

Installation



Intellⁱ IDEA New

We're committed to giving back to our wonderful community, which is why Intellij IDEA Community is completely free to use

יו Intell וווווו IDEA Community Edition

The IDE for pure Java and Kotlin development



File structures

- Create an IntelliJ project -> contains all your projects (each project is called a module in IntelliJ).
- Then create an IntelliJ module for each of your project.
- You can create package, class, etc.

- Beware
 - Dragging files to IntelliJ Module folder will move files (not copy).
 - Try copy/paste instead if you don't want to lose your work.

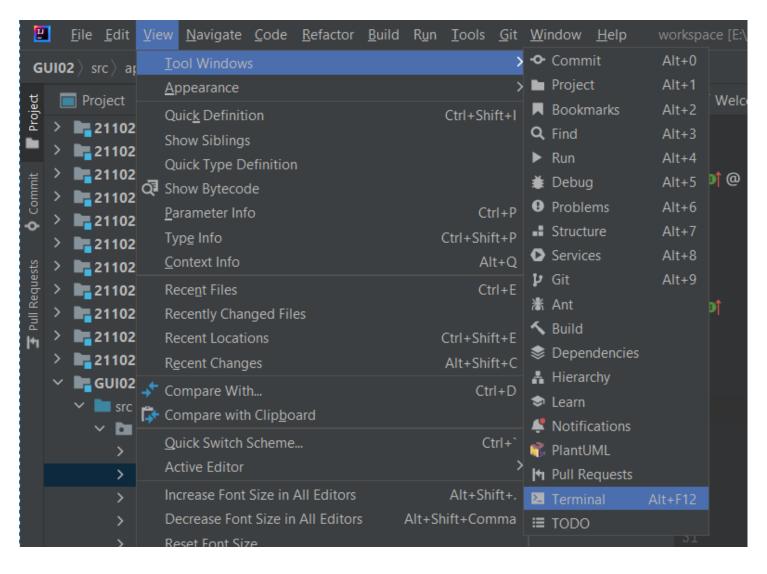
Hot Keys

- Code completion -> Enter
- Search anything -> Shift and then Shift
- Change Mode -> Choose "View -> Appearance" from the menu
 - There is a presentation mode!
- Zoom -> Shift + Alt + + or Shift + Alt + -
- Fix -> Alt + Enter, use F2/Shift + F2 to move to next/previous problem
- format code -> Ctrl + Alt + L
- Use sout to do System.out.println()

IntelliJ normally needs all files to compile in order to run a file in the same module

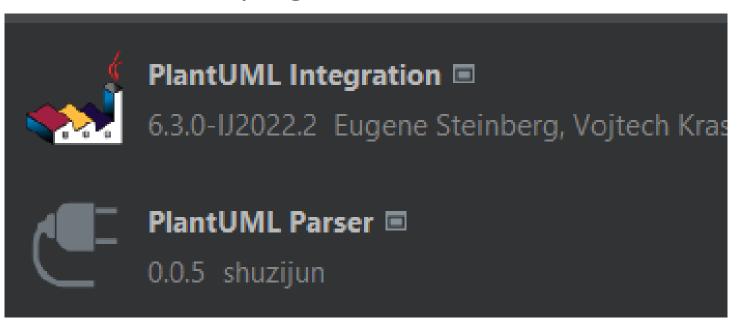
- Must make all files compiled.
- Eclipse compiler (compile all files while editing) is not available for Java version 19 or higher (sadly).
 - IntelliJ can compile only 1 file while editing (so you may not see errors on other dependent files).

How to open a Console window (if not open)

