

# **Mark von Oven - Homework 1**

## **Data Analytics & Machine Learning at Scale**

**HW1.0.0. Define big data. Provide an example of a big data problem in your domain of expertise.**

**What is a race condition in the context of parallel computation? Give an example.**

**What is MapReduce?**

**How does it differ from Hadoop?**

HW1.0.0. Big data is defined as extremely large data sets that may be analyzed computationally to reveal patterns, trends, and associations, especially relating to human behavior and interactions. In my world, we have hundreds of thousands of guests, buying cartfulls of items, in 1800 physical locations and multiple digital platforms...and using all this data (and more) we want to predict guest behavior. Item/location forecasts, Item affinities (what sells with what) and promotion optimization are just a few of the necessary solutions which will require big data.

A race condition occurs when two or more processes are occurring simultaneously (as in parallel computation) and the order in which the operations are executed matters. Let's say I needed to increment the value of a global variable by one with each running process. Given 3 processes, if they are run with synchronization, each process would read the global variable, increment by 1 and write back, resulting in a final value of 3. However, if these processes ran in parallel without synchronization, each one could potentially read an initial value of zero, increment by one and the last process to finish would ultimately write a 1 to the global variable, resulting in the wrong value.

MapReduce is a programming model and an associated implementation for processing and generating large data sets with a parallel, distributed algorithm on a cluster.

MapReduce is a part of Hadoop, as Hadoop consists of storage (HDFS) and process (MapReduce). Hadoop uses MapReduce to distribute data and code to worker nodes (mapping) for parallel processing and combines the outputs based on unique keys (reducing)

## HW1.0.1:

Here is an example of functional programming in basic python in terms of mappers and reducers (by way of example):

### EXAMPLE Mapper functions in Python

```
def fahrenheit(T):
    return ((float(9)/5)*T + 32)

def celsius(T):
    return (float(5)/9)*(T-32)

temperatures = (36.5, 37, 37.5, 38, 39)
F = map(fahrenheit, temperatures)
#returns 97.7 98.6 99.5 100.4 102.2
C = map(celsius, F)
```

### EXAMPLE Reducer function in Python

```
import functools
functools.reduce(lambda x,y: x+y, [47,11,42,13])
#returns 113
```

```
import functools as reduce
print "Average temp is %fF" % (reduce(lambda x,y: x+y, F)/len(F) )
```

**returns Average temp is 99.68F**

Which programming paradigm is Hadoop based on? Explain and give a simple example of functional programming in raw python code and show the code running. E.g., in raw python find the average length of a string in and of strings using a python "map-reduce" (functional programming) job (similar in style to the above). Alternatively, you can do this in python Hadoop Streaming.

```
strings = ["str1", "string2", "w261", "MAchine learning at SCALE"] .....
```

```
import functools as reduce temperatures = (36.5, 37, 37.5, 38, 39) F = map(fahrenheit, temperatures) print "Average temp is %fF" %  
(reduce(lambda x,y: x+y, F)/len(F) )
```

**returns Average temp is 99.68F**

```
map(sqr, items)
```

```
In [1]: ##### HW1.0.1: Answer - Hadoop is based on MapReduce
%%writefile stringlength.py

#Mapper function in Python
count = 0
def stringlencalc(S):
    return(len(S))
def supercounter(C):
    global count
    count += 1

strings = ["str1", "string2", "w261", "MAchine learning at SCALE"]
T = map(stringlencalc, strings)
U = map(supercounter, strings)
print (T)

#Reducer function in Python

import functools
print "Average string length is: %f" % ((functools.reduce(lambda x,y: x+y, T))/count)
```

Overwriting stringlength.py

```
In [2]: !python stringlength.py
```

```
[4, 7, 4, 25]
Average string length is: 10.000000
```

## HW1.1 Cross fold validation (\*)

### What is cross validation (in particular 10-fold cross validation)?

HW1.1 Cross validation is a model validation technique for assessing how the results of a statistical analysis will generalize to an independent dataset (i.e. solve a real problem). With 10-fold cross validation, a dataset would be divided into 10 equal sections(folds). One fold would be used as the validation set, and the other 9 would be used as training data. The cross validation process is then repeated 10 times, using each fold only once as a validation set. The 10 results from the folds can then be combined (usually averaged) to produce a single estimation.

- for more background see slides from lecture 2:
  - [\(https://www.dropbox.com/s/3ch0yb4oxyxsuo9/Lecture-02-ML-Intro-Bias-Variance.pdf?dl=0\)](https://www.dropbox.com/s/3ch0yb4oxyxsuo9/Lecture-02-ML-Intro-Bias-Variance.pdf?dl=0)

and

- [\(https://en.wikipedia.org/wiki/Cross-validation\\_\(statistics\)\)](https://en.wikipedia.org/wiki/Cross-validation_(statistics))

===== SPAM Dataset In the remainder of this assignment you will produce a spam filter that is backed by a multinomial naive Bayes classifier (see [\(http://nlp.stanford.edu/IR-book/html/htmledition/properties-of-naive-bayes-1.html\)](http://nlp.stanford.edu/IR-book/html/htmledition/properties-of-naive-bayes-1.html)).

For the sake of this assignment we will focus on the basic construction of the parallelized classifier, and not consider its validation or calibration, and so you will have the classifier operate on its own training data (unlike a field application where one would use non-overlapping subsets for training, validation and testing).

The data you will use is a curated subset of the Enron email corpus (whose details you may find in the file enronemail\_README.txt in the directory surrounding these instructions).

NOTE: please use the subject field and the body field for all your Naive Bayes modeling.

NOTE: This SPAM/HAM dataset for HW1 contains 100 records from the Enron SPAM/HAM corpus. Please limit your study to this unless otherwise instructed. There are about 93,000 emails in the original SPAM/HAM corpus. There are several versions of the SPAM/HAM corpus. Other Enron-Spam datasets are available from [\(http://www.aueb.gr/users/ion/data/enron-spam/index.html\)](http://www.aueb.gr/users/ion/data/enron-spam/index.html) and [\(http://www.aueb.gr/users/ion/publications.html\)](http://www.aueb.gr/users/ion/publications.html) in both raw and pre-processed form.

Doing some exploratory data analysis you will see (with this very small dataset) the following:

```
wc -l enronemail_1h.txt #100 email records 100 enronemail_1h.txt cut -f2 -d$'\t'  
\t' enronemail_1h.txt|wc #extract second field which is SPAM flag  
101 394 3999  
JAMES-SHANAHANS-Desktop-Pro-2:HW1-Questions jshanahan cut -f2 -d$'\t'  
enronemail_1h.txt|head 0 0 0 0 0 0 0 0 1 1
```

```
head -n 100 enronemail_1h.txt|tail -1|less #an example SPAM email record 018.2001-07-13.SA_and_HP 1 [ilug] we need your assistance to invest in your country dear sir/madam, i am well confident of your capability to assist me in a transaction for mutual benefit of both parties, ie (me and you) i am also believing that you will not expose or betray the trust and confidence i am about to establish with you. i have decided to contact you with greatest delight and personal respect. well, i am victor sankoh, son to mr. foday sankoh who was arrested by the ecomog peace keeping force months ago in my country sierra leone. ....
```

In [3]:

```
%%writefile enronemail_1h.txt
0001.1999-12-10.farmer 0      christmas tree farm pictures NA
0001.1999-12-10.kaminski 0      re: rankings thank you.
0001.2000-01-17.beck 0      leadership development pilot " sally: what timing, ask and
you shall receive. as per our discussion, listed below is an update on the leadership pilot.
your vendor selection team will receive an update and even more information later in the wee
k. on the lunch & learn for energy operations, the audience and focus will be your group. we
are ready to start up when appropriate. thank you for your time today. please call me if you
have any questions at x 33597. -----forwarded by julie armstrong/corp/enron
on 01/17/2000 06:44 pm----- from: susan runkel @ ect 01/17/2000 03:22
pm to: cindy skinner/hou/ect @ ect, brad mcsherry/hou/ect @ ect, norma villarreal/hou/ect @
ect, kimberly rizzi/hou/ect @ ect, fran l mayes/hou/ect @ ect, gary buck/hou/ect @ ect, rober
t jones/corp/enron @ enron, sheila walton/hou/ect @ ect, philip conn/corp/enron @ enron, mary
overgaard/pdx/ect @ ect, kim melodick/hou/ect @ ect, valeria a hope/hou/ect @ ect cc: david
oxley/hou/ect @ ect, susan carrera/hou/ect @ ect, jane allen/hou/ect @ ect, christine shenkma
n/enron_development @ enron_development, kathryn mclean/hou/ect @ ect, gracie s presas/hou/ec
t @ ect, janice riedel/hou/ect @ ect, julie armstrong/corp/enron @ enron subject: leadership
development pilot good news regarding the ena leadership curriculum! through the help of a v
endor selection team from eops, we've chosen southwest performance group and wilson learning
products as one of our primary vendors for the leadership curriculum and programs. we are rea
dy to conduct a pilot on february 8-10 of six modules. the purpose of the pilot is to evaluat
e for fine-tuning the wilson learning materials and facilitators and to present just a portio
n of the leadership curriculum. in order to evaluate the materials thoroughly, it would be g
reat to get a cross-section of ena to attend. we are asking that you invite several supervis
ors from your client groups to participate in any of the courses listed below. the sessions w
ill be held in room 560 and times are listed below. also attached is a description of the mod
ules. all are designed for supervisors only, with the exception being "" communicating effect
ively "". this is open to any employee. as a benefit in attending the pilot, i will pick up
the cost., so there will be no charge back for their attendance. we are currently completing
the curriculum design and will have information on the full curriculum available in february.
this will include options other than "" classrom setting "" for development. please respond
back to gracie presas by february 1 with your names. if you have further questions, please co
ntact me at 3-7394. we are really excited that we have this available and hope that your clie
nts will find it to be valuable. the following are half-day sessions. supervisors may sign u
p for any or all depending on their need. it would be helpful if supervisors attend a minimum
of two modules. date module time target audience feb. 8 meeting leadership challenges 8-12 a
m supervisors with less than 6 months experience working styles 1-5 pm any supervisor feb.
9 coaching to performance 8-12 am any supervisor motivating for results 1-5 pm any supervisor
feb. 10 communicating effectively 8-12 am any employee delegating and directing 1-5 pm any su
pervisor"
```

0001.2000-06-06.lokay 0 " key dates and impact of upcoming sap implementation over the next few weeks, project apollo and beyond will conduct its final sap implementation [] this implementation will impact approximately 12,000 new users plus all existing system users. sap brings a new dynamic to enron, enhancing the timely flow and sharing of specific project, human resources, procurement, and financial information across business units and across continents. this final implementation will retire multiple, disparate systems and replace them with a common, integrated system encompassing many processes including payroll, timekeeping, benefits, project management, and numerous financial processes. employees will be empowered to update and/or view their personal information via the intranet-based ehronline--a single front-end to sap's self service functionality and enron's global information system (gis). among other things, individuals will be able to update personal information (including w-4, addresses and personal banking information), manage their individual time using a new time entry tool, view their benefit elections, and view their personal payroll information on-line. all enron employees paid out of corporate payroll in houston, excluding azurix employees the financial communities of enron energy services, enron investment partners, enron north america, enron renewable energy corporation, gas pipeline group, global finance, global it, enron networks, and global products. the project management communities of enron north america, gas pipeline group, global finance, global it, enron networks, and global products. the human resources communities of corporate, global e & p, enron energy services, enron engineering and construction company, enron investment partners, enron north america, enron renewable energy corporation (houston only), the international regions, gas pipeline group, global finance, global it, enron networks, and global products. existing sap users currently supported by the center of expertise (coe) [] including the london coe. people will be impacted gradually over the next few weeks: june 12-current sap users may notice (and may use) new features in some of the sap modules--this new functionality was developed to meet requirements of business units implementing sap as part of this final implementation. june 22-timekeeping functionality will be available for all employees paid out of corporate payroll in houston (excluding azurix employees). -new sap coding must be used on timesheets. -system ids will be available for all new users. june 30-deadline! all time for the period beginning june 16 th and ending june 30 th must be entered into sap by 3:00 cst. -new sap coding must be used for all expenses and invoices. july 5-all remaining functionality (project management, financials, and human resources) are available to new end-users. for more information... visit us at an information booth in the enron building lobby on wednesday, june 7 th and thursday, june 8 th (10 a.m. till 2 p.m. each day.) visit our intranet site at <http://sap.enron.com> for job aids and other useful information. contact the site manager coordinating the implementation within your business unit or global function--specific site manager contact information can be found on the intranet at <http://sap.enron.com>. contact the center of expertise (coe) for sap implementation and production support questions via telephone at (713) 345-4 sap or via e-mail at [sap.coe@enron.com](mailto:sap.coe@enron.com)."

0001.2001-02-07.kitchen 0

key hr issues going forward

a) year end reviews-report ne

eds generating like mid-year documenting business unit performance on review completion-david to john; b) work out or plan generation for the nim/issues employees-david to john; c) hpl transition issues-ongoing. officially transferred. regards delainey

0001.2001-04-02.williams 0 re: quasi " good morning, i'd love to go get some coffee with you, but remember that annoying project that mike eteringer wants me to work on for him? this morning i am kinda under some pressure to hurry up and try to get some stuff figured out so i really don't have much spare time right now. ja would flip out if i left for coffee now. maybe later this afternoon? or tomorrow morning? anyhow, another ride sounds really cool. i had lots of fun. and yes, it would be cooler if i didn't have to worry about work. let me know when you have extra time to go for a ride. my weekend was pretty fun. i weed-wacked (is that a word?) my yard for the first time. it looks so bad. i so don't know anything about lawn care. also i planted some herbs and stuff in my yard which i am sure my dog will destroy, but it's worth a try. oh yeah, i also bought a snowboard. it's pretty cool. i bought some step-in switch boots, too. cool, eh? so i'll talk to you later. have a great day."

0002.1999-12-13.farmer 0 " vastar resources, inc." " gary, production from the high island larger block a-1 # 2 commenced on saturday at 2:00 p.m. at about 6,500 gross. carlos expects between 9,500 and 10,000 gross for tomorrow. vastar owns 68% of the gross production. george x 3-6992 -----forwarded by george weissman/hou/ect on 12/13/99 10:16 am----- daren j farmer 12/10/99 10:38 am to: carlos j rodriguez/hou/ect @ ect cc: george weissman/hou/ect @ ect, melissa graves/hou/ect @ ect subject: vastar resources, inc. carlos, please call linda and get everything set up. i'm going to estimate 4,500 coming up tomorrow, with a 2,000 increase each following day based on my conversations with bill fischer at bmar. d. -----forwarded by daren j farmer/hou/ect on 12/10/99 10:34 am----- enron north america corp. from: george weissman 12/10/99 10:00 am to: daren j farmer/hou/ect @ ect cc: gary bryan/hou/ect @ ect, melissa graves/hou/ect @ ect subject: vastar resources, inc. darren, the attached appears to be a nomination from vastar resources, inc. for the high island larger block a-1 # 2 (previously, erroneously referred to as the # 1 well). vastar now expects the well to commence production sometime tomorrow. i told linda harris that we'd get her a telephone number in gas control so she can provide notification of the turn-on tomorrow. linda's numbers, for the record, are 281. 584. 3359 voice and 713. 312. 1689 fax. would you please see that someone contacts linda and advises her how to submit future nominations via e-mail, fax or voice? thanks. george x 3-6992 -----forwarded by george weissman/hou/ect on 12/10/99 09:44 am----- "" linda harris "" on 12/10/99 09:38:43 am to: george weissman/hou/ect @ ect cc: subject: hi a-1 # 2 effective 12-11-99 |-----+-----+-----| | | | | | | mscf/d | min ftp | time | | | | | |-----+-----+-----+-----| | | | | | | 4,500 | 9,925 | 24 hours | | | | | |-----+-----+-----+-----| | | | | | | 6,000 | 9,908 | 24 hours | | | | | |-----+-----+-----+-----| | | | | | | 8,000 | 9,878 | 24 hours | | | | | |-----+-----+-----+-----| | | | | | | 10,000 | 9,840 | 24 hours | | | | | |-----+-----+-----+-----| | | | | | | 12,000 | 9,793 | 24 hours | | | | | |-----+-----+

							14,000	9,738	24 hours														
							16,000	9,674	24 hours														
							18,000	9,602	24 hours														
							20,000	9,521	24 hours													22,000	
							9,431	24 hours														24,000	9,332
							hours															24 hours	
																						26,000	9,224
																						28,000	9,108
																						30,000	8,982
																						32,000	8,847
																						34,000	8,703
																						36,000	8,549
																							"

0002.2001-02-07.kitchen 0        congrats!        " contratulations on the execution of the cent  
ral maine sos deal! this is another great example of what we can do when everyone comes toget  
er to get something done. this transaction brings both strategic value to the business, nice p  
ositions for the book and quite a nice chunk of change as well! great job guys! (hey dana, a  
re you paying for the celebration dinner?!" )

0002.2001-05-25.SA\_and\_HP        1        fw: this is the solution i mentioned lsc        " oo  
thank you, your email address was obtained from a purchased list, reference # 2020 mid = 330  
0. if you wish to unsubscribe from this list, please click here and enter your name into the  
remove box. if you have previously unsubscribed and are still receiving this message, you may  
email our abuse control center, or call 1-888-763-2497, or write us at: nosspam, 6484 coral w  
ay, miami, fl, 33155 ". (c) 2002 web credit inc. all rights reserved."

0002.2003-12-18.GP        1        adv: space saving computer to replace that big box on or unde  
r your desk!!        " revolutionary!!! full featured!!! space saving computer in a keyboard eli  
minate that big box computer forever! great forhome.... office... or students... any place  
where desk space is at a premium! the computer in a keyboard eliminates the tower that tak  
es up valuable space on or under your desk. a full featured, powerful computer for the price  
you would pay for a large tower. comes standard with: 1. 8 ghz intelt pentium 4 processor (u  
pgradeable) 40 gigabyte hard drive (upgradeable) 256 mb ramupgradeable to 2 gb cd-rw dvd comb  
o drive 64 bit hardware accelerated 3 d graphics soundmax integrated digital audio internal  
56 k fax-modem serial, parallel, audio, 4 usb ports (2 side, and 2 back) 2 button ps/2 scroll  
mouse microsoft xp home edition and a 15 "" lcd flat screen monitor (upgradeable) isalso in  
cluded in the base configuration! click below for more information: http:// www.. com / if  
you wish to stop receiving this email, click on the link below. "

0002.2004-08-01.BG        1        advs        " greetings, i am benedicta lindiwe hendricks (mrs) o  
f rsa. i am writing this letter to you with the hope that you will be kind enough to assist  
my family. if this means of communication is not acceptable to you please accept my apologie  
s as it is the only available and resourceful means for me right now. my children and i are  
in need of your assistance and we sincerely pray and hope that you will be able to attend to  
our request. if there is the possibility that you will be able to help us do kindly let me k

now by return mail so that i can tell you about our humble request. thank for your understanding. benedicta lindiwe hendricks (mrs). please reply to this email address; heno 0 @ katama il. com"

0003.1999-12-10.kaminski 0 re: visit to enron " vince, dec. 29 at 9:00 will be fine. i have talked to shirley and have directions. thanks, bob vince j kaminski wrote: > bob, > > can you come to our office on dec 29 at 9:00 a.m.? > > please, call shirley cre nshaw (3-5290) or stinson gibner (3-4748) > from the reception to be admitted to the buildin g. > > vince kaminski"

0003.1999-12-14.farmer 0 calpine daily gas nomination -calpine daily gas nomination 1. doc

0003.2000-01-17.beck 0 re: additional responsibility " congratulations on this addi tional responsibility! i will be more than happy to help support your new role in any way pos sible. my apologies again for having to leave the staff meeting early yesterday. susan enro n north america corp. from: sally beck 01/17/2000 06:04 pm to: mary solomonson/hou/ect @ ect, brent a price/hou/ect @ ect, bob shults/hou/ect @ ect, sheila glover/hou/ect @ ect cc: susan harrison/hou/ect @ ect subject: additional responsibility two of you had to leave the staff meeting before this final discussion point and three of you were not in attendance, so i want ed to send you the attached memo that i distributed at the end of the meeting. this memo will be sent by rick causey via notes mail regarding an additional role that i will assume with r egard to global operations. i shared this in the staff meeting so that you would be the first to know. i will still fulfill my role within ena as vp of energy operations. i will not be go ing away! this expanded responsibility should create addtional opportunities for operations p ersonnel and will validate some of the global functions that we already provide to the organ ization."

0003.2001-02-08.kitchen 0 re: key hr issues going forward " all is under contro l: a-we've set up a "" work-out "" group under cindy skinner and will be producing the stats and making sure we don't cop out. b-as above. several have gone across wholesale already. sta ts will show this and progress on others. c-fair to say we have total clarity of direction he re now! all memo's will be out by monday, cindy olson has sent an email to hr community (re em bargo on hpl staff) and i believe mark h is drafting something for other otc's. fran and miche le cash (i also put another guy on this yesterday) have all in hand. david david w delainey 02/07/2001 04:39 pm to: john j lavorato/corp/enron, david oxley/hou/ect @ ect cc: mark freve rt/na/enron @ enron, greg whalley/hou/ect @ ect, louise kitchen/hou/ect @ ect subject: key hr issues going forward a) year end reviews-report needs generating like mid-year documenting bu siness unit performance on review completion-david to john; b) work out or plan generation fo r the nim/issues employees-david to john; c) hpl transition issues-ongoing. officially trans ferred. regards delainey"

0003.2003-12-18.GP 1 fw: account over due wfxu ppmfztdtet " eliminate your credi t card debt without bankruptcy! tired of making minimum payments and barely getting by? this i s not consolidation or negotiation... this is complete debt eliminationstop making payments im

mediately! are you drowning in debt? here's what we can do for you... terminate your credit card debt! allow you to stop making payments immediately! obtain a zero balance statement from your creditors! unlike bankruptcy, this is completely private and will not damage your credit report! you will not lose your home or any other assets! request your free consultation now! please stop future announcements j uz hzriubp wr wugn h bmf sr h pbem uvd hm q uafn czkk rxht mpkemyrxlpq"

0003.2004-08-01.BG 1 whats new in summer? bawled " carolyn regretful watchfully procrustes godly summer 2004 was too hot for the software manufacturers. no wonder! as the prices were reduced in 3-4 times. this was caused by the software glut on the world market. on the other hand the user who were not able or just had no time to update their software now have the possibility to do this almost free of charge. read the whole article: year 2004. software prices fall down. , (c) peter lemelman onerous reclaimers remunerate lounsbury dictate costed continued snooping digression rhine inseminate tilts instructs rejoice switchman stomaching hurtling brent gunners tortoises "

0004.1999-12-10.kaminski 0 research group move to the 19 th floor " hello all: in case any of you feel energetic, "" the boxes are here "". they are located at 2963 b (michael sergeev's old desk). feel free to take as many as you will need. be sure to label everything with your new office location. if your file cabinets lock, you can just label them and lock them. again, listed below is your new office location: stinson gibner eb 1936 joseph hrg ovacic eb 1947 paulo issler eb 1935 vince kaminski eb 1933 krishna krishnarao eb 1938 martin lin eb 1930 e grant masson eb 1941 kevin moore eb 1944 maureen raymond eb 1928 mike roberts eb 1945 vasant shanbhogue eb 1949 vincent tang eb 1934 ravi thuraisingham eb 1932 zimin lu eb 1942 if you have any questions, or need any assistance, please contact me, kevin, or sam. thanks and have a great day! shirley 3-5290"

0004.1999-12-14.farmer 0 re: issue " fyi-see note below-already done. stella -----forwarded by stella l morris/hou/ect on 12/14/99 10:18 am-----  
----- from: sherlyn schumack on 12/14/99 10:06 am to: stella l morris/hou/ect @ ect c  
c: howard b camp/hou/ect @ ect subject: re: issue stella, this has already been taken care of. you did this for me yesterday. thanks. howard b camp 12/14/99 09:10 am to: stella l morris/hou/ect @ ect cc: sherlyn schumack/hou/ect @ ect, howard b camp/hou/ect @ ect, stacey n euweiler/hou/ect @ ect, daren j farmer/hou/ect @ ect subject: issue stella, can you work with stacey or daren to resolve hc -----forwarded by howard b camp/hou/ect on 12/14/99 09:08 am----- from: sherlyn schumack 12/13/99 01:14 pm to: howard b camp/hou/ect @ ect cc: subject: issue i have to create accounting arrangement for purchase from unocal energy at meter 986782. deal not tracked for 5/99. volume on deal 114427 expired 4/99."

0004.2001-04-02.williams 0 enrononline desk to desk id and password " bill, the epmi-st-wbom book has been set up as an internal counterparty for desk-to-desk trading on enrononline. the following user id and password will give you access to live prices on the web-site <http://www.enrononline.com>. user id: adm 74949 password: welcome! (note these a

re case sensitive) please keep your user id and password secure as this allows you to transact on enrononline. contact the helpdesk at x 34357 if you have any questions or problems gaining access with this id. thanks, stephanie x 33465"

0004.2001-06-12.SA\_and\_HP 1 spend too much on your phone bill? 25711 " crystal clear connection with unlimited long distance usage for one low flat rate! now try it for free!! \* see for yourself. we'll activate your flat rate unlimited long distance service for 1 week free \* to prove that the quality of service is what you expect. call now! operators standing by to activate your service. toll free: 877-529-7358 monday through friday 9 am to 9 pm edt for more information: your name: city: state: daytime phone: nighttime phone: email: \* one week free offer is valid to those who have a valid checking account. service is never billed until after the 1 week free trial period. if you have received this by error or wish to be removed from our mailing list, please click here"

0004.2004-08-01.BG 1 " h\$ ello dea 54 r home owner, we have beetcn notifiyved that your morayt "" goage r [ate is fixed at a verbry h {igh in ~ teosrest rate. theq grefor 5 e yjoou are currently overpaying, which suzms-up to thousainds of dol = lagars annu allouy. luo 5 ckily fe\_s in tx 3 hje u. s 3 r. (3. 39%). so hurry beca ` use the rat-e for p 8 ecarlst is no 9 t looking good! there is no oblibgat/ion, and it's frgee loczk on the 3. 39%, evelon with bazzd cre>dcoit! click h? ere now fooxr dextails r\$ emove he \* r-e "

0005.1999-12-12.kaminski 0 christmas baskets the christmas baskets have been ordered. we have ordered several baskets. individual earth-sat freeze-notis smith barney group baskets rodney keys matt rodgers charlie notis jon davis move team phillip randle chris hyde harvey freese facilities iain russell darren prager telephone services mary martinez (robert knights dept.) trina williams daniel hornbuckle todd butler pamela ford ozarka- maryam golnaraghi special baskets greg whalley richard weeks any questions please contact kevin moore other request contact kevin moore price information contact kevin moore please also if you need any assistance with your christmas cards let me know. thanks kevin moore

0005.1999-12-14.farmer 0 meter 7268 nov allocation " fyi. ----- forwarded by lauri a allen/hou/ect on 12/14/99 12:17 pm----- kimberly vaughn 12/10/99 02:54 pm to: lauri a allen/hou/ect @ ect cc: mary m smith/hou/ect @ ect subject: meter 7268 nov allocation lauri.. i have put this on strangas gas until i can get a contract from daren. -----forwarded by kimberly vaughn/hou/ect on 12/10/99 0 1:52 pm----- lauri a allen 12/09/99 01:20 pm to: kimberly vaughn/hou/ect @ ect, anita luong/hou/ect @ ect cc: howard b camp/hou/ect @ ect, mary m smith/hou/ect @ ect subject: meter 7268 nov allocation kim/anita- a volume of 7247 mm shows to have been allocated to the reliant 201 contract for november. there was no nomination for reliant at this point in november and, therefore, there should be no volume allocated to their contract. please make sure these volumes are moved off the reliant contract prior to november close. t hanks."

