

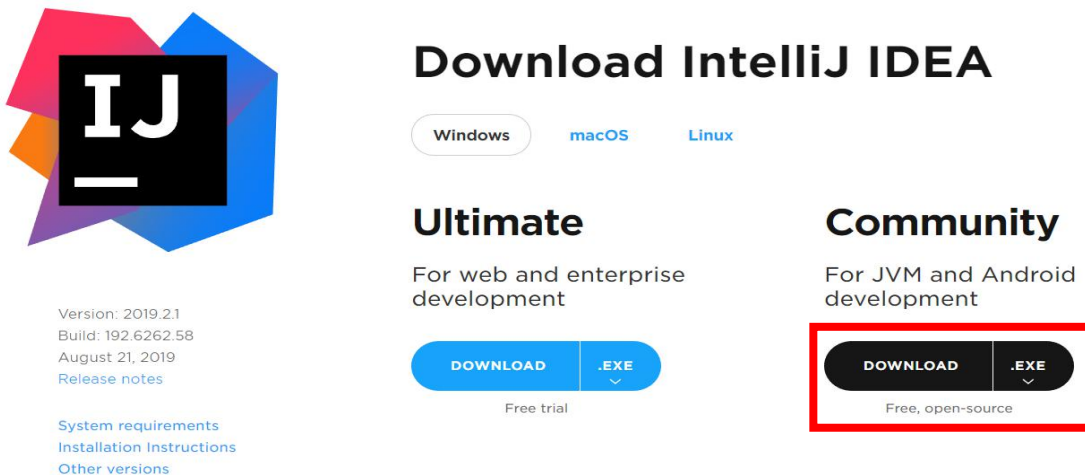
Tutorial for Setting the Framework

Requirements

1. IntelliJ Idea Community Edition
2. Internet access

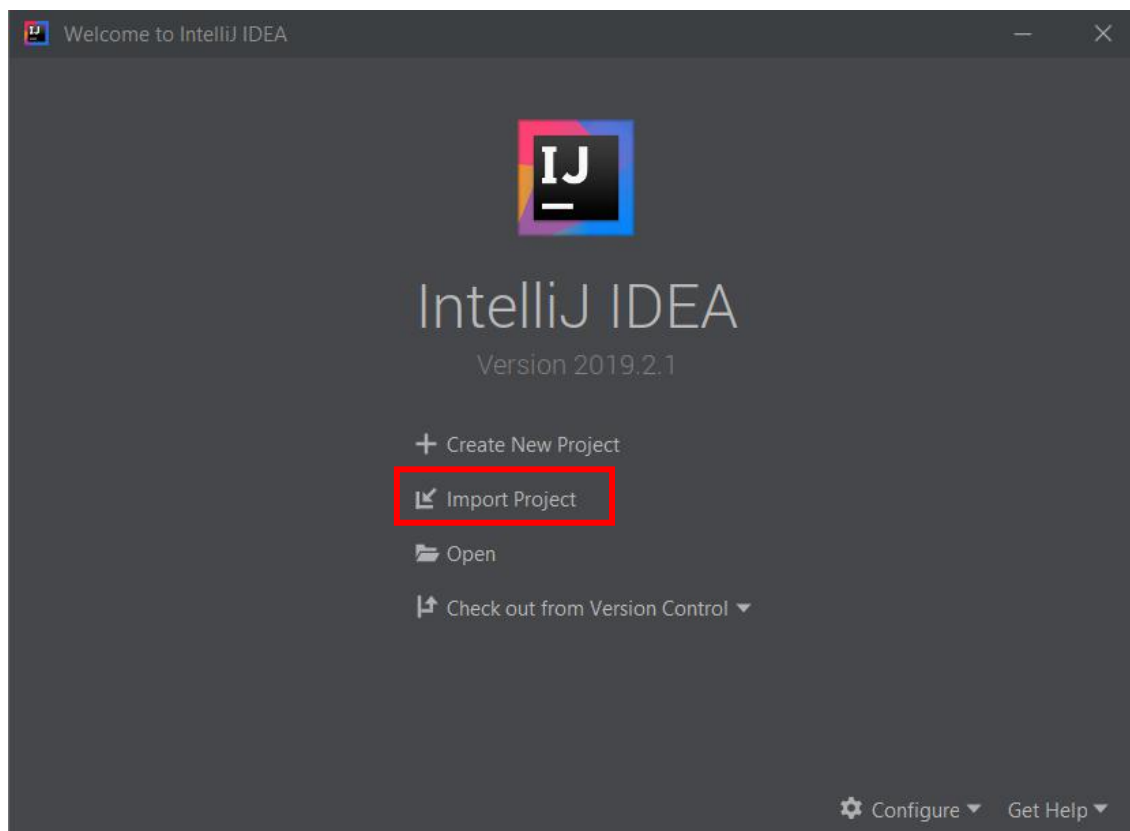
Steps

1. Go to [IntelliJ Idea download page](#) and download the community edition of the software

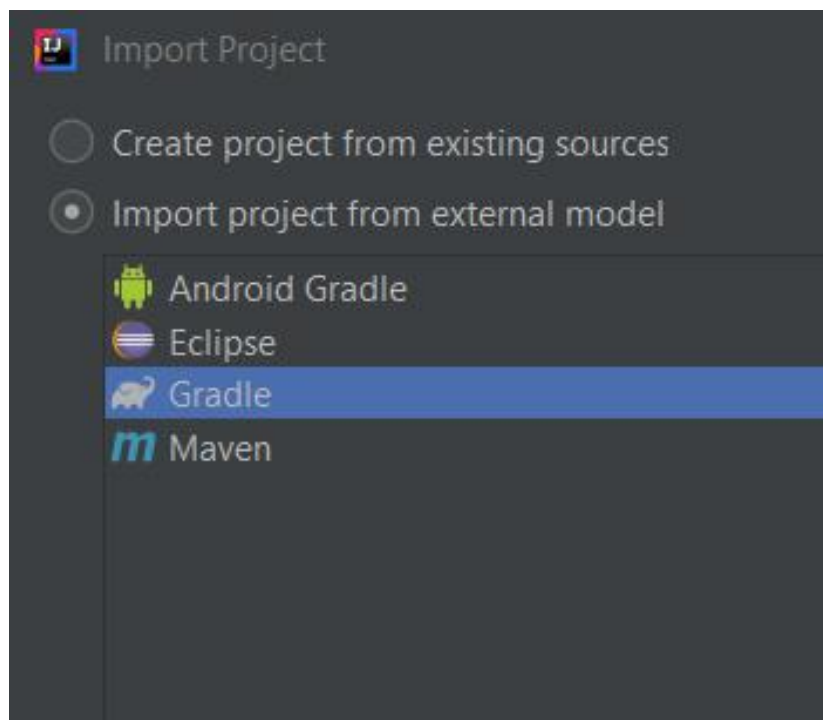


The image shows the IntelliJ IDEA download page. On the left is the IntelliJ logo. To its right, the text 'Download IntelliJ IDEA' is followed by buttons for 'Windows', 'macOS', and 'Linux'. Below this, there are two main sections: 'Ultimate' and 'Community'. The 'Ultimate' section describes