Step 1: Download Java Jdk

OpenJDK 11: https://jdk.java.net/11/

 Select OpenJDK corresponding to your OS and download it, we take Windows version as example, the compressed file name is "openjdk-11.0.2_windows-x64_bin.zip".

jdk.java.net

GA Releases

JDK 11

Early-Access Releases

JDK 13 JDK 12 Jpackage OpenJFX Panama Valhalla JMC

Reference Implementations

Java SE 11 Java SE 10 Java SE 9 Java SE 8 Java SE 7

Feedback Report a bug

Archive

JDK 11.0.2 General-Availability Release

This page provides production-ready open-source builds of the Java Development Kit, version 11.0.2, an implementation of the Java SE 11.0.2 Platform under the GNU General Public License, version 2, with the Classpath Exception.

Commercial builds of JDK 11.0.2 from Oracle under a non-open-source license, for a wider range of platforms, can be found at the Oracle Technology Network.

Documentation

- Features
- Release notes
- API Javadoc
- Tool & command reference

Builds

Linux/x64 tar.gz (sha256) 187513052 bytes macOS/x64 tar.gz (sha256) 182670822 Windows/x64 zip sha256) 187383323

Notes

- The Alpine Linux build previously available on this page was removed as of JDK 11 GA. It's not production-ready because it hasn't been tested thoroughly enough to be considered a GA build. Please use the earlyaccess JDK 12 Alpine Linux build in its place.
- To obtain the source code for these builds, clone the JDK 11.0.2 Mercurial repository and update to the tag jdk-11.0.2-ga.
- If you have difficulty downloading any of these files please contact jdkdownload-help_ww@oracle.com.

Feedback

If you have suggestions or encounter bugs, please submit them using the usual Java SE bug-reporting channel. Be sure to include complete version information from the output of the java --version command.

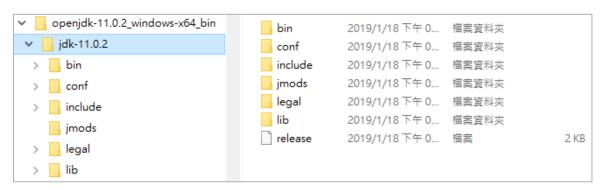
International use restrictions

Due to limited intellectual property protection and enforcement in certain countries, the source code may only be distributed to an authorized list of countries. You will not be able to access the source code if you are downloading from a country that is not on this list. We are continuously reviewing this list for addition of other countries.

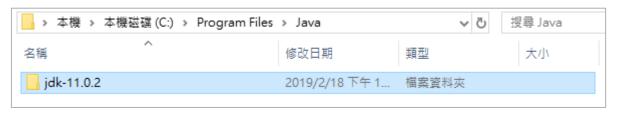


Step 2: Install Java Jdk

• Extract the file and you can see following archive structure.



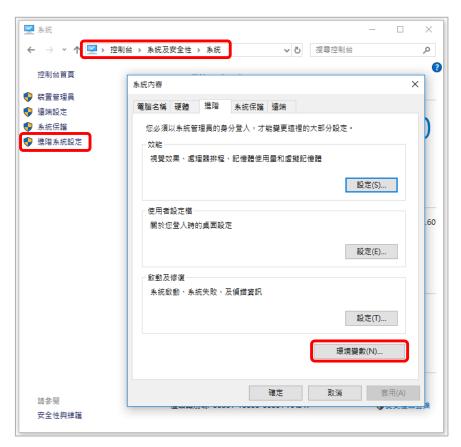
 Create a folder "Java" in "C:\Program Files" and put "jdk-11.0.2" in this folder as following figure.

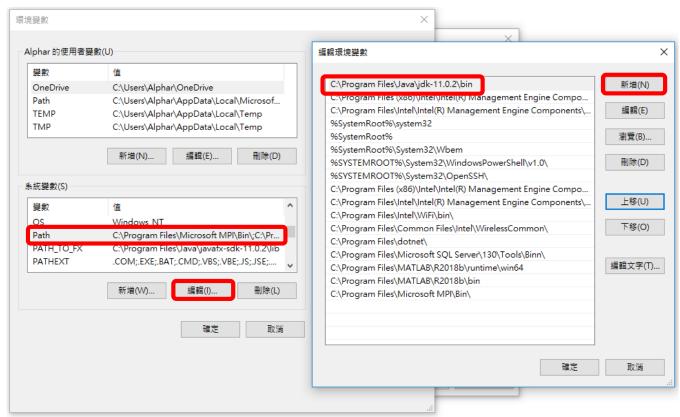


Step 3: Path Setting

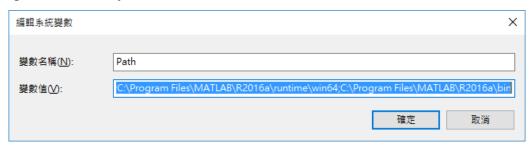
 Add environment variable in "Path" with value "C:\Program Files\Java\jdk-11.0.2\bin" shown as following figures, and move it to the first position.