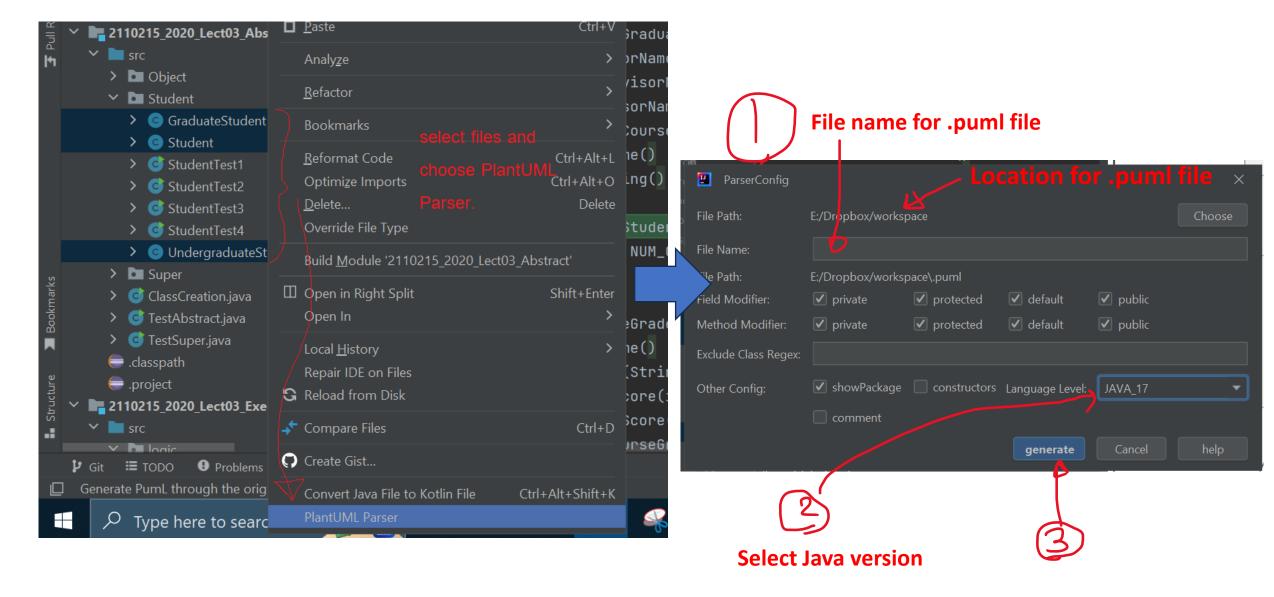


UML Generation

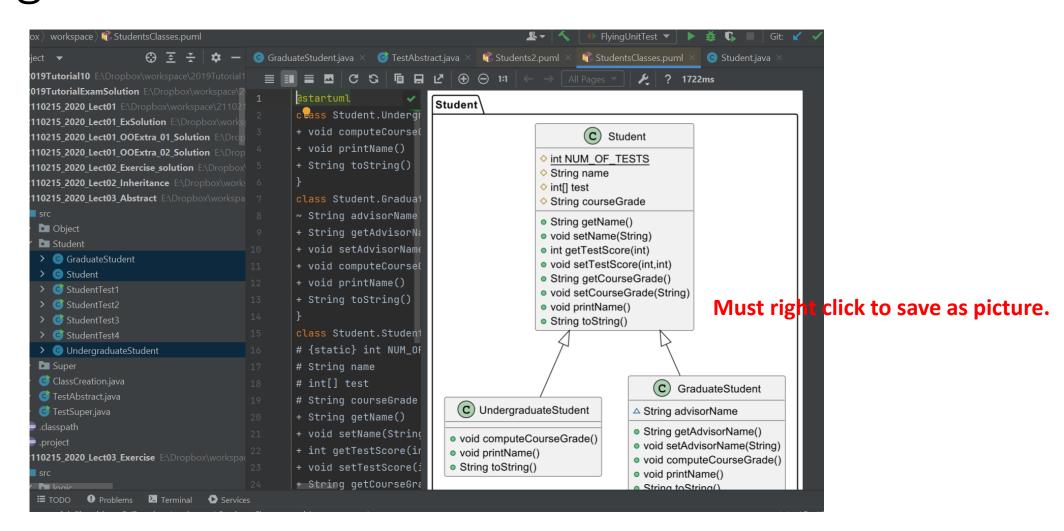
• Just install these plug-in:



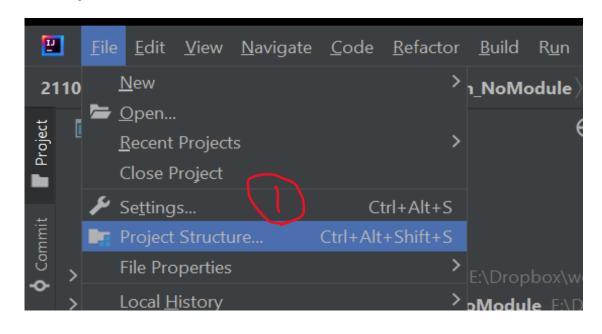
When you want to generate UML:

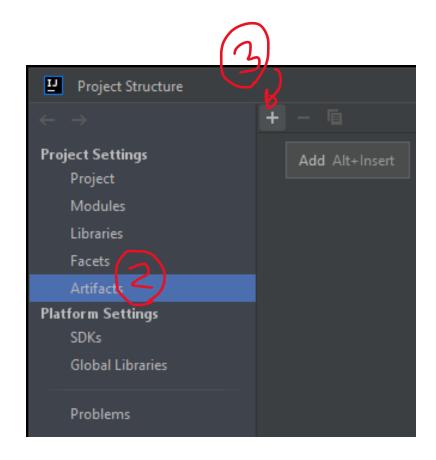


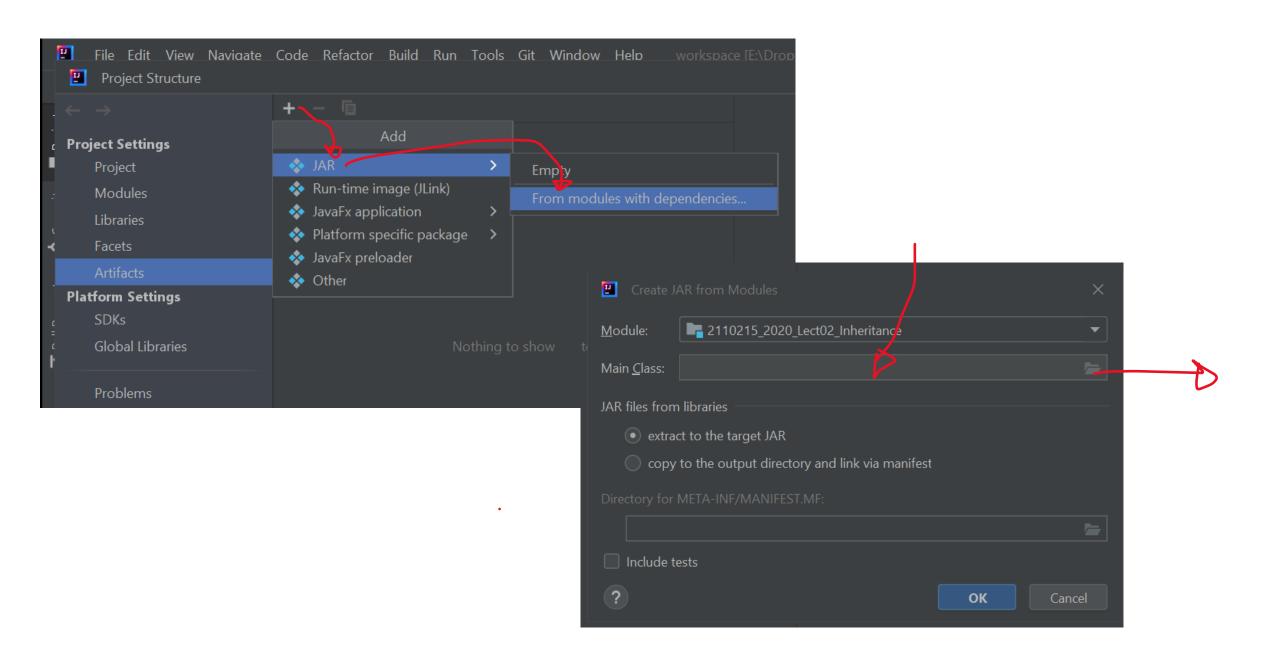
A UML Panel will emerge! Showing the diagram

