**Python**

python filename.py

touch filename.py

cat filename.py

vi filename.py

open -a TextEdit filename.py

open -e filename.py (TextEdit)

open -t filename.py (Sublime Text)

**vi commands:**

i = insert -esc-

r = replace 1 character

R = replace multiple -esc-

x = delete

u = undo

h = to left

l = to right

j = down

k = up

. = repeat

p = place

yy = yank

/ read0 = find read0

1G = go to first line

fn up and down arrow key = page up and page down

:q! = quit without save

:wq = write and quit

import numpy as np

import pandas as pd

import matplotlib.pyplot as plt

%matplotlib inline

import datetime

import matplotlib.dates as mdates

#plt.style.use("ggplot")

import matplotlib as mpl

import matplotlib.patches as patches

mpl.rcParams.update(mpl.rcParamsDefault)

inputfile = open("input.txt", "rt")

inputlines = inputfile.readlines()

inputfile.close()

outputfile = open("output.txt", "wt")

for line in inputlines:

ans = round(do\_math(line),2) # Round output to 2 decimal points

outputfile.write(str(ans)+"\n")

outputfile.close()

ssh -i ~/.ssh/ucb\_205.rsa science@159.65.69.109

**Docker Commands**

docker stop <container name>

docker ps -a

docker start <container name>

docker rm -f <name of container> <- force remove container

startup container: docker-compose up -d

verify the cluster is running: docker-compose ps

check the zookeeper logs for entries regarding the binding:

docker-compose logs zookeeper | grep -i binding

check the kafka logs to see that the kafka broker has started:

docker-compose logs kafka | grep -i started

<https://robert-alvarez.github.io/2018-06-04-diagnostic_plots/>

<https://www.mailman.columbia.edu/research/population-health-methods/difference-difference-estimation>

<https://mobile.facebook.com/messages/read/?tid=cid.c.510246808%3A1571311101&first_message_timestamp=1368000000000&pagination_direction=2&show_delete_message_button&refid=12>

**AWS Notes**

GCP API Key: AIzaSyAdScP8H2zV9xQib6c0ZlK\_B0k8n0zcdHw

OAuth Client ID: 954870085795-pdb1p54l1027esep13dnaun5vkrtgkos.apps.googleusercontent.com

Client Secret: MFB0GgL4\_3Jv7jD\_hCHsH8Vq

ssh -i w210Capstone.pem ubuntu@3.232.104.31

scp -i w210Capstone.pem text.txt ubuntu@3.228.12.68:./

ssh -i w210Capstone.pem -N -f -L 8888:localhost:8888 ubuntu@ec2-3-232-104-31.compute-1.amazonaws.com

vi ~/.ssh/known\_hosts

AWS\_ACCESS\_KEY\_ID=AKIAJN4KRQWY42WLSLTA

AWS\_SECRET\_ACCESS\_KEY=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

AWS\_REGION=us-west-2

S3\_ENDPOINT=s3.us-west-2.amazonaws.com

S3\_USE\_HTTPS=1

S3\_VERIFY\_SSL=1

Overall sentiment approach

Google pixel Review (no punctuation)

48 useful is/are statements total

34 matches

43 total is/are statements generated

34/(43 + 14) = 0.59649122807

Google pixel unboxing (no punctuation)

22 useful is/are statements total

18 matches

23 total is/are statements generated

18/(23+4) = 0.66666666666

To Do:

Add sentiment to the statement extractor

Implement bleu and rouge

Implement evaluation metric for sentiment

Add Rake to Armand’s key word extractor