0005.2000-06-06.lokay 0 transportation to resort " please be informed, a mini-b

us has been reserved for your convenience in transporting you to the sanibel harbour resort from the airport on wednesday afternoon. upon arrival at the fort myers airport, you will be greeted by pts transportation services. i have submitted steve's name as a point of contact. have a safe and pleasant flight. adr"

0005.2001-02-08.kitchen 0        epmi files protest of entergy transco " attached is our filing made yesterday protesting entergy's proposed transco: rate issues are premature until entergy has filed to join spp no support for its proposed innovative rates (for example, (i) entergy would get 5% of a customer-funded transmission project as a development fee and (ii) extra 300 basis points for certain projects) and exact recovery mechanism request that commission require grandfathered contracts to be addressed express concern of entergy's request to continue the problematic source and sink limitations -----forwarded by christi l n icolay/hou/ect on 02/08/2001 03:44 pm-----        "" andrea settanni "" on 02/08/2001 03:38:26 pm to: cc: subject: entergy rto protest rtol-75-01. wpd -entergyr. wpd"

0005.2001-06-23.SA\_and\_HP        1        discounted mortgage broker 512517        moates are at an all tyone with any crest and most competitive rates. simple takes under 1 minute. try now 512517

0005.2003-12-18.GP        1        " miningnews. net newsletter-thursday, december 18, 2003" thursday, december 18, 2003 miningnews. net to allow you to read the stories below, we have arranged a complimentary one month subscription for you. to accept, click here to visit our extended service at www. miningnews. net. alternatively, just click any of the stories below. should you wish to discontinue this service, you may click here to cancel your subscription, or email subscriptions @ miningnews. net. have some news of your own? send your press releases, product news or conference details to submissions @ miningnews. net. de crespigny back in the action at buka robert champion de crespigny has re-emerged in the resources sector atop queen sland explorer and potential copper producer buka minerals, sending shares in the company sharply higher... (18 december 2003) full story danielle looks good for strategic minerals strategic mineral has returned multiple high-grade assays from rock chip sampling of the danielle vein at its woolgar gold project in north queensland, including one assay grading 1953. 2 gp t... (18 december 2003) full story ivernia west upgrades wa lead resource toronto listed ivernia west has upgraded its resource and reserve estimate for the cano deposit at the company's 60%-owned magellan lead project in western australia... (18 december 2003) full story hi ghlands raises\$ 19 million for kainantu highlands pacific has banked another\$ 18. 7 million for the development of its high-grade kainantu gold project in papua new guinea following a placement to domestic and international institutions... (18 december 2003) full story anz boost s gold outlook continued weakness in the us dollar has seen anz bank's natural resources group increase its forecasts for the gold price, with industry analyst peter windred saying the us \$ 420 barrier could come under serious pressure... (18 december 2003) full story chile lifts 2004 copper forecasts with copper pushing through the us\$ 1 per pound barrier for the first time in six and a half years earlier this week, chile's government copper commission, cochilco, has lifted its average 2004 copper forecast to a range of us 92-96 c a pound... (18 december 2

003) full story nickel pushes through us\$ 15,000/t nickel has surged to a new 14-year high on the london metal exchange, with the three-month delivery price peaking at us\$ 15,150 a tonne before profit taking pushed it back to us\$ 14,600 at the end of kerb trade... (18 december 2003) full story michelago clinches china deal michelago has further cemented its position in china's expanding gold industry after upping the stake it will hold in a processing plant in shandong province to 82% and signing an agreement with the owners of a bacterial oxidation technology that will see it holding the exclusive licence for the process in china, siberia, mongolia and korea... (17 december 2003) full story northern star gets off to strong start perth-based northern star resources listed on the australian stock exchange today at 23 cents, a 15% premium to its issue price of 20 cents... (17 december 2003) full story macquarie to arrange chirano financing red back mining has mandated macquarie bank to arrange and underwrite debt financing for its chirano gold project in ghana... (17 december 2003) full story ashburton raises\$ 1. 28 million ashburton minerals has successfully completed a placement to professional investors, raising\$ 1. 28 million to accelerate nickel exploration over the company's east kimberley project in western australia and its ashburton gold project... (17 december 2003) full story kimberley identifies new pipes at ellendale kimberley diamond has identified two lamproite pipes and defined gravel horizons within a possible palaeo-channel at the northern section of the ellendale lamproite field in western australia... (17 december 2003) full story georgia on my mind with a market capitalisation of just\$ 47 million, over\$ 10 million in the bank by end of year, 45,000 ounces of attributable gold production a year, 70% of the biggest undeveloped copper project in australia and some very promising ground in mexico, it's not hard to make an investment case for bolnisi gold... (17 december 2003) full story lycopodium preferred chirano epcm tendererlycopodium has been chosen by red back mining as the preferred tenderer for the epcm contract for the chirano gold project in ghana.... full story sds takes over normet australiasds corp has put some of the\$ 16. 5 million it raised earlier this week to immediate use with its\$ 1. 05 million acquisition of normet australia.... full story facelift for hunter valley rail network following a deal to lease the hunter valley rail networks for the next 60 years, australian government-owned australian rail track corp has promised big things. infrastructure upgrades, a 20% reduction in track access charges for coal transport, and higher train speeds are some of them.... miningnews. net's e-newsletter uses an html-rich media format to provide a visually attractive layout. if, for any reason, your computer does not support html format e-mail, please let us know by emailing contact @ miningnews. net with your full name and e-mail address, and we will ensure you receive our e-newsletter in a plain-text format. if you have forgotten your password, please contact helpdesk @ miningnews. net. have some news of your own? send your press releases, product news or conference details to submissions @ miningnews. net. aspermont limited (abn 66 000 375 048) postal address po box 78, leederville, wa australia 6902 head office tel + 61 8 9489 9100 head office fax + 61 8 9381 1848 e-mail contact @ aspermont. com website www. aspermont. com section dryblower investment news mine safety and health & environment mine supply today commodities due diligence exploration general ipos mining events moves mst features resourcestocks commodity coal

copper diamonds gold nickel silver zinc bauxite-alum chromium cobalt gemstone iron ore kaolin magnesium manganese mineral sand oilshale pgm rare earths salt tantalum tin tungsten uranium vanadium region africa all regions asia australia europe north american oceania south americ mines and money the 71 st sydney mining club: professor geoffrey blainey speaking on mining and the outback reflections & the future enterprise sustainability: managing triple-bottom line performance third international conference on computational fluid dynamics in the minerals & process industries show all events "

0006.1999-12-13.kaminski 0 japan candidate " vince, i spoke with whalley at the sa offsite and he mentioned that had (or knew of) a person that could bring some talent to the evaluation of an enron merchant business in japan. i am in sydney today, but will be in tokyo next week. i would like to speak more about this. what time might you be available? my japan mobile number is 81 90 4073 6761. regards, joe"

0006.2001-02-08.kitchen 0 california power 2/8 " please contact kristin walsh (x 3951 0) or robert johnston (x 39934) for further clarification. executive summary: utility bankruptcy appears increasingly likely next week unless the state can clear three hurdles-agreement on payback for the bailout, rate increases, and further short-term funding for dwr purchases of power. disagreement persists between gov. davis and democrats in the legislature on how the state should be paid back for its bailout of the utilities. the split is over a stock warrant plan versus state ownership of utility transmission assets. the economics of the long-term contracts appear to show that rate hikes are unavoidable because of the need to amortize the undercollected rates of the utilities during the recent rate freeze period. air quality management district regulations are under review, but offer limited scope for providing additional generation capacity. legislature democrats are feeling intense pressure from the left-wing consumer groups and are being forced to at least slow, if not stop, davis's bailout and rate hike plans. senator burton's eminent domain threats against generators, which reflect this pressure, are of little significance. 1. bankruptcy outlook rising once again a deal to finalize a debt workout continues to be just beyond the reach of the state, the utilities, and their creditors, with time running out on the debt forbearance arrangement set to expire on tuesday. socal edison and pg & e are not paying any of their bills except for payroll. they are working very hard to keep cash on-hand, and have indicated that they feel that they are very close to an involuntary bankruptcy filing. once this filing occurs, they will have 50 days until either the bankruptcy court accepts the filing or the utilities file a voluntary bankruptcy. opinion within the assembly is divided with respect to the outlook for bankruptcy. assemblyman keeley told our source that a filing is likely, but that everything will be resolved during that 50-day period. senator john burton "" is in no hurry "" to reach a deal with the utilities, as he believes that the state of california is in a good position to "" strong-arm "" the utilities. burton currently does not intend to cede to the utilities so that they can avoid bankruptcy. the senator stated, "" bankruptcy would be bad, but not the worst thing possible. "" he intends to stick to his position. senator burton also dismissed governor davis'end-of-week deadline for striking a deal with the utilities. still, bankruptcy can be avoided if a last-minute deal can

be struck monday on: what the state receives in return for the bailout the scope of rate hikes (a federal court is expected to rule on the pg & e/socal v. cpuc rate undercollection case monday) additional financing is made available to the dwr to buy more power until the revenue bonds can be issued in may. there is a possibility that significant progress on these issues could lead to a further extension of creditor forbearance. however, the negative tone taken by standard & poors and others concerning delays in the legislature suggest that further forbearance will difficult to achieve. the previous forbearance period was only achieved via a high-level washington summit which does not appear likely to happen this weekend. additional financing for dwr will not be automatically approved by the legislature. the non-energy expenditures of the california government are now at risk, as there is not yet a rate structure in place to recover the costs being expended on power from the general fund.

2. state to take 2/3 of utility debt while the state seems to have succeeded in forcing the utility parents to eat close to one third of the \$ 12 billion debt, a final deal has been held up on two fronts. first, it is still unclear what the state will get in return for the utility debt. it is possible that there will be a mix of stock warrants and/or transmission assets. a takeover of the transmission assets seems more likely than a takeover of the hydro assets. the value of these assets still has not been settled. second, while the state will be on the hook for \$ 9 billion, it is not clear what mixture of rate hikes and revenue bonds will be used to recover the cost of the bailout. finally, expect davis and other california politicians to work to minimize rate hikes (although the edison/pg & e v. cpuc case on monday is likely to force their hand here) and to do everything possible to avoid the appearance of a bailout. the tangible transmission assets are more politically attractive than the nebulous stock warrants. no price has been set at which the state would purchase the utilities' transmission assets, which are currently valued at approximately \$ 7-\$ 8 billion. all of the proceeds though cannot be used to pay off the utilities' debts, as some of the money would go to existing bondholders. however, ipp sources advise that there is already a bid on the table for these transmission assets that is higher than what the state would offer.

3. long-term contracts as noted by the governor in his announcement tuesday, only 500 mw of the 5,000 mw of power contracted for can come on-line immediately. much of the remainder reportedly was contracted in long-term purchases from suppliers who are building power plants. some of this will come on-line in approximately two years. assemblyman keeley expressed frustration that he has received a "" tablet from on high "" from governor davis that there must not be a rate increase. this means that the state must acquire power, not from internal sources or from the market, but through long-term contracts at 7. 39 cents/kwh. this allows 1. 213 cents to amortize socal edison's undercollection from the recent rate freeze period. (the number is slightly different for pg & e.) this assumption is based on a natural gas price of \$ 7. 90 in 2001 and \$ 5. 15 in 2005, and an efficiency heating rate of 10,000-12,000 in 2001 and 7,200 in 2005. these numbers were quoted to industry sources, who felt they were unrealistic. these sources quoted the 2001 price of natural gas as \$ 9. 00-\$ 9. 50. the sources agreed with keeley's number for the 2001 efficiency heating rate, but they felt that 7,200 in 2005 was very optimistic unless an enormous amount of new generation capacity comes on line. accordi

ng to keeley's numbers and assuming the filed rate case is settled at \$ 7 billion rather than \$ 12 billion, it would take 5 to 6 years to amortize all of the utility undercollection. a settlement to this case will need to be reached so that the state can figure out how much to charge for power in order to amortize the undercollection. however, since assemblyman keeley's numbers are unrealistic, a rate increase will be necessary.

4. air quality district exemptions there have been a few bills introduced to provide exemptions from aqmd (air quality management district) regulations--ab 20 x, ab 28 x, ab 31 x. also, republicans have been asking the governor to lift the environmental regulations and immediately site the facility in san jose that was denied by the local government. currently there is no contemplation of loosening the aqmd compliance restrictions. the legislature will not allow "" dirtier "" plants to come on-line. however, there might be a change in the means of implementation in southern california by moving away from the use of credits (this apparently drives up the cost of gas-fired power).

5. democratic moderates pressured by consumer advocates the moderate left (sen. burton, the puc, consumer activists) is afraid of harvey rosenfield and his consumers movement. this is not just because of his initiative. more important from their perspective, his initiative puts him and the far left in a position to challenge and defeat the moderates in the next election. thus, democrats in the legislature will feel pressured to distance themselves from davis and slow down any further rate increases or bailout.

6. eminent domain would have a limited effect the threats by burton to seize generation assets to insure continued power supply are limited. they only apply to california suppliers. a federal order would be needed to seize assets from out-of-state suppliers. there are also canadian suppliers (such as bc hydro) who are essentially untouchable.

7. smaller ipps feeling the squeeze many of the smaller ipps, which account for approximately 2500 mw of production, appear to be within a few days of running out of cash. a bill may be amended, possibly sometime this week, to give the smaller producers credit support."

0006.2001-04-03.williams 0 david gray " bill, is this the david gray you are going to see?? i listened to these clips. the music is kind of slow and romantic or something. is this how most of his sound is or did i just pick slower songs to listen to?"

0006.2001-06-25.SA\_and\_HP 1 looking 4 real fun 211075433222 talk on tele with locals in your area who want to meet for real encounters. no pre recorded bull this is the real deal. us residents: the 965 or 8919.-999 + be careful when making sexual dates and meetings. cali 900 # is \$ 1. 99 per min 211075433222

0006.2003-12-18.GP 1 dobmeos with hgh my energy level has gone up! stukm " introducing doctor-formulated hgh human growth hormone--also called hgh is referred to in medical science as the master hormone. it is very plentiful when we are young, but near the age of twenty-one our bodies begin to produce less of it. by the time we are forty nearly everyone is deficient in hgh, and at eighty our production has normally diminished at least 90-95%. advantages of hgh: -increased muscle strength -loss in body fat -increased bone density -lower blood pressure -quicken wound healing -reduces cellulite -improved vision -wrinkle disappearance -increased skin thickness texture -increased energy levels -improved sleep and e

motional stability -improved memory and mental alertness -increased sexual potency -resistance to common illness -strengthened heart muscle -controlled cholesterol -controlled mood swings -new hair growth and color restore read more at this website unsubscribe "

0006.2004-08-01.BG 1 )) you can not save the world by quitting smoking but to save your self " tarrin ^, hulmeville. am ^. er. ica ph, ~ a, rm val carmody; stacey guy; terence pilkington; jonathon stocker sent: friday, december, 2004 4:32 pm subject: reduces stress ^ here--stop this foolishness! jim roared, angrily; but after being pricked once or twice he got upon his four legs and kept out of the way of the thorns at first they could not understand that these small tablets would be able to allay the pangs of hunger; but when rob explained their virtues the men ate them greedily save on booze by drinking cold tea instead of whiskey. the following morning you can create the effects of hangover by drinking a thimble full of dish washing liquid and banging your head repeatedly on the wall. mitral 1 jirapliegao 6 carlo ` n, motero jubilar."

0007.1999-12-13.kaminski 0 christmas break " fyi -----f  
orwarded by shirley crenshaw/hou/ect on 12/14/99 07:51 am----- "" van t. ngo "" on 12/04/99 11:17:01 am to: vince j kaminski/hou/ect @ ect cc: shirley crenshaw/hou/ect @ ect subject: christmas break dear vince, as the holidays approach, i am excited by my coming break from classes but also about the opportunity to see everyone at enron again and to work with you and them soon. i am writing to let you know that i would be very happy to work at enron over my break and i would like to plan out a schedule. my semester officially ends dec. 20 th but i may be out of town the week before christmas. i will be available the following three weeks, from monday, dec. 27 to friday, jan. 14. please let me know if during those three weeks, you would like me to work and for what dates you would need the most help so that we can arrange a schedule that would be most helpful to you and so that i can contact andrea at prostaff soon. please let me know if you have any concerns or questions about a possible work schedule for me. give my regards to everyone at the office and wishes for a very happy holiday season! i look forward to seeing you soon. sincerely, van ngo ph: 713-630-8038 -attl. htm"

0007.1999-12-14.farmer 0 mcmullen gas for 11/99 " jackie, since the inlet to 3 river plant is shut in on 10/19/99 (the last day of flow): at what meter is the mcmullen gas being diverted to? at what meter is hpl buying the residue gas? (this is the gas from teco, vastar, vintage, tejones, and swift) i still see active deals at meter 3405 in path manager for teco, vastar, vintage, tejones, and swift i also see gas scheduled in pops at meter 3404 and 3405. please advice. we need to resolve this as soon as possible so settlement can send out payments. thanks"

0007.2000-01-17.beck 0 global risk management operations " congratulations! dc-----forwarded by danny clark/hou/ees on 01/18/2000 04:59 am----- rick causey @ enron 01/17/2000 06:04 pm sent by: enron announcements @ enron to: all enron worldwide cc: subject: global risk management operations recognizing enron's increasing worldwide presence in the wholesale energy business and the need to insure outstan

ding internal controls for all of our risk management activities, regardless of location, a global risk management operations function has been created under the direction of sally w. beck, vice president. in this role, sally will report to rick causey, executive vice president and chief accounting officer. sally [ ]'s responsibilities with regard to global risk management operations will mirror those of other recently created enron global functions. in this role, sally will work closely with all enron geographic regions and wholesale companies to insure that each entity receives individualized regional support while also focusing on the following global responsibilities: 1. enhance communication among risk management operations professionals. 2. assure the proliferation of best operational practices around the globe. 3. facilitate the allocation of human resources. 4. provide training for risk management operations personnel. 5. coordinate user requirements for shared operational systems. 6. oversee the creation of a global internal control audit plan for risk management activities. 7. establish procedures for opening new risk management operations offices and create key benchmarks for measuring on-going risk controls. each regional operations team will continue its direct reporting relationship within its business unit, and will collaborate with sally in the delivery of these critical items. the houston-based risk management operations team under sue frusco [ ]'s leadership, which currently supports risk management activities for south america and australia, will also report directly to sally. sally retains her role as vice president of energy operations for enron north america, reporting to the ena office of the chairman. she has been in her current role over energy operations since 1997, where she manages risk consolidation and reporting, risk management administration, physical product delivery, confirmations and cash management for ena [ ]'s physical commodity trading, energy derivatives trading and financial products trading. sally has been with enron since 1992, when she joined the company as a manager in global credit. prior to joining enron, sally had four years experience as a commercial banker and spent seven years as a registered securities principal with a regional investment banking firm. she also owned and managed a retail business for several years. please join me in supporting sally in this additional coordination role for global risk management operations."

0007.2001-02-09.kitchen 0                   california power 2/9     " the following information is from sensitive sources. please treat with discretion. contact robert johnston (x 39934) or kristin w alsh (x 39510) for questions or additional info. bankruptcy early this week, there was a closed door meeting held by the western power trading forum in arizona. the meeting took place outside california to avoid press coverage and allow ipps to maintain a low profile. association representatives believe that regardless of what happens with the puc vs. utilities ruling expected on monday, some ipps will take the utilities into involuntary bankruptcy. our source expects that absent a significant last minute breakthrough, the filing will happen within the next two weeks, and "" probably "" next week. as stated in yesterdays report, the ipps are very low on cash and are not able to cover the debts of the pg & e and socal. only three creditors are needed with uncollected debts of more than \$ 10,000 to file involuntary bankruptcy. bail out davis has been meeting with the chief executives of both utilities in a last ditch effort to m

ake a deal prior to monday's court ruling. the most likely scenario is for state ownership of the utilities transmissions assets. however, coming to an agreed upon price will be very challenging. in addition, pg & e and edison appear to have competing agendas in pursuing a bail out plan. davis is expect to continue meetings through out the weekend in hopes of reaching an agreement before monday."

0007.2003-12-18.GP 1 say goodbye to long doctor visits! d " dont waste your time at the doctors office! rx medications delivered right to your door in 24 hours! pay less for your drugs get more for your\$\$\$! join the millions of people who are tired of the hassle with the insurance companies and doctors! we carry all of the well-known drugs available and most of the unknown as well. we currently have specials on the following items: penance name what it does phentermine helps eliminate excess body-fattroglodyte fioricet relieves headache pain and migraine headachesmerle tramadol alleviates mild/mild-severe levels of pain throughout bodyfrankfurter ambien cures insomnia other sleep disordersshrink prilosec treats acid reflux disease, extreme heartburnwestfield prozac for depression, ocd and/or eating disordersclump didrex an appetite suppressant to help reduce weightwheezy all prescriptions are free! annals our qualified physicians are standing by to serve you. chisholm visit our site today and let us help you help yourself! agouti ypfpb rvsq ihf jpxdltmuk xqirzd c kgbz zk slgavjmoqq zxs aqoj g "

0007.2004-08-01.BG 1 need software? click here. " top quality software: special offer # 1: windows xp professional + microsoft office xp professional = only\$ 80 special offer # 2: adobe-photoshop 7, premiere 7, illustrator 10 = only\$ 120 special offer # 3: macromedia dreamwaver mx 2004 + flash mx 2004 = only\$ 100 also: windows 2003 server windows 2000 workstation windows 2000 server windows 2000 advanced server windows 2000 datacenter windows nt 4. 0 windows millenium windows 98 second edition windows 95 office xp professional office 2000 office 97 ms plus ms sql server 2000 enterprise edition ms visual studio. net architect edition ms encarta encyclopedia delux 2004 ms project 2003 professional ms money 2004 ms streets and trips 2004 ms works 7 ms picture it premium 9 ms exchange 2003 enterprise server adobe photoshop adobe pagemaker adobe illustrator adobe acrobat 6 professional adobe premiere macromedia dreamwaver mx 2004 macromedia flash mx 2004 macromedia fireworks mx 2004 macromedia freehand mx 11 corel draw graphics suite 12 corel draw graphics suite 11 corel photo painter 8 corel word perfect office 2002 norton system works 2003 borland delphi 7 enterprise edition quark xpress 6 passport multilanguage enter here"

0008.2001-02-09.kitchen 0 urg: gas securitization agreements " fyi-srs -----  
-----forwarded by sherri sera/corp/enron on 02/09/2001 08:39 am-----  
-- "" jauregui, robert m "" on 02/08/2001 07:55:44 pm to: """taylorja 2 @ bp. com""", """mcc lankg @ bp. com""", """sdba @ dynegy. com""", """njwa @ dynegy. com""", """pete. j. pavluk @ dynegy. com""", """chuck. watson @ dynegy. com""", """pwarden @ pillsburywinthrop. com""", """repling @ pillsburywinthrop. com""", """mmce @ dynegy. com""", """swbe @ dynegy. com""", """bcli @ dynegy. com""", """singleton. greg @ epenergy. com""", """hoferc @ epenergy. com""", """smithc @ epenergy. com""", """wisew @ epenergy. com""", """jonesg @ epenergy. com""", """colliw

@ texaco. com'", """benewm @ texaco. com""", """underga @ texaco. com""", """hans @ cook-inlet. com""", """prez @ cook-inlet. com""", """davidyi @ cook-inlet. com""", """dronn @ mayerbown. com""", """swidner @ coral-energy. com""", """blong @ coral-energy. com""", """ctise @ coral-energy. com""", """jeff. skilling @ enron. com""", """william. s. bradford @ enron. com""", """travis. mccullough @ enron. com""", """iccenergy @ aol. com""", """stefkatz @ cs. com""", """msessa @ sempratrading. com""", """dfelsinger @ sempra. com""", """mcosta @ stroock. com""", """jshorter @ txuenergy. com""", """mperkins 2 @ txuelectric. com""", """cenochs @ txuenergy. com""", """bjeffrie @ westerngas. com""", """ryanmcgeachie @ aec. ca""", """richarddanield @ aec. ca""", """jones. murphy @ williams. com""", """randall. o'neal @ williams. com""", """kelly. knowlton @ williams. com""", """connie. turner @ williams. com""", """scampbell @ txuenergy. com""", """ilydiatt @ altra. com""", """dkohler @ br-inc. com""", """reason @ br-inc. com""", """sallen @ duke-energy. com""", """rsbaker @ duke-energy. com""", """richard. ruzika @ gs. com""", """steve. brown @ southernenergy. com""", """kenny. foo @ ngx. com""", """tgary @ pcenergy. com""", """bredd @ pcenergy. com""", """harry\_wijsman @ pcp. ca""", """celias @ pcenergy. com""", """hal-borlan @ reliantenergy. com""", """priscilla-massey @ reliantenergy. com""", """llittle @ reliantenergy. com""", """gary-lamb @ transcanada. com""", """larry-desmeules @ coastenergy. com""", """five 5 wood @ aol. com""", """don. fishbeck @ cmenergy. com""", """randy. harrison @ southernenergy. com""", """john. krill @ engageenergy. com""", """glen. mackey @ energy. com""", """doug. rabey @ energy. com""", """michael\_huse @ transcanada. com""", "cc: """jlopes @ hrice. com""", """jnixon @ hrice. com""", "" buchsbaum, craig m (corp) "", "" whelan, steve (corp) "", "" lee, fanny "", "" berkowitz, trista "", "" clare, david "", "" wo o, shirley a (law) "", "" mclafferty, daniel "", "" cotroneo, eileen "", """dmao @ orrck. com""", "" litteneker, randall (law) "", "" gee, dennis "", "" welch, ray "" subject: urg: gas securitization agreements i am pleased to report that, as 2/8/01, 4:00 pm pst, pg & e has executed the gas supplier security agreement and the intercreditor agreement with the following suppliers: \* bp energy company \* dynegy canada marketing & trade, a division of dci \* dynegy marketing & trade \* el paso merchant energy, l. p. \* texaco canada \* texaco natural gas \* txu energy trading canada limited \* txu energy trading company \* williams energy marketing & trading co. (us & canada) as you know, other suppliers are not precluded from future participation (we highly encourage it) however, we will now require completion of exhibit b (supplier joinder agreement) as outlined in 8. (j). i would greatly appreciate your replying to this email to let us know whether you intend to be a party to these agreements at this time. please call if you have any questions. please forward all correspondence to: trista berkowitz director, gas procurement pacific gas and electric company 77 beale street, room 553 san francisco, ca 94105-1814 415. 973. 2152 (bus) 415. 973. 9213 (fax) notice to recipient: this e-mail is meant for only the intended recipient of the transmission, and may be a communication privileged by law. if you received this e-mail in error, any review, use, dissemination, distribution, or copying of this e-mail is strictly prohibited. please notify us immediately of the error by return e-mail and please delete this message from your system. thank you in advance for your cooperation."

