

Alexander Wilson

CS432

Assignment 10

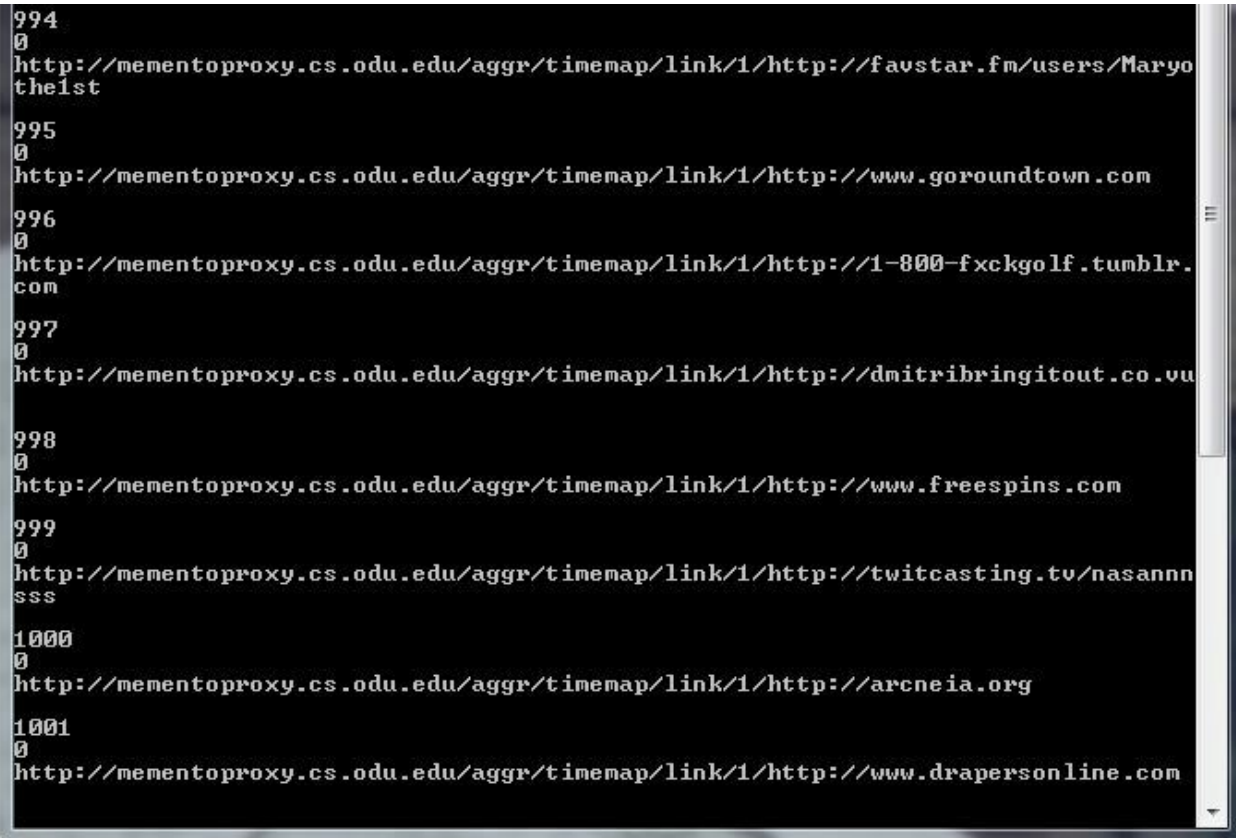
- 1) Using the replace `numpy.linalg.norm()` I was able to find the cosine distance between my links from assignment 8. I used my bloglink data along with `q1.py` scrip to find the cosine between vectors of 500 dimensions. It ran starting from the two blogs provided from that assignment. The result was a `knnestimate` function calculated with $k=\{1,2,5,10,20\}$.

```
Z:\cs432\A10>python q1.py
44.0
28.0
44.4
47.1
47.05
50.0
69.0
71.6
54.2
52.65
Z:\cs432\A10>
```

	K=1	K=2	K=5	K=10	K=20
f-measure	44	26.5	16.4	24.7	33.2
ws-dl	50	33.5	42.4	35.7	45.55

2)