it as 'For web and enterprise development' and has a 'DOWNLOAD .EXE' button with a 'Free trial' label. The 'Community' section describes it as 'For JVM and Android development' and has a 'DOWNLOAD .EXE' button with a 'Free, open-source' label. The 'Community' section is highlighted with a red rectangle. On the far left, there is a sidebar with version information (2019.2.1) and links for 'System requirements', 'Installation Instructions', and 'Other versions'.

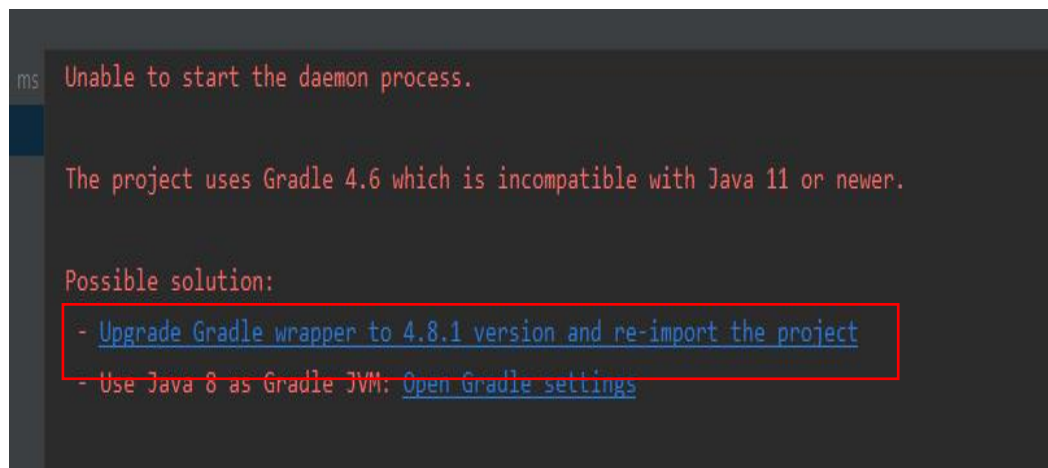
2. Install IntelliJ Idea Community Edition.
3. Open IntelliJ Idea and click Import Project (use default options)



