

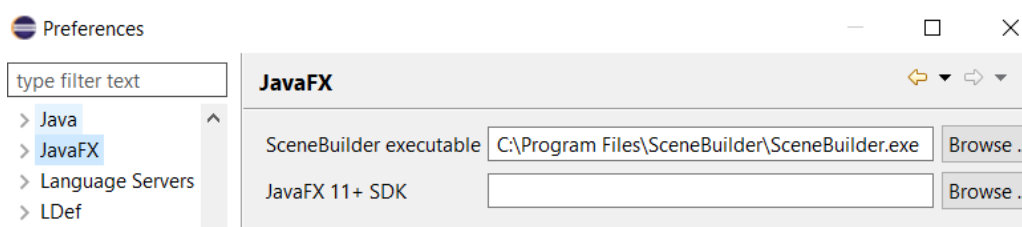
# JavaFX instructions

JavaFX Documentation Link: <https://openjfx.io/openjfx-docs/>

## Section 1: Required Installations and set-up:

To work with JavaFX, you have to install the following tools:

1. JavaFX plugin (Only for Eclipse, IntelliJ comes with the plugin)
  - a. From eclipse “Help Menu” ☐ Eclipse Marketplace” ☐ Search for javafx ☐ Install e(fx)clipse following the instruction.
  - b. You need to restart after installation.
2. JavaFx SDK
  - a. Download from “<https://gluonhq.com/products/javafx/>”
  - b. extract to a folder.
  - c. Configure: (For Eclipse only) (For IntelliJ it will be configured on project basis, which is shown later)
    - i. Go to Window (Menu) ☐ Preference ☐ Java ☐ Build Path ☐ User Library
    - ii. Click “New” (button) ☐ Enter a Name for the library ☐ Add External Jars ☐ Go to the “lib” folder of Java FX installed folder and add all jar files.
3. Install and Configure Scenebuilder
  - a. Install from <https://gluonhq.com/products/scene-builder/#download>
  - b. Configure (for eclipse) by clicking Window☐Preferences☐ Select JavaFX item☐Add SceneBuilder executable file location.
    - i. (For IntelliJ it will be configured on project basis, which is shown later)



## Section 2: Create and Run JavaFX Project

You can find few introductory tutorials here:

For Eclipse:

<https://www.youtube.com/watch?v=j-wJRm6lmOg> (With Scenebuilder)

<https://www.youtube.com/watch?v=nz8P528uGjk> (without scenenbuilder)

For IntelliJ:

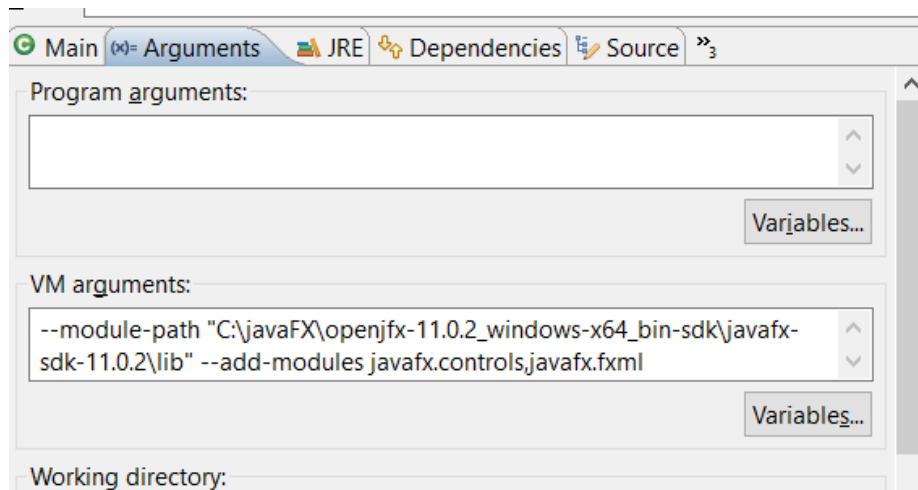
<https://www.youtube.com/watch?v=Ope4icw6bVk> (Without Scenebuilder)