0008.2001-06-12.SA\_and\_HP 1 spend too much on your phone bill? 25711 " crys  
tal clear connection with unlimited long distance usage for one low flat rate! now try it f  
or free!! \* see for yourself. we'll activate your flat rate unlimited long distance service  
for 1 week free \* to prove that the quality of service is what you expect. call now! operat  
ors standing by to activate your service. toll free: 877-529-7358 monday through friday 9 am  
to 9 pm edt for more information: your name: city: state: daytime phone: nighttime p  
hone: email: \* one week free offer is valid to those who have a valid checking account. ser  
vice is never billed until after the 1 week free trial period. if you have received this by  
error or wish to be removed from our mailing list, please click here"

0008.2001-06-25.SA\_and\_HP 1 " your membership exchange, issue # 422" " cont  
ent-type: text/plain; charset = iso-8859-1

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your membership exchange issue # 422 06-25-01 your place to exchange ideas, ask questions,  
swap links, and share your skills!

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you are a member in at least one of these pro  
grams-you should be in them all! www. bannersgomlm. comwww. profitbanners. comwww. cashpromotio  
ns. comwww. mysiteinc. comwww.. comwww. freelinksnetwork. comwww. myshoppingplace. comwww. ban  
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be sure to examining today's showcases for sites who will trade links with y  
ou!>> resource board p. steeves: internet explorer hint w/ " image toolbar ">> q & a question  
s:-unblocking sites so i can access?>> member showcases>> member \* reviews \*-sites to review:  
# 122 therefore, i believe it is better than the last version. there is, though, one little ag  
onizing message " image toolbar " that pops up every time you pass the mouse over an image.  
it asks whether you want to save or print the image. ugh, what a pest. hurrah, you can get rid  
of the image toolbar. just perform a right mouse click over the image toolbar. it will allow yo  
u to disable the image toolbar for this session or forever. if you want to re-establish the imag  
e toolbar just go to the internet options control panel and you can turn the image toolbar back  
on. remember, a right mouse click over any windows icon, window, tool bar, the desktop, and mo  
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stemslogical @ idirect. comhttp:// www. gssgeomatics. com

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win cash! http:// www. cashpo. net/cashpo/openpage. php 4? c = 2-----  
-----visit ward's gift shop! here you can find all your shopping needs on l  
ine, and good quality products; everyday low prices! we have dolls, angels, novelties, and so m  
uch more to choose from. go to our site, and get your free catalog today; over 3,000 produ

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links-bgmlm @ 4 yoursucces. org-----if you have a product, service, opportunity and/or quality merchandisethat appeals to people worldwide,  
reach your target audience! for a fraction of what other large newsletters charge youcan exhibit  
it your website here for only\$ 8 cpm. why?... because as a valuable member we want you to be successful!  
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&gt;&gt;&gt;&gt;&gt;member

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view our privacy policy. this email was sent to those who signed up for it. if you believe it has reached you in error, or you are no longer interested in receiving it, then please click here to edit your preferences, or copy the following url into your browser:

0008.2003-12-18.GP 1 when sp @ m doesn't annoy you eternal " benson sibilant char  
troom hello, do you hate spam? this program worked for me. if you hate spam like i do, you owe it to your self to try this program, and forward this email to all of your friends which also hate spam or as many people possible. together lets help clear the internet of spam! stop spam in its tracks! do you get junk, scams and worse in your inbox every day? are you sick of spending valuable time removing the trash? is your child receiving inappropriate adult material? if so you should know that no other solution works better then our software to return control of your email back where it belongs! imagine being able to read your important email without looking through all that spam... stop spam in its tracks starting today. opt-out here. expanse glenda litterbug "

0008.2004-08-01.BG 1 " slotting order confirmation may 18,2004 etacitne" " {  
begin\_split 76%} the rest of the afternoon was spent in making up the train. i am afraid to say how many baggage-waggons followed the engine, certainly a score; then came the chinese, then we, then the families, and the rear was brought up by the conductor in what, if i have it rightly, is called his caboose. the class to which i belonged was of course far the largest, and we ran over, so to speak, to both sides; so that there were some caucasians among the chinamen, and some bachelors among the families. but our own car was pure from admixture, save for one little boy of eight or nine who had the whooping-cough. at last, about six, the long train crawled out of the transfer station and across the wide missouri river to omaha, westward bound. it was a troubled uncomfortable evening in the cars. there was thunder in the air, which helped

to keep us restless. a man played many airs upon the cornet, and none of them were much attended to, until he came to "" home, sweet home. "" it was truly strange to note how the talk ceased at that, and the faces began to lengthen. i have no idea whether musically this air is to be considered good or bad; but it belongs to that class of art which may be best described as a brutal assault upon the feelings. pathos must be relieved by dignity of treatment. if you wallow naked in the pathetic, like the author of "" home, sweet home, "" you make your hearers weep in an unmanly fashion; and even while yet they are moved, they despise themselves and hate the occasion of their weakness. it did not come to tears that night, for the experiment was interrupted. an elderly, hard-looking man, with a goatee beard and about as much appearance of sentiment as you would expect from a retired slaver, turned with a start and bade the performer stop that "" damned thing. "" "" i've heard about enough of that, "" he added; "" give us something about the good country we're going to. "" a murmur of adhesion ran round the car; the performer took the instrument from his lips, laughed and nodded, and then struck into a dancing measure; and, like a new timotheus, stilled immediately the emotion he had raised. aka: vicqo din, xacnax, suprervisagra and much morne- no presccription neyeded! civilizirano gullweig gxol sylg the day faded; the lamps were lit; a party of ht ht men, who got off next evening at north platte, stood together on the stern platform, singing "" the sweet by-and-bye "" with very tuneful voices; the chums began to put up their beds; and it seemed as if the business of the day were at an end. but it was not so; for, the train stopping at some station, the cars were instantly thronged with the natives, wives and fathers, ht men and maidens, some of them in little more than nightgear, some with stable lanterns, and all offering beds for sale. their charge began with twenty-five cents a cushion, but fell, before the train went on again, to fifteen, with the bed-board gratis, or less than one-fifth of what i had paid for mine at the transfer. this is my contribution to the economy of future emigrants. a great personage on an american train is the newsboy. he sells books (such books!), papers, fruit, lollipops, and cigars; and on emigrant journeys, soap, towels, tin washing dishes, tin coffee pitchers, coffee, tea, sugar, and tinned eatables, mostly hash or beans and bacon. early next morning the newsboy went around the cars, and chumming on a more extended principle became the order of the hour. it requires but a copartnery of two to manage beds; but washing and eating can be carried on most economically by a syndicate of three. i myself entered a little after sunrise into articles of agreement, and became one of the firm of pennsylvania, shakespeare, and dubuque. shakespeare was my own nickname on the cars; pennsylvania that of my bedfellow; and dubuque, the name of a place in the state of iowa, that of an amiable ht fellow going west to cure an asthma, and retarding his recovery by incessantly chewing or smoking, and sometimes chewing and smoking together. i have never seen tobacco so sillily abused. shakespeare bought a tin washing-dish, dubuque a towel, and pennsylvania a brick of soap. the partners used these instruments, one after another, according to the order of their first awaking; and when the firm had finished there was no want of borrowers. each filled the tin dish at the water filter opposite the stove, and retired with the whole stock in trade to the platform of the car. there he knelt down, supporting himself by a shoulder against the woodwork or one elbow crooked about the railing, and

made a shift to wash his face and neck and hands; a cold, an insufficient, and, if the train is moving rapidly, a somewhat dangerous toilet."

0009.1999-12-13.kaminski 0                   christmas-near " good morning all. we apologize that we are not going to be able to have our holiday party before the first of the year. we wanted to use the scout house in west university like we did last year and it was not available. vince suggested that with the move and a lot of people taking vacation that we wait until after the first of the year. this way you can take advantage of "" after christmas sales "" for your gift! just remember whose name you have and we will schedule an "" offsite "" after the first of the year. thanks! shirley -----forwarded by shirley crenshaw/hou/ect on 12/13/99 09:23 am----- kevin g moore 12/13/99 08:58 am to: vin

ce j kaminski/hou/ect @ ect, stinson gibner/hou/ect @ ect, grant masson/hou/ect @ ect, vasant shanbhogue/hou/ect @ ect, maureen raymond/hou/ect @ ect, pinnamaneni krishnarao/hou/ect @ ect, zimin lu/hou/ect @ ect, mike a roberts/hou/ect @ ect, samer takriti/hou/azurix @ azurix, amitava dhar/corp/enron @ enron, joseph hrgovcic/hou/ect @ ect, alex huang/corp/enron @ enron, kevin kindall/corp/enron @ enron, osman sezgen/hou/ees @ ees, tanya tamarchenko/hou/ect @ ect, vincent tang/hou/ect @ ect, ravi thuraisingham/hou/ect @ ect, paulo issler/hou/ect @ ect, martin lin/hou/ect @ ect, ross prevatt/hou/ect @ ect, michael sergeev/hou/ect @ ect, patricia tlapak/hou/ect @ ect, roman zadorozhny/hou/ect @ ect, martina angelova/hou/ect @ ect, jason sokolov/hou/ect @ ect, shirley crenshaw/hou/ect @ ect cc: subject: christmas-near hello everyone, the pulling of names are completed. shirley will inform you as to when we will make exchanges. thanks kevin moore -----forwarded by kevin g moore/hou/ect on 12/13/99 08:50 am----- kevin g moore 12/10/99 08:28 am to: vince j k

aminski/hou/ect @ ect, stinson gibner/hou/ect @ ect, grant masson/hou/ect @ ect, vasant shanbhogue/hou/ect @ ect, maureen raymond/hou/ect @ ect, pinnamaneni krishnarao/hou/ect @ ect, zimin lu/hou/ect @ ect, mike a roberts/hou/ect @ ect, samer takriti/hou/azurix @ azurix, amitava dhar/corp/enron @ enron, joseph hrgovcic/hou/ect @ ect, alex huang/corp/enron @ enron, kevin kindall/corp/enron @ enron, osman sezgen/hou/ees @ ees, tanya tamarchenko/hou/ect @ ect, vincent tang/hou/ect @ ect, ravi thuraisingham/hou/ect @ ect, paulo issler/hou/ect @ ect, martin lin/hou/ect @ ect, ross prevatt/hou/ect @ ect, michael sergeev/hou/ect @ ect, patricia tlapak/hou/ect @ ect, roman zadorozhny/hou/ect @ ect, martina angelova/hou/ect @ ect, jason sokolov/hou/ect @ ect, shirley crenshaw/hou/ect @ ect cc: subject: christmas-near goodmorning, things went well on yesterday with names being pulled. here is a list of people who have to pull a name. stinson gibner samer takriti ravi thuraisingham martin lin alexios kollaros shirley crenshaw let's celebrate at work with each other making the last christmas in 1999-great! reminder: if you feel you will be unable to attend the exchanging of the gifts, please do not let that stop you from participating. each persons name has been entered; can you guess who has your name? we have a gift for you. so if you can not attend for any reason please know that you are included and your gift will be here when you return. wishing all a merry christmas, and a good kick-off to happy holidays. thanks kevin moore -----  
---forwarded by kevin g moore/hou/ect on 12/10/99 06:40 am----- kevin

g moore 12/08/99 07:47 am to: vince j kaminski/hou/ect @ ect, stinson gibner/hou/ect @ ect, grant masson/hou/ect @ ect, vasant shanbhogue/hou/ect @ ect, maureen raymond/hou/ect @ ect, pinnamaneni krishnarao/hou/ect @ ect, zimin lu/hou/ect @ ect, mike a roberts/hou/ect @ ect, s amer takriti/hou/azurix @ azurix, amitava dhar/corp/enron @ enron, joseph hrgovcic/hou/ect @ ect, alex huang/corp/enron @ enron, kevin kindall/corp/enron @ enron, osman sezgen/hou/ees @ ees, tanya tamarchenko/hou/ect @ ect, vincent tang/hou/ect @ ect, ravi thuraisingham/hou/ect @ ect, paulo issler/hou/ect @ ect, martin lin/hou/ect @ ect, ross prevatt/hou/ect @ ect, michael sergeev/hou/ect @ ect, patricia tlapak/hou/ect @ ect, roman zadorozhny/hou/ect @ ect, martina angelova/hou/ect @ ect, jason sokolov/hou/ect @ ect, shirley crenshaw/hou/ect @ ect cc: subject: christmas drawing-near ho! ho! ho! merry christmas, on thursday we will pull names. once again, this is so we may share in the christmas spirit and show our appreciation for one another. we will then join and exchange gifts on a later date..... stay tune  
 d..... if for some chance you will not be present on thursday, feel free to stop by my desk and pull your name today. eb 3130 a x 34710 join in the fun and remember, keep it simple thanks kevin moore -----forwarded by kevin g moore/hou/ect on 12/08/99 06:55 am----- kevin g moore 12/07/99 09:40 am to: vince j k aminski/hou/ect @ ect, stinson gibner/hou/ect @ ect, grant masson/hou/ect @ ect, vasant shanbhogue/hou/ect @ ect, maureen raymond/hou/ect @ ect, pinnamaneni krishnarao/hou/ect @ ect, zimin lu/hou/ect @ ect, mike a roberts/hou/ect @ ect, samer takriti/hou/azurix @ azurix, amitava dhar/corp/enron @ enron, joseph hrgovcic/hou/ect @ ect, alex huang/corp/enron @ enron, kevin kindall/corp/enron @ enron, osman sezgen/hou/ees @ ees, tanya tamarchenko/hou/ect @ ect, vincent tang/hou/ect @ ect, ravi thuraisingham/hou/ect @ ect, paulo issler/hou/ect @ ect, martin lin/hou/ect @ ect, ross prevatt/hou/ect @ ect, michael sergeev/hou/ect @ ect, patricia tlapak/hou/ect @ ect, roman zadorozhny/hou/ect @ ect, martina angelova/hou/ect @ ect, jason sokolov/hou/ect @ ect, shirley crenshaw/hou/ect @ ect cc: subject: christmas drawing-near hello everyone, we would like for christmas this year that the research group pull names, as a way of sharing in the spirit of christmas, and as appreciation for one another. we want to keep it simple so the gift should be less than twenty-dollars. please everyone participate, your name is already entered. i will return with more info. later..... thanks kevin moore let's have a wonderful christmas at work."

0009.1999-12-14.farmer 0 meter 1517-jan 1999 " george, i need the following done: jan 13 zero out 012-27049-02-001 receipt package id 2666 allocate flow of 149 to 012-64610-02-055 deliv package id 392 jan 26 zero out 012-27049-02-001 receipt package id 3011 zero out 012-64610-02-055 deliv package id 392 these were buybacks that were incorrectly nominated to transport contracts (ect 201 receipt) let me know when this is done hc"

0009.2000-06-07.lokay 0 human resources organization " as enron continues to address the human capital needs of the organization, there are several changes in enron's human resources (hr) organization i'd like to share with you: in corporate human resources: brian schaffer will lead the office of labor and employment relations function, including resource management, corporate training activities, and workforce development. mary joyce will cont

inue to have responsibility for executive compensation and our global equity plans. cynthia barrow, in addition to benefits, will be responsible for the development of work life programs across enron. brad coleman will be responsible for analysis and reporting, in addition to the re-engineering of the hr service center. gerry gibson will work closely with me to provide organizational development & training expertise for hr's continuing evolution. andrea yowman will be responsible for several projects which are critical to hr's on-going success including the sap implementation, global information system (gis) database, and total compensation system development. in addition, she will have responsibility for the human resource information system (hris). the hr generalist functions for corporate will be handled by the following: gwen petteway, public relations, government affairs, legal, investor relations, corporate development, epsc, aviation, enron federal credit union and the analyst and associate program kim rizzi, accounting and human resources sheila walton, rac, finance and enron development corp, in addition to her responsibilities in ena at the business unit level, we've established two geographic hubs for our wholesale business units: drew lynch will be in london with the hr responsibility for the eastern hemisphere including london, apachi and india. drew's senior leadership team will include: nigel sellens, ranen sengupta and scott gilchrist. david oxley will be located in houston with hr responsibility for the western hemisphere including north america, calme and south america. david's senior leadership team will include: miguel padron, janie bonnard, sheila knudsen and cindy skinner. we believe these hubs can result in a more effective hr organization and also facilitate the movement of talent where needed in those regions. the following are the hr leaders responsible for the remaining business units: dave schafer gpg gary smith wind robert jones net works marla barnard ebs ray bennett ees/efs willie williams ee & cc/nepco gerry chatham egep please click on the following link to view the hr organization chart. "

0009.2001-02-09.kitchen 0 " re: brazil commercial-\* \* update version, delete previous \*  
\* " louise, sorry, i just received your note. the extent of any discussion was dave thanking me over the phone for the inputs and recognizing that he and john incorporated some of the content. we've never had what i had been expecting, or at least presumed appropriate i. e., prior to any formal decision for the region, entertaining an in-person detailed discussion of the examples and recommendations-including a welcome cross examination of my observations that might conflict with official report or view. john and dave asked me to talk with brett, kish and gonzalez, but if you look at my recommendations and also consider the overall performance in the region does this make the best sense? i've done this again and, in fact, had already introduced my ideas to each of them and the previous system prior to forwarding them to houston. prior to having to leave enron, i wanted to make a best effort to get the authority to execute the recommendations i've pretty consistently introduced since joining in late 1998 and tried to get enron to implement under the previous management. i have not had the opportunity to manage or influence the company's operations in south america-this is my fault for not negotiating a more senior position, but i made the attempt in the region and more recently with the new managers to demonstrate a need to open constructive, critical discussion. anyway, i've tried to

open the door to john, dave and you and others who are interested to brainstorm including the leadership in place in esa to understand and perhaps leverage my applied experience-both trading, origination and, importantly, cultural. my resume below should attest to my capabilities-at least in terms of the potential value of my observations. thank you for your efforts extended in my behalf and good luck in your new position and working within enron's unique, dynamic ethic.

d'arcy louise kitchen @ ect 02/09/2001 01:46 pm to: d'arcy carroll/sa/enron @ enron  
cc: subject: re: brazil commercial-\* \* update version, delete previous \* \* i have spoken to john lavorato on this and he says that dave and john have already spoken to you on this. do we still need to meet as i have no different opinion to them at this time. louise d'arcy carroll @ enron 02/09/2001 11:13 am to: louise kitchen @ ect cc: subject: brazil commercial-\* \* update version, delete previous \* \* louise, this is a lot of text including the attatched files, but is the summary gist of what i have tried to communicate internally and am asking to discuss with you this morning. -----forwarded by d'arcy carroll/sa/enron on 02/09/2001 02:14 pm----- d'arcy carroll 11/09/2000 06:20 pm to: david w delainey @ ect, john j lavorato/corp/enron @ enron cc: kay chapman @ ect subject: brazil commercial-\* \* update version, delete previous \* \* david/john-understand the trip will be delayed. proposal outline has two texts-i. commercial strategy and ii. historical perspective. the org charts will need some discussion-particularly in regard to the strengths and weakness of employed personnel and urgent need for an improved structure. over the fh 2000 and within the new structure with brett and joao carlos albuquerque in place, the wholesale group and trading desk seems to have made some important strides forward in terms of recruiting some good individuals and, in trading terms, finally executing some fundamental market supply, demand and transmission analysis. to get into the game quickly and aggressively, though, i think the commercial group needs to hire some senior, local trading expertise. i apologize, but was unable to get in contact with either of these two guys to set up a possible meeting this week. however, they have the local knowledge, trading competencies and management experience which i consider needed to catalyze the regional effort: axel hinsch-argentine and cargill employee with several years and broad commodity and financial trading, business development and management experience, including senior trader for the bear stearns emerging markets equity desks in the late 1980 s/early 1990 s. straight up, no ego argentine country manager. mark hoffman-swiss/brazilian and glencore employee with several years energy, energy distribution and sugar sector experience; applied commodity and financial arbitrage experience in the brazilian market. lot less straight forward, but applied knowledge and expertise. senior originator/trader. please forward any input about your interest in scheduling a meeting either open here or in houston during the week of nov 20. for some perspective on my experience at enron, let me explain that i have been working in enron networks in the region from q 2 '00 and therefore much less formally involved with the trading (brazil spot market) and wholesale pricing, tariff issues etc.,.. than at the end of fyl 999 when i was directly involved in developing our effort to get in the game in understanding the spot price formula calculations and exploring arbitrage opportunities in the wholesale market. i've attached my resume for some perspective on my background and ca

pability to critically review the commercial (trading and marketing) and managerial issues involving the past and future opportunities. "

0009.2001-06-26.SA\_and\_HP 1 "double your life insurance at no extra cost! 29155 the lowest life insurance quotes without the hassle! compare rates from the nation's top insurance companies shop, compare and save fill out the simple form, and you'll have the 15 best custom quotes in 1 minute. compare your current coverage to these sample 10-year level term monthly premiums (20 year, 30 year and smoker rates also available) \$ 250,000 \$ 500,000 \$ 1,000,000 age male female male female male female 30 \$ 12 \$ 11 \$ 19 \$ 15 \$ 31 \$ 27 40 \$ 15 \$ 13 \$ 26 \$ 21 \$ 38 \$ 37 50 \$ 32 \$ 24 \$ 59 \$ 43 \$ 107 \$ 78 60 \$ 75 \$ 46 \$ 134 \$ 87 \$ 259 \$ 161 click here to compare! it's fast, easy and free! \* all quotes shown are from insurance companies rated a-, a, a + or a ++ by a.m. best company (a registered rating service) and include all fees and commissions. actual premiums and coverage availability will vary depending upon age, sex, state availability, health history and recent tobacco usage. to unsubscribe, reply with unsubscribe in subject! "

0009.2003-12-18.GP 1 new clonazepam. m xanax. x valium. m vicodin. n dhyngem many specials running this week the re. al thing not like the other sites that imitate these products. no hidd. en char. ges-fast delivery vic. odin val. ium xan. ax via. gra diaz. epam alp ra. zolam so. ma fior. icet amb. ien stil. nox ult. ram zo. loft clon. azepam at. ivan tr. amadol xeni. cal cele. brex vi. oxx pro. zac bus. par much m. ore.... if you have recieved this in error please use <http://www.nowbetterthis.biz/byee.html> fuohqjlsjcqp x odlx g xxu

0010.1999-12-14.farmer 0 duns number changes " fyi -----forwarded by gary l payne/hou/ect on 12/14/99 02:35 pm ----- from: antoine v pierre 12/14/99 02:34 pm to: tommy j yanowski/hou/ect @ ect, kathryn bussell/hou/ect @ ect, gary l payne/hou/ect @ ect, diane e niestrath/hou/ect @ ect, romeo d'souza/hou/ect @ ect, michael eiben/hou/ect @ ect, clem cernosek/hou/ect @ ect, scotty gilbert/hou/ect @ ect, dave nommense n/hou/ect @ ect, david rohan/hou/ect @ ect, kevin heal/cal/ect @ ect, richard pinion/hou/ect @ ect cc: mary g gosnell/hou/ect @ ect, jason moore/hou/ect @ ect, samuel schott/hou/ect @ ect, bernice rodriguez/hou/ect @ ect subject: duns number changes i will be making these changes at 11:00 am on wednesday december 15. if you do not agree or have a problem with the dnb number change please notify me, otherwise i will make the change as scheduled. dunns number change: counterparty cp id number from to cinergy resources inc. 62163 869279893 928976257 energy dynamics management, inc. 69545 825854664 088889774 south jersey resources group llc 52109 789118270 036474336 transalta energy marketing (us) inc. 62413 252050406 255326837 philadelphia gas works 33282 148415904 146907159 thanks, rennie 3-7578"

0010.1999-12-14.kaminski 0 stentofon " goodmorning liz, we are in need of another stentofon for trisha tlapek. she works very closely with the traders and it is important for quick communication. thanks kevin moore"

0010.2001-02-09.kitchen 0 " brazil commercial-\* \* update version, delete previous \* \*" " louise, this is a lot of text including the attatched files, but is the summary gist of wha

t i have tried to communicate internally and am asking to discuss with you this morning. -----  
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wledge and expertise. senior originator/trader. please forward any input about your interest  
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commercial (trading and marketing) and managerial issues involving the past and future opportu  
nities."

