

Nooreldean Koteb

Professor Anastasopoulos

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## Part 2

c.

4.645979868956583

21.75150031173399

875.303655669175

275.20990221907016

d.

```
Five words english to chinese:  
jedi -> 绝地  
force -> 原力  
droid -> 机器人  
sith -> 西斯  
lightsabre -> 光剑  
  
In [31]:
```

## Part 3

a. 475 - 492

darth you the sith tragedy , i gave dark ? insight columns quite are you ?

not

you told me regular also chute wants serves you jedi would attacker

the sith insight fact an villages

darth him powerful wise to the sith mentor the dark besides , the force was insight gotten hunter , we oughta meteor readily domain of fact , are you ?

life comin

the him to the dark yourself to the force , men insight let the influence familiar legitimize oughta common stressful

the him truly mentor oughta

the men ? let

the dark abilities the force been flutter insight serves you think , aggression ... we oughta obtuse ways ...

the him ? whatever winnings

powerful him panaka chute , mmm controlling religion yep gotten eccentric were

the him losing serves you becoming the shortest

the him losing you ... but i 'd deysa greatest

the apprentice him regular insight knowledge of the all deysa

the apprentice him . i just keep deysa unprotected

the outnumbered

the him yourself to rescue but let ought to gardulla oughta demonstration

The grammar in almost all these lines is very messed up, and some of the words here are just wrong. I think I should've let the model run more epochs.

**b.**

```
D:\Spring 2021\CS499 NLP\Assignment 5\HW5_package\starwars>python bleu.py output.txt test.en
BLEU: 0.015017992046394422

D:\Spring 2021\CS499 NLP\Assignment 5\HW5_package\starwars>python bleu.py backstroke.en test.en
BLEU: 0.04346211595059747
```

I should've probably ran it more epochs.