

# cs853programmingAssignment1Group7

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UNH cs853 Information Retrieval (Fall 2018) programming assignment1 Gourp 7: Xin Liu, Kunpeng Xie, Yibo Xu

cs853 Prog assignment1 installation

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Required Tool:

1. Maven3.5.4: To automatic loading up required dependencies, download from:<https://maven.apache.org/download.cgi>
2. Git: Version control, download from <https://git-scm.com/downloads>
3. IntelliJ IDEA: download from <https://www.jetbrains.com/idea/download/#section=mac>

Installation:

1. Maven installation guide <https://maven.apache.org/install.html>
2. Git installation:<https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>
3. IntelliJ installation: <https://www.jetbrains.com/help/idea/install-and-set-up-product.html>

Add trec car tool to the project:

1. Navigate to the directory of trec car tool java version which is ~/trec-car-tools-java-master
2. Use maven command to package the trec car tool to jar file and maven will put it in maven local repository mvn clean install \*If you got a message like mvn: command not found. Under Linux, you need to set JAVA\_HOME and M2\_HOME directory in .bash\_profile, if there is no such file, just create one. run the following command sudo vi ~/.bash\_profile Add the following to the file: //replace the JAVA\_HOME and M2\_HOME based on your own  
JAVA\_HOME=/Library/Java/JavaVirtualMachines/jdk1.8.0\_121.jdk/Contents/Home export  
JAVA\_HOME

```
M2_HOME=/Users/kangkang/Documents/maven/apache-maven-3.3.9
export M2_HOME

PATH=${PATH}:${JAVA_HOME}/bin:${M2_HOME}/bin
export PATH
```

save and exit the file and run the following command: `source ~/.bash_profile` Now you can go the `~/trec-car-tools-java-master` to run the command.

3. Clone the programming assignment by <https://github.com/XinLiu92/cs853programmingAssignment1Group7.git> to your local.
4. Open the cloned repository in IntelliJ, and reimport maven dependencies. Windows type in `ctrl+shift+a` to find action, type in "reimport", you will find "reimport all maven projects", then select it and press enter. Mac will type in `cmd+shift +a` instead. All of the necessary dependencies are included in `pom.xml`
5. Make sure you pass two arguments to the program, the first one is index directory, second one is the data file directory
6. Rebuild the project and run `Main.java`
7. By changing the boolean variable `defaultScore` under `Main.java` to `false`, you can switch the score function to the one we need to change in assignment spec.
8. Then run the program to get the result.