0010.2001-06-28.SA\_and\_HP 1 urgent business proposal "mrs. regina rossman.  
# 263 sandton city johannesburg, south africa. e-mail: joel\_rosel @ mail. com attn: alhaji  
with due respect, trust and humility, i write you this proposal, which i believe, would be of  
great interest to you. i am mrs. regina rossman, the wife of late mr. joseph rossman of bles  
sed memory, before forces loyal to major johnny paul koromah killed my husband; he was the  
director general of gold and mining corporation (g. d. m. c.) of sierra leone. my husband was  
one of the people targeted by the rebel forces. on the course of the revolution in the count  
ry, prominent people were hijacked from their homes to an unknown destination. two days befo  
re his death, he managed to sneak a written message to us, explaining his condition and conc

erning one trunk box of valuables containing money, which he concealed under the roof. he instructed me to take our son and move out of sierra leone, immediately to any neighboring country. the powerful peace keeping force of the (ecomog) intervened to arrest the situation of mass killings by the rebels, which was the order of the day. eventually, it resulted into full war, i became a widow overnight, helpless situation, without a partner at the moment of calamity, and every person was running for his life. my son and i managed to escape to south africa safely with the box and some documents of property title. the cash involved inside the box was us\$ 30 million (thirty million united states dollars). due to fear and limited rights as a refugee, i deposited the items with a private security company in order not to raise an eyebrow over the box here in south africa in my son's name joel r. rossman. be informed that the real content of the box was not disclosed. meanwhile, i want to travel out of south africa entirely with this money for investment in your country because of political and economic stability and for future benefit of my child. i want you to assist us claim this box from the security company and get the money into your private account in your country so that we can invest the money wisely. we have in mind to establish a rewarding investment and good relationship with you. concerning the money, we are prepared to give you reasonable percentage of 30% for your kind assistance. also, we have decided to set aside 5% of the total sum for expenses that might be incurred by the parties in the course of the transfer both locally and externally. for the interest of this business, do not hesitate to contact my son mr. joe l r. rossman on the above e-mail address immediately you receive this message for more information and to enable us proceed towards concluding all our arrangements. no other person knows about this money apart from my son and i. we await your most urgent response. please we need your fax/phone numbers for easier communication. thanking you for your co-operation and god bless you. best regard, mrs. regina rossman. <http://xent.com/mailman/listinfo/fork>

0010.2003-12-18.GP 1 re: hot topics: growing young NA  
0010.2004-08-01.BG 1 " we ship to ur country for mircosoft, adobe, norton charset = us-ascii "" > " cheap softwares for you, all are original genuine! major titles from micros 0 ft and adobe for rock bottom price great bargain sale! variety discount softwares at wholesale cheap pricing! microsoft windows xp professional-my price:\$ 50; normal:\$ 299. 00; you save\$ 249. 00 adobe photoshop cs v 8. 0 pc-my price:\$ 80; normal:\$ 609. 99; you save\$ 529. 99 microsoft office xp professional-my price:\$ 100; normal:\$ 499. 95; you save\$ 399. 95 adobe acrobat v 6. 0 professional pc-my price:\$ 100; normal:\$ 449. 95; you save\$ 349. 95 microsoft office 2003 professional-my price:\$ 80; normal:\$ 499. 95; you save\$ 419. 95 norton antivirus 2004 professional-my price:\$ 15; normal:\$ 69. 95; you save\$ 54. 95 coreldraw graphics suite v 12 pc-my price:\$ 100; normal:\$ 349. 95; you save\$ 249. 95 adobe pagemaker v 7. 0 pc-my price:\$ 80; normal:\$ 599. 95; you save\$ 519. 95 we do have full range software--macromedia, mc-afeee, adobee, coreldraw, microsoft, nero, pinnacle systems, powerquest, redhat, riverdeep, roxio, symantec, 321 studio 52 more popular titles for you>> click here for 52 more titles we ship to all countries including africa, finland & etc.. as where u located wonder why our prices are unbelievably low? we are currently clearing our goods at inc

redibily cheeap sale-priice in connection with the shutdown of our shop and the closure of the stockhouse. don't missss your lucky chance to get the best priicce on discoouunt software! we are the authorized agent and an established reseller offering oem licensing software. we poss esses all the necessary certificates issued to verify the authenticity of genuine oem products and granting the right for us to resell oem software products. super cheaep micros 0 ft, adob e & all kinds.. cliickk here to enjoy our superb discounnt! take me down "

0011.1999-12-14.farmer 0 king ranch " there are two fields of gas that i am having difficulty with in the unify system. 1. cage ranch-since there is no processing agreement th at accomodates this gas on king ranch, it is my understanding hpl is selling the liquids and king ranch is re-delivering to stratton. it is also my understanding that there is a. 05 cent fee to deliver this gas. we need a method to accomodate the volume flow on hpl at meter 415 and 9643. this gas will not be reflected on trans. usage ticket # 123395 and # 95394 since it is not being nominated from a processing agreement. we either, need to input a point nom (on hpl or krgp) at these meters to match the nom at meter 9610, or a deal for purchase and sale (if king ranch is taking title to the gas) needs to be input into sitara at these meters with the appropriate rate. i have currently input a point nom on krgp to accomodate this flow, so we can divert some of this gas to the current interstate sales that are being made. 2. fores t oil-there is a processing agreement that will accomodate flow from the meter (6396) into ki ng ranch. it is my understanding that this agreement was originally setup until texaco had t heir own processing agreement. i need confirmation that the gas from this meter should be nom inated on contract # (96006681) and that this agreement should have been reassigned to hplc. (it is currently still under hplr). if this gas is not nominated on the above transport agree ment, then once again we need to accomodate the flow volume on the hpl pipe with either a po int nom or a sitara deal at meters 415 and 9643."

0011.2001-06-28.SA\_and\_HP 1 " urgent business proposal," " mrs. regina rossman. # 263 sandton city johannesburg, south africa. e-mail: joel\_rosel @ mail. com attn: alhaji with due respect, trust and humility, i write you this proposal, which i believe, would be of great interest to you. i am mrs. regina rossman, the wife of late mr. joseph rossman of bles sed memory, before forces loyal to major johnny paul koromah killed my husband; he was the director general of gold and mining corporation (g. d. m. c.) of sierra leone. my husband was one of the people targeted by the rebel forces. on the course of the revolution in the count ry, prominent people were hijacked from their homes to an unknown destination. two days befo re his death, he managed to sneak a written message to us, explaining his condition and conc erning one trunk box of valuables containing money, which he concealed under the roof. he in structed me to take our son and move out of sierra leone, immediately to any neighboring coun try. the powerful peace keeping force of the (ecomog intervened to arrest the situation of mass killings by the rebels, which was the order of the day. eventually, it resulted into ful l war, i became a widow overnight, helpless situation, without a partner at the moment of ca lamity, and every person was running for his life. my and i managed to escape to south afri ca safely with the box and some documents of property title. the cash involved inside the bo

x was us\$ 30 million (thirty million united states dollars). due to fear and limited rights as a refugee, i deposited the items with a private security company in order not to raise an eyebrow over the box here in south africa in my son's name joel r. rossman. be informed that the real content of the box was not disclosed. meanwhile, i want to travel out of south africa entirely with this money for investment in your country because of political and economic stability and for future benefit of my child. i want you to assist us claim this box from the security company and get the money into your private account in your country so that we can invest the money wisely. we have in mind to establish a rewarding investment and good relationship with you. concerning the money, we are prepared to give you reasonable percentage of 30% for your kind assistance. also, we have decided to set aside 5% of the total sum for expenses that might be incurred by the parties in the course of the transfer both locally and externally. for the interest of this business, do not hesitate to contact my son mr. joel r. rossman on the above e-mail address immediately you receive this message for more information and to enable us proceed towards concluding all our arrangements. no other person knows about this money apart from my son and i. we await your most urgent response. please we need your fax/phone numbers for esiear communication. thanking you for your co-operation and god bless you. best regard, mrs. regina rossman. <http://xent.com/mailman/listinfo/fork>"

0011.2001-06-29.SA\_and\_HP 1 your membership exchange " content-type: text/plain; charset = iso-8859-1 your membership exchange, issue # 423 (june 28,2001) your place to exchange ideas, ask questions, swap links, and share your skills! you are a member in at least one of these programs -you should be in them all! bannersgomlm. com profitbanners. com cashpromotions. com mysiteinc. com timshometownstories. com freelinkecosystem. com myshoppingplace. com bannerco-op. com putpeel. com putpeel. net sellinternetaccess. com be-your-own-isp. com seventhpower. com today's special announcement: i'll put your ad on 2,000 sites free! free this week only, just for our subscribers! learn the secrets of marketing online on this global free teleseminar. limited lines available, only three time slots available... reserve today. you will not be disappointed! i'll be your personal host. we operate several sites, all successful. i'll teach you what to do and how to do it! click here: free teleseminar michael t. glaspie-founder we apologize for any technical problems you may have had with our last mailing, we are working hard to ensure that such problems will not occur again. in this issue: >>q & a questions: -using pictures as links? answers: -unblocking sites so i can access? z. oconan: access using a proxy g. bendickson: using a proxy to visit blocked sites >>member showcases >>member \* reviews \* -sites to review: # 124, # 125 & # 126! -site # 123 reviewed! -vote on your favorite website design! >>>>> questions & answers do you a burning question about promoting your website, html design, or anything that is hindering your online success? submit your questions to myinputare you net savvy? have you learned from your own trials and errors and are willing to share your experience? look over the questions each day, and if you have an answer or can provide help, post your answer to myinput @ aeopublishing. com be sure to include your signature file so you get credit (and exposure to your site). questions: from: moviebuff @ cliffhanger. com subject: using pictures as links i'm ch

anging my website and want to use pictures for the links to other pages. but, someone told me i should still put a 'click here' underneath all the pictures. to me, this removes all purpose of using the pictures. how can i get across that you click on the pictures to get to other pages without coming right out and saying so? for example, i have a page with actor and actresses information and just want to have a picture of my favorite stars to click on and change the picture every couple of days. mark moviebuff @ cliffhanger. com answers: from: zaak-zaako @ linkpaks. com subject: access using a proxy > from: cj (cj 5000 @ post. com) > subject: unblocking sites so i can access? (issue # 422) --> i am currently living in a place where the isp is blocking 50% of the web. i was told by someone that you can unblock these web sites by using a proxy, but i don't know what that means. i am wondering is there a way to get access to these sites?-- a proxy is easy to use if you use someone elses, they can be tricky to setup yourself. i have had very good results with surfola. basically you surf to their servers and then from there you surf through/from their servers. i have several places i surf from that block content. surfola easily bypasses them! its also free! you can also make money with them but i just use them to bypass anal retentive isp/corporate providers and because they allow me to surf anonymously! i have a detailed right-up on them at <http://linkpaks.com/paidtosurf/surfola.php> see there for more info. if anything is not clear feel free to ask. (email & sign-up links on <http://linkpaks.com/paidtosurf/surfola.php> page) zaak oconan netrepreneur [http://linktocash.com-internet businesses for under\\$ 100](http://linkpaks.com-surf&earn guides) <http://iteam.ws-the hottest product on the net today> + + + next answer-same question + + + from: wyn publishing-wynpublishing @ iname. com subject: using a proxy to visit blocked sites > from: cj (cj 5000 @ post. com) > subject: unblocking sites so i can access? (issue # 422) cj, two such sites that allows proxy surfing are: <http://www.anonymize.com> and <http://www.anonymizer.com>. however, if you cannot get to that site then obviously it will not work. also note, that if your isp is dictating to you which sites you may or may not visit, then it is time to change providers! gregory bendickson, wyn publishing over 28 free traffic exchange services reviewed in a fully customizable e-book. download yours free and get multiple signups while learning the art of free web traffic! [>>>>> website showcases examine carefully-those with email addresses included will trade links with you, you are encouraged to contact them. and, there are many ways to build a successful business. just look at these successful sites/programs other members are involved in... "" it's the most d-a-n-g-e-r-o-u-s book on the net "" email 20,000 targeted leads every single day! slash your time online to just 1-2 hours daily! build 11 monthly income streams promoting one url! start building your business- not everyone elses! \[http://www.roibot.com/w.cgi?r 8901\\\_bd\\\_shwc\]\(http://www.roibot.com/w.cgi?r 8901\_bd\_shwc\) is your website getting traffic but not orders? profile, analyze, promote, and track your site to get the results you want. fully guaranteed! free trial available! \[http://www.roibot.com/w.cgi?r 4887\\\_saa\]\(http://www.roibot.com/w.cgi?r 4887\_saa\) over 7168 sites to place your free ad! get immediate free exposure on thousands of sites. plus two free programs that will automatically type your ad for you! pay one time, promote all the time. if you have a product, service, opportunity and/or quality merchandise that appeals to people worldwide, reach your](http://www.trafficmultipliers.com)

target audience! for a fraction of what other large newsletters charge you can exhibit your website here for only \$ 8 cpm. why?... because as a valuable member we want you to be successful! order today-exhibits are limited and published on a first come, first serve basis. http://bannersgomlm.com/ezine >>>>> member \* reviews \* visit these sites, look for what you like and any suggestions you can offer, and send your critique to myinput@aeopublishing.com and, after reviewing three sites, your web site will be added to the list! it's fun, easy, and it's a great opportunity to give some help and receive an informative review of your own site. plus, you can also win a chance to have your site chosen for a free website redesign. one randomly drawn winner each month! sites to review: site # 124: http://www.bestwaytoshop.com dale pike rhinopez@aol.com site # 125: http://www.wedeliverparties.com dawn c lemons dclemons7@home.com site # 126: http://www.eclassifiedshq.com carol cohen opportunity@aol.com site reviewed: comments on site # 123: http://netsbestinfo.homestead.com/nbi.html dennis\_damorganjr@yahoo.com ~ ~ ~ i reviewed site 123 and found the size of the font to be too aggressive and i don't like mustard yellow for a background. also in the second or third paragraph is a misspelled word which should be ""first-come"" not as shown on the page. i feel a sample of the type of information offered in the newsletter should be displayed on the page as well as a sample of the free ads offered on the site. i will probably submit a free ad just to see the content of the newsletter. as has been mentioned many times, some information about the person doing the page is always good. we need some information about why this newsletter will be worthwhile to subscribe to. ~ ~ ~ dennis-i took a look at your site, and have recommendations for improving your page. 1-i use internet explorer and view web pages with my text size set to 'smaller'. the text you used was quite large, like a font used for a heading for all the text. by making the text size smaller it wouldn't feel like you were screaming at me. also, the background was just too much. 2-there were spelling errors in the text. often it might be difficult for you to spot these yourself if you see the page all the time, but have a friend look it over. spelling errors make the page look unprofessional. 3-offer a sample of your newsletter so people can see what it looks like before they subscribe. also, if you are asking for a person to give you their email address, you must have a privacy policy and let them know they can unsubscribe. 4-think about adding a form for people to subscribe to the newsletter. it looks more professional than just offering an email address to send to. 5-offer information about yourself, and the kinds of information your newsletter contains. maybe extend your site to include back issues or an archive to see what information you have offered in the past. 6-build another page for 'sponsoring info' and put prices on that page. remove all pricing information from the home page. ~ ~ ~ i feel that the background is a little too bold and busy for the text. i also believe that the text is too large which makes it difficult to read quickly, and forces the reader to scroll down unnecessarily. i noticed some spelling errors, and i think that a link to the classifieds site should be provided, and online payments should be accepted. a site that sells advertising should have advertisements on it! ~ ~ ~ this is a very clear site with nothing interfering with the message. i did not like the background colour, however that is personal, it did not detract

t from the information. i was tempted to sign up for the newsletter but would have liked a link to see a current issue. there was an error in the wording (a word missed) which needs correction and i think the fonts could be smaller. overall a non-confusing site which makes a nice change. \* cheers \* ~ ~ ~ could use a better background and the fonts are very large, there also are errors in the following paragraphs: "" first com-first serve "" and "" to place a sponsor advertisement, send your to my email "" ~ ~ ~ a single page site. it is necessary to subscribe to the webmaster's newsletter to see what he's doing, and it doesn't seem to me to be a way to get people to visit. i wouldn't, for example. he claims to have lots of tidbits of information that, he says, we probably didn't know, and this is possible, but in my opinion, he would be better served if he at least put some of the things out there for all to see-when the appetite, so to speak, if he want people to subscribe. as it is, i would not be other. ~ ~ ~ what does one expect from a site like netsbestinfo? some useful resources and some useful tips and also some forms of easy advertisement on the net. but what we get here is a newsletter with the owner (whose email reads damorgarjr @ yahoo. com) asking us to subscribe us to his newsletter for a free 4-line ad. he also tells of paid category of advertisements. this is all we get from a site which has a grand title. even the information about the newsletter is hardly impressive and is presented in about 35-to-40 points size which gets difficult to read. ~ ~ ~ a neat enough site but the background could be a little hard on the eyes. there is only really one problem with this page-its just an advertisement for a newsletter. no, scratch that, its an advertisement to place free ads in a newsletter. a bold enough move perhaps but i learned hardly anything about the newsletter itself and immediately started worrying about getting a flood of ads to my email account so i didn't even subscribe. presumably you'd want to get people to sign up so might i suggest splitting the page into the newsletter itself, perhaps a sample issue, a privacy policy and a promise not to drown in ads and then click for more info on your free ads.

vote on your favorite website design! help out the winner of the free website redesign by voting for your favorite! you can help out teddy at links 4 profit. com by taking a look at his site, then checking out the three new layouts jana of akkabay designs akkabay. com has designed specifically for him. after you've visited all three, vote for your favorite. to make this as easy as possible for you, just click on the e-mail address that matches your choice-you do not need to enter any information in the subject or body of the message. i have included a note from jana, and the links to teddy's current site along with the three new designs: > from jana: the pages have been created as non-frame pages although with minor modification, the pages could be adapted for use in a frames environment please take a look at the existing site: <http://www.links4profit.com> here are the 3 redesigns: vote for this design: design1 @ aeopublishing. com vote for this design: design 2 @ aeopublishing. com vote for this design: design 3 @ aeopublishing. com you will have all of this week to vote (through june 29), and we'll list the favorite and most voted for layout next week. teddy of course will be able to choose his favorite, and colors, font style/size, backgrounds, textures, etc, can all easily be changed on the "" layout "" that he likes. free website re-designs and original graphi

cs are provided to fln showcase winners courtesy of akkabay designs. <http://akkabay.com> if you have any questions about how this works or how you can participate, please email amy at moderator moderator: amy mossel posting: myinput@aeopublishing.com send posts and questions (or your answers) to: myinput@aeopublishing.com please send suggestions and comments to: moderator@aeopublishing.com to change your subscribed address, send both new and old address to moderator@aeopublishing.com see below for unsubscribe instructions. copyright 2001 aeopublishing -----end of your membership exchange this email has been sent to jm@netnoteinc.com at your request, by your membership newsletter services. visit our subscription center to edit your interests or unsubscribe. <http://ccprod.roving.com/roving/d.jsp?p=oo&id=bd7n7877.a4dfur67&m=bd7n7877> charset = iso-8859-1 your membership exchange, issue # 423 june 28,2001 this email was sent to jm@netnoteinc.com, at your request, by your membership newsletter services. visit our subscription center to edit your interests or unsubscribe. view our privacy policy. powered by "

0011.2003-12-18.GP 1 sup. er cha. rge your m. an hood today jvbe kfbytyra xes " hello, generic and super viagra (cialis) available online! most trusted online source! cialis or (super viag) takes affect right away & lasts 24-36 hours! for super viagra click here generic viagra costs 60% less! save a lot of money. for viagra click here both products shipped discretely to your door not interested? dycmpf s uuz biwven"

0011.2004-08-01.BG 1 dicine site on the net. " hello! nothing sharpens sight like envy. nature should have been pleased to have made this age miserable, without making it also ridiculous. searching for medication on the net? milestone anheuser we've got anything you will ever want. pibrochs treasonous free claiis sample with any order! arthur convincible titthable pilocystic initializes there are only two ways of getting on in the world: by one's own industry, or by the stupidity of others. my conscience aches but it's going to lose the fight. peace is the first thing the angels sang."

0012.1999-12-14.farmer 0 re: entex transistion " thanks so much for the memo. i would like to reiterate my support on two key issues: 1). thu-best of luck on this new assignment. howard has worked hard and done a great job! please don't be shy on asking questions. entex is critical to the texas business, and it is critical to our team that we are timely and accurate. 2). rita: thanks for setting up the account team. communication is critical to our success, and i encourage you all to keep each other informed at all times. the p & l impact to our business can be significant. additionally, this is high profile, so we want to assure top quality. thanks to all of you for all of your efforts. let me know if there is anything i can do to help provide any additional support. rita wynne 12/14/99 02:38:45 pm to: janet h wallis/hou/ect@ect, ami chokshi/corp/enron, howard b camp/hou/ect@ect, thu nguyen/hou/ect@ect, kyle r lilly/hou/ect@ect, stacey neuweiler/hou/ect@ect, george grant/hou/ect@ect, julie meyers/hou/ect@ect cc: daren j farmer/hou/ect@ect, kathryn cordes/hou/ect@ect, rita wynne/hou/ect, lisa csikos/hou/ect@ect, brenda f herod/hou/ect@ect, pamela c hambers/corp/enron@enron subject: entex transistion the purpose of the email is to recap the kickoff meeting held on yesterday with members from commercial and volume management concer

nig the entex account: effective january 2000, thu nguyen (x 37159) in the volume managment group, will take over the responsibility of allocating the entex contracts. howard and thu began some training this month and will continue to transition the account over the next few months. entex will be thu's primary account especially during these first few months as she learns the allocations process and the contracts. howard will continue with his lead responsibilities within the group and be available for questions or as a backup, if necessary (thanks howard for all your hard work on the account this year!). in the initial phases of this transition, i would like to organize an entex "" account "" team. the team (members from front office to back office) would meet at some point in the month to discuss any issues relating to the scheduling, allocations, settlements, contracts, deals, etc. this hopefully will give each of you a chance to not only identify and resolve issues before the finalization process, but to learn from each other relative to your respective areas and allow the newcomers to get up to speed on the account as well. i would encourage everyone to attend these meetings initially as i believe this is a critical part to the success of the entex account. i will have my assistant to coordinate the initial meeting for early 1/2000. if anyone has any questions or concerns, please feel free to call me or stop by. thanks in advance for everyone's cooperation..... julie-please add thu to the confirmations distributions list"

0012.1999-12-14.kaminski 0 re: new color printer " monday will be perfect! location-eb1 944 b r. c. 0011 co. # 100038 thanks kevin moore -----forwarded by kevin g moore/hou/ect on 12/14/99 10:44 am----- enron technology from: lyn malina 12/14/99 09:22 am to: kevin g moore/hou/ect @ ect cc: subject: re: new color printer i will order today for delivery on monday, unless you need faster delivery. please advise co/rd to charge against. thanks lyn kevin g moore 12/14/99 09:21 am to: lyn malina/hou/ect @ ect cc: subject: re: new color printer -----forwarded by kevin g moore/hou/ect on 12/14/99 09:17 am----- kevin g moore 12/14/99 08:13 am to: vince j kaminski/hou/ect @ ect, mike a roberts/hou/ect @ ect cc: subject: re: new color printer yes! right away, please also let me know the e. t. a. thanks, lyn kevin moore"

0012.2000-01-17.beck 0 global risk management operations " sally, congratulations. -----forwarded by cindy olson/corp/enron on 01/17/2000 09:07 pm----- from: rick causey 01/17/2000 06:04 pm sent by: enron announcements to: all enron worldwide cc: subject: global risk management operations recognizing enron's increasing worldwide presence in the wholesale energy business and the need to insure outstanding internal controls for all of our risk management activities, regardless of location, a global risk management operations function has been created under the direction of sally w. beck, vice president. in this role, sally will report to rick causey, executive vice president and chief accounting officer. sally's responsibilities with regard to global risk management operations will mirror those of other recently created enron global functions. in this role, sally will work closely with all enron geographic regions and wholesale companies to insure that each entity receives individualized regional support while also focusing on the follow

ing global responsibilities: 1. enhance communication among risk management operations professionals. 2. assure the proliferation of best operational practices around the globe. 3. facilitate the allocation of human resources. 4. provide training for risk management operations personnel. 5. coordinate user requirements for shared operational systems. 6. oversee the creation of a global internal control audit plan for risk management activities. 7. establish procedures for opening new risk management operations offices and create key benchmarks for measuring on-going risk controls. each regional operations team will continue its direct reporting relationship within its business unit, and will collaborate with sally in the delivery of these critical items. the houston-based risk management operations team under sue frusco 's leadership, which currently supports risk management activities for south america and australia, will also report directly to sally. sally retains her role as vice president of energy operations for enron north america, reporting to the ena office of the chairman. she has been in her current role over energy operations since 1997, where she manages risk consolidation and reporting, risk management administration, physical product delivery, confirmations and cash management for ena 's physical commodity trading, energy derivatives trading and financial products trading. sally has been with enron since 1992, when she joined the company as a manager in global credit. prior to joining enron, sally had four years experience as a commercial banker and spent seven years as a registered securities principal with a regional investment banking firm. she also owned and managed a retail business for several years. please join me in supporting sally in this additional coordination role for global risk management operations."

0012.2000-06-08.lokay 0 what do you want to know today? " "" a man with a new idea is a crank until he succeeds. "" -mark twain innovation, itself, is nothing new. the word comes to us from the latin innovatus, which is a good indication of how long the concept has been around. people have been searching for the "" next big thing "" for thousands of years. we have quite a tradition of innovation here at enron. although consistent innovation may sound like an oxymoron, we pride ourselves on consistently outpacing our peers with innovative ideas. how do you think enron can maintain its edge into the new century? what will be our "" next big thing? "" put your best foot forward, visit emeet and share your ideas in "" creativity and innovation "" that will keep enron at the top."

0012.2001-02-09.kitchen 0 travel " i will be out of the office this afternoon (friday) until wednesday night. (i will be available on my cell phone 713 306-6207) if you have any questions please feel free to contract my team for questions. i have been "" cross training "" both individuals so that we can be more effective in addressing var and trade related questions. thanks, frank bharat khanna (gas) ext. 54804 lacrecia davenport ext. 35782"

0012.2003-12-19.GP 1 NA great specials today on: tramadol phentermine 30 mg 60 more products to choose from. <http://wsc.settingt5.com/fp>

0013.1999-12-14.farmer 0 entex transistion " the purpose of the email is to recap the kickoff meeting held on yesterday with members from commercial and volume managment concerning the entex account: effective january 2000, thu nguyen (x 37159) in the volume managment

group, will take over the responsibility of allocating the entex contracts. howard and thu began some training this month and will continue to transition the account over the next few months. entex will be thu's primary account especially during these first few months as she learns the allocations process and the contracts. howard will continue with his lead responsibilities within the group and be available for questions or as a backup, if necessary (thanks howard for all your hard work on the account this year!). in the initial phases of this transition, i would like to organize an entex "" account "" team. the team (members from front office to back office) would meet at some point in the month to discuss any issues relating to the scheduling, allocations, settlements, contracts, deals, etc. this hopefully will give each of you a chance to not only identify and resolve issues before the finalization process, but to learn from each other relative to your respective areas and allow the newcomers to get up to speed on the account as well. i would encourage everyone to attend these meetings initially as i believe this is a critical part to the success of the entex account. i will have my assistant to coordinate the initial meeting for early 1/2000. if anyone has any questions or concerns, please feel free to call me or stop by. thanks in advance for everyone's cooperation..... julie-please add thu to the confirmations distributions list"

0013.1999-12-14.kaminski 0 re: new color printer " this is the color printer that is being ordered. here is the info. that i needed. thanks kevin moore -----

-----forwarded by kevin g moore/hou/ect on 12/14/99 08:19 am----- enron technology from: lyn malina 12/14/99 08:09 am to: kevin g moore/hou/ect @ ect cc: subject: re: new color printer kevin: the color printer we currently order is the 4500 n for \$ 275 3. 00. please let me know if this is the one you would like to order. thanks lyn kevin g moore 12/14/99 06:29 am to: lyn malina/hou/ect @ ect cc: subject: new color printer -----

-----forwarded by kevin g moore/hou/ect on 12/14/99 06:29 am----- kevin g moore 12/14/99 06:27 am to: shirley crenshaw/hou/ect @ ect, vince j kaminski/hou/ect @ ect, mike a roberts/hou/ect @ ect cc: subject: new color printer we are in need of a new color printer. we are also in the process of moving to the 19 th floor. we need the color printer a. s. a. p. if you would please, i need information concerning this matter whereby, we can get the printer ordered and delivered to our new location. thanks kevin moore"

0013.2001-04-03.williams 0 re: monday blues " good morning. i'm glad to hear that you are having a better day today. me, too so far. yeah, i stayed last night until like 7:45 and finished up that stuff with mike ettringer. so today should be a bit more chill for me which is awesome. anyhow, i hope nothing blows up over there for you. maybe we can go to get some coffee later or something. did you end up going out last night for some beers? i watched alli mcbeal and ate dinner. it was pretty exciting."

