```
# I think 'gauch' occurs only in 1 document;
# so it did not pass the threshold.
$ ./retrieve.py -p out/ -n 5 -q "gauch"
gauch None
$ ./retrieve.py -p out/ -n 5 -q "Gauch"
gauch None
$ ./retrieve.py -p out/ -n 5 -q "description"
description ('description', 47, 238751)
n70.html
           (1193, 5433)
n200.html
           (911, 5377)
           (1170, 5377)
n5.html
n122.html (824, 5321)
n107.html (807, 5267)
$ ./retrieve.py -p out/ -n 5 -q "infringe"
infringe None
# This URL doesn't appear in the collection.
$ ./retrieve.py -p out/ -n 5 -q "http://m.eonline.com/news/2014_emmys"
httpmeonlinecomnewsemmys None
$ ./retrieve.py -p out/ -n 5 -q "abcdef"
abcdef None
# Notice how there is none 'None' output for 'the'.
# This is because the tokenizer ignores the stopwords.
$ ./retrieve.py -p out/ -n 5 -q "the"
# The tokenizer completely ignores numbers
# and punctuations.
$ ./retrieve.py -p out/ -n 5 -q "20"
$ ./retrieve.py -p out/ -n 5 -q "20.07"
$ ./retrieve.py -p out/ -n 5 -q "123-456-7890"
$ ./retrieve.py -p out/ -n 5 -q "sgauch@uark.edu"
sgauchuarkedu None
$ ./retrieve.py -p out/ -n 5 -q "dominant"
dominant ('dominant', 16, 611780)
f240.html
           (453, 3060)
s267.html (1411, 2149)
s208.html (1346, 1544)
```

```
f416.html
          (648, 876)
           (1361, 875)
s221.html
$ ./retrieve.py -p out/ -n 5 -q "upturn"
upturn None
# Notice how the results are the same as just "dominant"
# This is because "upturn" never appreared.
$ ./retrieve.py -p out/ -n 5 -q "dominant upturn"
upturn None
dominant ('dominant', 16, 611780)
f240.html (453, 3060)
s267.html (1411, 2149)
s208.html (1346, 1544)
f416.html (648, 876)
s221.html
           (1361, 875)
$ ./retrieve.py -p out/ -n 5 -q "Tulsa"
tulsa ('tulsa', 37, 463277)
          (1511, 29823)
s357.html
           (1608, 14359)
s445.html
s320.html
           (1471, 11125)
s455.html (1619, 4477)
s301.html (1450, 4077)
# Notice how the results are the same as just "tulsa"
# This is because "tulsa" documents have really high weights.
$ ./retrieve.py -p out/ -n 5 -q "dominant upturn Tulsa"
tulsa ('tulsa', 37, 463277)
upturn None
dominant ('dominant', 16, 611780)
s357.html (1511, 29823)
           (1608, 14359)
s445.html
           (1471, 11125)
s320.html
           (1619, 4477)
s455.html
s301.html (1450, 4387)
$ ./retrieve.py -p out/ -n 10 -q "arkansas"
arkansas ('arkansas', 403, 509859)
n230.html
           (944, 10958)
n188.html
           (896, 10605)
n183.html (891, 10380)
n258.html (974, 10310)
```

```
(860, 9412)
n155.html
            (957, 9409)
n242.html
n279.html
            (997, 9146)
n144.html
            (848, 8812)
n138.html
            (841, 8704)
            (1032, 8360)
n31.html
$ ./retrieve.py -p out/ -n 10 -q "razorbacks"
razorbacks ('razorbacks', 41, 11680)
            (997, 10804)
n279.html
n138.html
            (841, 5220)
n325.html
            (1049, 4962)
n102.html
            (802, 4962)
            (1061, 4962)
n336.html
            (1070, 4962)
n344.html
n248.html
            (963, 4962)
n35.html
            (1076, 4950)
n402.html
            (1135, 4950)
n106.html
            (806, 3514)
