Metamap Lite--Latest version（2022/01/21）

(Make sure you have already installed Java in your local machine before running MetaMap Lite)

1. Download MetaMapLite through this link [MetaMapLite 3.6.2rc6 binaryonly Version](https://lhncbc.nlm.nih.gov/ii/tools/MetaMap/run-locally/MetaMapLite.html#:~:text=MetaMapLite%203.6.2rc6%20binaryonly%20Version). After clicking this link, you need to login with your UMLS Terminology Service username and password

([MetaMapLite 3.6.2rc6 binaryonly Version](https://lhncbc.nlm.nih.gov/ii/tools/MetaMap/run-locally/MetaMapLite.html" \l ":~:text=MetaMapLite%203.6.2rc6%20binaryonly%20Version) --- Contains MetaMapLite sources, jar files, and configuration, but no UMLS dataset.)

1. Download metamap lite database-- [2020AB UMLS Level 0+4+9 Dataset](https://data.lhncbc.nlm.nih.gov/umls-restricted/ii/tools/MetaMap/download/metamaplite/public_mm_data_lite_usabase_2020aa.zip) .
2. Copy the two downloaded zip files to the same directory; run command to unzip these two file under the directory

In command window, run following code:

$ unzip public\_mm\_lite\_3.6.2rc6\_binaryonly.zip

$ unzip public\_mm\_data\_lite\_base\_2020aa.zip

1. Cd into the “public\_mm\_lite” directory

Use command to run metamap lite

In command window, run following code

$ cd public\_mm\_lite

$ ./metamaplite.sh --indexdir=data/ivf/2020AA/USAbase target-file.txt

1. use the "--indexdir" option to specify the location of the dataset(shown using a relative path). in this case, it is data/ivf/2020AA/USAbase; )
2. target-file.txt is the file you want to parse )

1. The output file will be target-file.mmi file.

Use python to run matemap

1. Clone the MetaMapLiteRunner repository - <https://github.com/harryhoch/MetaMapLiteRunner.git>
2. In the MetaMapLiteRunner repository, edit **MetaMapLiteRunner.py**, changing some path before running program.

metamap\_dir=" the path of public\_mm\_lite directory "

indexdir=metamap\_dir+"/data/ivf/2020AA/USAbase" # the path of database

1. To run the MetaMapLiteRunner script, in the command line

(under “public\_mm\_lite” directory)

python MetaMapLiteRunner.py -l <logfile> *file1 file 2 file3…*

* 1. <logfile> is the name of a file for logging any errors during running
  2. *file1 file 2 file3…*are the target files you want to parse

1. finally, , for each input target file ( *file1 file 2 file3…)* , this python program will generate 2 kinds of files:

* “.mmi” file containing raw MetaMapLite output
* “.csv” file containing a subset of the MetaMapLite output.