3) I went back to my assignment 2 and extracted one thousand links that were previously extracted from the twitter api. Using the links and q3.py I was able to create another histogram or time map of the data collected. Comparing it to the histogram created months ago not many of the values have drastically changed. I wonder how it will look in 6 or more months.



```
994
0
http://mementoproxy.cs.odu.edu/aggr/timemap/link/1/http://favstar.fm/users/Maryo
the1st

995
0
http://mementoproxy.cs.odu.edu/aggr/timemap/link/1/http://www.goroundtown.com

996
0
http://mementoproxy.cs.odu.edu/aggr/timemap/link/1/http://1-800-fxckgolf.tumblr.
com

997
0
http://mementoproxy.cs.odu.edu/aggr/timemap/link/1/http://dmitribringitout.co.vu

998
0
http://mementoproxy.cs.odu.edu/aggr/timemap/link/1/http://www.freespins.com

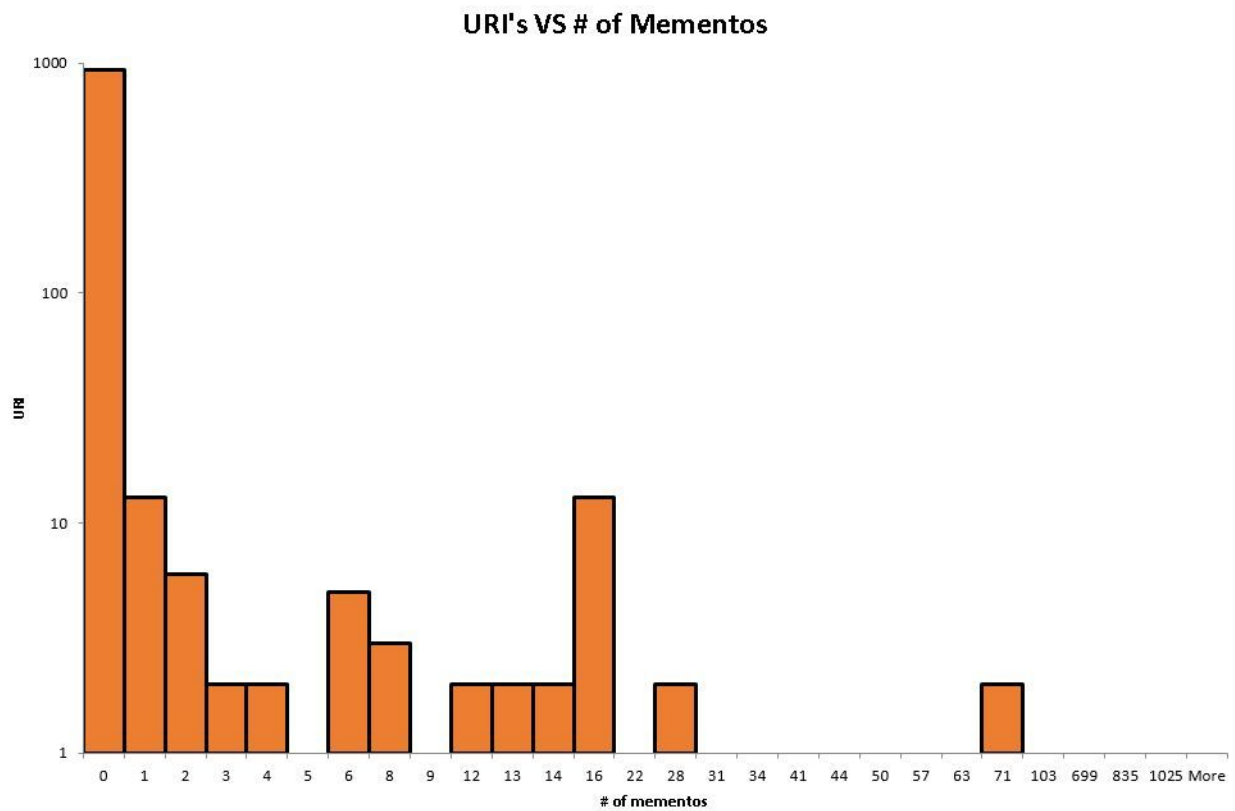
999
0
http://mementoproxy.cs.odu.edu/aggr/timemap/link/1/http://twitcasting.tv/nasann
sss

1000
0
http://mementoproxy.cs.odu.edu/aggr/timemap/link/1/http://arcneia.org

1001
0
http://mementoproxy.cs.odu.edu/aggr/timemap/link/1/http://www.drapersonline.com
```

```
Z:\cs432\A10\q3>python twitter.py
0: 927
1: 11
2: 4
3: 3
4: 2
5: 4
6: 7
8: 3
9: 3
12: 2
14: 2
16: 13
22: 1
28: 2
31: 1
35: 1
41: 1
44: 1
58: 1
71: 2
75: 1
90: 2
92: 1
115: 1
377: 1
704: 1
835: 1
1070: 1
9498: 1
Z:\cs432\A10\q3>
```

2/11/2016



4/29/2016

