

Installation guide

Required software

1. Java Runtime. You can download it from <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html> . (For Windows, chose “Windows x64” or “Windows x86” versions.
2. JDK – required for “compilation” of Java apps. Get from <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html> (Download Windows x64 or Windows x86 version of Java SE Development Kit) and install with default settings. (Remember the installation path, it may be required for IntelliJ IDEA)
3. Neo4j – database server. Get “For individuals” edition from <https://neo4j.com/download/> and install with all default settings.
4. IntelliJ IDEA – IDE for Java. Get from <https://www.jetbrains.com/idea/#chooseYourEdition> community edition and install. Installation settings are up to you, you can leave default ones.

Running the system

To run the system do the following steps:

1. Run neo4j server and press “Start” button.
2. Open the link, which appeared in neo4j launcher and login to the web interface.
3. Run TrippletApplication.jar file. (If you have 32-bit system or 32-bit Java version installed, open folder with jar file, press “Shift” + RMB -> “Open commands window” and then type in the terminal “java -jar -Xmx1g TrippletApplication.jar” and press enter.) For 64bit systems/Java, you can just double click the jar file.
4. In the first window enter such values:
 - Address: “127.0.0.1”
 - Port: “7687”
 - Username: “neo4j”
 - Password: “neo4j”
5. Press “Log in” button. If login is successful, the main screen will appear, otherwise you`ll see a text message about the error.
6. The main window will appear. You can enter your text in the text area.

7. When ready, you can save file with “File”->“Save” or “File”-> “Save as” menu options.
8. To find SVO relations use “Proceed”->” Detect SVOs” button. It will detect all relations it can and show them in a new window. If you want to write them to the neo4j database, press button “Submit”. Otherwise, to discard received data, press “Cancel”.
9. Another option is to use “Proceed”->” Detect and Write” menu entry. In such case, relations will be written to the database without showing on the screen and confirmation.
- 10.To see the result of the software`s work open the neo4j web interface (by default, it is <http://localhost:7474/> , login and in the query line enter “MATCH (n) RETURN n” and press “Enter” or “Ctrl”+”Enter”. This will show you a relations graph of your text.
- 11.To clear database in the query line type “MATCH (n) DETACH DELETE n” and press “Enter” or “Ctrl”+”Enter”.

Building the software

1. Unpack TripletApplication.zip somewhere on your drive.
2. Launch IntelliJ IDEA.
3. Select “File”-> “Open”, navigate to folder, where you`ve extracted the zip-file and select “TripletApplication” folder.
4. Press “Build”-> “Make Project” and wait for build process completion.
5. Open “out” subfolder of your project in some file manager and run TripletApplication.jar.