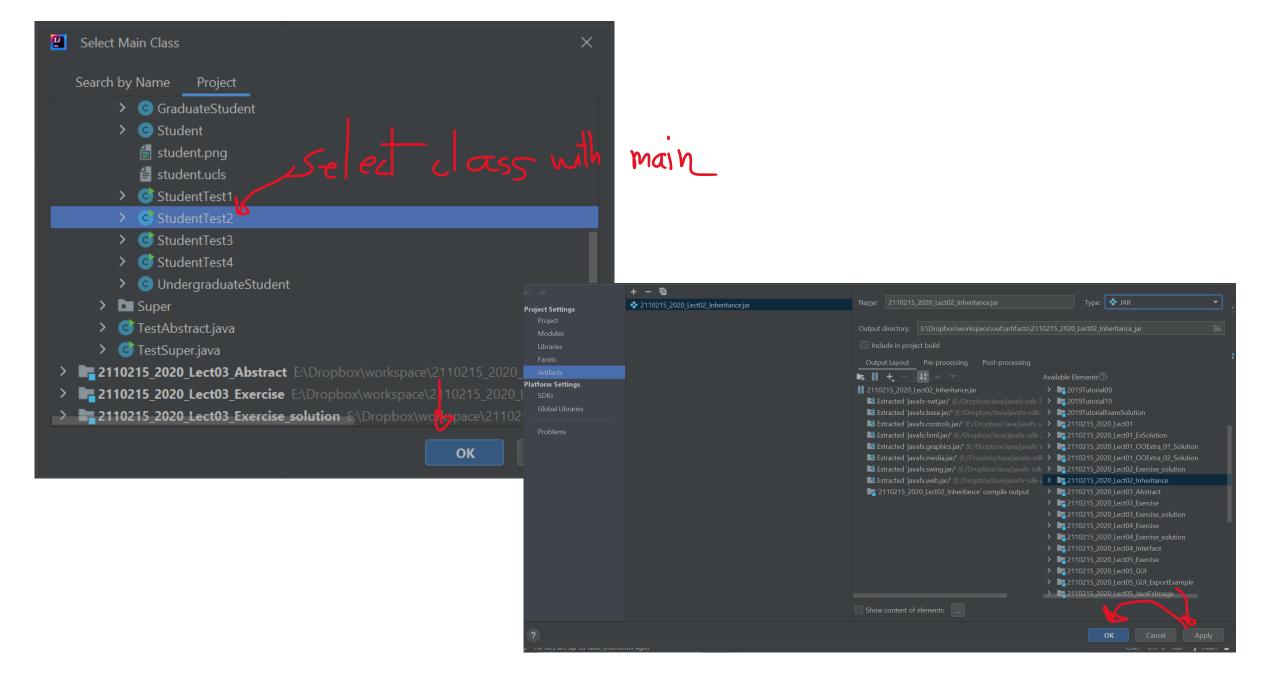


How to export jar file (setting, the actual export is done later)

