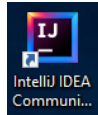


Software Requirement for COMP2059, AY24-25

For all lab sessions of this module, as well as the coursework, you are required to use the following software installed in the lab room IAMET409. Their specifications are listed below:



1. IntelliJ IDEA version 2024.1.4

- This is the Java Integrated Development Environment (IDE) for you to program. It is already installed in the lab PCs.
- To install it to your own machine, download it [here](#) (Note: use the Community Version). Tick “Add launchers dir to the PATH”, during installation.

2. Java Development Kit (JDK) version 22.0.1

- It’s installed in the lab PCs. If you would like to check the JDK version in a lab



PC, click the windows icon , type “Command Prompt”, and open it.

Then enter “java -version”. You can check the information shown below.

```
C:\> Command Prompt

Microsoft Windows [Version 10.0.19045.4717]
(c) Microsoft Corporation. All rights reserved.

C:\Users\z2019078>java -version
java version "22.0.1" 2024-04-16
Java(TM) SE Runtime Environment (build 22.0.1+8-16)
Java HotSpot(TM) 64-Bit Server VM (build 22.0.1+8-16,
```

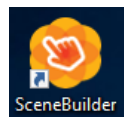
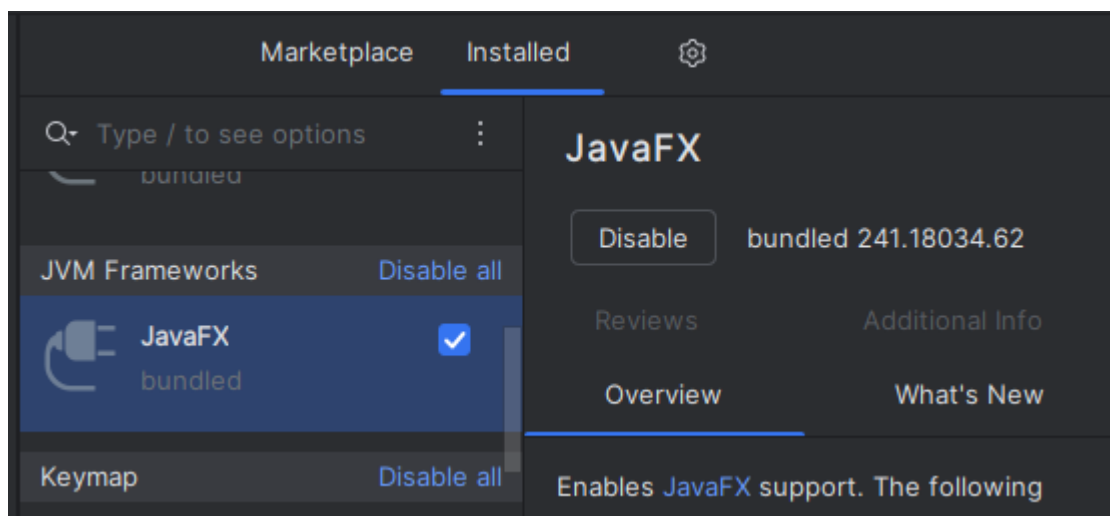
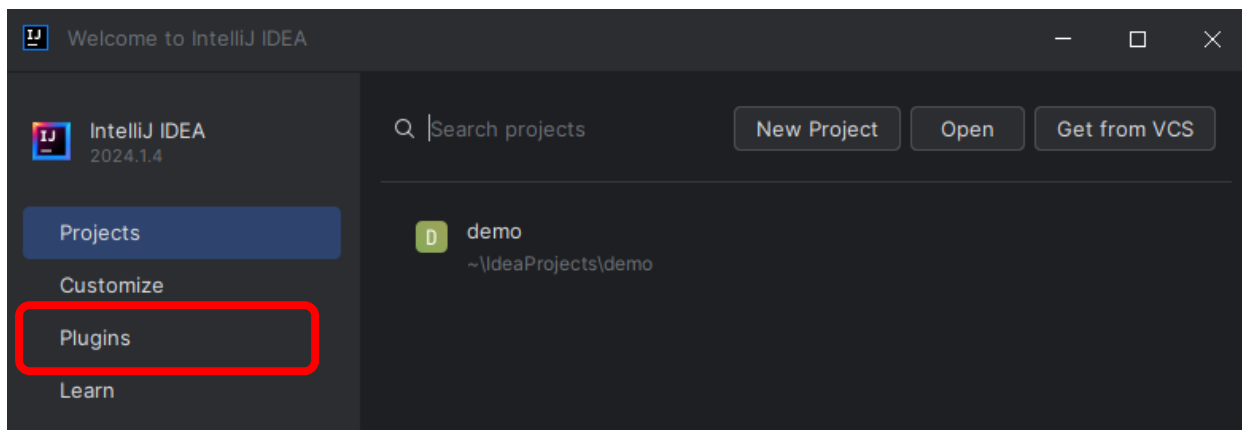
- To download this JDK to your own machine, go to [Oracle website](#) and find the correct version to install.