# This is a good example of a combined weight.
$ ./retrieve.py -p out/ -n 10 -q "Arkansas razorbacks"
arkansas ('arkansas', 403, 509859)
razorbacks ('razorbacks', 41, 11680)
          (997, 19950)
n279.html
n138.html
            (841, 13924)
            (974, 12371)
n258.html
            (944, 10958)
n230.html
n106.html
            (806, 10951)
            (896, 10605)
n188.html
            (891, 10380)
n183.html
            (907, 9736)
n198.html
n325.html
            (1049, 9735)
            (1061, 9735)
n336.html
$ ./retrieve.py -p out/ -n 5 -q "dog"
dog ('dog', 35, 341157)
n37.html
            (1098, 9700)
n163.html
            (869, 8216)
n406.html
            (1139, 6625)
n329.html
            (1053, 4265)
            (1494, 2594)
s341.html
```

```
$ ./retrieve.py -p out/ -n 5 -q "cat"
cat ('cat', 29, 330716)
n62.html
           (1184, 7998)
n19.html
           (898, 2996)
n192.html
           (901, 2857)
          (1223, 2844)
n98.html
e141.html
           (43, 2776)
$ ./retrieve.py -p out/ -n 5 -q "dog cat"
cat ('cat', 29, 330716)
dog ('dog', 35, 341157)
           (1098, 11734)
n37.html
           (1139, 8940)
n406.html
           (869, 8216)
n163.html
           (1184, 7998)
n62.html
n329.html
           (1053, 4265)
# Each unique token is processed only once
# And the weights are multiplied. (more about this in the report)
$ ./retrieve.py -p out/ -n 5 -q "dog cat dog cat dog"
dog ('dog', 35, 341157)
cat ('cat', 29, 330716)
n37.html
           (1098, 33168)
n163.html
            (869, 24648)
           (1139, 24505)
n406.html
n62.html
            (1184, 15996)
            (1053, 12795)
n329.html
# This is what happens when the tokenizer
# ignores numbers and punctuation completely.
# In this case, we don't know the difference between
# mtv.com and m.4029tv.com
$ ./retrieve.py -p out/ -n 5 -q "http://m.4029tv.com/14430994"
httpmtvcom ('httpmtvcom', 24, 417317)
           (1124, 10481)
n393.html
n392.html
           (1123, 8121)
n353.html (1080, 8121)
n239.html
           (953, 8121)
           (894, 8121)
n186.html
$ ./retrieve.py -p out/ -n 5 -q
"http://scores.espn.go.com/ncf/recap?gameId="
```

```
https://oresespngocomncfrecapgameid ('https://oresespngocomncfrecapgameid', 15,
197789)
s127.html
            (1256, 29147)
s73.html
            (1653, 23120)
            (1532, 3622)
s376.html
            (1555, 3067)
s397.html
s43.html
            (1591, 3046)
# Very long token.
# Notice how the token only the first 20 and
# last 20 characters are stored in the dict file.
$ ./retrieve.py -p out/ -n 5 -q
"http://espn.go.com/los-angeles/college-football/story/ /id/11486164/usc-tr
ojans-coach-steve-sarkisian-regrets-decision-summon-ad-pat-haden-sideline"
httpespngocomlosangelescollegefootballstoryidusctrojanscoachstevesarkisianr
egretsdecisionsummonadpathadensideline
('httpespngocomlosangeonadpathadensideline', 29, 205977)
s343.html
            (1496, 4184)
            (1592, 4125)
s430.html
            (1620, 4097)
s456.html
            (1263, 4097)
s133.html
s4.html
            (1558, 4068)
$ ./retrieve.py -p out/ -n 10 -q "barack"
barack ('barack', 32, 41557)
n6.html
            (1181, 5244)
            (1055, 4585)
n330.html
            (448, 3309)
f236.html
            (866, 2464)
n160.html
e16.html
            (63, 1753)
            (209, 1711)
e295.html
           (928, 1657)
n216.html
            (91, 1443)
e186.html
            (1100, 1422)
n371.html
f478.html
            (716, 1418)
$ ./retrieve.py -p out/ -n 10 -q "obama"
obama ('obama', 85, 215454)
            (1055, 14972)
n330.html
            (1120, 10859)
n39.html
            (448, 10597)
f236.html
n78.html
            (1201, 10274)
            (1181, 9879)
n6.html
```

```
(928, 8739)
n216.html
            (866, 6498)
n160.html
f418.html
            (650, 5397)
f478.html
            (716, 5344)
n365.html
            (1093, 4861)
$ ./retrieve.py -p out/ -n 10 -q "whitehouse"
whitehouse None
$ ./retrieve.py -p out/ -n 10 -q "white house"
white ('white', 233, 431588)
house ('house', 133, 440144)
s177.html
            (1311, 11585)
            (1384, 11430)
s242.html
            (1445, 10832)
s298.html
s216.html
            (1355, 8515)
            (1582, 7632)
s421.html
e192.html
            (98, 6780)
s265.html
            (1409, 6524)
e215.html
            (123, 6339)
            (81, 6089)
e177.html
s119.html
            (1247, 6026)
$ ./retrieve.py -p out/ -n 10 -q "barack obama in the white house"
white ('white', 233, 431588)
barack ('barack', 32, 41557)
obama ('obama', 85, 215454)
house ('house', 133, 440144)
n330.html
            (1055, 21298)
            (1181, 16431)
n6.html
            (448, 15790)
f236.html
            (1201, 14009)
n78.html
            (1311, 11585)
s177.html
            (1384, 11430)
s242.html
            (1120, 10859)
n39.html
            (1445, 10832)
s298.html
            (928, 10396)
n216.html
            (866, 9576)
n160.html
```