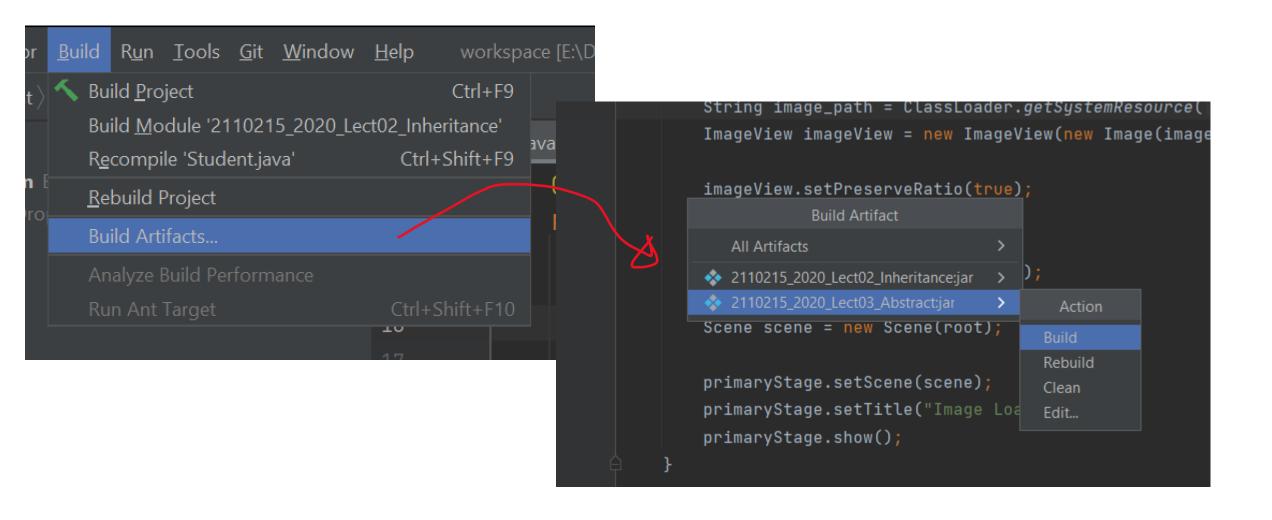




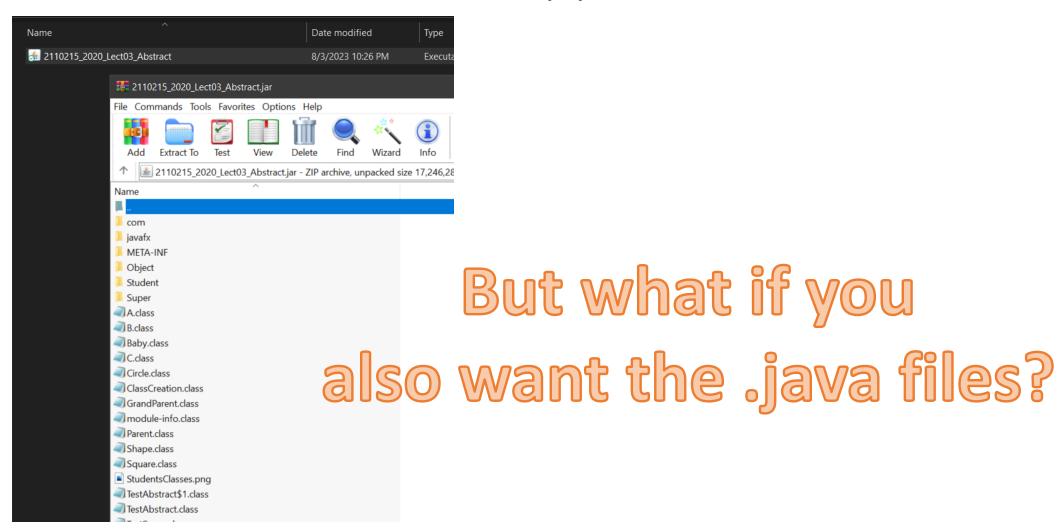




Now do the actual export

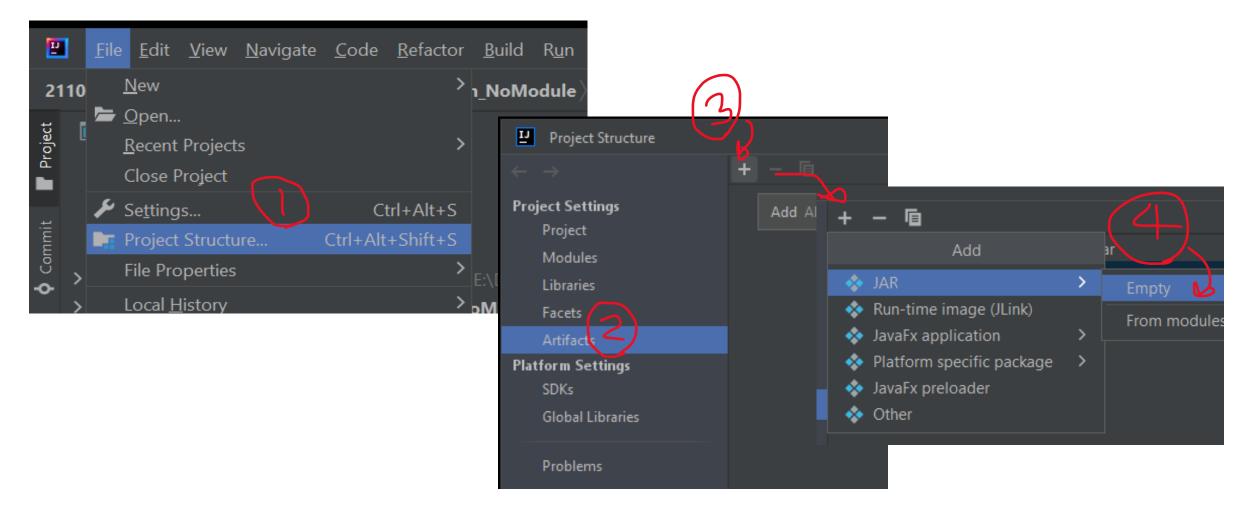


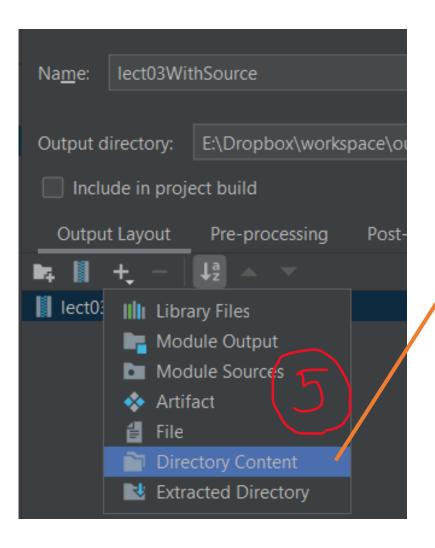
All class files will be zipped!



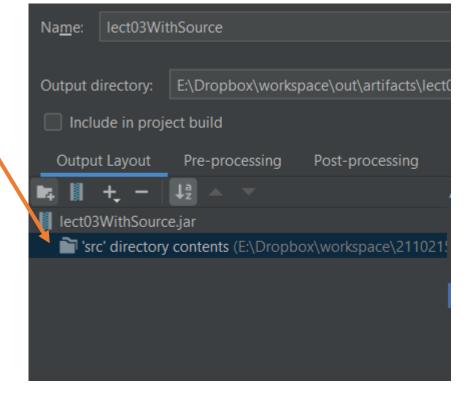
To include .java files in JAR

Make custom artifact configuration.

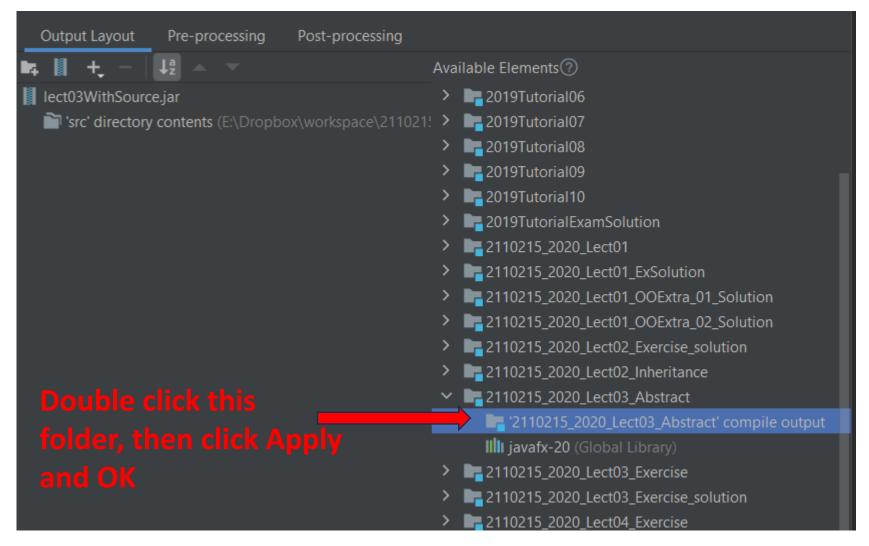




Choose src folder, it will then show.



