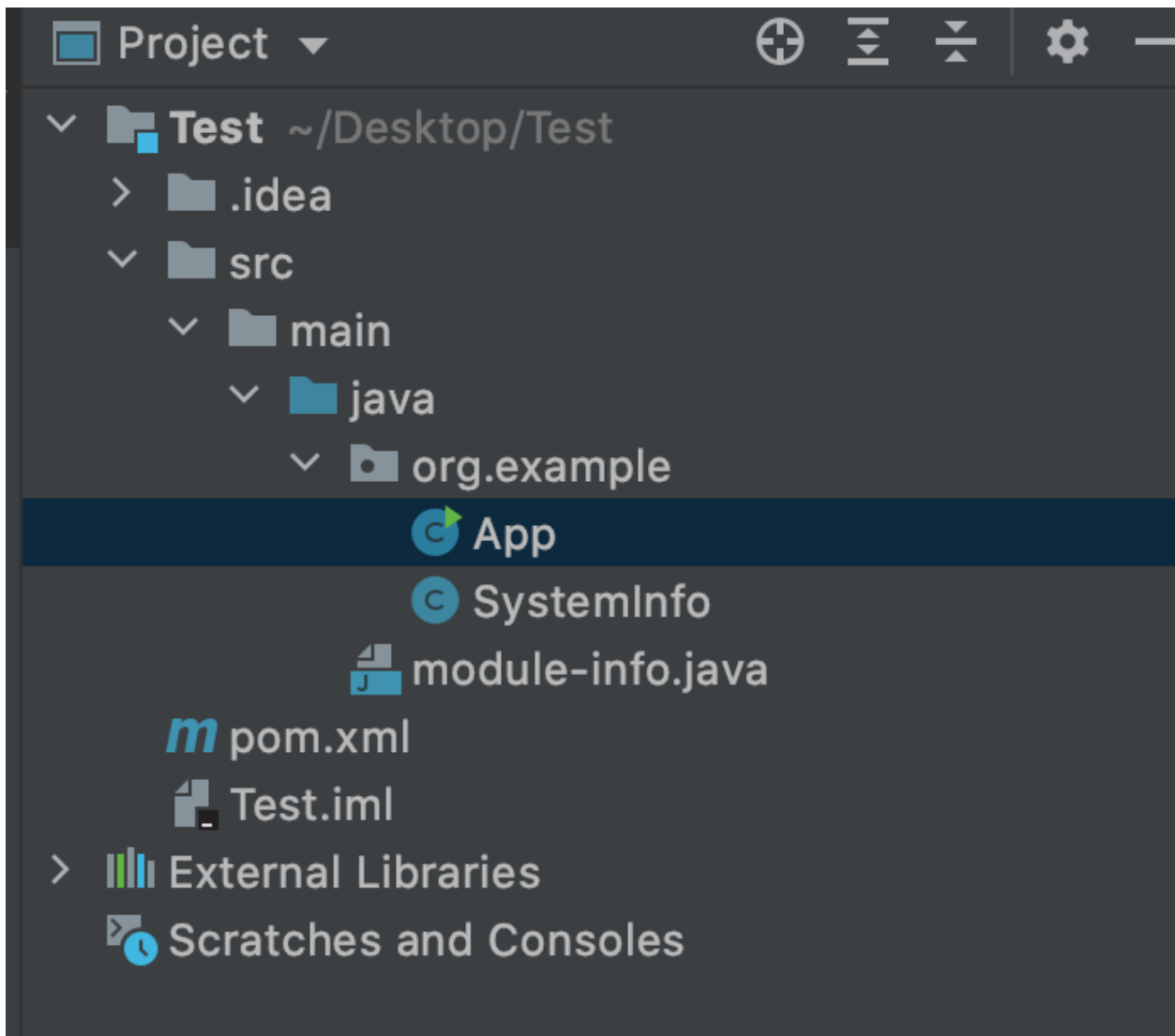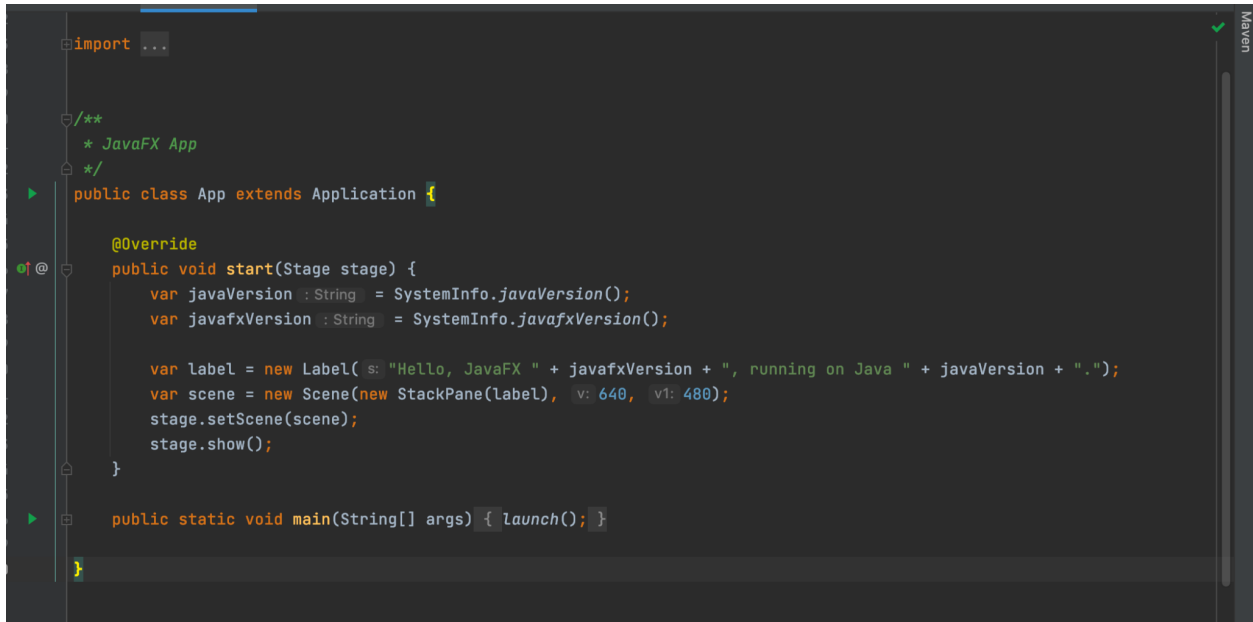
You should recieve this in the console if downloaded correctly