0013.2001-06-30.SA\_and\_HP 1 your membership community charset = iso-8859-1 " your membership community & commentary (june 29,2001) it's all about making money information to provide you with the absolute best low and no cost ways of providing traffic to your site, helping you to capitalize on the power and potential the web brings to every net-preneur. ---this issue contains sites who will trade links with you!--- ----- in this issue ----

----- 32 easy ways to breath new life into any webpage member showcase are you ready for your 15 minutes of fame? win a free ad in community & commentary | | | =====>> today's special announcement: | | | =====>> we can help you become an internet service provider within 7 days or we will give you \$ 100. 0 0!! click here we have already signed 300 ISPs on a 4 year contract, see if any are in your town at: click here you are a member in at least one of these programs -you should be in them all! bannersgomlm. com profitbanners. com cashpromotions. com mysiteinc. com timshometownstories. com freelinksnetwork. com myshoppingplace. com bannerco-op. com putpeel. com putpeel. net sellinternetaccess. com be-your-own-isp. com seventhpower. com ===== 32 easy ways to breath new life into any webpage ===== it's true. ask the ceos of yahoo. com and america online. they'll tell you it's true. send an email to terry dean or allen says or jim daniels and ask them about it. they'll agree 100% that it's true. don't just take my word for it. in fact, you can contact any of the 10,000 folks online selling web marketing resources, and they will all tell you emphatically, without question, no doubts whatsoever, that it is absolutely true. it's true. anyone can earn a living online. really, they can. but, it takes several very important components to join the 5% who are successful on the web. one of those necessities is a website. now, your website does one of two things... ... it either makes the sale, or it doesn't. for 95% of online businesses, their websites simply do not produce results. and there is a very simple reason for poor performance. poor sales letters. does your website convince people to make a purchase? if not, here are 32 easy ways to breathe new life into your sales letter...  
1) write your sales letter with an individual in mind. go ahead and pick out someone, a real person to write your sales letter to. doesn't matter if it is grandma or your next door neighbor or your cat. write your sales letter just like you are writing it to them personally. why? because when your potential customer reads, it then it will seem personal, almost like you wrote it with them in mind. too often, sales letters are written as if they were going to be read to an audience rather than one person. keep your sales letters personal, because one person at a time is going to read them. 2) use an illustration to get your point across. in my sales letters i have told stories about my car stalling on the side of the road to illustrate the idea that we must constantly add the fuel of advertising to keep our businesses running. i have compared the hype of easily making millions online to the chances of me riding bareback across montana on a grizzly bear. leads have read of how getting to the top of an oak tree relates to aggressively marketing online. people love a good story that pounds home a solid message. tell stories that illustrate a point you are trying to make. emphasize a benefit by sharing an account from the "" real world. "" it effectively creates interest and further establishes the point. 3) create an interest in the reader from the very first line. your first line of the sales letter should immediately create a desire in the reader to want to know more. go back to the beginning of this article. the first words were, "" it's true. "" i can guarantee you that either consciously or subconsciously you thought "" what's true? "" immediately, your mind wanted to know what i was talking about. before you even knew it you w

ere right here, 8 paragraphs into this article. carefully craft your first line. if you can immediately get them wanting to know more, you've got a winner. 4) use bullets. people spend a lot of time reading bulleted lists. in fact, they often reread them over and over. use bulleted lists to stress the benefits of your product or service, to spell out exactly what is included in your offer. use an extra space in between each bullet to really highlight each line and create a sense of more length to the list. 5) launch into a bullet list immediately. shortly after your opening line, immediately give the reader a bullet list of benefits to absorb. hit them with your best shot. pull out the big guns and stress "" just a few of "" the most important things the reader will discover. by offering a killer list early in your sales letter, you will automatically create a desire in the reader to continue through your ad copy. after all, if they are already interested after the first list of benefits, they will certainly be open to finding out even more reasons why your product or service will aid them.

6) just let it all flow out. write down everything that enters your mind as you are writing your sales letter. you can edit it later. if you just sit and start writing everything you know about your product or service and how it will benefit your customer, you will be amazed at how much information floods your mind. write it all down. then read through it-you'll be able to add a lot more detail to many of the points. edit it after you have exhausted all of your ideas.

7) make your sales letter personal. make sure that the words "" you "" and "" your "" are at least 4: 1 over "" i "" and "" my. "" your ad copy must be written about your customer not yourself. i'm not sure how the old advertising adage goes, but it's something like this, "" i don't care a thing about your lawn mower, i just care about my lawn. "" leads are n't interested in you or your products, they are interested in themselves and their wants and needs. when you are finished with your sales letter and have uploaded it to a test webpage, run a check at <http://www.keywordcount.com> and see what the ratio between "" you "" and "" your "" versus references to "" i, "" " me, "" " my, "" etc. it's a free service. make sure it's at least 4: 1 in favor of the customer.

8) write like you speak. forget all of those rules that your grammar teacher taught you. write your sales letters in everyday language, just like you would talk in person. don't be afraid to begin sentences with "" and "" or "" because. "" don't worry about ending a sentence with a preposition. write like you speak. your sales letter isn't the great american novel, so don't write it like you are ernest hemingway.

9) use short paragraphs consisting of 2-4 sentences each. long copy works... but long paragraphs do not. use short paragraphs that lead into the next paragraph. don't be afraid to use short sentences. like this one. or this. see what i mean? shorter paragraphs keep the interest of the reader. longer paragraphs cause eye strain and often force the reader to get distracted.

10) stress the benefits, not the features. again, readers want the burning question answered, "" what's in it for me? "" what need is it going to meet? what want is it going to fill? how is your product or service going to be of value or benefit to the reader? spell it out. don't focus on the features of your product or service, but rather how those features will add value to the life of your reader. for example: if you are selling automobile tires, you may very well have the largest assortment of tires in the world, but who cares? i do

n't care about your selection. but, i do care about keeping my 3-month-old baby girl safe while we are traveling. so, instead of focusing on your selection, you focus on the fact that my baby girl can be kept safe because you have a tire that will fit my car. you're not selling tires, you're selling safety for my family. stress the benefits, not the features. 11) keep the reader interested. some sales letters read like they are a manual trying to explain to me how i can perform some complicated surgery on my wife. they are filled with words and phrases that i need a dictionary to understand. unless you are writing to a very targeted audience, avoid using technical language that many readers might not understand. keep it simple, using words, language and information that are easy to understand and follow. 12) target your sales letter. when you are finished with your final draft of the sales letter, target it to a specific audience. for example: if you are selling a "" work at home "" product, then rewrite the sales letter by adding words in the headlines and ad copy that are targeted towards women who are homemakers. then, rewrite the same sales letter and target it to college students. write another letter targeting senior citizens. still another could be written to high school teachers wanting to earn extra income during summer vacation. the possibilities are endless. all you need to do is add a few words here and there in your ad copy to make it appear that your product or service is specifically designed for a target audience. "" work only 5 hours a week, "" would become "" college students, work only 5 hours a week. "" your sales letter is now targeted. upload all of the sales letters to separate pages on your website (you could easily target 100's of groups). then, simply advertise the targeted pages in targeted mediums. you could advertise the "" college students "" page in a campus ezine. the "" senior citizens "" page could be advertised at a retirement community message board. by creating these targeted sales letters, you can literally open up dozens of new groups to sell your existing product to. and, in their eyes, it looks like the product was a match made for them. 13) make your ad copy easy to follow. use short sentences and paragraphs. break up the sales letter with attention grabbing headlines that lead into the next paragraph. one thing that i have always found to work very well in sales letters... ... is to use a pause like this. start the sentence on one line, leaving the reader wanting to know more, and then finishing up on the next line. also, if you are going to use a sales letter that continues on several different pages of your website, use a catchy hook line at the end of each page to keep them clicking. "" let's get you started down the road to success, shall we? click here to continue. "" 14) use similes and metaphors for effect. when the customer purchases your product, they will generate "" a flood of traffic that would make noah start building another ark. "" if they do not order today, then they will "" feel like a cat that let the mouse get away. "" use words to create a picture in the readers'mind. when you think of superman, what comes to mind? immediately, we remember that he is "" faster than a speeding bullet. "" "" more powerful than a locomotive. "" "" able to leap tall buildings in a single bound. "" see how word pictures stick in our minds? 15) focus on one product or service. don't try to sell your customer multiple products at the same time. it only confuses the reader. keep your ad copy directed at one specific product or service. then, use other products and services as back-end produc

ts. 16) make it stand out. don't kid yourself. there are hundreds, maybe thousands out there on the web doing the same thing you are doing. how will you stand out among the crowd? your sales letter must inject personality. it must breathe of originality. your product or service is different. it's not like all of the rest. it is unique. right? your sales letter must separate you from the competition. it must create a feeling of "" you won't find this anywhere else. "" 17) be believable. "" earn\$ 54,000 in the next 24 hours!!! "" delete. good grief, do they think i am an idiot or something? get real. don't make outrageous claims that are obviously not the truth. you'll ruin your reputation. let me tell you a simple universal fact that cannot be reversed. once you have been branded a liar, you will never be anything but a liar. it doesn't matter if you launch the most respectable, honest business available anywhere, people will always have doubt because they remember the crazy stuff you've said before. be believable. don't exaggerate, mislead, stretch or distort the truth. 18) be specific. don't generalize your information, but rather be exact. instead of "" over 100 tips for losing weight "" use "" 124 tips for losing weight. "" by generalizing information, it creates doubt and questions in the reader's mind. "" what am i really getting here? does he even know? "" when you use specific information, the reader begins to think, "" this person must have counted. i know exactly what i can expect. "" "" platitudes and generalities roll off the human understanding like water from a duck, "" wrote claude hopkins in his classic book "" scientific advertising. "" "" they leave no impression whatsoever. "" 19) be complete. tell the reader everything they would want to know about your product or service. answer all of their questions, anything they would want to consider before making a purchase. think about it from their point of view. ask yourself, "" why wouldn't i buy this? "" then, address that in your sales letter. remove anything that would keep the reader from making the purchase. 20) use testimonials to boost your sales. share actual excerpts from what your current customers are saying about your product or service. many websites have an entire section or even a separate page that has endorsements and compliments listed. satisfied customers remove some of the doubt in the mind of the reader. "" if these people have found a lot of value and benefit in the product, then i probably will too. "" especially effective are testimonials from respected, well known "" authorities "" within your target field. 21) use headlines over and over throughout the sales letter. a headline isn't just relegated to the beginning of your ad copy. use them frequently-but don't overuse. a well- placed headline re-grabs the reader's attention, brings them deeper into the letter, and readies them for the next paragraph. you will want to spend as much time working on your headlines as you do the entire sales letter. they are that important. 22) avoid asking stupid questions. "" wouldn't you like to make\$ 1,000, 000 a year? "" "" doesn't that sound great? "" "" would you like to be as successful as i am? "" avoid any question that insults the intelligence of your reader or makes them feel like they are inferior. 23) offer a freebie even if the customer doesn't buy. if the customer decides he or she isn't going to make a purchase, then you want to follow-up with them later to try to influence them to buy in the future. by offering a free item, you can request their email address in order to obtain the freebie. by doing this, you can now follow-up with the customer

for a potential future sale. additionally, you can continue the sales process by having your ad copy, banners, flyers, etc. within the free item. and, of course, if your free item is a high quality, useful product or service which impresses the customer, they probably will be back as a customer soon. 24) use bonuses to overwhelm the reader. one of the things that i have found very effective in writing sales letters is to include bonus items that out-value the actual product i am offering. ginsu made this one famous. they were selling a set of steak knives, but before the commercial was finished, you had so many bonus items on the table it was hard to refuse. make sure you provide quality bonuses and not some worthless, outdated junk that damages the credibility of your main offer. 25) use connective phrases like "" but wait, there's more "" and "" but that's not all. "" these phrases effectively lead the reader from one paragraph to the next, particularly when the next paragraph is a bullet list of benefits, or leads into bonus items. again, the idea is more and more value and benefits to the reader. 26) always include a deadline. by including a deadline, you create a sense of urgency in the mind of the customer. "" if i don't order within 24 hours, then i won't get the bonuses. "" "" oh no, there are only 10 items remaining, i've got to hurry. "" let the customer know what they will be missing out on if they don't make the deadline. remember, they won't miss out on your products or bonuses, they will miss out on all of the benefits of your products. deadlines are very effective. every sales letter should have one. 27) tell them exactly how to order. be clear as to the order process. point them towards the order link. tell them what methods you offer. (i. e. credit cards, checks, etc.) make this process as simple and clear as can be. if it takes more than 2 steps, most people won't continue. 28) explain when the product will be delivered. how quickly will the order be processed? when will the order be available? let the customer know exactly what they can expect when they place their order. the more specific you can be here, the better. let them know that you have a system in place. "" operators are standing by. "" their order will be handled properly. tell them. 29) offer a money back guarantee. take away their last reason to hold back. offer a "" no questions asked "" 30 day guarantee. most people may not realize this, but in most cases, it's the law of the land. you are required to give them their money back if they are not satisfied with the product or service. since it's the law anyway, why not make it a benefit. let them know that they are purchasing your product or service risk-free. 30) instruct them to respond immediately. many people just need to read those words, "" act now! "" "" order today! "" "" click here to instantly place your order. "" you've got them this far, now tell them what you want them to do. get them to "" act fast! "" have you ever heard a mail order commercial on television that didn't prompt the viewer to order right way? 31) include a post script. people will always read the p. s. always. in fact, the p. s. is one of the most important parts of your sales letter. why? because in many cases the visitor at your website will scroll immediately down to the end of your page to see how much it is going to cost. a p. s. is a perfect place to recap your offer, so when they see your price tag, they will also see a very detailed description of what they will receive for their money. use your p. s. to restate your offer in detail. 32) include a second post script. you better believe if they read the first p. s.,

they will read a p. p. s. use this post script to remind them of the deadline or offer another bonus or point out some compelling factor that would make them want to order. i guarantee you they will read it. use these 32 tips and i guarantee you that you will see a significant increase in the amount of responses you receive from your sales letters. in fact, it would be impossible for your responses to not improve. copyright 2000 jimmy d. brown. all rights reserved worldwide.

----- about the author... jimmy d. brown is helping average people get out of the rat-race and earn a full-time living online. for more details on firing your boss and creating your own internet wealth, visit us right now at: \* special offer: join the profits vault through the above link and email me your receipt and you can have a free bonus copy of the terrific manual-how to profit from free ebooks guaranteed which i sell at:

===== member showcase =====  
===== examine carefully-those with email addresses included will trade links with you... you are encouraged to contact them. there are many ways to build a successful business -just look at these successful sites programs other members are involved in... affiliates of the world! top rated affiliate programs, excellent business opportunities, great marketing resources and free advertising for you! visit the site to trade links. <http://www.affiliates.uk.com> trade links-adrianbold @ affiliates. uk. com get insane amounts of traffic to your website. purchase 10,000 guaranteed visitors to your site and receive 5,000 free. more traffic = more money! less than 2 cents a visitor. space is limited. order now! <http://www.freepicklotto.com> trade links-businessopps @ aol. com celebration sale! \$ 99. 00 on casinos/ sportsbetting sites, lingerie stores, gift stores, adult sites toy stores. mention ad # bmlm 99 to receive this special sale price. order now! <http://www.cyberopps.com/?=bmlm99> just been released!! internet marketing guru corey rudl has just released a brand new version of his # 1 best-selling internet marketing course, "" the insider secret's to marketing your business on the internet "". a must have! so don't hesitate, visit.. <http://www.adminder.com/c.cgi?startbgmlmezine> we have a 260 page catalog with over 3000 gift items for men, women, children-a gift for everyone. we show 100 gift items on our web site alone, with the catalog you have access to the rest. we also feel we have the best prices on the web. visit at <http://www..net> trade links-georgel 932 me @ yahoo. com stop smoking-free lesson!! discover the secret to stopping smoking. to master these powerful techniques, come to <http://www.breath-of-life.net> for your free lesson. act now! p. s. tell someone you care about. trade links-jturco 3 @ hotmail. com if you have a product, service, opportunity or quality merchandise that appeals to people worldwide, reach your targeted audience! for a fraction of what other large newsletters charge you can exhibit your website here, and trade links for only\$ 8 cpm. compare that to the industry average of\$ 10-\$ 15 cpm. why?... because as a valuable member we want you to be successful! order today- showcases are limited and published on a first come, first serve basis. for our secure order form, click here: <http://bannersgomlm.com/ezine>  
===== are you ready for your 15 minutes of fame? =====  
===== one of the items we would like to include in community comment ary we'll need from you! here is your chance to showcase your marketing strategies, and i nee

d to hear from everyone who would like to 'blow your own horn' and be in the spotlight on center stage. it's a great way to enjoy recognition and publicity for yourself and your business, and will allow all members to duplicate your success and avoid the same 'setbacks'. please include... a little background history, how you got your start, a problem you have had and how you solved it, your greatest success, and any advice you have for someone beginning to market online. send your information to submit @ aeopublishing. com > with 'center stage' in the subject block. ====== win a free ad in community & commentary ====== to keep this interesting, how about this, every month we'll draw a name from the replies and that person will win one sponsorship showcase ad in the community commentary, for free. that's a value of over \$ 700. 00! respond to each weekly survey, and increase your chances to win with four separate entries. question of the week (06/29/01)... no right or wrong answers, and just by answering you are entered to win a showcase ad-free! ~ ~ ~ what is the goal of your website? ~ ~ ~ sell mailto: one @ aeopublishing. com get leads mailto: two @ aeopublishing. com build branding mailto: three @ aeopublishing. com provide information mailto: four @ aeopublishing. com other mailto: five @ aeopublishing. com to make this as easy as possible for you, just click on the e-mail address that matches your answer-you do not need to enter any information in the subject or body of the message. \* \* add your comments! follow directions above and add your comments in the body of the message, and we'll post the best commentaries along with the responses. you will automatically be entered in our drawing for a free sponsorship ad in the community commentary. please respond only one time per question. multiple responses from the same individual will be discarded. ====== ====== to change your subscribed address, send both new and old address to submit see below for unsubscribe instructions. please send suggestions and comments to: editor i invite you to send your real successes and showcase your strategies and techniques, or yes, even your total bombs, "" working together we can all prosper. "" submit for information on how to sponsor your membership community commentary visit: sponsorship showcase copyright 2001 aeopublishing. com email: your membership 2 @ aeopublishing. com voice: web: http:// www. aeopublishing. com this email has been sent to jm @ netnoteinc. com at your request, by your membership newsletter services. visit our subscription center to edit your interests or unsubscribe. http:// ccprod. roving. com/roving/d. jsp? p = oo & id = bd 7 n 7877. 6 w 8 clu 67 & m = bd 7 n 7877 charset = iso-8859-1 in this issue 32 easy ways to breath new life into any webpage member showcase are you ready for your 15 minutes of fame? win a free ad in community & commentary today's special announcement: this email was sent to jm @ netnoteinc. com, at your request, by your membership newsletter services. visit our subscription center to edit your interests or unsubscribe. view our privacy policy. powered by "

0013.2004-08-01.BG 1 take the reins " become your employer. substantial profit processing money judgments. from anywhere. control when you want to work. a substantial number of our members earn 5,000 us to 12,000 us per mo. outstanding customer support and assistance. here for more info while the couple were apparently examining the strange device, rob

started to his feet and walked toward them the crowd fell back at his approach, but the man and the girl were so interested that they did not notice himhe was still several paces away when the girl put out her finger and touched the indicator on the dial discontinue orange std, and then mail stop 1. 200 b, followed by a rub a to rob's horror and consternation the big turk began to rise slowly into the air, while a howl of fear burst from the crowdbut the boy made a mighty spring and caught the turk by his foot, clinging to it with desperate tenacity, while they both mounted steadily upward until they were far above the city of the desert the big turk screamed pitifully at first, and then actually fainted away from frightrob was much frightened, on his part, for he knew if his hands slipped from their hold he would fall to his death "

0014.1999-12-14.kaminski 0 re: new color printer " sorry, don't we need to know the cost, as well. -----forwarded by kevin g moore/hou/ect on 12/14/99 08:15 am----- kevin g moore 12/14/99 08:09 am to: shirley crenshaw/hou/ect @ ect, mike a roberts/hou/ect @ ect cc: subject: re: new color printer this information was also sent to it purchasing. i need to know what options we have and how soon it can be delivered. don't we need to know as well? before purchase. i also need a central location for this printer. thanks kevin moore sam mentioned hp 4500, i will check into it. -----forwarded by kevin g moore/hou/ect on 12/14/99 08:05 am----- shirley crenshaw 12/14/99 07:55 am to: kevin g moore/hou/ect @ ect cc: subject: re: new color printer kevin: what kind of information do you need? i thought you were going to look at some colored printer literature. sam seemed to be aware of a colored printer that might work for us. ask him. i don't think we need anything as big as "" sapphire "" . it will be located in your area on the 19 th floor. thanks! kevin g moore 12/14/99 06:27 am to: shirley crenshaw/hou/ect @ ect, vince j kaminski/hou/ect @ ect, mike a roberts/hou/ect @ ect cc: subject: new color printer we are in need of a new color printer. we are also in the process of moving to the 19 th floor. we need the color printer a. s. a. p. if you would please, i need information concerning this matter whereby, we can get the printer ordered and delivered to our new location. thanks kevin moore"

0014.1999-12-15.farmer 0 1st rev dec. 1999 josey ranch nom " fyi -----forwarded by susan d Trevino/hou/ect on 12/15/99 08:40 am----- bob withers on 12/14/99 05:11:06 pm to: susan d Trevino/hou/ect @ ect cc: stretch brennan, k evin mclarney, "" taylor vance (e-mail) "" subject: 1st rev dec. 1999 josey ranch nom susa n: as we discussed, this change was missed but was discussed with you last week. i apologize for the omission. i am checking with my field personnel and anticipate a further reduction (due to well production decreases) effective 12/15 which i will send under a separate email for an "" intra-day "" change wednesday. here's revised december 1999 (effective 12/9/99) setup for josey: (using 1. 081 btu/mcf) \* gas deliveries into hpl 12,300 mmbtu/d for kri (net reduction of 1,000 mmbtu/d) 12,300 mmbtu/d into hpl bob withers>< kcs energy, 5555 san felipe, suite 1200 houston, tx 77056 voice mail/page 713-964-9434"

0014.2001-02-12.kitchen 0 " correction--conference call on tuesday, february 13 (800-229

-028" " 1) ssb conference call tuesday, february 13, 2001 2:00 pm est beyond california: the power however, the markets foretell stronger prices across the country in 2001. we continue to recommend the power producers, based on both our power price and spark spread analyse s, which show strengthening spark spreads in the united states, despite the record highs recently seen in the natural gas markets. we highlight calpine, nrg energy, and mirant. our volatility indices demonstrate a dramatic shift in historical volatility to the western hubs and away from the midwestern markets of 1998-99. we expect volatility to persist in the west, likely accompanied by higher volatility in the remainder of the country in 2001. this benefits energy merchants, and we highlight enron, dynegy, duke, and el paso. dial in 800-229-0281 us 706-645-9237 intl replay 800-642-1687 us 706-645-9291 intl reservation 735670 (replay until 2/15) hosted by: raymond niles director power & natural gas research salomon smith barney 212-816-2086 raymond c. niles power/natural gas research salomon smith barney (212) 816-2807 ray. niles @ ssmb. com s"

0014.2001-07-04.SA\_and\_HP 1 new accounts # 2 c 6 e " this is a mime message content-type: multipart/alternative; boundary = "-----\_nextpart\_001\_0080\_01 bdf 6 c 7. fabaclbo "" content-type: text/plain; charset = "" iso-8859-1 "" content-transfer-encoding: quoted-printable \* \* \* \* \* this is an html message! \* \* \* \* \* content-type: text/html; charset = "" iso-8859-1 "" content-transfer-encoding: quoted-printable complete credit card processing systems for your business = 2 e interne = t-home based-mail order-phone order do you accept credit cards? your competition does! everyone approved-credit problems ok! approval in less than 24 hours! increase your sales by 300% start accepting credit cards on your website! free information, no risk, 100% confidential = 2 e your name and information will not be sold to third parties! home businesses ok! phone/mail order ok! no application fee, no setup fee! close more impulse sales! everyone approved! good credit or bad! to = apply today, please fill out the express form below = 2 e it contains all the information we need to get your account approved = 2 e for a = rea's that do not apply to you please put n/a in the box = 2 e upon receipt, we'll fax you with all of the all bank card application documents necessary to establish your merchant account = 2 e once returned we = can have your account approved within 24 hours = 2 e service industry standard us site inspection \$ 50-\$ 75 free shipping \$ 50-\$ 75 free warranty \$ 10 per month = free sales receipts \$ 10-\$ 50 free fraud screening \$ = 2 e 50-\$ 1 = 2 eo 0 per transaction free amex set up \$ 50-\$ 75 free 24 hour help line \$ 10 month free security bond \$ 5000-\$ 10,00 = 0 or more none this is a no obligation qualification form and is your first step to accepting credit cards = 2 e by filling out this form you will = not enter in to any obligations o = r contracts with us = 2 e we will use it to determine the best p = program to offer you based on the information you provide = 2 e you will be contacted by one of our representatives within 1-2 business days to go over = the rest of your account set up = 2 e note: all information provided to us will remain = 100% confidential !! apply free with no risk! please = e fill out the express application form completely = 2 eincomplete information may prevent us from properly processing your application = 2 e your full email = 1 address: be sure to use your full address

s (i = = 2 ee = 2 e user @ domain = 2 ecom) your name: business name: = business phone = number: home phone num = ber: type of busine = ss: retail business mail order business internet based busines = s personal credi = t rating: excellent good fair poor how soon would = you like a merchant account? your info = rmation is confidential, it will not be sold or used for any other purpose, = and you are under no obligation = 2 e your information will be used solely for the purpose of evaluating = your business or website for a merchant account so that you may begin acce = pting credit card payments = 2 e list removal/opt-out option click herem "

0014.2003-12-19.GP 1 get g: eneris via-gra for a s low as\$ 2. 50 per 50 mg her type http:// dutchess. reado 893. com/xm /

0014.2004-08-01.BG 1 today " hey, last week, jo and me were talking about my prblem and he said that he tried this new thing from this site and it worked great for him. co wry avoid http:// ns 2. herbalonline. biz/en/10/? aff\_id = 00450 footmen give me your thoughts on it and shoot me back an email and tell me what you found out if any. any input would be appreciated it. later, small flutter atreus absenteeism oriental stratagem hunt amigo attitudinal twice curio rental billion inclusive ruanda screwball birch walpole canary seward floe lisa monadic harriman capitol colloquy laborious expressway b's salaried beware delusive congratulatory ante."