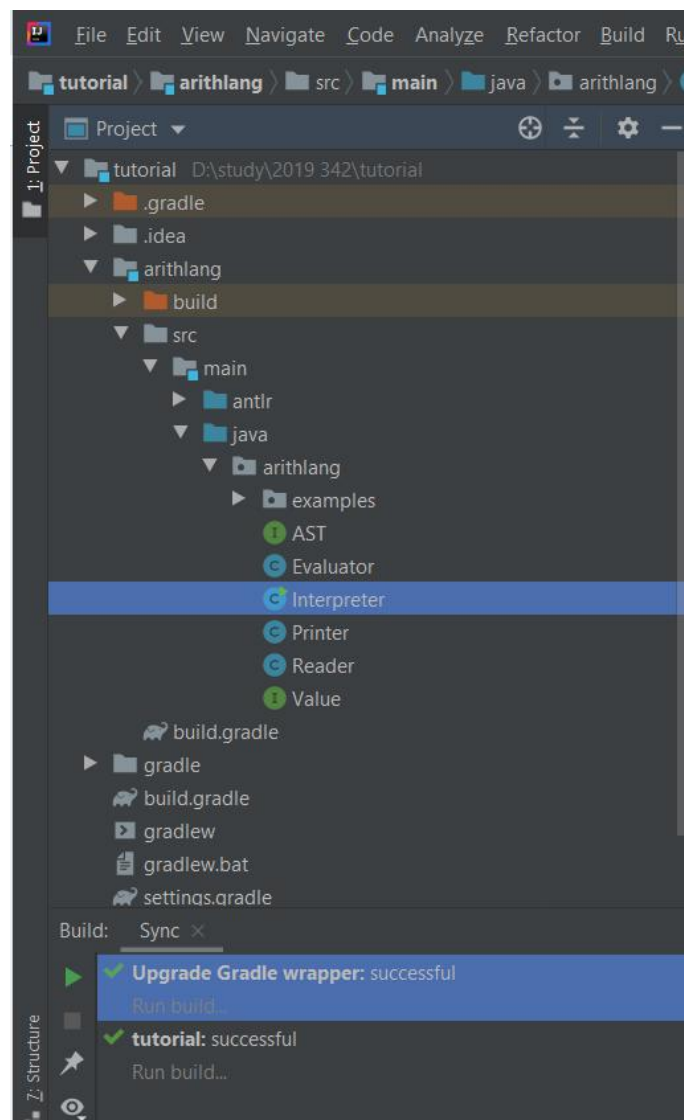
4. Unzip the file and select the folder. The folder must have the folder arithlang and other files in it.
5. Select Import Project from external model and select Gradle



6. Click Finish, IntelliJ Idea will download all the dependencies and the build system. Wait few minutes for that.
7. (Optional) You may find an error message as follows, please select "Upgrade Gradle wrapper to 4.8.1 version and re-import the project".



