

How to build FastText library from github source ?

Build FastText Library from Github

Following are the requirements to build FastText successfully :

- OS : Linux Distribution(like Ubuntu, CentOS, etc.) or MacOS
- Compiler with C++11 support latest gcc or clang

Check if GCC is installed in your Linux Distribution

Run the command “gcc --version” to check if gcc is installed. If not, install gcc and proceed with the building of FastText.

```
$ gcc --version
```

```
root@arjun-VPCEH26EN:/home/arjun/workspace/fasttext/fastText# gcc --version
gcc (Ubuntu 5.4.0-6ubuntu1~16.04.4) 5.4.0 20160609
Copyright (C) 2015 Free Software Foundation, Inc.
This is free software; see the source for copying conditions.  There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
```

Build FastText

Open a terminal and run the following commands :

Clone fastText.git project to your local machine using git command.

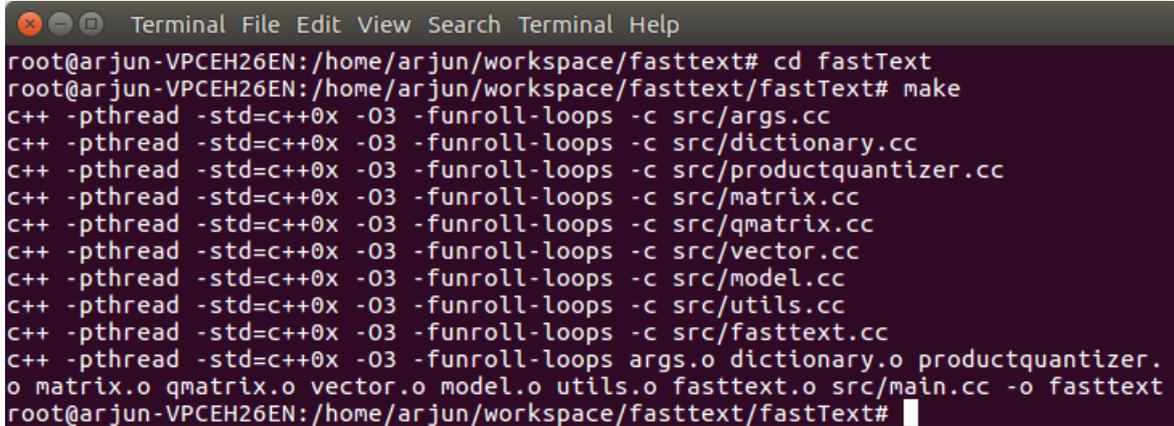
```
$ git clone https://github.com/facebookresearch/fastText.git
```

```
root@arjun-VPCEH26EN: /home/arjun/workspace/fasttext
root@arjun-VPCEH26EN:/home/arjun/workspace/fasttext# git clone https://github.com/facebookre
search/fastText.git
Cloning into 'fastText'...
remote: Counting objects: 936, done.
remote: Compressing objects: 100% (22/22), done.
remote: Total 936 (delta 13), reused 25 (delta 9), pack-reused 905
Receiving objects: 100% (936/936), 322.00 KiB | 202.00 KiB/s, done.
Resolving deltas: 100% (654/654), done.
Checking connectivity... done.
root@arjun-VPCEH26EN:/home/arjun/workspace/fasttext#
```

Git Clone fastText.git

Open fastText and make the build.

```
$ cd fastText
$ make
```



```
root@arjun-VPCEH26EN:/home/arjun/workspace/fasttext/# cd fastText
root@arjun-VPCEH26EN:/home/arjun/workspace/fasttext/fastText# make
c++ -pthread -std=c++0x -O3 -funroll-loops -c src/args.cc
c++ -pthread -std=c++0x -O3 -funroll-loops -c src/dictionary.cc
c++ -pthread -std=c++0x -O3 -funroll-loops -c src/productquantizer.cc
c++ -pthread -std=c++0x -O3 -funroll-loops -c src/matrix.cc
c++ -pthread -std=c++0x -O3 -funroll-loops -c src/qmatrix.cc
c++ -pthread -std=c++0x -O3 -funroll-loops -c src/vector.cc
c++ -pthread -std=c++0x -O3 -funroll-loops -c src/model.cc
c++ -pthread -std=c++0x -O3 -funroll-loops -c src/utils.cc
c++ -pthread -std=c++0x -O3 -funroll-loops -c src/fasttext.cc
c++ -pthread -std=c++0x -O3 -funroll-loops args.o dictionary.o productquantizer.o matrix.o qmatrix.o vector.o model.o utils.o fasttext.o src/main.cc -o fasttext
root@arjun-VPCEH26EN:/home/arjun/workspace/fasttext/fastText#
```