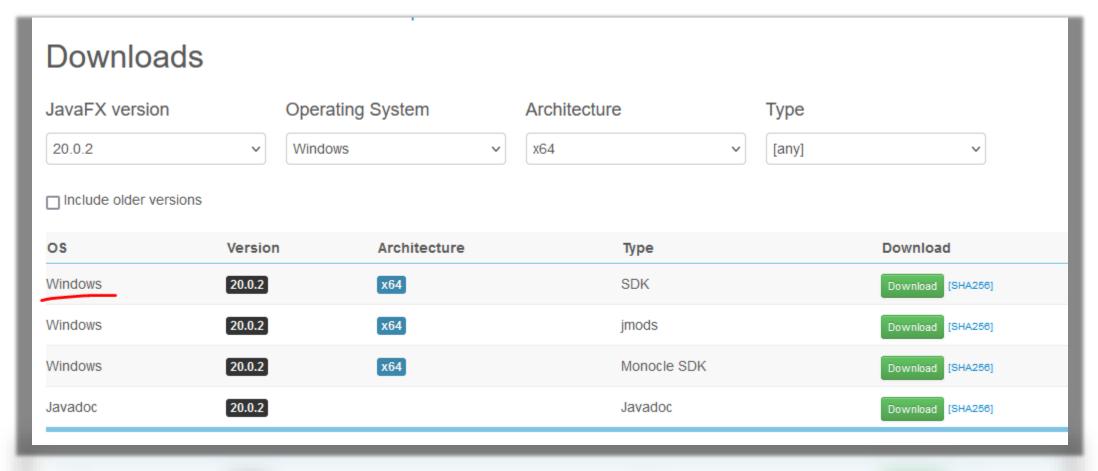
But you'll have to select .class files too



Now when you build JAR, It will contain both .java and .class (but you must make sure all files are compiled because IntelliJ does not compile some files unless you explicitly do it)

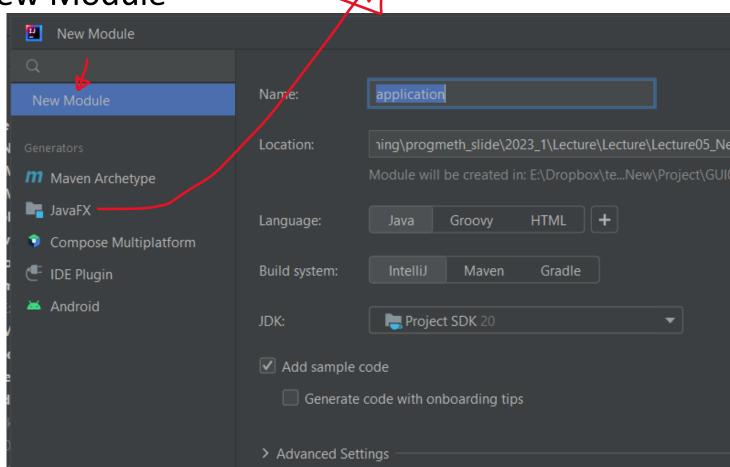
javaFX

• First, download it from https://gluonhq.com/products/javafx/ and unzip to any folder you like.

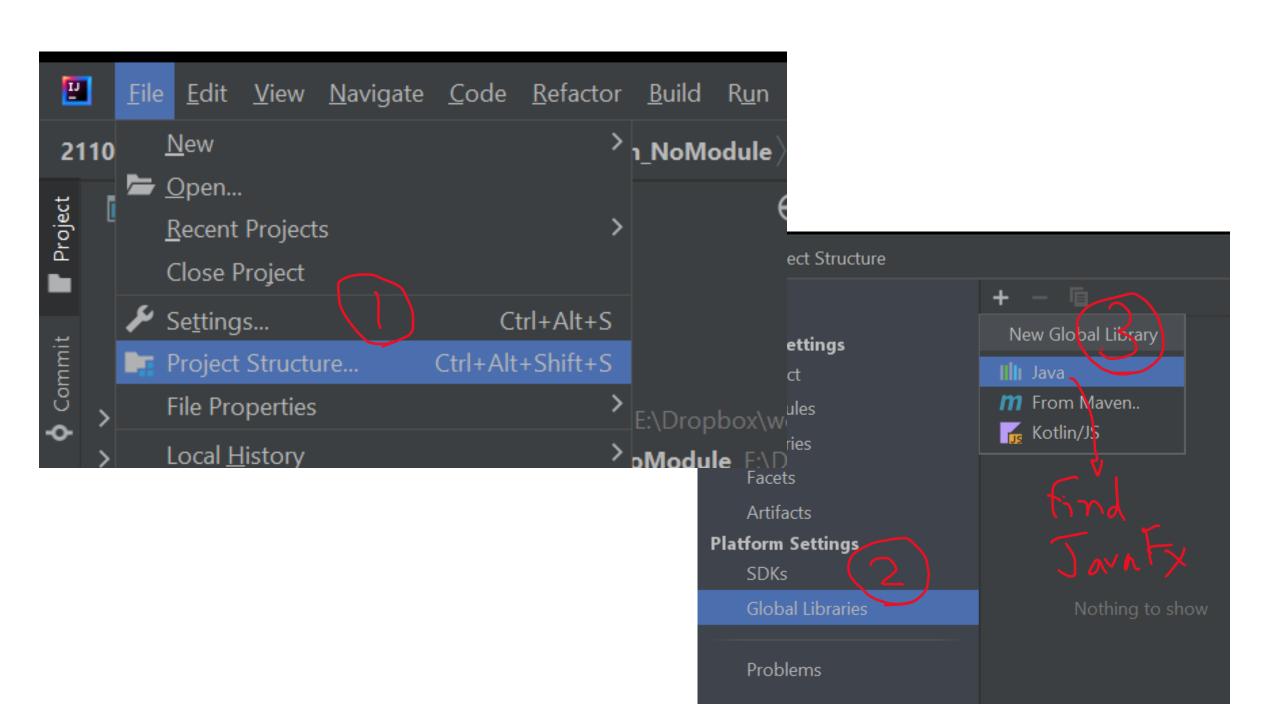


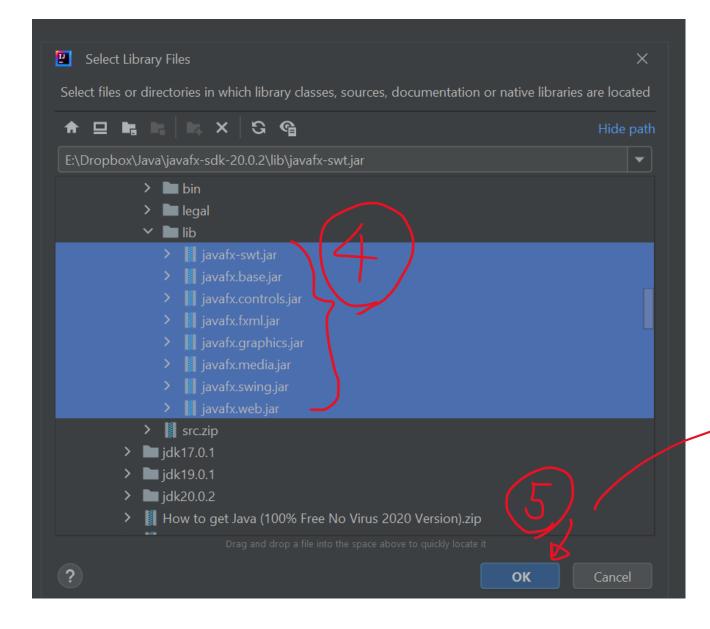
How to create a Java (including JavaFX) project Do not choose this. The system will lock only 1 file to

• File- > New Module



Be runnable if you choose this.