8. To run the interpreter, right click on the Interpreter java file and click Run Interpreter.main()

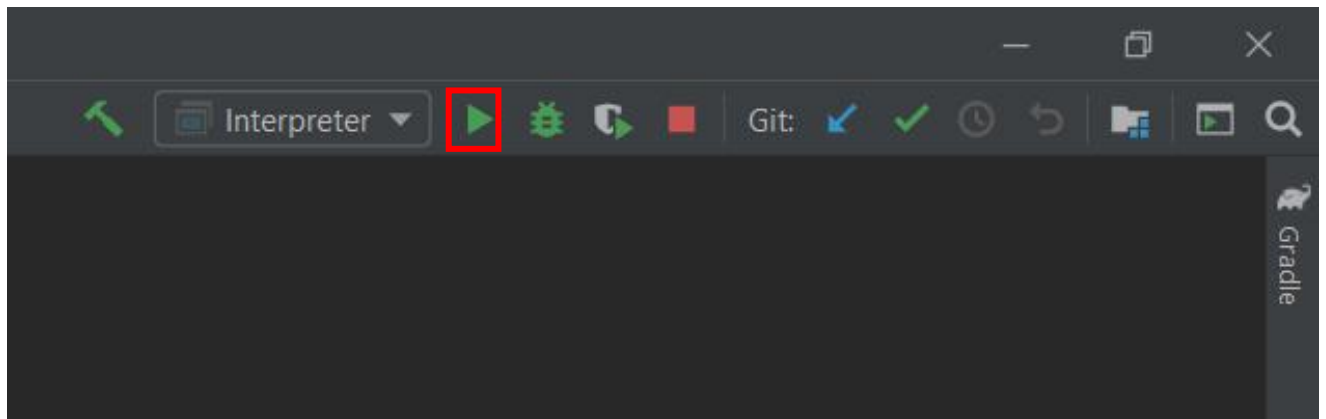


9. A console will be open on the bottom of IntelliJ Idea and you can follow the instructions it says.

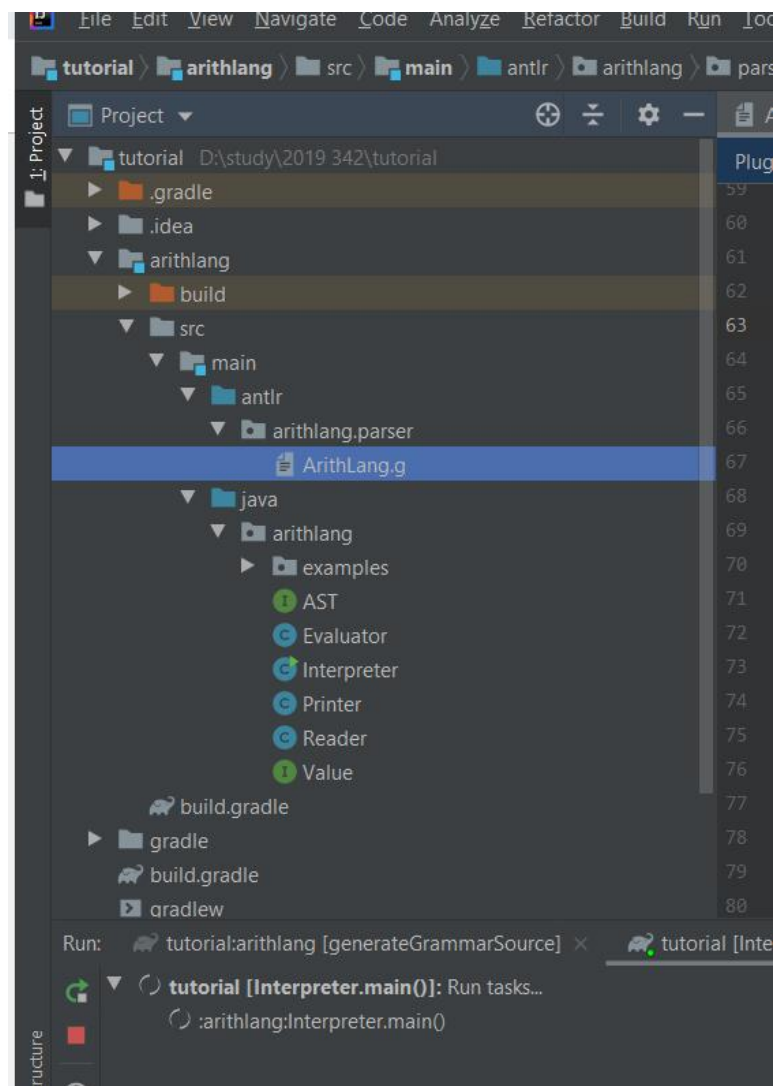
```
2:17:14 PM: executing task 'Interpreter.main()' ...
55 s
53 s
> Task :arithlang:generateGrammarSource UP-TO-DATE
> Task :arithlang:compileJava
> Task :arithlang:processResources NO-SOURCE
> Task :arithlang:classes

> Task :arithlang:Interpreter.main()
Type a program to evaluate and press the enter key, e.g. (+ (* 3 100) (/ 84 (- 279 277)))
Press Ctrl + C to exit.
(+ 1 1 |
```

10. Since the second, you can run the interpreter by clicking the run button. Please make sure you select interpreter on the check box beside the button before run it.



11. To modify the current grammar, you can edit the file src -> main -> antlr -> arithlang.parser -> ArithLang.



12. Once you modify this file, every time the Interpreter is run, the build system generates java files for the parser automatically.