0015.1999-12-14.kaminski 0 imperial capital-thursday schedule the following is the schedule for thursday's meeting with imperial capital. currently all meetings are sche duled in eb 2868. we are trying to arrange a different conference room and will let you know if we obtain one. 9:00 am-jim fallon-electricity 9:30 am-fred lagrasta-gas 10:00 am-lynda c lemmons and david kistler-weather 10:30 am-ed ondarza-pulp and paper 11:00 am-stinson gibner -research 12 noon-lunch 1:00 pm-5:00 pm-discussion thanks in advance to all who will come to speak in the morning.

0015.1999-12-15.farmer 0 2 nd rev dec. 1999 josey ranch nom " -----  
--forwarded by susan d trevino/hou/ect on 12/15/99 08:41 am----- bob withers on 12/15/99 08:28:08 am to: susan d trevino/hou/ect @ ect cc: stretch brennan, kevin mclarney, "'taylor vance (e-mail)'" subject: 2 nd rev dec. 1999 josey ranch nom here's revised december 1999 (effective 12/15/99) setup for josey: (using 1. 081 btu/mcf) \* gas deliveries into hpl 9,300 mmbtu/d for kri (net reduction of 3,000 mmbtu/d) 9,300 mmbtu/d into hp l bob withers>< kcs energy, 5555 san felipe, suite 1200 houston, tx 77056 voice mail/page 713-964-9434"

0015.2000-06-09.lokay 0 " tw weekly, 6-9-00" please see the attached file and let me know if you have any questions. ray stelly

0015.2001-02-12.kitchen 0 california update 2/12 " executive summary: the likelihood of there being an involuntary bankruptcy filing against the utilities appears to be greater than 60%. this is not only due to the circumstances surrounding the filed rate doctrine case mentioned below, but also because the 30-day cure period during which the utilities have not been paying their bills will end this week, increasing the likelihood that their spp creditors will

act against them. if the state loses the filed rate doctrine case today (which it is believed will happen) and there is an involuntary bankruptcy filing (or even the threat of one), this bail-out plan will be enacted quickly. 1. utilities vs. cpuc governor davis'attempt to delay the filed rate doctrine case will not succeed. the case will come before the judge on monday, february 12 th. the federal judge is expected to rule a summary judgment in favor of the utilities. however, the judge will not allow the utilities to collect the injunction release they are requesting (\$. 01/kwh). this will be left to an appellate court. the decision not to allow the utilities to collect this cash could trigger an involuntary bankruptcy filing, by the smaller ipps (as noted in our reports last week) or by larger out-of-state generators such as duke, reliant, and dynegy (as noted in the press this morning). this is expected next week or the week after. 2. prospects for a bailout bill ab 18 x is effectively dead from lack of support. senator burton, despite his public refusals, is moving closer to agreeing to a utility bail-out. the statements by burton and the ca state treasurer are merely a negotiating position. they are more concerned about the possibility of a bankruptcy than they appear. for burton, this is because of his long association with labor unions; the unions oppose the utility bankruptcy. burton has been negotiating with consumer advocate harvey rosenfield so as not to get attacked by him. the deal burton is expected to arrange would be for: bonds to be issued by the utilities rather than the state, but with some kind of state support (but less than "" full faith and credit of the state of ca, "" which would not pass). this would amount to the securitization of an extra charge on power bills (e. g. \$. 01, though the actual amount is not known). these bonds would be asset-backed securities, with payment receivable from rate payers. the term of these bonds is unknown; if the term is made quite long (e. g. 20 years), the associated rate increase could be very small. the state would purchase the utilities' transmission assets for a very high price. the amount of the extra charge on power bills will not be known until the price of the transmission assets is settled. if the state loses the filed rate doctrine case today (which it is believed will happen) and there is an involuntary bankruptcy filing (or even the threat of one), sources believe that this bail-out plan will be enacted quickly. as noted in an earlier report, the california legislature habitually does not act until things "" hit the wall. "" it is expected that the republicans in the legislature will follow burton's lead and support the bail-out plan. the assembly members in particular are not yet supportive of a plan of this nature. one moderate democratic legislator with whom our source spoke said that the opposition to a bail-out in her central valley district is "" 50 to 1. "" however, an involuntary filing (or the threat thereof) may be enough to trigger legislative support. it would allow the argument of an "" imminent threat "" to the people of the state of california. 3. consumer opposition harvey rosenfield is too short on cash to fight this plan and the associated rate increase with anything but a referendum. if the referendum fails, he intends to attack individual legislators (though not john burton, who reportedly has "" immunity "" from rosenfield). some legislators are thinking of voting for the bail-out plan, then supporting a referendum from rosenfield later. however, if the bail-out plan and rate increase described above is passed through the legislature as a bill (rather than put in place by the puc, for example)

le), it cannot be reversed by a referendum. as additional insurance against rosenfield, by supporting the bonds issued under the plan, the state can argue that its credit would be impaired in the case of a referendum to repeal the plan. while it is not clear that this is a factual argument, it still might impede any referendum."

0015.2001-07-05.SA\_and\_HP 1 get the best rate on a home loan! " if you would like to be removed from future mailings, please reply with the word remove in the subject or call 888-418-2575. let lenders compete for your business! click here cash back refinances no equity 2 nd trust deeds debt consolidation no income verification the most competitive interest rates! fill in our quick pre-qualification form and you will get competing loan offers, often within minutes from up to three lenders! click here there is never any fee to consumers for using this service. copyright?fffffa 9 1999,2000 eworld marketing, inc. 888-418-2575 this is not a solicitation or offer to lend money. eworld marketing is not a lender, broker or other financial intermediary. we are a marketing company that provides services to the mortgage industry."

0015.2003-12-19.GP 1 mr. uwe schmidt is a knave! don't buy any product from microsale! " dear friends, microsale sc kg, ltd, germany is a knave company and uwe schmidt is a big knave! we are cheated by microsale sc kg, ltd. remember, don't do any business with this company. don't buy any product from microsale or you will be cheated. this company has a bad reputation in germany and in other european countries, especially in belgium and netherlands. here's the story: mr. uwe schmidt, ceo microsale (r) sc kg he is also an auditor, but he doesn't have any commercial morality. he always made cheated l/c to other companies. many companies have been cheated by him. please take care!!! his products have many problems, such as cd player and mp 3 player! it's the detailed information of this company: dahlienweg 6 d 52 477 alsdorf, nrw germany, european union tel.-/ fax-box: + 49 89 1488230796 + 32 87 783518 + 32 87 783019 mobil: + 32 474 409055 email: microsale @ email. de microsale @ gmx. net uw e-schmidt-@ gmx. net web: http:// www. microsale. biz "

0016.1999-12-15.farmer 0 unify close schedule " the following is the close schedule for this coming month (year-end.) please keep in the mind the following key times.... unify to sitara bridge back 1:45 p.m. thursday, dec 30 th (all errors must be clear by this time) mass draft at 6 p.m. thursday evening, dec 30 th. accrual process begins friday morning, dec 31 st at 6:30 a.m. (if your group impacts the accrual, please ensure that the necessary people are available for support if needed, as this is an enron holiday.) please feel free to contact me should you have any questions. thank you, melissa x 35615"

0016.2001-02-12.kitchen 0 fw: meeting with jeff skilling " louise, per our conversation of last week, you might be interested in the following meetings. k -----original message----- from: chapman, kay sent: wednesday, february 07,2001 5:55 pm to: taylor, liz; heathman, karen; daw, nicki; taylor, liz; kimberly hillis/hou/ect @ enron; sera, sherri; lehr, tonai; watsen, denys; gutierrez, anabel cc: chapman, kay subject: meeting with jeff skilling dave de lainey has asked that i contact each of you for the following meetings: date: february 22,2001 date: february 22,2001 thursday thursday time: 9:00 am-9:45 am time: 9:45 am-10:30 am loc

ation: mr. skilling's office location: mr. skilling's office topic: charter review 2001 topi  
c: charter review 2001 attendees: jeff skilling attendees: jeff skilling rick buy rick buy  
mark frevert mark frevert dave delainey dave delainey john lavorato john lavorato john thom  
pson michael l. miller scott josey if you have any questions, please feel free to call me.  
thanks, kay 3-0643"

0016.2001-07-05.SA\_and\_HP 1 get the best rate on a home loan! " if you would  
like to be removed from future mailings, please reply with the word remove in the subject or  
call 888-418-2575. let lenders compete for your business! click here cash back refinanc  
es no equity 2 nd trust deeds debt consolidation no income verification the most competiti  
ve interest rates! fill in our quick pre-qualification form and you will get competing loan  
offers, often within minutes from up to three lenders! click here there is never any fee t  
o consumers for using this service. copyright?fffffa 9 1999,2000 eworld marketing, inc. 888-  
418-2575 this is not a solicitation or offer to lend money. eworld marketing is not a lende  
r, broker or other financial intermediary. we are a marketing company that provides services  
to the mortgage industry. "

0016.2001-07-06.SA\_and\_HP 1 your membership community charset = iso-8859-1 " your  
membership community & commentary (july 6,2001) it's all about making money information to p  
rovide you with the absolute best low and no cost ways of providing traffic to your site, he  
lping you to capitalize on the power and potential the web brings to every net-preneur. ---th  
is issue contains sites who will trade links with you!--- ----- in this issue -----  
----- internet success through simplicity member showcase win a free ad in community & c  
ommentary | | | =====> today's special announcement: | | |=  
=====> we can help you become an internet service provider with  
in 7 days or we will give you\$ 100. 00!! click here we have already signed 300 ips on a 4 y  
ear contract, see if any are in your town at: click here you are a member in at least one o  
f these programs -you should be in them all! bannersgomlm. com profitbanners. com cashprom  
otions. com mysiteinc. com timshometownstories. com freelinksnetwork. com myshoppingplace.  
com bannerco-op. com putpeel. com putpeel. net sellinternetaccess. com be-your-own-isp. c  
om seventhpower. com ===== internet success through simplicit  
y ===== every day of the week, i get questions from people all  
over the world, including my no bs gimg members, wanting to know some of the most valuable ""  
secrets "" to my on-going internet success. let me say, above all else, i don't believe ther  
e are any \* true \* "" secrets "" to success on the net. what you do to become successful in  
the online world is not a "" secret "", in my opinion. most successful people follow simple,  
clear, repeatedly-proven strategies to succeed, whether on the net or off. but, when it com  
es to someone asking for advice, consultation, or simply asking, "" what's your secret? "",  
i have to blush & say... persistence and personality. of course, i always follow the advice  
with my own little disclaimer: what makes me successful may not work the same for you... & y  
our first lesson is to get over the deep-seeded idea that success-of any kind, in my opinion  
-is somehow an unknown, unattainable secret. clearly, it is not. it's not unknown. it's not u

nattainable. it's not years of digging to find the "" secrets "" to internet riches. one thing that "" gets to me "" so often in my work as an internet consultant, author and internet success strategist is that so many people on the net seem to have this incredibly huge mental block that stands between themselves and success on the net. it's almost as if they've been barraged by so many claims of what works and what doesn't work, and so many long, complicated routes to actually succeeding in their online venture, that "" success "" is the equivalent of a 100-foot high brick wall. it's not that difficult, my friends! it is not that complicated!! long-time friend and business associate rick beneteau has a new ebook out called brandin g you & breaking the bank. get it!! [http://www.roibot.com/bybb.cgi?im=7517\\_bybtb](http://www.roibot.com/bybb.cgi?im=7517_bybtb). but, the reason i mention this is the fact that he talks so dynamically about the true simplicity of making your online venture a success. and, yes, rick & i come from the same school of "" self marketing ""-marketing you! obviously, that's the core of his excellent new ebook, and i couldn't agree with him more. point being, \* you \* are everything you do online to succeed. you are your web site, your business, your marketing piece, your customer service, your customers' experiences with your business--all of it, is you! read his ebook & you'll see more of what i'm saying. the matter at hand is that brick wall you might have standing high as you can see, blocking the path between you & internet success. listen to me-it is not real ok? it doesn't exist. there's nothing there to fear to begin with... get over it!! what i'm telling you is, the only thing standing between you and the success you most desire... is yourself. when you realize this, you will tear down that brick wall by means of complete and instantaneous disintegration. it will no longer exist \* in your mind \*, which is the only "" real "" place it ever was anyhow! yes, "" persistence and personality "" inherently includes honesty, integrity, accountability, and many other qualities but you also have to hone in on your ultimate goals and realize that probably the most valuable, powerful key to your success... is you! that may be the most incredible "" secret "" we ever uncover in our lifetime! and, trust me, that brick wall won't ever get in your way again... unless you let it. talk about simple!! bryan is a "" veteran "" internet consultant, author, internet success strategist & marketer. he publishes mega-success. com chronicles to over 11,500 subscribing members, authors articles which appear all over the net, and helps hundreds of wealth-hungry people in their journey to internet success. bryan is also director of his no bs guerrilla internet marketing group at <http://.com> & a fantastic new joint venture partners program for that site. bryan hall is a founding member and the development consultant for the prestigious icop (tm) at <http://www.i-cop.org/1016.htm> you can reach bryan at 877. 230. 3267 or by emailing him directly at bryan.hall@mega-success.com ===== member showcase ===== examine carefully-those with email addresses included will trade links with you... you are encouraged to contact them. there are many ways to build a successful business-just look at these successful sites programs other members are involved in... get insane amounts of traffic to your website. purchase 10,000 guaranteed visitors to your site and receive 5,000 free. more traffic = more money! less than 2 cents a visitor. space is limited. order now! <http://www.freepicklotto.com> trade links-businessopps

@ aol. com stop smoking-free lesson!! discover the secret to stopping smoking. to master these powerful techniques, come to <http://www.breath-of-life.net> for your free lesson. act now! p. s. tell someone you care about. trade links-jturco 3 @ hotmail. com celebration sale! \$ 99. 00 on casinos/sportsbetting sites, lingerie stores, gift stores, adult sites toy stores. mention ad # bmlm 99 to receive this special sale price. order now! <http://www.cyberopps.com/?=bmlm 99> affiliates of the world! top rated affiliate programs, excellent business opportunities, great marketing resources and free advertising for you! visit the site to trade links. <http://www.affiliates.uk.com> trade links-adrianbold @ affiliates. uk. com just been released!! internet marketing guru corey rudl has just released a brand new version of his # 1 best-selling internet marketing course, "" the insider secret's to marketing your business on the internet "". a must have! so don't hesitate, visit.. <http://www.adminder.com/c.cgi?startbgmlmezine> we have a 260 page catalog with over 3000 gift items for men, women, children-a gift for everyone. we show 100 gift items on our web site alone, with the catalog you have access to the rest. we also feel we have the best prices on the web. visit at <http://www..net> trade links-georgel 932 me @ yahoo. com if you have a product, service, opportunity or quality merchandise that appeals to people worldwide, reach your targeted audience! for a fraction of what other large newsletters charge you can exhibit your website here, and trade links for only\$ 8 cpm. compare that to the industry average off\$ 10-\$ 15 cpm. why?... because as a valuable member we want you to be successful! order today- showcases are limited and published on a first come, first serve basis. for our secure order form, click here: <http://bannersgomlm.com/ezine> ====== ====== ====== ====== ====== win a free ad in community & commentary ====== ====== ====== to keep this interesting, how about this, every month we'll draw a name from the replies and that person will win one sponsorship showcase ad in the community commentary, for free. that's a value of over\$ 700. 00! respond to each weekly survey, and increase your chances to win with four separate entries. question of the week (07/06/01)... no right or wrong answers, and just by answering you are entered to win a showcase ad-free! ~ ~ ~ do you spend more or less time ~ ~ ~ ~ online in the summer months? ~ ~ ~ more mailto: one @ aeopublishing. com less mailto: two @ aeopublishing. com same mailto: three @ aeopublishing. com to make this as easy as possible for you, just click on the e-mail address that matches your answer-you do not need to enter any information in the subject or body of the message. \* \* add your comments! follow directions above and add your comments in the body of the message, and we'll post the best commentaries along with the responses. you will automatically be entered in our drawing for a free sponsorship ad in the community commentary. please respond only one time per question. multiple responses from the same individual will be discarded. last weeks's results (06/29/01) ~ ~ ~ what is the goal of your website? ~ ~ ~ sell 40% get leads 20% build branding 5% provide information 20% other 15% comments: ----- our web site is initially designed to get leads, build branding, and provide information..... with a 12 month goal of selling our service more specifically via a shopping cart. we offer a service and at this time take deposits and payments vi

a our site. our site has been up less than 2 months and our expectation was that we would refer to our site for leads developed in traditional media and by referral for more information, and to make a professional impression on someone you may not meet before providing service. the growth of our customer base shopping on line has grown outside of anyone's expectations..... certainly mine and i've been in this business for 25 years. the internet is not dead in the horse business, it is just getting it's legs, and the folks using it want to get all the ancillary services on-line as well. our site (the first we've developed) has exceeded our expectations, and we aren't satisfied with it yet..... we just wanted to get it there for information! jeff and rebecca marks <http://www.grand-champion.com> branding. while quality customer service and product have been and will always be our top priority brand building zesto is our most challenging task. zesto. com ranks very high and most often # 1 or 2 on all major search engines and directories even yahoo entering the keyword zesto. the problem is simply that, who if anyone would type the keyword zesto, therefore we must try to build our brand by ensuring that generic keywords associated with our products (citrus peel) are used throughout our site as well as search engine submissions. fortunately owning a non generic domain short, easy to remember and trademarked works in our favor because the marketability potential is limitless.

arlene turner <http://www.zesto.com> ====== to change your subscribed address, send both new and old address to submit see below for unsubscribe instructions. please send suggestions and comments to: editor i invite you to send your real successes and showcase your strategies and techniques, or yes, even your total bombs, "" working together we can all prosper. "" submit for information on how to sponsor your membership community commentary visit: sponsorship showcase copyright 2001 aeopublishing. com email: [yourmembership2@aeopublishing.com](mailto:yourmembership2@aeopublishing.com) voice: web: <http://www.aeopublishing.com> this email has been sent to jm@netnoteinc.com at your request, by your membership newsletter services. visit our subscription center to edit your interests or unsubscribe. <http://ccprod.roving.com/roving/d.jsp?p=oo&id=bd7n7877>. 7 giv 5 d 57 & m = bd7n7877 charset = iso-8859-1 in this issue internet success through simplicity member showcase win a free ad in community & commentary today's special announcement: win a free ad in community & commentaryto keep this interesting, how about this, every month we'll draw a name from the replies and that person will win one sponsorship showcase ad in the community commentary, for free. that's a value of over\$ 700. 00! respond to each weekly survey, and increase your chances to win with four separate entries. question of the week (07/06/01)... no right or wrong answers, and just by answering you are entered to win a showcase ad-free! ~ ~ ~ do you spend more or less time ~ ~ ~ ~ ~ online in the summer months? ~ ~ ~ more <mailto:one@aeopublishing.com> less <mailto:two@aeopublishing.com> same <mailto:three@aeopublishing.com> to make this as easy as possible for you, just click on the e-mail address that matches your answer-you do not need to enter any information in the subject or body of the message. \* \* add your comments! follow directions above and add your comments in the body of the message, and we'll post the best commentaries along with the responses. you will automatically be entered in our drawing for a free sponsorship ad in the

community commentary. please respond only one time per question. multiple responses from the same individual will be discarded. last week's results (06/29/01) ~ ~ what is the goal of your website? ~ ~ sell 40% get leads 20% build branding 5% provide information 20% other 15% comments: ----- our web site is initially designed to get leads, build branding, and provide information..... with a 12 month goal of selling our service more specifically via a shopping cart. we offer a service and at this time take deposits and payments via our site. our site has been up less than 2 months and our expectation was that we would refer to our site for leads developed in traditional media and by referral for more information, and to make a professional impression on someone you may not meet before providing service. the growth of our customer base shopping on line has grown outside of anyone's expectations..... certainly mine and i've been in this business for 25 years. the internet is not dead in the horse business, it is just getting it's legs, and the folks using it want to get all the ancillary services on-line as well. our site (the first we've developed) has exceeded our expectations, and we aren't satisfied with it yet..... we just wanted to get it there for information! jeff and rebecca marks <http://www.grand-champion.com> branding. while quality customer service and product have been and will always be our top priority brand building zesto is our most challenging task. zesto. com ranks very high and most often # 1 or 2 on all major search engines and directories even yahoo entering the keyword zesto. the problem is simply that, who if anyone would type the keyword zesto, therefore we must try to build our brand by ensuring that generic keywords associated with our products (citrus peel) are used throughout our site as well as search engine submissions. fortunately owning a non generic domain short, easy to remember and trademarked works in our favor because the marketability potential is limitless. arlene turner <http://www.zesto.com> to change your subscribed address, send both new and old address to submit see below for unsubscribe instructions. please send suggestions and comments to: editor i invite you to send your real successes and showcase your strategies and techniques, or yes, even your total bombs, "" working together we can all prosper. "" submit for information on how to sponsor your membership community commentary visit: sponsorship showcase copyright 2001 aeopublishing. com email us:: visit our site phone: this email was sent to jm@netnoteinc.com, at your request, by your membership newsletter services. visit our subscription center to edit your interests or unsubscribe. view our privacy policy. powered by "

0016.2003-12-19.GP 1 ativan. n vicodin. n xanax. x valium. m dxqrgu many specials running this week the re. al thing not like the other sites that imitate these products. n o hidd. en char. ges-fast delivery vic. odin val. ium xan. ax via. gra diaz. epam alpra. zol am so. ma fior. icet amb. ien stil. nox ult. ram zo. loft clon. azepam at. ivan tr. amadol xeni. cal cele. brex vi. oxx pro. zac bus. par much m. ore.... if you have received this in error please use <http://www.nowbetterthis.biz/byee.html> w g snhezkjzhisbpjhgx hcokyovrd sprayz klei vzxoaxqhg kvie

0016.2004-08-01.BG 1 important news for usavyt customers. " dear cheapsoft customer, my name is annie kincaid, and i work at cheapsoft llc. you are important to me! you spe

nd your money and time on cheapsoft, and i want to let you know that we have finished update our programs store. i want to remind you that we are offering now more than 1500 popular software for low price with your personal customer's discount. please spend few moments of yours precious time to check our updated software store: <http://www.dutyfreesoft4all.info> with regards, customer service department, annie kincaid"

0017.1999-12-14.kaminski 0 a paper of mine " vince, i have written a paper, which supposedly is going to be published in the february 2000 issue of eprm, probably after some editorial cuts (at least this is what i am being told by them). i would appreciate your thoughts if you would have time to read it. regards, martin -userconf. doc"

0017.2000-01-17.beck 0 global risk management operations " congratulations, sally!!! kk -----forwarded by kathy kokas/corp/enron on 01/17/2000 08:08 pm-----

from: rick causey 01/17/2000 06:04 pm sent by: enron announcements to: all enron worldwide cc: subject: global risk management operations recognizing enron's increasing worldwide presence in the wholesale energy business and the need to insure outstanding internal controls for all of our risk management activities, regardless of location, a global risk management operations function has been created under the direction of sally w. b eck, vice president. in this role, sally will report to rick causey, executive vice presiden t and chief accounting officer. sally's responsibilities with regard to global risk managem ent operations will mirror those of other recently created enron global functions. in this r ole, sally will work closely with all enron geographic regions and wholesale companies to ins ure that each entity receives individualized regional support while also focusing on the foll owing global responsibilities: 1. enhance communication among risk management operations professionals. 2. assure the proliferation of best operational practices around the globe. 3. fa cilitate the allocation of human resources. 4. provide training for risk management operation s personnel. 5. coordinate user requirements for shared operational systems. 6. oversee the creation of a global internal control audit plan for risk management activities. 7. establis h procedures for opening new risk management operations offices and create key benchmarks for measuring on-going risk controls. each regional operations team will continue its direct repo rting relationship within its business unit, and will collaborate with sally in the delivery of these critical items. the houston-based risk management operations team under sue frusco's leadership, which currently supports risk management activities for south america and aus tralia, will also report directly to sally. sally retains her role as vice president of energ y operations for enron north america, reporting to the ena office of the chairman. she has be en in her current role over energy operations since 1997, where she manages risk consolidati on and reporting, risk management administration, physical product delivery, confirmations an d cash management for ena's physical commodity trading, energy derivatives trading and fina ncial products trading. sally has been with enron since 1992, when she joined the company as a manager in global credit. prior to joining enron, sally had four years experience as a com mercial banker and spent seven years as a registered securities principal with a regional inv estment banking firm. she also owned and managed a retail business for several years. please

join me in supporting sally in this additional coordination role for global risk management operations."

0017.2001-04-03.williams 0 monday blues " bill, i am having such a terrible day. i am so frustrated. can you believe it is only monday? ah! anyhow, i hope your day is going much better than mine. when i saw you earlier, you looked kinda angry or something. i hope i was just imaging that. anyhow, i'd better get back to work. i'll talk to you later."

0017.2003-12-18.GP 1 get that new car 8434 people nowthe weather or climate in a ny particular environment can change and affect what people eat and how much of it they are able to eat.