(控制台\系統及安全性\系統 ->進階系統設定 -> 環境變數)





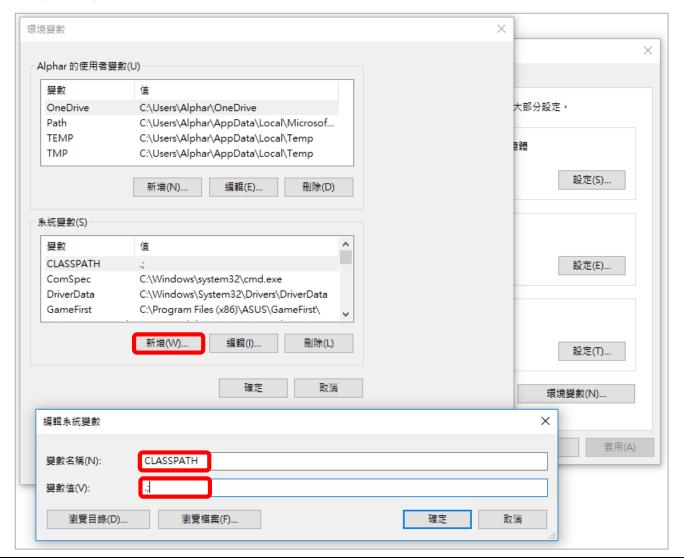
Note: If your system show as follows, do not delete the original text, first append ";", and then add "C:\Program Files\Java\jdk-11.0.2\bin" in the end.



● Click "新增" and add following new environment variable.

變數名稱: CLASSPATH

變數值::;



Step 4: Testing

Execute "powershell" shown as follows.
 (or press "window key" + "R" and input "powershell")



• Input "javac" and "java", if following results are shown, the installation is successful.

```
Windows PowerShell
                                                                                                                                                                                                                                                             \times
PS C:\Users\Alphar> <mark>java</mark>
|sage: java [options] <mainclass> [args...]
   Arguments following the main class, source file, -jar <jarfile>, -m or --module <module>/<mainclass> are passed as the arguments to
main class.
where options include:
       -cp <class search path of directories and zip/jar files>
      -class search path of directories and zip/jar files>
-class-path <class search path of directories and zip/jar files>
-class-path <class search path of directories and zip/jar files>
A; separated list of directories, JAR archives, and ZIP archives to search for class files.
       -p <module path>
     -p <module path>
--module-path <module path>...

A; separated list of directories, each directory
is a directory of modules.
--upgrade-module-path <module path>...

A; separated list of directories, each directory
is a directory of modules that replace upgradeable
modules in the runtime image
--add-modules <module name>[,<module name>...]
root modules to resolve in addition to the initial module.

<module name> can also be ALL-DEFAULT, ALL-SYSTEM,
ALL-MODULE-PATH.
--list-modules
       --list-modules
                                      list observable modules and exit
       -d <module name>
       --describe-module <module name>
                                      describe a module and exit create VM and load main class but do not execute main method. The --dry-run option may be useful for validating the command-line options such as the module system configuration.
       --dry-run
       --validate-modules
                                      validate all modules and exit
The --validate-modules option may be useful for finding
conflicts and other errors with modules on the module path.
       -D<name>=<value>
       set a system property
-verbose:[class|module|gc|jni]
enable verbose output
                                      print product version to the error stream and exit
print product version to the output stream and exit
print product version to the error stream and continue
       -showversion
```

Step 5: First Java Code

 Create one file named "HelloWorld.java" in a folder. Note that the extension name is "java".



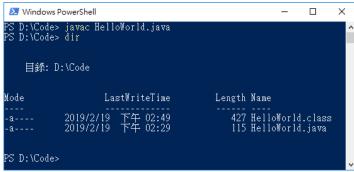
• Use any plain text editor to edit the file "HelloWorld.java" and key in following code.

```
public class HelloWorld{
   public static void main(String args[]) {
        System.out.println("Hello World!!");
   }
}
```

 Press "Shift" and right click the mouse in the same folder, and open "PowerShell" (new Windows version) or "命令提示字元" (old Windows version).



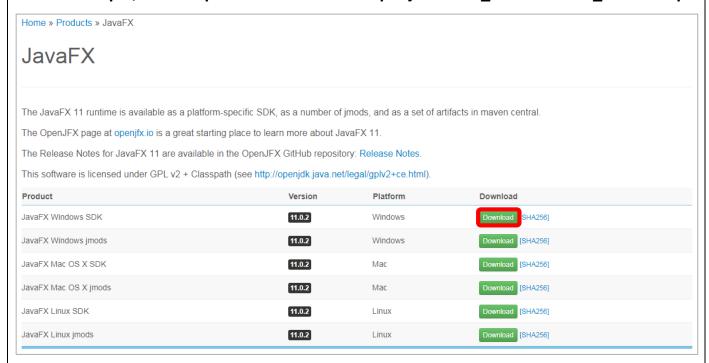
 Input "javac HelloWorld.java" to compile the code, and you can find it generates HelloWorld.class in the same folder.