<https://www.youtube.com/watch?v=ZfaPMLdgJxQ> (Scenebuilder + Event)

Steps:

1. Create JavaFx project from File menu. (Only available if the plug-in is installed – item 1 under “Required Installation” section)
2. Add **javaFx SDK** as user library. (Will not be available if you have not installed item 2 under “Required Installation” section)
  - a. Eclipse:
    - i. Window ☐ Preference ☐ Java ☐ Build Path ☐ User Library  
OR  
Right click on Project ☐ Build Path ☐ Add Library ☐ User Library
    - ii. Select Java Fx if available  
OR  
New ☐ Enter a Name for the library ☐ Add External Jars ☐ Go to the “**lib**” folder of Java FX installed folder and add all jar files.
  - b. IntelliJ
    - i. File ☐ Project Structure ☐ click ‘+’ ☐ select java ☐ Browse to the **lib** folder of JavaFX SDK. ☐ Click OK buttons in the “Choose Modules” pop-up window.
3. Add VM Arguments under “Run Configuration”
  - a. Eclipse  
Access “Run Configuration” from **Run menu** or **right click ☐ Run As ☐ Run Configuration**. Add the following line under **Arguments** tab as VM Configuration. Here path is the folder where you have extracted/installed your JavaFX.

```
--module-path "\pathto javafx-sdk-11\lib" --add-modules javafx.controls,javafx.fxml
```



b. IntelliJ

Add VM Arguments under “Run Configuration”

Run ☐ edit configuration ☐ VM options

If VM option is not available click “Modify Option ☐ Add VM options”

4. Run the project

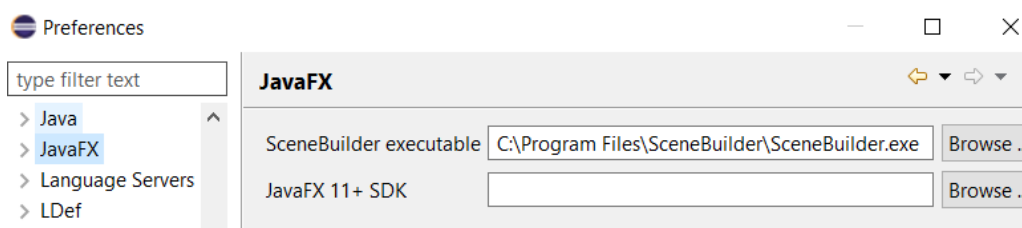
## With SceneBuilder

5. Add a new FXML file.

6. Configure Scenebuilder (Will not be available if you have not installed item 3 under “Required Installation” section)

a. Eclipse

Click Window ☐ Preferences ☐ Select JavaFX item ☐ Add SceneBuilder executable file location.



b. IntelliJ

Click File ☐ Settings ☐ Expand “Language & Frameworks” ☐ Select JavaFX ☐ Path to ScenenBuilder (should include the .exe file as well)

Or

Right click an fxml file ☐ Open In Scenebuilder ☐ Select the Scenebuilder.exe

7. Right click on the fxml file and click “Open with/In SceneBuilder”

8. Follow the steps of the tutorials at the beginning of this section.

## More tutorials

javaFX tutorial (concepts): <https://www.youtube.com/watch?v=j1wauUbMJ3w>

javFX stage - <https://www.youtube.com/watch?v=As7TEjqJ3Ao>

javFx event handling- <https://www.youtube.com/watch?v=opLZZ8UCcTY>

## Known Issue

- 1) Might have version conflicts. Download and install the latest versions of everything.
- 2) If you are having issues with creating/opening FXML documents, follow the steps mentioned in the link below (a screenshot of the section is also added below).

<https://stackoverflow.com/questions/74758570/cant-create-new-fxml-file-in-eclipse>