0017.2004-08-01.BG 1 super-discounts on ambien and soma " up to 80% savings on xanax, valium, phentermine, viagra here andorra elmira pompey cankerworm rush curricula k askaskia whitehorse devoid stacy haunch curtain quadrangular prefix axe beck dubhe canyonu's copenhagen adolescent martensite bucolic triassic baccarat spigot macarthur ague fraternal textual militarism flynn lobster plushy aphrodite hillmancarthage cagey nostalgia lineal mauricio glandular columnar doff strangulate cryogenic phrasemake carrie clamp pet express indubitable extremal crapbedspring squill hydroxylate cannot keyes rosalie bestowal ncaa brighton carriage mesopotamia doctoral phonetic samarium nearby psychotic manitoba cornet delinquent novak brim pun ecole exultant cheeky griddle ambrose descendant forever affectate scuttle"

0017.2004-08-02.BG 1 your winning notice. " pacific international lottery organisation. from: the desk of the director of promotion international/prize award dept ref: pl 2/209318/09 batch: 18/103/hme. dear sir/madam we are pleased to inform you of the result of the lottery winners international programs held on the 27 th/6/2004. your e-mail address attached to ticket number 436425795822-5022 with serial number 6614102, batch number 8561513507, lottery ref number 7675213911 and drew lucky numbers 7-9-4-17-34-44 which consequently won in category c, you have therefore been approved for a lump sum pay out of us\$ 1. 500,000. 00 (one million five hundred thousand united states dollars) congratulations!!! due to mix up of some numbers and names, we ask that you keep your winning information confidential until your claim has been processed and your money remitted to you. this is part of our security protocol to avoid double claiming and unwarranted abuse of this program by some participants. all participants were selected through a computer ballot system drawn from over 40,000 company and 20,000, 000 individual email addresses and names from all over the world. this promotional program takes place every year. this lottery was promoted and sponsored by association of software producers. we hope with part of your winning, you will take part in our next year us\$ 20 million international lottery. to file for your claim, please contact our fiducial agent: mr. rook van nas magnum securities company. amsterdam netherland. email: admin\_magnumo @ mail 2 netherlands. com tel:: + 31615304791 remember, all winning must be claimed not later than 6 th of august, 2004. after this date all unclaimed funds will be included in the next stake. please note in order to avoid unnecessary delays and complications please remember to quote your reference number and batch numbers in all correspondence. furthermore, should there be any change of address do inform our agent as soon as possible. congratulations once more from our members

of staff and thank you for being part of our promotional program. note: anybody under the age of 18 is automatically disqualified. yours sincerely, john smith lottery coordinator this email was sent using the webmail feature @ pc bytesize"

0018.1999-12-14.kaminski 0 invitation to speak at power 2000 " hi vince it is my great pleasure to invite you to speak at power 2000 which will be in houston on 9 & 10 may 2000. would you be interested in chairing one of the streams on day 2 of the conference? or making a full presentation on one of the days? please let me know which talks interest yo u. obviously, some of the talks are no longer available but i would like to give you a choice as much as possible. please could you get back to me asap on 212 925 1864 ext 151 or by return email. i very much hope you can make the dates as i'm very keen to have you participate at power. not to flatter you unnecessarily, but i know that a lot of people come to our conferences to hear what you have to say. best regards emma -invite. doc"

0018.2001-07-13.SA\_and\_HP 1 [ilug] we need your assistance to invest in your coun try " dear sir/madam, i am well confident of your capability to assist me in a transaction for mutual benefit of both parties, ie (me and you) i am also believing that you will not expose or betray the trust and confidence i am about to establish with you. i have decided to contact you with greatest delight and personal respect. well, i am victor sankoh, son to mr. foday sankoh who was arrested by the ecomog peace keeping force months ago in my country sierra leone. few days before the arrest of my father, he confided in me and ordered me to go to his underground safe and move out immediately, with a deposit agreement and cash receipt he made with a security company in abidjan cote d'ivoire where he deposited one iron box containing usd\$ 22 million dollars cash (twenty two million dollars). this money was made from the sell of gold and diamond by my father and he have already decided to use this money for future investment of the family before his arrest. thereafter, i rushed down to abidjan with these documents and confirmed the deposit of the box by my father. also, i have been granted political stay as a refugee by the government of cote d'ivoire. meanwhile, my father have instructed me to look for a trusted foreigner who can assist me to move out this money from cote d'ivoire immediately for investment. based on this, i solicit for your assistance to transfer this fund into your account, but i will demand for the following requirement: (1) could you provide for me a safe bank account where this fund will be transferred to in your country or another neaarby country where taxation will not takegreat toll on the money? (2) could y ou be able to assist me to obtain my travelling papers after this transfer to enable me come over to meet you in your country for theinvestment of this money? (3) could you be able to introduce me to a profitable business venture that would not require much technical expertise in your country where part of this fund willbe invested? please, all these requirements are urgently needed as it will enable me to establish a stronger business relationship with you hence i will like you to be the general overseer of the investment thereafter. i am a christ ian and i will please, want you to handle this transaction based on the trust i have establis hed on you. for your assistance in this transaction, i have decided to offer you 12% percen t commission of the total amount at the end of this business. the security of this business

is very important to me and as such, i would like you to keep this business very confidential. i shall be expecting your urgent reply. thank you and god bless you. victor sankoh -- irish linux users' group: ilug @ linux. ie <http://www.linux.ie/mailman/listinfo/ilug> for (un) subscription information. list maintainer: listmaster @ linux. ie"

0018.2003-12-18.GP 1 await your response " dear partner, we are a team of government officials that belong to an eight-man committee in the presidential cabinet as well as the senate. at the moment, we will be requiring your assistance in a matter that involves investment of monies, which we intend to transfer to your account, upon clarification and a workable agreement reached in consummating the project with you. based on a recommendation from an associate concerning your integrity, loyalty and understanding, we deemed it necessary to contact you accordingly. all arrangements in relation to this investment initiative, as well as the initial capital for its take off has been tactically set aside to commence whatever business you deemed fit, that will turn around profit favourably. we request you immediately contact us if you will be favorably disposed to act as a partner in this venture, and possibly will afford us the opportunity to discuss whatever proposal you may come up with. also bear in mind that the initial capital that we shall send across will not exceed \$ 13,731, 000,00 usd (thirteen million seven hundred and thirty one thousand united states dollars) so whatever areas of investment your proposal shall cover, please it should be within the set aside capital. in this regard, the proposal you may wish to discuss with us should be comprehensive enough for our better understanding; with special emphasis on the following: 1. the tax obligation in your country 2. the initial capital base required in your proposed investment area, as well as; 3. the legal technicalities in setting up a business in your country with foreigners as share-holders 4. the most convenient and secured mode of receiving the funds without our direct involvement. 5. your ability to provide a beneficiary/partnership account with a minimal deposit, where we shall transfer the funds into subsequently. another area that we wish to explicitly throw more light on, is the process we have conceived in transferring the funds into the account you shall be providing. since we are the owners of the funds, and the money will be leaving the apex bank of my country, we shall purposefully fulfill the legal obligations precedent to transferring such huge amount of funds, without arousing suspicion from any quarter as a drug or terrorist related funds; and this will assist us in the long run to forestall any form of investigations. remember that, on no account must we be seen or perceived to be directly connected with the transfer of funds. you will be the one to be doing all these, and in the course of transfer, if for any reason whatsoever, you incurred some bills, we shall adequately retire same, upon the successful confirmation of the funds in your account. the commencement of this project is based on your ability to convince us of the need to invest in whatever business you have chosen, and to trust your personality and status, especially as it concerns the security of the funds in your custody. i await your response, sincerely, john adams (chairman senate committee on banks and currency) call number: 234-802-306-8507 "

Overwriting enronemail\_1h.txt

```
In [4]: import sys, re, string

cnt = 0
recordStrs = [s.split('\n') for s in open("enronemail_1h.txt").readlines()]
for line in recordStrs:
    regex = re.compile('[%s]' % re.escape(string.punctuation))
    line = regex.sub(' ', str(line).lower())
    line = re.sub( '\s+', ' ', line )
    # split the line into words
    words = line.split()
    for w in words:
        if w == "assistance":
            cnt += 1
            print w, 1 #or yield(w, 1)
print "The word assistance occurs %i times!" % (cnt)
```

```
assistance 1
The word assistance occurs 10 times!
```

## HW1.2: WORDCOUNT

Using the Enron dataset and Hadoop MapReduce streaming (or MRJob), write the mapper/reducer job that will determine the word count (number of occurrences) of each white-space delimited token (assume spaces, fullstops, comma as delimiters). Examine the word "assistance" and report its word count results.

CROSSCHECK: >grep assistance enronemail\_1h.txt|cut -d\$'\t' -f4| grep assistance|wc -l

8

#NOTE "assistance" occurs on 8 lines but how many times does the token occur? 10 times! This is the number we are looking for!

```
In [5]: #HW1.2 Answer below - "assistance" occurs 10 times
%%writefile wordcount.py

from mrjob.job import MRJob
import sys, re, string

class wordCount(MRJob):

    def mapper(self, _, line):
        regex = re.compile('[%s]' % re.escape(string.punctuation))
        line = regex.sub(' ', str(line).lower())
        line = re.sub( '\s+', ' ', line )
        # split the line into words
        words = line.split()
        for w in words:
            if w == "assistance":
                yield(w, 1)

    def reducer(self, token, values):
        yield (token, sum(values))

if __name__ == '__main__':
    wordCount.run()
```

Overwriting wordcount.py

```
In [6]: !python wordcount.py enronemail_1h.txt
```

```
Using configs in /Users/z013hnv/.mrjob.conf
Creating temp directory /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/wordcount.z013h nv.20160627.180845.446989
Running step 1 of 1...
Streaming final output from /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/wordcount.z013h nv.20160627.180845.446989/output...
"assistance"    10
Removing temp directory /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/wordcount.z013h nv.20160627.180845.446989...
```

**HW1.2.1 Using Hadoop MapReduce (or MRJob) and your wordcount job (from HW1.2) determine the top-10 occurring tokens (most frequent tokens) using a single reducer.**

In [ 7 ]:

```
#HW1.2.1
%%writefile wordcount.py

from mrjob.job import MRJob
import sys, re, string, operator

class wordCount(MRJob):

    def __init__(self, *args, **kwargs):
        super(wordCount, self).__init__(*args, **kwargs)
        self.d = {}

    def mapper(self, _, line):
        regex = re.compile('[%s]' % re.escape(string.punctuation))
        line = regex.sub(' ', str(line).lower())
        line = re.sub( '\s+', ' ', line )

        words = line.split()                                     # split the line into wo
rds
        for w in words:
            yield(w, 1)

    def combiner(self, key, values):
        yield ("Foo", [key, sum(values)])                      #using a static key to f
orce to one reducer

    def reducer(self, _, values):
        for value in values:
            self.d[value[0]]=value[1]
        cnt = 0
        threshold = 10                                         #decide how many tokens
you want to show
        for w in sorted(self.d, key=self.d.get, reverse=True):  #sort the dictionary by
value desc
            print w, self.d[w]
            cnt += 1
            if cnt==threshold:                                #limit to top N results,
where N = threshold
                break
```

```
if __name__ == '__main__':
    wordCount.run()
```

Overwriting wordcount.py

In [8]: !python wordcount.py enronemail\_1h.txt

```
Using configs in /Users/z013hnv/.mrjob.conf
Creating temp directory /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/wordcount.z013h nv.20160627.180852.593372
Running step 1 of 1...
the 671
to 513
and 411
of 309
a 284
you 252
your 244
in 218
for 218
i 155
Streaming final output from /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/wordcount.z013h nv.20160627.180852.593372/output...
Removing temp directory /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/wordcount.z013h nv.20160627.180852.593372...
```

HW1.2.1 Top 10 occurring tokens are: the 671 to 513 and 411 of 309 a 284 you 252 your 244 in 218 for 218 i 155

## HW1.3: Multinomial NAIVE BAYES with NO Smoothing using a single reducer

Using the Enron data from HW1 and Hadoop MapReduce (or MRJob), write a mapper/reducer job(s) that will both learn Naive Bayes classifier and classify the Enron email messages using the learnt Naive Bayes classifier. Use all white-space delimited tokens as independent input variables (assume spaces, fullstops, commas as delimiters). Note: for multinomial Naive Bayes, the  $\Pr(X=\text{"assistance"}|Y=\text{SPAM})$  is calculated as follows:

the number of times “assistance” occurs in SPAM labeled documents / the number of words in documents labeled SPAM

E.g., “assistance” occurs 5 times in all of the documents Labeled SPAM, and the length in terms of the number of words in all documents labeled as SPAM (when concatenated) is 1,000. Then  $\Pr(X=\text{"assistance"}|Y=\text{SPAM}) = 5/1000$ . Note this is a multinomial estimation of the class conditional for a Naive Bayes Classifier. No smoothing is needed in this HW. Multiplying lots of probabilities, which are between 0 and 1, can result in floating-point underflow. Since  $\log(xy) = \log(x) + \log(y)$ , it is better to perform all computations by summing logs of probabilities rather than multiplying probabilities. Please pay attention to probabilities that are zero! They will need special attention. Count up how many times you need to process a zero probability for each class and report.

Report the performance of your learnt classifier in terms of misclassification error rate of your multinomial Naive Bayes Classifier. Plot a histogram of the posterior probabilities (i.e.,  $\Pr(\text{Class}|Doc)$ ) for each class over the training set. Summarize what you see.

Error Rate = misclassification rate with respect to a provided set (say training set in this case). It is more formally defined here:

Let DF represent the evalution set in the following:  $\text{Err}(\text{Model}, \text{DF}) = |\{(X, c(X)) \in \text{DF} : c(X) \neq \text{Model}(x)\}| / |\text{DF}|$

Where  $||$  denotes set cardinality;  $c(X)$  denotes the class of the tuple X in DF; and  $\text{Model}(X)$  denotes the class inferred by the Model “Model”

NOTE: please assume one reducer.

In [13]:

```
#HW1.3
%%writefile MRNaiveBayesTrainerEN.py

from mrjob.job import MRJob
import sys, re, string, operator

class MRNaiveBayesTrainerEN(MRJob):

    def __init__(self, *args, **kwargs):
        super(MRNaiveBayesTrainerEN, self).__init__(*args, **kwargs)
        self.modelStats = {}

    def jobconf(self):
        orig_jobconf = super(MRNaiveBayesTrainerEN, self).jobconf()
        custom_jobconf = {
            'mapred.reduce.tasks': '1',
        }
        combined_jobconf = orig_jobconf
        combined_jobconf.update(custom_jobconf)
        self.jobconf = combined_jobconf
        return combined_jobconf

    def mapper(self, _, line):
        dateName, docClass, text = line.split("\t",2)
        regex = re.compile('[' + re.escape(string.punctuation) + ']')
        line = regex.sub(' ', str(line).lower())
        line = re.sub( '\s+', ' ', line )

        words = line.split()                                # split the line into words

        if docClass == "1":
            yield("MarksPriors", "0,1")
            for word in words:
                yield(word, "0,1")
        else:
            yield("MarksPriors", "1,0")
            for word in words:
                yield(word, "1,0")
```

```

def reducer(self, word, values):
    w0Total=0
    w1Total=0
    for value in values:
        w0, w1 = value.split(",")
        w0Total += float(w0)
        w1Total += float(w1)
    self.modelStats[word] = [w0Total, w1Total]

def reducer_final(self):
    #print self.modelStats

    class0Total = 0
    class1Total = 0
    for k in self.modelStats.keys():
        if k != "MarksPriors":
            class0Total += self.modelStats[k][0]
            class1Total += self.modelStats[k][1]
    vocabularySize = len(self.modelStats.keys()) - 1 #ignore MarksPriors
    yield ("defaultPrior0class", class0Total+vocabularySize)
    yield ("defaultPrior1class", class1Total+vocabularySize)
    yield ("count0class", class0Total)
    yield ("count1class", class1Total)
    yield ("vocabularySize", vocabularySize)
    #calculate priors
    classCount0, classCount1 = self.modelStats.get("MarksPriors")
    del self.modelStats["MarksPriors"]
    total = classCount0 + classCount1
    yield("MarksPriors", ',' .join(str(j) for j in [classCount0, classCount1, classCount0/total,
                                                    classCount1/total]))
    for k in self.modelStats.keys():
        yield(k, ',' .join(str(j) for j in [self.modelStats[k][0],
                                              self.modelStats[k][1],
                                              (self.modelStats[k][0])/(class0Total),
                                              (self.modelStats[k][1])/(class1Total)]))

    #this is how you do it with smoothing : +1 in numerator and +vocabularySize in denominator

```

```
ator
"""
        for k in self.modelStats.keys():
            yield(k, ','.join(str(j) for j in [self.modelStats[k][0],
                                              self.modelStats[k][1],
                                              (self.modelStats[k][0] + 1) /(class0Total + vocabularySize),
                                              (self.modelStats[k][1] +1)/(class1Total+vocabularySize)]))
"""

if __name__ == '__main__':
    MRNaiveBayesTrainerEN.run()
```

Overwriting MRNaiveBayesTrainerEN.py

```
In [14]: !python MRNaiveBayesTrainerEN.py enronemail_1h.txt
```



```
Using configs in /Users/z013hnv/.mrjob.conf
Creating temp directory /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/MRNaiveBayesTrainer
EN.z013hnv.20160627.184445.921086
Running step 1 of 1...
Streaming final output from /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/MRNaiveBayesTra
inerEN.z013hnv.20160627.184445.921086/output...
"defaultPrior0class"    20080.0
"defaultPrior1class"    24611.0
"count0class"    14652.0
"count1class"    19183.0
"vocabularySize"    5428
"MarksPriors"    "56.0,44.0,0.56,0.44"
"stock"    "3.0,2.0,0.00020475020475,0.000104258979305"
"limited"    "4.0,10.0,0.000273000273,0.000521294896523"
"entergyr"    "1.0,0.0,6.82500682501e-05,0.0"
"mcsherry"    "1.0,0.0,6.82500682501e-05,0.0"
"additionally"    "1.0,1.0,6.82500682501e-05,5.21294896523e-05"
"doubts"    "0.0,1.0,0.0,5.21294896523e-05"
"dynamic"    "2.0,0.0,0.0001365001365,0.0"
"externally"    "0.0,2.0,0.0,0.000104258979305"
"yellow"    "0.0,1.0,0.0,5.21294896523e-05"
"barraged"    "0.0,1.0,0.0,5.21294896523e-05"
"prefix"    "0.0,1.0,0.0,5.21294896523e-05"
"35782"    "1.0,0.0,6.82500682501e-05,0.0"
"invovled"    "2.0,0.0,0.0001365001365,0.0"
"railing"    "0.0,1.0,0.0,5.21294896523e-05"
"appetite"    "0.0,2.0,0.0,0.000104258979305"
"hate"    "0.0,4.0,0.0,0.000208517958609"
"worked"    "1.0,2.0,6.82500682501e-05,0.000104258979305"
"forget"    "0.0,1.0,0.0,5.21294896523e-05"
"looking"    "0.0,4.0,0.0,0.000208517958609"
"fronts"    "1.0,0.0,6.82500682501e-05,0.0"
"founder"    "0.0,1.0,0.0,5.21294896523e-05"
"granting"    "0.0,1.0,0.0,5.21294896523e-05"
"electricity"    "1.0,0.0,6.82500682501e-05,0.0"
"turner"    "1.0,2.0,6.82500682501e-05,0.000104258979305"
"locomotive"    "0.0,1.0,0.0,5.21294896523e-05"
"7517"    "0.0,1.0,0.0,5.21294896523e-05"
"345"    "1.0,0.0,6.82500682501e-05,0.0"
"ilug"    "0.0,3.0,0.0,0.000156388468957"
```

"koromah" "0.0,2.0,0.0,0.000104258979305"  
"swap" "0.0,2.0,0.0,0.000104258979305"  
"whatsoever" "0.0,3.0,0.0,0.000156388468957"  
"riedel" "1.0,0.0,6.82500682501e-05,0.0"  
"sibilant" "0.0,1.0,0.0,5.21294896523e-05"  
"sorry" "2.0,0.0,0.0001365001365,0.0"  
"diverted" "1.0,0.0,6.82500682501e-05,0.0"  
"homemakers" "0.0,1.0,0.0,5.21294896523e-05"  
"349" "0.0,2.0,0.0,0.000104258979305"  
"overpaying" "0.0,1.0,0.0,5.21294896523e-05"  
"merchant" "2.0,3.0,0.0001365001365,0.000156388468957"  
"plants" "2.0,0.0,0.0001365001365,0.0"  
"ettringer" "2.0,0.0,0.0001365001365,0.0"  
"collaborate" "3.0,0.0,0.00020475020475,0.0"  
"legislators" "2.0,0.0,0.0001365001365,0.0"  
"risk" "46.0,3.0,0.0031395031395,0.000156388468957"  
"taylorja" "1.0,0.0,6.82500682501e-05,0.0"  
"regional" "11.0,0.0,0.000750750750751,0.0"  
"distort" "0.0,1.0,0.0,5.21294896523e-05"  
"knelt" "0.0,1.0,0.0,5.21294896523e-05"  
"travis" "1.0,0.0,6.82500682501e-05,0.0"  
"shoot" "0.0,1.0,0.0,5.21294896523e-05"  
"georgia" "0.0,1.0,0.0,5.21294896523e-05"  
"every" "0.0,14.0,0.0,0.000729812855132"  
"affect" "0.0,2.0,0.0,0.000104258979305"  
"multiple" "1.0,6.0,6.82500682501e-05,0.000312776937914"  
"four" "3.0,5.0,0.00020475020475,0.000260647448261"  
"school" "0.0,2.0,0.0,0.000104258979305"  
"internally" "2.0,0.0,0.0001365001365,0.0"  
"prize" "0.0,1.0,0.0,5.21294896523e-05"  
"exaggerate" "0.0,1.0,0.0,5.21294896523e-05"  
"customizable" "0.0,1.0,0.0,5.21294896523e-05"  
"ref" "0.0,2.0,0.0,0.000104258979305"  
"withers" "4.0,0.0,0.000273000273,0.0"  
"companies" "3.0,5.0,0.00020475020475,0.000260647448261"  
"protest" "2.0,0.0,0.0001365001365,0.0"  
"xqirzd" "0.0,1.0,0.0,5.21294896523e-05"  
"convenience" "1.0,0.0,6.82500682501e-05,0.0"  
"casinos" "0.0,2.0,0.0,0.000104258979305"  
"suite" "2.0,3.0,0.0001365001365,0.000156388468957"

"299" "0.0,1.0,0.0,5.21294896523e-05"  
"indices" "1.0,0.0,6.82500682501e-05,0.0"  
"deadline" "2.0,4.0,0.0001365001365,0.000208517958609"  
"mongolia" "0.0,1.0,0.0,5.21294896523e-05"  
"sponsored" "0.0,1.0,0.0,5.21294896523e-05"  
"heading" "0.0,1.0,0.0,5.21294896523e-05"  
"cyberopps" "0.0,2.0,0.0,0.000104258979305"  
"charter" "2.0,0.0,0.0001365001365,0.0"  
"209318" "0.0,1.0,0.0,5.21294896523e-05"  
"force" "1.0,4.0,6.82500682501e-05,0.000208517958609"  
"leaders" "1.0,0.0,6.82500682501e-05,0.0"  
"tired" "0.0,2.0,0.0,0.000104258979305"  
"capitalisation" "0.0,1.0,0.0,5.21294896523e-05"  
"consistent" "1.0,0.0,6.82500682501e-05,0.0"  
"bacon" "0.0,1.0,0.0,5.21294896523e-05"  
"direct" "3.0,1.0,0.00020475020475,5.21294896523e-05"  
"southernenergy" "2.0,0.0,0.0001365001365,0.0"  
"elections" "1.0,0.0,6.82500682501e-05,0.0"  
"dobmeos" "0.0,1.0,0.0,5.21294896523e-05"  
"kevin" "48.0,0.0,0.003276003276,0.0"  
"likely" "7.0,0.0,0.00047775047775,0.0"  
"street" "1.0,0.0,6.82500682501e-05,0.0"  
"perfect" "1.0,2.0,6.82500682501e-05,0.000104258979305"  
"freehand" "0.0,1.0,0.0,5.21294896523e-05"  
"n" "1.0,12.0,6.82500682501e-05,0.000625553875828"  
"quite" "3.0,1.0,0.00020475020475,5.21294896523e-05"  
"even" "3.0,13.0,0.00020475020475,0.00067768336548"  
"established" "1.0,2.0,6.82500682501e-05,0.000104258979305"  
"errors" "1.0,5.0,6.82500682501e-05,0.000260647448261"  
"revised" "2.0,0.0,0.0001365001365,0.0"  
"hidd" "0.0,2.0,0.0,0.000104258979305"  
"integrity" "0.0,2.0,0.0,0.000104258979305"  
"selected" "0.0,1.0,0.0,5.21294896523e-05"  
"spoke" "2.0,0.0,0.0001365001365,0.0"  
"entergy" "6.0,0.0,0.0004095004095,0.0"  
"asia" "0.0,1.0,0.0,5.21294896523e-05"  
"slotting" "0.0,1.0,0.0,5.21294896523e-05"  
"bonuses" "0.0,4.0,0.0,0.000208517958609"  
"facilities" "1.0,0.0,6.82500682501e-05,0.0"  
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"neal" "1.0,0.0,6.82500682501e-05,0.0"  
"air" "3.0,3.0,0.00020475020475,0.000156388468957"  
"dept" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
"near" "5.0,1.0,0.00034125034125,5.21294896523e-05"  
"neat" "0.0,1.0,0.0,5.21294896523e-05"  
"teachers" "0.0,1.0,0.0,5.21294896523e-05"  
"ccprod" "0.0,3.0,0.0,0.000156388468957"  
"stopping" "0.0,3.0,0.0,0.000156388468957"

"aid" "0.0,1.0,0.0,5.21294896523e-05"  
"9434" "2.0,0.0,0.0001365001365,0.0"  
"balance" "0.0,1.0,0.0,5.21294896523e-05"  
"davenport" "1.0,0.0,6.82500682501e-05,0.0"  
"k" "1.0,3.0,6.82500682501e-05,0.000156388468957"  
"natives" "0.0,1.0,0.0,5.21294896523e-05"  
"millions" "0.0,2.0,0.0,0.000104258979305"  
"economics" "1.0,0.0,6.82500682501e-05,0.0"  
"9610" "1.0,0.0,6.82500682501e-05,0.0"  
"mexico" "0.0,1.0,0.0,5.21294896523e-05"  
"remunerate" "0.0,1.0,0.0,5.21294896523e-05"  
"cano" "0.0,1.0,0.0,5.21294896523e-05"  
"is" "114.0,135.0,0.00778050778051,0.00703748110306"  
"dictate" "0.0,1.0,0.0,5.21294896523e-05"  
"ii" "3.0,0.0,0.00020475020475,0.0"  
"it" "40.0,152.0,0.00273000273,0.00792368242715"  
"5290" "2.0,0.0,0.0001365001365,0.0"  
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"elmira" "0.0,1.0,0.0,5.21294896523e-05"  
"player" "0.0,2.0,0.0,0.000104258979305"  
"im" "0.0,1.0,0.0,5.21294896523e-05"  
"cling" "0.0,1.0,0.0,5.21294896523e-05"  
"in" "182.0,236.0,0.0124215124215,0.0123025595579"  
"several" "12.0,5.0,0.000819000819001,0.000260647448261"  
"vendor" "2.0,0.0,0.0001365001365,0.0"  
"t" "10.0,59.0,0.000682500682501,0.00307563988949"  
"shift" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
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"sap" "17.0,0.0,0.00116025116025,0.0"  
"mperkins" "1.0,0.0,6.82500682501e-05,0.0"  
"perform" "0.0,1.0,0.0,5.21294896523e-05"  
"saw" "1.0,0.0,6.82500682501e-05,0.0"  
"make" "7.0,28.0,0.00047775047775,0.00145962571026"  
"lokay" "5.0,0.0,0.00034125034125,0.0"  
"transporting" "1.0,0.0,6.82500682501e-05,0.0"