Step 6: Download JavaFX

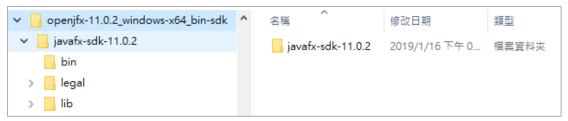
JavaFX 11: https://gluonhq.com/products/javafx/

 Select JavaFX corresponding to your OS and download it, we take Windows version as example, the compressed file name is "openjfx-11.0.2_windows-x64_bin-sdk.zip".

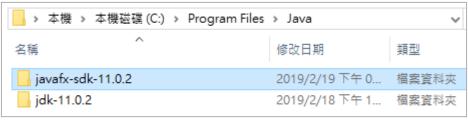


Step 7: Install JavaFX

Extract the file and you can see following archive structure.



Put "javafx-sdk-11.0.2" in the same folder as jdk-11.0.2.

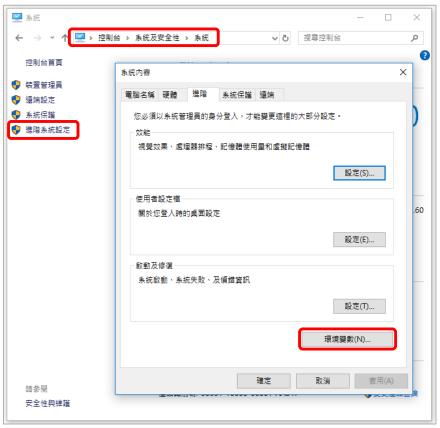


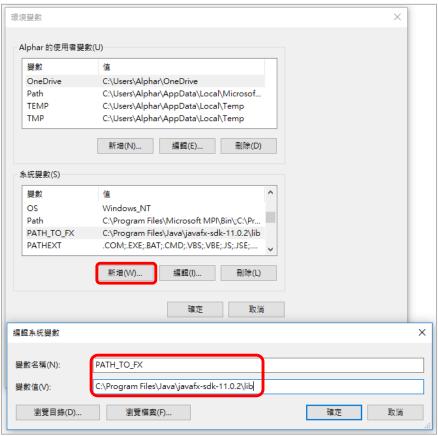
Step 8: Path Setting for JavaFX

Add new environment variable as follows.

變數名稱: PATH_TO_FX

變數值: C:\Program Files\Java\javafx-sdk-11.0.2\lib





Step 9: First JavaFX Code

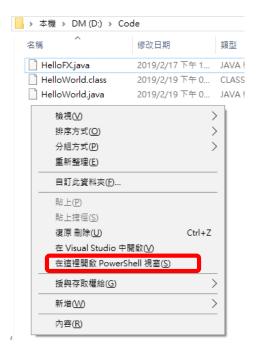
• Create one file named "HelloFX.java" in a folder. Note that the extension name is ".java".



• Use any plain text editor to edit the file "HelloFX.java" and key in following code.

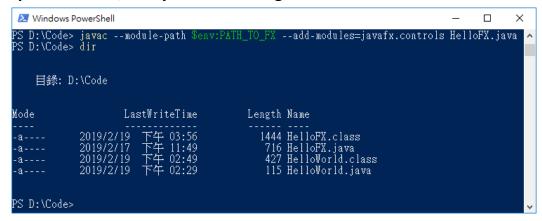
```
import javafx.application.Application;
import javafx.scene.Scene;
import javafx.scene.control.Label;
import javafx.scene.layout.StackPane;
import javafx.stage.Stage;
public class HelloFX extends Application {
   @Override
   public void start(Stage stage) {
      String javaVersion = System.getProperty("java.version");
      String javafxVersion = System.getProperty("javafx.version");
      Label 1 = new Label("Hello, JavaFX " + javafxVersion + ", running on Java " + javaVersion + ".");
      Scene scene = new Scene (new StackPane(1), 640, 480);
      stage.setScene(scene);
      stage.show();
   }
   public static void main(String[] args) {
      launch();
```

 Press "Shift" and right click the mouse in the same folder, and open "PowerShell" (new Windows version) or "命令提示字元" (old Windows version).



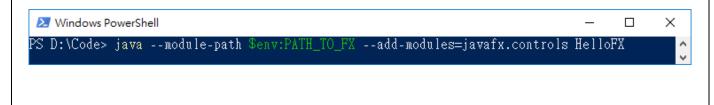
Input

Javac --module-path \$env:PATH_TO_FX --add-modules=javafx.controls HelloFX.java to compile the code, and you can find it generates HelloFX.class in the same folder.



Input

java --module-path \$env:PATH_TO_FX --add-modules=javafx.controls HelloFX to run the program and you can see following result.





You can refer to following web page for all classes of java jdk 11.

API Javadoc for JDK11:

https://docs.oracle.com/en/java/javase/11/docs/api/index.html