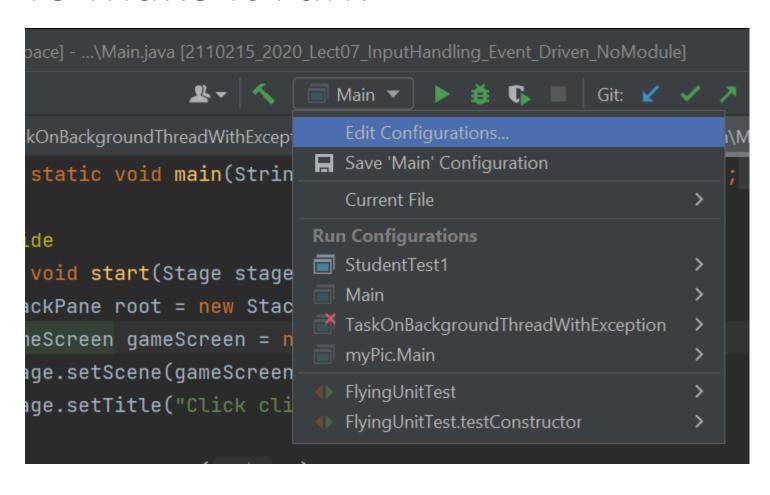


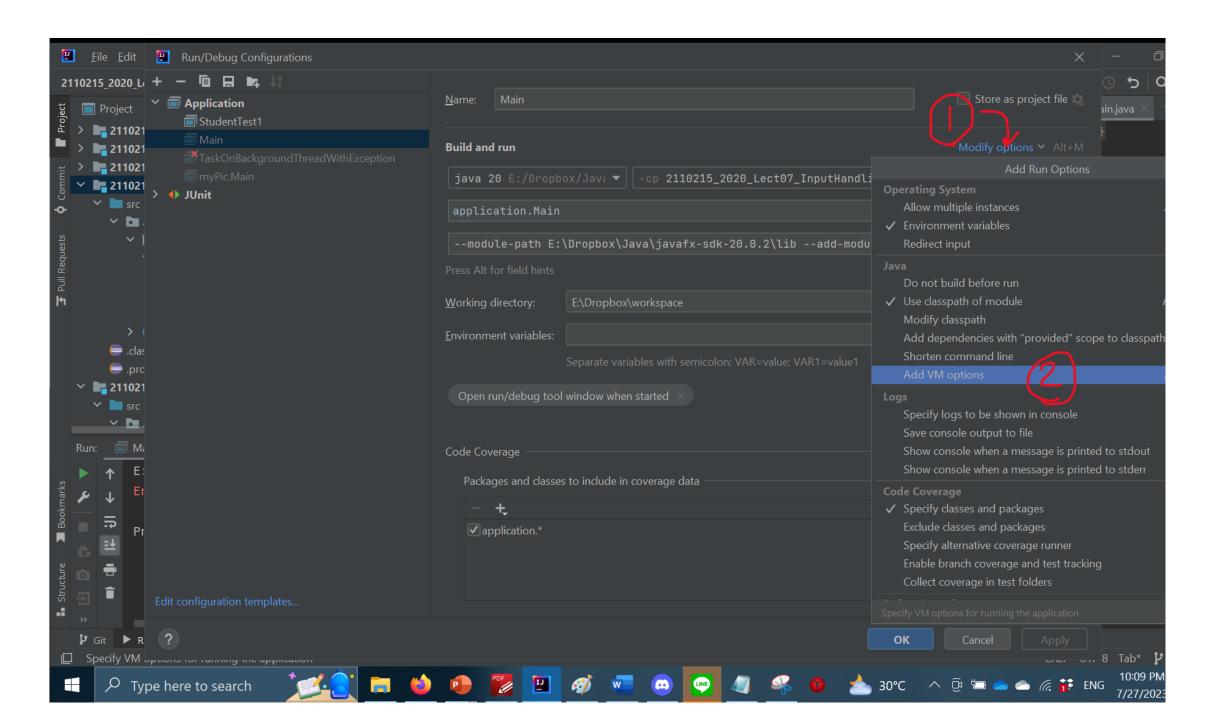


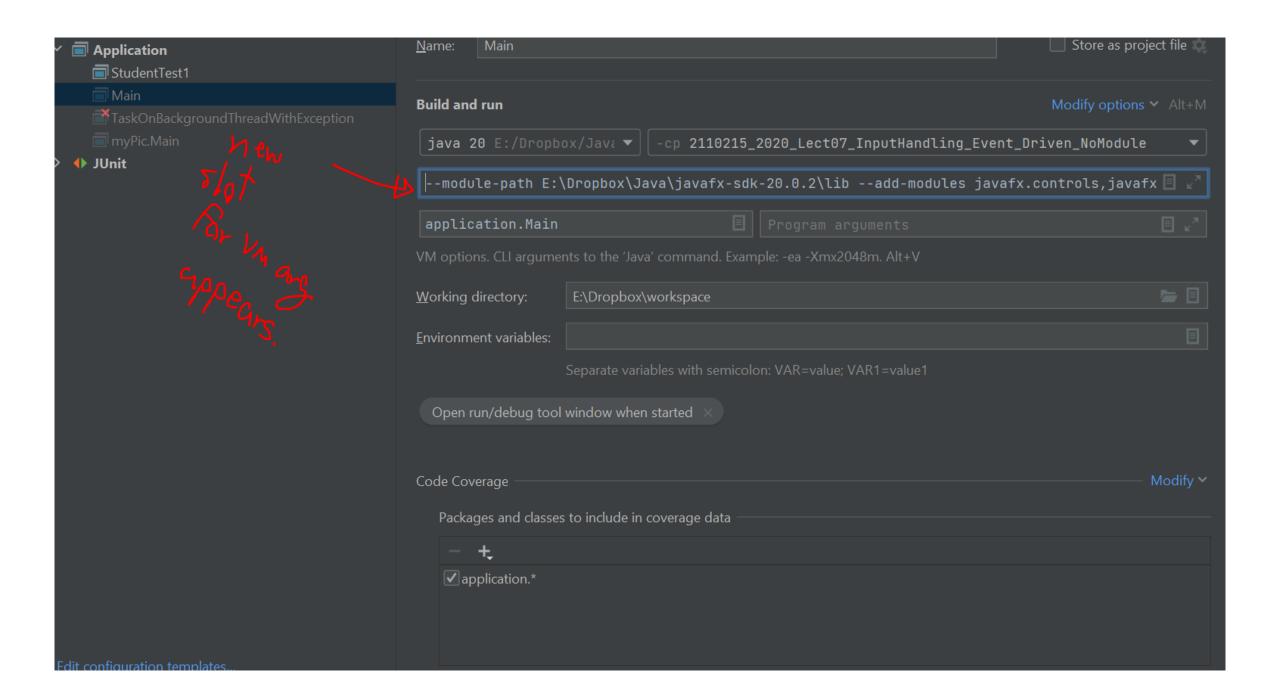
Choose modules you want to apply JavaFx

NOW JavaFX compiles, but still won't run!!

To make it run!







Fill the slot with the following argument and click Apply!

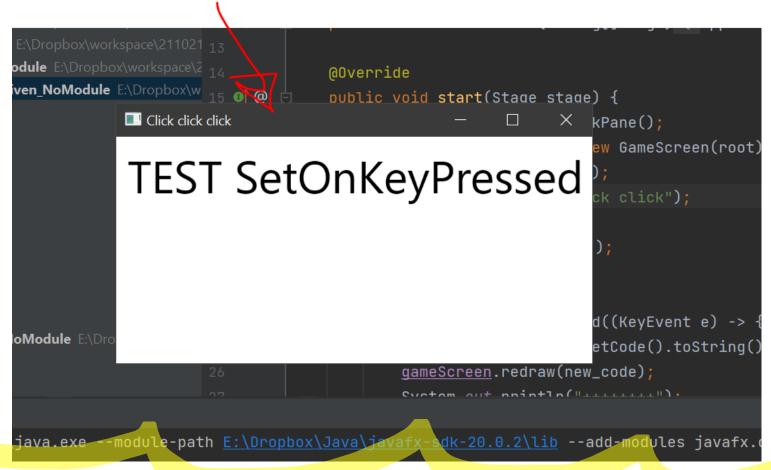
Example:

Path to lib folder

