Unix in-class activity

Aman Kumar 17025

12th September 2020

Download the file "genesis.txt" from piazza (from the Holy Bible corpus). Use the commands you learned today to perform the following operations:

- * Output a list of words in the file with freq counts
- * Find the 50 most common words in the corpus * Merge upper and lower case by downcasing everything * How common are different sequences of vowels (aeiou)?

1 Change directory

Use command for change directory (cd) cd /mnt/c/Users/Asus/Downloads/DSE-308/

```
mangAVAVI-ARYA:/mnt/c/Users/Asus/Downloads/DSE-308$ pwd

/mnt/c/Users/Asus/Downloads/DSE-308

amangAVAVI-ARYA:/mnt/c/Users/Asus/Downloads/DSE-308$ ls

Zipf_law.pdf

Zirf_Law-DSE-308-Computatinal-linquistic-master.zip 'aman_zipf_assignment.ipynb' main.txt zipf_assignment.ipynb

aman_zipf_assignment.ipynb

iman_zipf_assignment.ipynb

iman_zipf_assignment.ipynb

iman_zipf_assignment.ipynb
```

2 Finding frequency corresponding to each word

 $tr - sc'[A-Z][a-z]''[\012*]' < genesis.txt | sort | uniq -c | sort - nr$

3 Save word vs freq in txt file

 $tr - sc^{'}[A-Z][a-z]^{''}[\012*]^{'} < genesis.txt | sort | uniq -c | sort -nr > genesis-new.txt$

4 Find the 50 most common words in the corpus

head -50 genesis-new.txt

5 Merge upper and lower case by downcasing everything

genesis.txt | perl -ne 'print lc' > genesis_lower.txt;

```
in the beginning god created the heaven and the earth.

In the beginning god created the heaven and the earth as you to the face of the deep, and the spirit of god moved upon the face of the deep, and the spirit of god moved upon the face of the deep, and the spirit of god moved upon the face of the deep, and the spirit of god moved upon god as the light, that it was good: and god divided the and god called the light day, and the darkness he called right, and the evening and the morning were the first day.

and god said, let there be a firmament in the midst of the savers, and let it divide the underest from the waters, the savers, and let it divide the underest from the waters which were under the firmament from the waters which were above the morning were the second day.

and god called the firmament heaven, and the evening and the morning were the second day.

and god called the firmament heaven the evening and the morning were the second day.

and god called the dry land earth; and the gathered together water one place, and let the dry land appea and it was so.

and god called the dry land earth; and the gathering together of the waters called he see and god san that it was good.

And god called the dry land earth; and the gathering together of the waters called he see and god san that it was good.

And god called the dry land earth; and the set godd.

And god called the dry land earth; and the got god san that it was good.

And god called the dry land earth; and the god set god san that it was good.

And god and, and the tree yielding frout, whose seed was in which and the tree yielding frout, whose seed was in the second god and the second god sand, and the tree yielding frout, whose seed was in the second god sand, and the tree without from the earth, and god sand to the three he light is not he firmsment of the heaven to divide the day from the night; and let them be for sign, and for seconds, and for god, and one of the water god and the worning were the third day, and god sand the tree was god and the
```

6 How common are different sequences of vowels (aeiou)?

 $tr'[a-z]'[A-Z]' < genesis_lower.txt | tr-sc'AEIOU''[\012*]' | sort | uniq-c | sort-nr$