

MosesSMT: User Guide

[youtube.com/@proooooooo](https://www.youtube.com/@proooooooo)

github.com/human71

cse23.xyz/materials

1. Install docker `$ sudo apt install docker.io`

If you get a proxy error, run:

```
$ sudo mkdir -p /etc/systemd/system/docker.service.d
```

```
$ sudo vi /etc/systemd/system/docker.service.d/http-proxy.conf
```

And paste the following lines:

```
[Service]
```

```
Environment="HTTP_PROXY=http://172.16.199.20:8080"
```

```
Environment="HTTPS_PROXY=http://172.16.199.20:8080"
```

After adding, run:

```
$ sudo systemctl daemon-reload
```

```
$ sudo systemctl restart docker.service
```

2. Pull the image using `$ docker pull techiaith/moses-smt`

3. Git clone `$ git clone https://github.com/porthtechnolegauiaith/moses-smt`

4. Get into the folder `$ cd moses-smt`

5. Run `$ make run` to start the docker image.

6. Till this point the cloned folder and the docker image should be connected, if not, run:

```
$ sudo make stop and run $ make run
```

7. To check if the docker container is connected or not, make a folder *moses-models* into the repo you cloned, it should reflect in the docker *root* directory, if not, change line number 7 of *Makefile*, from `${PWD}` to the `/home/your-username/moses-smt` and repeat step 5.

8. In the github repo, make a folder named *enhi* under the folder *moses-models*, and paste the [dataset](#).

```
├─ moses-models
│   └─ enhi
│       ├── lm
│       └── corpus
│           ├── enhi.en
│           └── enhi.hi
```

9. Go to the folder *moses-smt* in the docker shell and run the following for training:

```
$ python moses.py train -e enhi -s en -t hi
```

10. Make a folder inside *moses-models* named *testing* and keep the text you want to test inside the *src.txt* file. Then, save the following code as *\$test.sh* and run `./test.sh`
OR directly copy and paste the following code:

```
while IFS= read -r line
do
    "/home/moses/mosesdecoder/bin/moses" -f "/home/moses/moses-models/enhi/en-hi/engine/model/moses.ini"
    "$line" >> pred.txt
done < "src.txt"
```

11. Run `$./multi-bleu.pl target_gold.txt < pred.txt` to evaluate your file using BLEU.