-module-path E:\Dropbox\Java\javafx-sdk-20.0.2\lib --add-modules javafx.controls,javafx.fxml,javafx.graphics,javafx.media

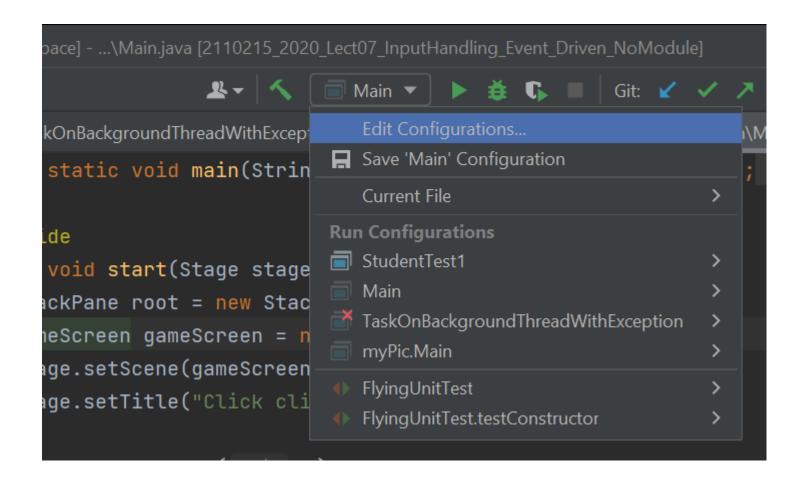
Standard Picture
Sorme

It runs now!!



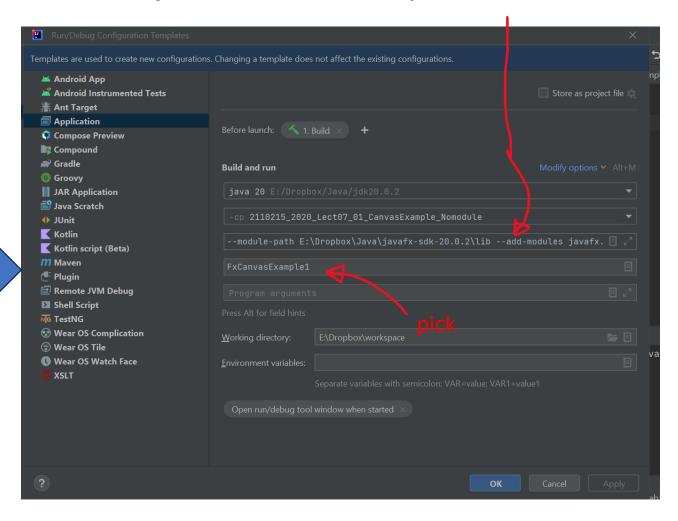
But you have to set run configuration for each main (a lot to do if you have many JavaFx modules)

How to set a common run config.

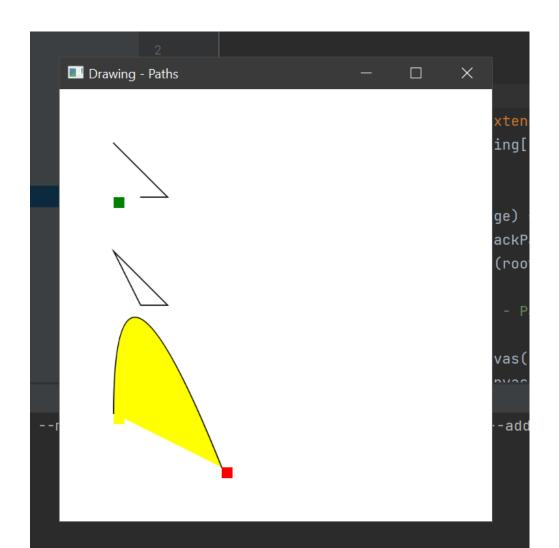




Set it just like the one you did before!!