In the top left corner navigate to Name of Project>src>java>org.example>App

```
public static void main(String[] args) { launch(); }
```

You may notice it doesn't really have a main method like you are used to, it needs a start method instead.

```java
import ...


/**
 * JavaFX App
 */
public class App extends Application {

    @Override
    public void start(Stage stage) {
        var javaVersion : String  = SystemInfo.javaVersion();
        var javafxVersion : String  = SystemInfo.javafxVersion();

        var label = new Label( s: "Hello, JavaFX " + javafxVersion + ", running on Java " + javaVersion + ".");
        var scene = new Scene(new StackPane(label),  v: 640,  v1: 480);
        stage.setScene(scene);
        stage.show();
    }

    public static void main(String[] args) { launch(); }

}
```

Select the green play button beside public class App extended Application.
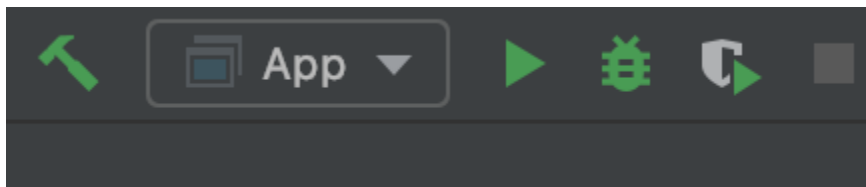
If you wish to run the same again you can select the green play button at the top right instead

Hello, JavaFX 15.0.1, running on Java 15.0.2.
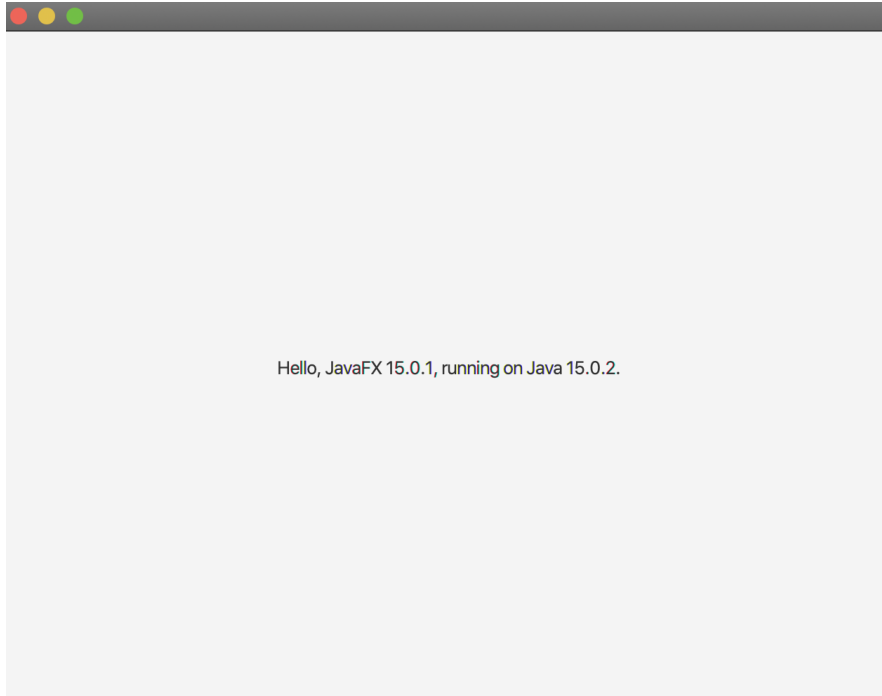
This graphical interface window should appear if all is installed correctly.