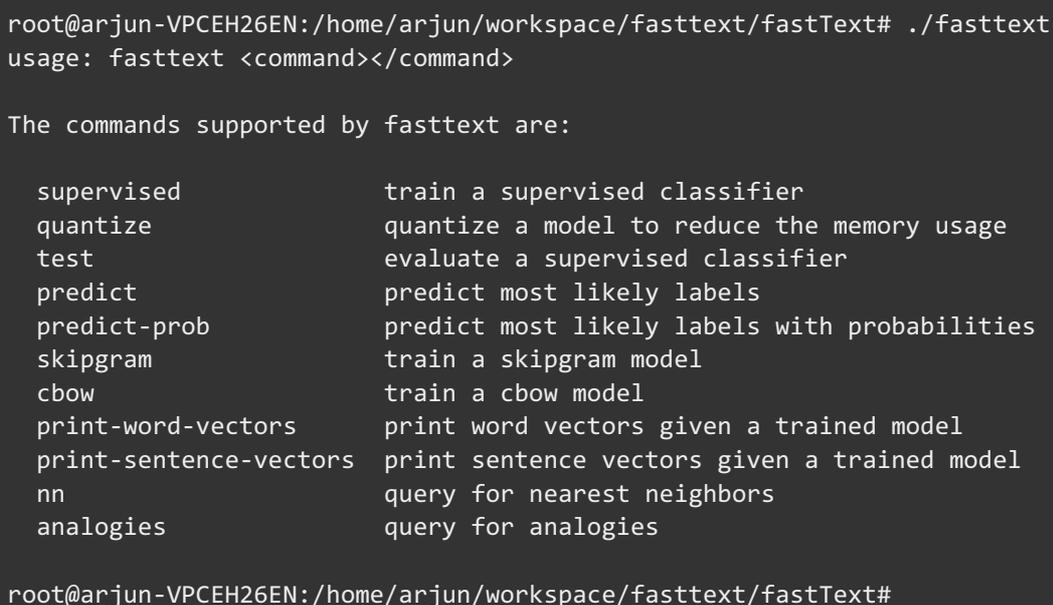
Build FastText

Verify the build

To verify if the build is successful and working, run the following command.

```
$ ./fasttext
```

“./fasttext” should output the following usage description



```
root@arjun-VPCEH26EN:/home/arjun/workspace/fasttext/fastText# ./fasttext
usage: fasttext <command></command>

The commands supported by fasttext are:

supervised          train a supervised classifier
quantize            quantize a model to reduce the memory usage
test                evaluate a supervised classifier
predict             predict most likely labels
predict-prob        predict most likely labels with probabilities
skipgram            train a skipgram model
cbow                 train a cbow model
print-word-vectors  print word vectors given a trained model
print-sentence-vectors print sentence vectors given a trained model
nn                  query for nearest neighbors
analogies            query for analogies

root@arjun-VPCEH26EN:/home/arjun/workspace/fasttext/fastText#
```

We have successfully built FastText.

Conclusion

In this [FastText Tutorial](#), we have learnt to build fastText from github. In our next tutorial, we shall [Train and Test Supervised Text Classifier](#).

FastText Tutorial

◆ [FastText Tutorial Home](#)

⇒ **FastText - BUILD**

◆ [FastText - Train and Test Supervised Text Classifier](#)

◆ [Learn Word Representations in FastText](#)

FastText Python

◆ [FastText Python - Learn Word Representations](#)