3. JavaFX Software Development Kit (JavaFX SDK)

- This SDK contains all necessary libraries for a JavaFX project, which you will need for your coursework. It is pre-installed with IntelliJ v2024.1.4. To check it, open the IntelliJ, and in its starting page, click “Plugins”, then “installed”. Scroll down the list and find “JavaFX” available. Note: keep the blue tick on



, so that it is enabled.



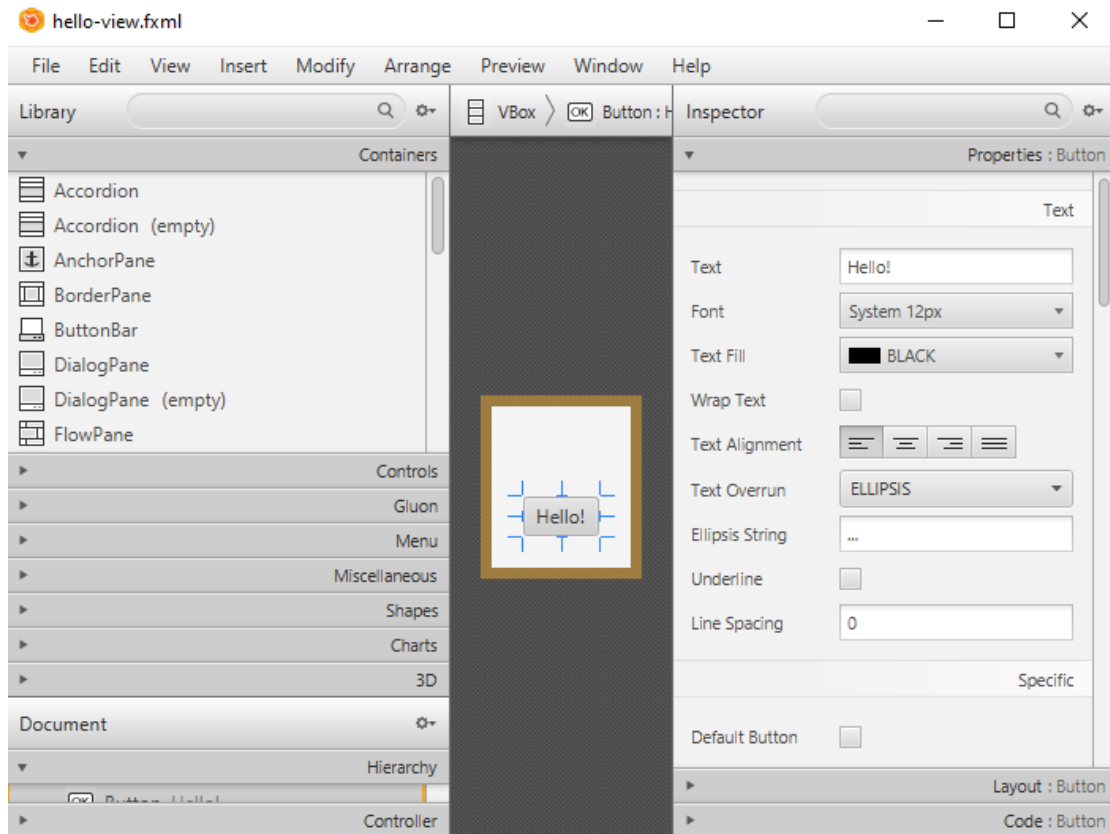
4. SceneBuilder

- This is a software assisting you to make a JavaFX project. It's already installed in the lab PC in the C drive (C:\SceneBuilder).
- However, your IntelliJ may not know where it is in the system, so you need to manually configure it. To do so, refer to Point 5(b) below.
- In case you want to install it in your own machine, download from [here](#).

5. Test the installations:

With the above installations, test whether they work properly.

- Create a new JavaFX project – follow ALL the instructions in <https://www.jetbrains.com/help/idea/javafx.html> (select version 2024.1)
- In the JavaFX project above, configure the JavaFX Scene Builder – follow ALL the instructions in <https://www.jetbrains.com/help/idea/opening-fxml-files-in-javafx-scene-builder.html> (select version 2024.1). Note that we are using SceneBuilder version 1.X, then if you can open the SceneBuilder view shown below **from within your JavaFX project**, then it's all set now. We will look at more details on SceneBuilder around Week 7.



If you have no issue with all the above procedures, you may proceed to the Lab 1 manual.

Further Notes:

In this document we provide the software requirement on Windows 10 OS. Working on your MacOS is equally fine provided that they are installed successfully. Installation on MacOS follows similar procedure. If you have any issues installing the software on Mac or Windows, or other PC/OS types, feel free to let us know by reporting in the “Q&A” section in the Moodle page or visiting our offices.

Also, please note that the software versions that we adopt in this module may not be the latest, just to benefit from the stability of older versions. If you would like to try the newer versions, feel free to do so. But please pay attention to the requirements of the coursework, and make sure your versions can work on our computers when we evaluate your coursework submissions.

For your reference, find our previously recorded video for the installation instructions of the software in Moodle page. Note that the installation details may have changed since that video, but the installation procedures remain roughly the same.

Consult Dr. Heng or Lab TAs if you encounter a problem.