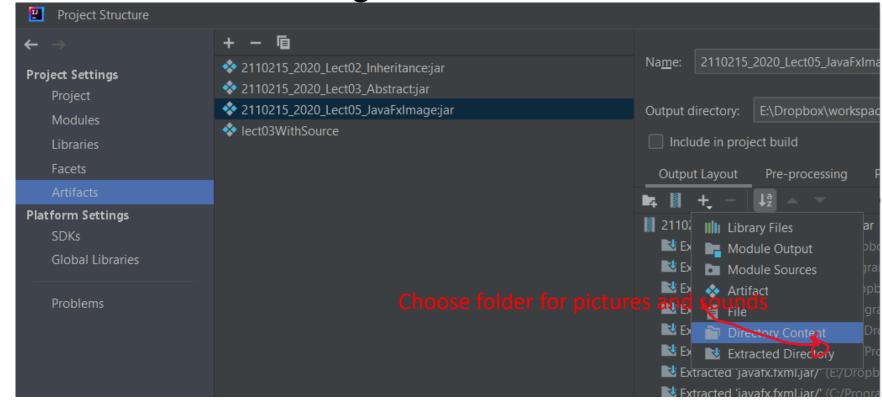


Now you can run any file!



How to export JavaFx JAR file (with resources)!

- Do it just like a normal export.
- But after choosing the main class ->



After this step, you can build artifact normally.

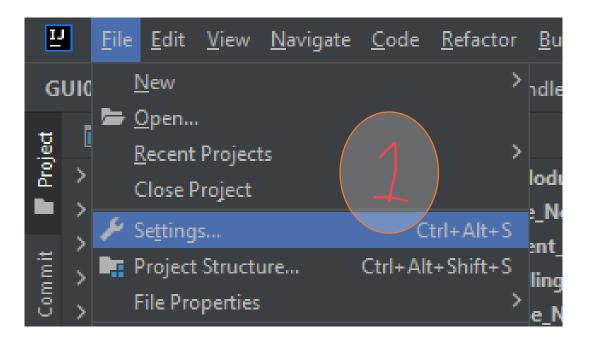
Then you can run JAR file

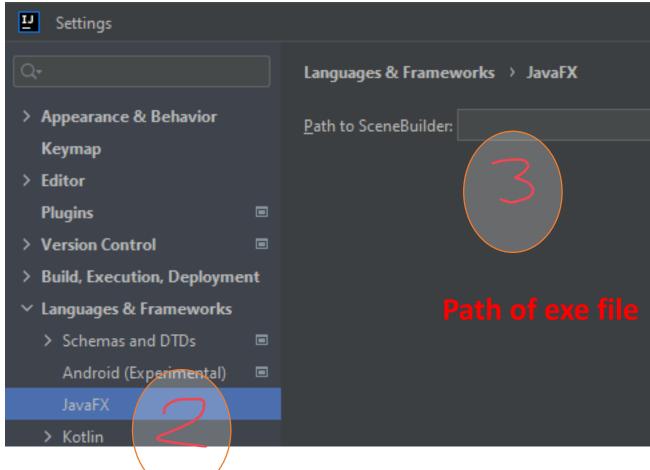


E:\Dropbox\workspace\out\artifacts\2110215_2020_Lect05_JavaFxImage_jar>java -jar --module-path "E:\ Dropbox\Java\javafx-sdk-20.0.2\lib" --add-modules javafx.controls,javafx.fxml,javafx.graphics,javaf x.media 2110215_2020_Lect05_JavaFxImage.jar

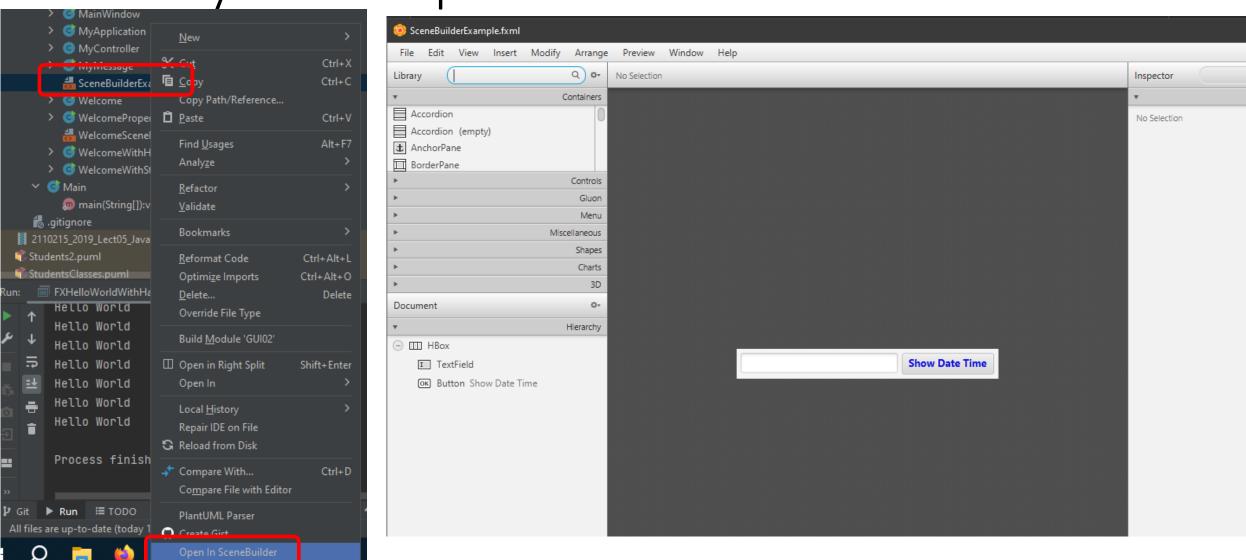
SceneBuilder

After SceneBuilder is installed,





Now you can open fxml file in SceneBuilder



How to export runnable jar with SceneBuilder file

- Just export like any other JavaFX module.
- As long as you included .fxml file with class files, it will run.