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"damages" "0.0,1.0,0.0,5.21294896523e-05"  
"evaluate" "2.0,0.0,0.0001365001365,0.0"  
"success" "4.0,21.0,0.000273000273,0.0010947192827"  
"frusco" "3.0,0.0,0.00020475020475,0.0"  
"czkkrxht" "0.0,1.0,0.0,5.21294896523e-05"  
"ambien" "0.0,2.0,0.0,0.000104258979305"  
"european" "0.0,2.0,0.0,0.000104258979305"  
"clicking" "0.0,1.0,0.0,5.21294896523e-05"  
"schumack" "3.0,0.0,0.00020475020475,0.0"  
"shwc" "0.0,1.0,0.0,5.21294896523e-05"  
"counterparty" "2.0,0.0,0.0001365001365,0.0"  
"thank" "5.0,4.0,0.00034125034125,0.000208517958609"  
"nim" "2.0,0.0,0.0001365001365,0.0"  
"unlimited" "0.0,4.0,0.0,0.000208517958609"  
"published" "1.0,4.0,6.82500682501e-05,0.000208517958609"  
"hang" "0.0,1.0,0.0,5.21294896523e-05"  
"managment" "4.0,0.0,0.000273000273,0.0"  
"greeted" "1.0,0.0,0.0,6.82500682501e-05,0.0"  
"delight" "0.0,1.0,0.0,5.21294896523e-05"  
"grammar" "0.0,1.0,0.0,5.21294896523e-05"  
"documents" "0.0,4.0,0.0,0.000208517958609"  
"producers" "2.0,1.0,0.0001365001365,5.21294896523e-05"  
"kim" "3.0,0.0,0.00020475020475,0.0"  
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"on" "135.0,136.0,0.00921375921376,0.00708961059271"  
"opportunity" "2.0,7.0,0.0001365001365,0.000364906427566"  
"greedily" "0.0,1.0,0.0,5.21294896523e-05"  
"adminder" "0.0,2.0,0.0,0.000104258979305"  
"kid" "0.0,1.0,0.0,5.21294896523e-05"  
"9291" "1.0,0.0,6.82500682501e-05,0.0"  
"kept" "0.0,2.0,0.0,0.000104258979305"  
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"scenario" "1.0,0.0,6.82500682501e-05,0.0"  
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"she" "17.0,1.0,0.00116025116025,5.21294896523e-05"  
"charlie" "1.0,0.0,6.82500682501e-05,0.0"  
"thu" "10.0,0.0,0.000682500682501,0.0"  
"eops" "1.0,0.0,6.82500682501e-05,0.0"

"cultural" "1.0,0.0,6.82500682501e-05,0.0"  
"doff" "0.0,1.0,0.0,5.21294896523e-05"  
"more" "16.0,49.0,0.001092001092,0.00255434499296"  
"8859" "0.0,10.0,0.0,0.000521294896523"  
"contact" "17.0,14.0,0.00116025116025,0.000729812855132"  
"greatest" "0.0,2.0,0.0,0.000104258979305"  
"melodick" "1.0,0.0,6.82500682501e-05,0.0"  
"wedeliverparties" "0.0,1.0,0.0,5.21294896523e-05"  
"802" "0.0,1.0,0.0,5.21294896523e-05"  
"the" "549.0,698.0,0.0374692874693,0.0363863837773"  
"800" "3.0,0.0,0.00020475020475,0.0"  
"corporate" "7.0,1.0,0.00047775047775,5.21294896523e-05"  
"buchsbaum" "1.0,0.0,6.82500682501e-05,0.0"  
"left" "5.0,0.0,0.00034125034125,0.0"  
"arousing" "0.0,1.0,0.0,5.21294896523e-05"  
"mclean" "1.0,0.0,6.82500682501e-05,0.0"  
"intra" "1.0,0.0,6.82500682501e-05,0.0"  
"capitol" "0.0,1.0,0.0,5.21294896523e-05"  
"just" "8.0,39.0,0.000546000546001,0.00203305009644"  
"mime" "0.0,1.0,0.0,5.21294896523e-05"  
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"photo" "0.0,1.0,0.0,5.21294896523e-05"  
"enjoy" "0.0,2.0,0.0,0.000104258979305"  
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"rush" "0.0,1.0,0.0,5.21294896523e-05"  
"ideas" "3.0,3.0,0.00020475020475,0.000156388468957"  
"quotes" "0.0,3.0,0.0,0.000156388468957"  
"via" "6.0,7.0,0.0004095004095,0.000364906427566"  
"identify" "2.0,0.0,0.0001365001365,0.0"  
"mechanism" "1.0,0.0,6.82500682501e-05,0.0"  
"human" "12.0,2.0,0.000819000819001,0.000104258979305"  
"macquarie" "0.0,2.0,0.0,0.000104258979305"  
"yes" "2.0,5.0,0.0001365001365,0.000260647448261"  
"sellinternetaccess" "0.0,5.0,0.0,0.000260647448261"  
"cenochs" "1.0,0.0,6.82500682501e-05,0.0"  
"psychotic" "0.0,1.0,0.0,5.21294896523e-05"  
"succeeding" "0.0,1.0,0.0,5.21294896523e-05"  
"previous" "9.0,0.0,0.000614250614251,0.0"  
"shiip" "0.0,2.0,0.0,0.000104258979305"  
"alum" "0.0,1.0,0.0,5.21294896523e-05"

"enters" "0.0,1.0,0.0,5.21294896523e-05"  
"hal" "1.0,0.0,6.82500682501e-05,0.0"  
"tin" "0.0,5.0,0.0,0.000260647448261"  
"candidate" "1.0,0.0,6.82500682501e-05,0.0"  
"mix" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
"nicolay" "1.0,0.0,6.82500682501e-05,0.0"  
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"intends" "2.0,0.0,0.0001365001365,0.0"  
"glencore" "2.0,0.0,0.0001365001365,0.0"  
"belongs" "0.0,2.0,0.0,0.000104258979305"  
"board" "0.0,3.0,0.0,0.000156388468957"  
"easy" "0.0,16.0,0.0,0.000834071834437"  
"southwest" "1.0,0.0,6.82500682501e-05,0.0"  
"ramupgradeable" "0.0,1.0,0.0,5.21294896523e-05"  
"ctise" "1.0,0.0,6.82500682501e-05,0.0"  
"keeley" "5.0,0.0,0.00034125034125,0.0"  
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"shoulder" "0.0,1.0,0.0,5.21294896523e-05"  
"which" "23.0,24.0,0.00156975156975,0.00125110775166"  
"trista" "2.0,0.0,0.0001365001365,0.0"  
"osman" "4.0,0.0,0.000273000273,0.0"  
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"55" "4.0,0.0,0.000273000273,0.0"  
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"officer" "3.0,0.0,0.00020475020475,0.0"  
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"surf" "0.0,5.0,0.0,0.000260647448261"  
"www" "1.0,45.0,6.82500682501e-05,0.00234582703435"  
"cowry" "0.0,1.0,0.0,5.21294896523e-05"  
"dean" "0.0,1.0,0.0,5.21294896523e-05"  
"crowd" "0.0,2.0,0.0,0.000104258979305"  
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"staff" "4.0,1.0,0.000273000273,5.21294896523e-05"  
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"successfully" "0.0,1.0,0.0,5.21294896523e-05"  
"8038" "1.0,0.0,6.82500682501e-05,0.0"  
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"oh" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
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"hassle" "0.0,2.0,0.0,0.000104258979305"

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"gosnell" "1.0,0.0,6.82500682501e-05,0.0"  
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"purposefully" "0.0,1.0,0.0,5.21294896523e-05"  
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"423" "0.0,2.0,0.0,0.000104258979305"  
"422" "0.0,4.0,0.0,0.000208517958609"  
"christmas" "20.0,0.0,0.001365001365,0.0"  
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"novelties" "0.0,1.0,0.0,5.21294896523e-05"  
"subscriptions" "0.0,1.0,0.0,5.21294896523e-05"  
"marketing" "6.0,22.0,0.0004095004095,0.00114684877235"  
"cochilco" "0.0,1.0,0.0,5.21294896523e-05"

"of" "230.0,336.0,0.0156975156975,0.0175155085232"  
"illustration" "0.0,1.0,0.0,5.21294896523e-05"  
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"discount" "0.0,1.0,0.0,5.21294896523e-05"  
"issler" "5.0,0.0,0.00034125034125,0.0"  
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"corp" "29.0,2.0,0.00197925197925,0.000104258979305"  
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"losing" "0.0,2.0,0.0,0.000104258979305"  
"freese" "1.0,0.0,6.82500682501e-05,0.0"  
"post" "0.0,9.0,0.0,0.000469165406871"  
"descendent" "0.0,1.0,0.0,5.21294896523e-05"  
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"sa"       "4.0,16.0,0.000273000273,0.000834071834437"
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"zo"                 "0.0,2.0,0.0,0.000104258979305"
"aggressive"         "0.0,1.0,0.0,5.21294896523e-05"
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"holders" "0.0,1.0,0.0,5.21294896523e-05"  
"delete" "7.0,1.0,0.00047775047775,5.21294896523e-05"  
"comes" "3.0,3.0,0.00020475020475,0.000156388468957"  
"nearby" "0.0,1.0,0.0,5.21294896523e-05"  
"among" "4.0,3.0,0.000273000273,0.000156388468957"  
"var" "1.0,0.0,6.82500682501e-05,0.0"  
"maintainer" "0.0,1.0,0.0,5.21294896523e-05"

"merry" "2.0,0.0,0.0001365001365,0.0"  
"tonne" "0.0,1.0,0.0,5.21294896523e-05"  
"color" "18.0,1.0,0.0012285012285,5.21294896523e-05"  
"deeds" "0.0,2.0,0.0,0.000104258979305"  
"rising" "1.0,0.0,6.82500682501e-05,0.0"  
"period" "6.0,2.0,0.0004095004095,0.000104258979305"  
"sampling" "0.0,1.0,0.0,5.21294896523e-05"  
"60" "1.0,5.0,6.82500682501e-05,0.000260647448261"  
"61" "0.0,2.0,0.0,0.000104258979305"  
"iccenergy" "1.0,0.0,6.82500682501e-05,0.0"  
"epcm" "0.0,2.0,0.0,0.000104258979305"  
"64" "0.0,1.0,0.0,5.21294896523e-05"  
"3000" "0.0,2.0,0.0,0.000104258979305"  
"66" "0.0,1.0,0.0,5.21294896523e-05"  
"67" "0.0,2.0,0.0,0.000104258979305"  
"68" "1.0,0.0,6.82500682501e-05,0.0"  
"69" "0.0,1.0,0.0,5.21294896523e-05"  
"writing" "1.0,6.0,6.82500682501e-05,0.000312776937914"  
"technicalities" "0.0,1.0,0.0,5.21294896523e-05"  
"custody" "0.0,1.0,0.0,5.21294896523e-05"  
"worthwhile" "0.0,1.0,0.0,5.21294896523e-05"  
"save" "0.0,8.0,0.0,0.000417035917218"  
"dreamwaver" "0.0,2.0,0.0,0.000104258979305"  
"0011" "2.0,4.0,0.0001365001365,0.000208517958609"  
"subscribed" "0.0,4.0,0.0,0.000208517958609"  
"cares" "0.0,1.0,0.0,5.21294896523e-05"  
"stretch" "2.0,1.0,0.0001365001365,5.21294896523e-05"  
"schafer" "1.0,0.0,6.82500682501e-05,0.0"  
"keys" "1.0,0.0,6.82500682501e-05,0.0"  
"inclusive" "0.0,1.0,0.0,5.21294896523e-05"  
"informed" "2.0,2.0,0.0001365001365,0.000104258979305"  
"vacation" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
"mark" "7.0,1.0,0.00047775047775,5.21294896523e-05"  
"breath" "0.0,5.0,0.0,0.000260647448261"  
"linktocash" "0.0,1.0,0.0,5.21294896523e-05"  
"deposited" "0.0,3.0,0.0,0.000156388468957"  
"leadership" "13.0,0.0,0.000887250887251,0.0"  
"viag" "0.0,1.0,0.0,5.21294896523e-05"  
"hardly" "0.0,2.0,0.0,0.000104258979305"  
"earths" "0.0,1.0,0.0,5.21294896523e-05"

"500" "5.0,3.0,0.00034125034125,0.000156388468957"  
"systems" "4.0,2.0,0.000273000273,0.000104258979305"  
"630" "1.0,0.0,6.82500682501e-05,0.0"  
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"enable" "0.0,4.0,0.0,0.000208517958609"  
"bmf" "0.0,1.0,0.0,5.21294896523e-05"  
"convincible" "0.0,1.0,0.0,5.21294896523e-05"  
"sites" "0.0,31.0,0.0,0.00161601417922"  
"offered" "0.0,3.0,0.0,0.000156388468957"  
"persist" "1.0,0.0,6.82500682501e-05,0.0"  
"notiffiyved" "0.0,1.0,0.0,5.21294896523e-05"  
"ilydiatt" "1.0,0.0,6.82500682501e-05,0.0"  
"antivirus" "0.0,1.0,0.0,5.21294896523e-05"  
"dramatic" "1.0,0.0,6.82500682501e-05,0.0"  
"doesn" "0.0,10.0,0.0,0.000521294896523"  
"untouchable" "1.0,0.0,6.82500682501e-05,0.0"  
"treatment" "0.0,1.0,0.0,5.21294896523e-05"  
"thing" "3.0,10.0,0.00020475020475,0.000521294896523"  
"andrea" "3.0,0.0,0.00020475020475,0.0"  
"spirit" "2.0,0.0,0.0001365001365,0.0"  
"standard" "1.0,2.0,6.82500682501e-05,0.000104258979305"  
"fishbeck" "1.0,0.0,6.82500682501e-05,0.0"  
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"kathryn" "3.0,0.0,0.00020475020475,0.0"  
"myself" "0.0,1.0,0.0,5.21294896523e-05"  
"litterbug" "0.0,1.0,0.0,5.21294896523e-05"  
"caucasians" "0.0,1.0,0.0,5.21294896523e-05"  
"bjwl" "0.0,1.0,0.0,5.21294896523e-05"  
"signing" "0.0,1.0,0.0,5.21294896523e-05"  
"consultant" "0.0,3.0,0.0,0.000156388468957"  
"sex" "0.0,1.0,0.0,5.21294896523e-05"  
"cash" "9.0,9.0,0.000614250614251,0.000469165406871"  
"premature" "1.0,0.0,6.82500682501e-05,0.0"  
"w" "7.0,5.0,0.00047775047775,0.000260647448261"  
"paulo" "5.0,0.0,0.00034125034125,0.0"  
"1980" "2.0,0.0,0.0001365001365,0.0"  
"ongoing" "2.0,0.0,0.0001365001365,0.0"  
"fiducial" "0.0,1.0,0.0,5.21294896523e-05"  
"editorial" "1.0,0.0,6.82500682501e-05,0.0"  
"promising" "0.0,1.0,0.0,5.21294896523e-05"

"curricula" "0.0,1.0,0.0,5.21294896523e-05"  
"gullweig" "0.0,1.0,0.0,5.21294896523e-05"  
"spotlight" "0.0,1.0,0.0,5.21294896523e-05"  
"heno" "0.0,1.0,0.0,5.21294896523e-05"  
"pro" "0.0,2.0,0.0,0.000104258979305"  
"conferences" "1.0,0.0,6.82500682501e-05,0.0"  
"setbacks" "0.0,1.0,0.0,5.21294896523e-05"  
"telephone" "3.0,0.0,0.00020475020475,0.0"  
"hemisphere" "2.0,0.0,0.0001365001365,0.0"  
"strain" "0.0,1.0,0.0,5.21294896523e-05"  
"khanna" "1.0,0.0,6.82500682501e-05,0.0"  
"good" "10.0,13.0,0.000682500682501,0.00067768336548"  
"cheapsoft" "0.0,3.0,0.0,0.000156388468957"  
"kincaid" "0.0,2.0,0.0,0.000104258979305"  
"accounting" "5.0,0.0,0.00034125034125,0.0"  
"ecarmst" "0.0,1.0,0.0,5.21294896523e-05"  
"usavity" "0.0,1.0,0.0,5.21294896523e-05"  
"property" "0.0,2.0,0.0,0.000104258979305"  
"ascii" "0.0,1.0,0.0,5.21294896523e-05"  
"everyday" "0.0,2.0,0.0,0.000104258979305"  
"worry" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
"shenkman" "1.0,0.0,6.82500682501e-05,0.0"  
"different" "3.0,2.0,0.00020475020475,0.000104258979305"  
"31615304791" "0.0,1.0,0.0,5.21294896523e-05"  
"erroneously" "1.0,0.0,6.82500682501e-05,0.0"  
"author" "0.0,4.0,0.0,0.000208517958609"  
"7578" "1.0,0.0,6.82500682501e-05,0.0"  
"granted" "0.0,1.0,0.0,5.21294896523e-05"  
"same" "0.0,13.0,0.0,0.00067768336548"  
"bolnisi" "0.0,1.0,0.0,5.21294896523e-05"  
"villarreal" "1.0,0.0,6.82500682501e-05,0.0"  
"html" "0.0,9.0,0.0,0.000469165406871"  
"95394" "1.0,0.0,6.82500682501e-05,0.0"  
"reminder" "1.0,0.0,6.82500682501e-05,0.0"  
"epmi" "2.0,0.0,0.0001365001365,0.0"  
"unit" "7.0,0.0,0.00047775047775,0.0"  
"status" "0.0,1.0,0.0,5.21294896523e-05"  
"hrgovcic" "5.0,0.0,0.00034125034125,0.0"  
"extended" "1.0,2.0,6.82500682501e-05,0.000104258979305"  
"swiss" "2.0,0.0,0.0001365001365,0.0"

"hunter" "0.0,2.0,0.0,0.000104258979305"  
"assist" "0.0,7.0,0.0,0.000364906427566"  
"thousainds" "0.0,1.0,0.0,5.21294896523e-05"  
"drives" "1.0,0.0,6.82500682501e-05,0.0"  
"weed" "1.0,0.0,6.82500682501e-05,0.0"  
"cheers" "0.0,1.0,0.0,5.21294896523e-05"  
"devoid" "0.0,1.0,0.0,5.21294896523e-05"  
"respected" "0.0,1.0,0.0,5.21294896523e-05"  
"fruit" "0.0,1.0,0.0,5.21294896523e-05"  
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"advertisement" "0.0,4.0,0.0,0.000208517958609"  
"wpd" "2.0,0.0,0.0001365001365,0.0"  
"changing" "0.0,1.0,0.0,5.21294896523e-05"  
"validate" "1.0,0.0,6.82500682501e-05,0.0"  
"weep" "0.0,1.0,0.0,5.21294896523e-05"  
"without" "0.0,10.0,0.0,0.000521294896523"  
"tradition" "1.0,0.0,6.82500682501e-05,0.0"  
"renewable" "2.0,0.0,0.0001365001365,0.0"  
"whelan" "1.0,0.0,6.82500682501e-05,0.0"  
"supports" "3.0,0.0,0.00020475020475,0.0"  
"sierra" "0.0,5.0,0.0,0.000260647448261"  
"sempratrading" "1.0,0.0,6.82500682501e-05,0.0"  
"charges" "0.0,1.0,0.0,5.21294896523e-05"  
"sales" "2.0,41.0,0.0001365001365,0.00213730907574"  
"no" "12.0,40.0,0.000819000819001,0.00208517958609"  
"bredd" "1.0,0.0,6.82500682501e-05,0.0"  
"prriicegreat" "0.0,1.0,0.0,5.21294896523e-05"  
"lucky" "0.0,2.0,0.0,0.000104258979305"  
"unclaimed" "0.0,1.0,0.0,5.21294896523e-05"  
"pride" "1.0,0.0,6.82500682501e-05,0.0"  
"severe" "0.0,1.0,0.0,5.21294896523e-05"  
"costs" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
"tendererlycopodium" "0.0,1.0,0.0,5.21294896523e-05"  
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"cialis" "0.0,2.0,0.0,0.000104258979305"  
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"implementation" "9.0,0.0,0.000614250614251,0.0"  
"bodies" "0.0,1.0,0.0,5.21294896523e-05"  
"summer" "0.0,5.0,0.0,0.000260647448261"

"janet" "1.0,0.0,6.82500682501e-05,0.0"  
"peace" "0.0,4.0,0.0,0.000208517958609"  
"212" "3.0,0.0,0.00020475020475,0.0"  
"213" "1.0,0.0,6.82500682501e-05,0.0"  
"noah" "0.0,1.0,0.0,5.21294896523e-05"  
"being" "10.0,4.0,0.000682500682501,0.000208517958609"  
"lacrecia" "1.0,0.0,6.82500682501e-05,0.0"  
"clon" "0.0,2.0,0.0,0.000104258979305"  
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"enrononline" "4.0,0.0,0.000273000273,0.0"  
"young" "0.0,2.0,0.0,0.000104258979305"  
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"foot" "1.0,2.0,6.82500682501e-05,0.000104258979305"  
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"greetings" "0.0,1.0,0.0,5.21294896523e-05"  
"harrison" "2.0,0.0,0.0001365001365,0.0"  
"ounces" "0.0,1.0,0.0,5.21294896523e-05"  
"suprervisagra" "0.0,1.0,0.0,5.21294896523e-05"  
"trina" "1.0,0.0,6.82500682501e-05,0.0"  
"speed" "2.0,0.0,0.0001365001365,0.0"  
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"weekly" "1.0,3.0,6.82500682501e-05,0.000156388468957"  
"blow" "0.0,1.0,0.0,5.21294896523e-05"  
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"aqoj" "0.0,1.0,0.0,5.21294896523e-05"  
"kathy" "1.0,0.0,6.82500682501e-05,0.0"  
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"confirmed" "0.0,1.0,0.0,5.21294896523e-05"  
"6902" "0.0,1.0,0.0,5.21294896523e-05"  
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"lets" "0.0,1.0,0.0,5.21294896523e-05"

"quicken" "0.0,1.0,0.0,5.21294896523e-05"  
"perth" "0.0,1.0,0.0,5.21294896523e-05"  
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"preferences" "0.0,2.0,0.0,0.000104258979305"  
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"ross" "4.0,0.0,0.000273000273,0.0"  
"ami" "1.0,0.0,6.82500682501e-05,0.0"  
"around" "4.0,2.0,0.000273000273,0.000104258979305"  
"easily" "0.0,4.0,0.0,0.000208517958609"  
"comhttp" "0.0,1.0,0.0,5.21294896523e-05"  
"options" "2.0,0.0,0.0001365001365,0.0"  
"assemblyman" "3.0,0.0,0.00020475020475,0.0"  
"discontinue" "0.0,2.0,0.0,0.000104258979305"  
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"amy" "0.0,2.0,0.0,0.000104258979305"  
"than" "17.0,15.0,0.00116025116025,0.000781942344784"  
"kindall" "4.0,0.0,0.000273000273,0.0"  
"detract" "0.0,1.0,0.0,5.21294896523e-05"  
"dubhe" "0.0,1.0,0.0,5.21294896523e-05"  
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"disappointed" "0.0,1.0,0.0,5.21294896523e-05"  
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"pst" "1.0,0.0,6.82500682501e-05,0.0"  
"orleantraders" "0.0,1.0,0.0,5.21294896523e-05"  
"stage" "0.0,2.0,0.0,0.000104258979305"  
"macarthur" "0.0,1.0,0.0,5.21294896523e-05"  
"adams" "0.0,1.0,0.0,5.21294896523e-05"  
"christine" "1.0,0.0,6.82500682501e-05,0.0"  
"pounds" "0.0,1.0,0.0,5.21294896523e-05"  
"nt" "0.0,1.0,0.0,5.21294896523e-05"  
"reduces" "0.0,2.0,0.0,0.000104258979305"  
"piece" "0.0,1.0,0.0,5.21294896523e-05"  
"6396" "1.0,0.0,6.82500682501e-05,0.0"  
"roll" "0.0,1.0,0.0,5.21294896523e-05"  
"discarded" "0.0,3.0,0.0,0.000156388468957"  
"benefit" "2.0,8.0,0.0001365001365,0.000417035917218"  
"hcokyovrdsprayz" "0.0,1.0,0.0,5.21294896523e-05"  
"apologize" "2.0,0.0,0.0001365001365,0.0"

"webmaster" "0.0,1.0,0.0,5.21294896523e-05"  
"fully" "0.0,3.0,0.0,0.000156388468957"  
"served" "0.0,1.0,0.0,5.21294896523e-05"  
"dirtier" "1.0,0.0,6.82500682501e-05,0.0"  
"reduced" "0.0,1.0,0.0,5.21294896523e-05"  
"undercollected" "1.0,0.0,6.82500682501e-05,0.0"  
"dictating" "0.0,1.0,0.0,5.21294896523e-05"  
"learning" "2.0,1.0,0.0001365001365,5.21294896523e-05"  
"picture" "0.0,4.0,0.0,0.000208517958609"  
"backgrounds" "0.0,1.0,0.0,5.21294896523e-05"  
"moving" "4.0,1.0,0.000273000273,5.21294896523e-05"  
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"ante" "0.0,1.0,0.0,5.21294896523e-05"  
"manufacturers" "0.0,1.0,0.0,5.21294896523e-05"  
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"court" "4.0,0.0,0.000273000273,0.0"  
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"62163" "1.0,0.0,6.82500682501e-05,0.0"  
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"murmur" "0.0,1.0,0.0,5.21294896523e-05"  
"johannesburg" "0.0,2.0,0.0,0.000104258979305"

"calme" "1.0,0.0,6.82500682501e-05,0.0"  
"leederville" "0.0,1.0,0.0,5.21294896523e-05"  
"speeding" "0.0,1.0,0.0,5.21294896523e-05"  
"cst" "1.0,0.0,6.82500682501e-05,0.0"  
"33597" "1.0,0.0,6.82500682501e-05,0.0"  
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"damorganjr" "0.0,1.0,0.0,5.21294896523e-05"  
"brett" "3.0,0.0,0.00020475020475,0.0"  
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"coming" "4.0,1.0,0.000273000273,5.21294896523e-05"  
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"wishes" "1.0,0.0,6.82500682501e-05,0.0"  
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"singleton" "1.0,0.0,6.82500682501e-05,0.0"  
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"held" "5.0,1.0,0.00034125034125,5.21294896523e-05"  
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"fischer" "1.0,0.0,6.82500682501e-05,0.0"  
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"25" "0.0,7.0,0.0,0.000364906427566"  
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"29" "4.0,7.0,0.000273000273,0.000364906427566"  
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"holiday" "3.0,0.0,0.00020475020475,0.0"

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"7" "12.0,20.0,0.000819000819001,0.00104258979305"  
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"generate" "0.0,1.0,0.0,5.21294896523e-05"

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"kaskaskia" "0.0,1.0,0.0,5.21294896523e-05"  
"copper" "0.0,7.0,0.0,0.000364906427566"  
"major" "0.0,5.0,0.0,0.000260647448261"  
"oilshale" "0.0,1.0,0.0,5.21294896523e-05"  
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"whom" "1.0,0.0,6.82500682501e-05,0.0"  
"feet" "0.0,1.0,0.0,5.21294896523e-05"  
"patricia" "4.0,0.0,0.000273000273,0.0"  
"talked" "1.0,0.0,6.82500682501e-05,0.0"  
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"architect"    "0.0,1.0,0.0,5.21294896523e-05"
"hold"    "0.0,3.0,0.0,0.000156388468957"
"numerous"    "1.0,0.0,6.82500682501e-05,0.0"
"law"    "3.0,2.0,0.00020475020475,0.000104258979305"
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"c" "5.0,13.0,0.00034125034125,0.00067768336548"  
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"immediately" "3.0,19.0,0.00020475020475,0.000990460303394"  
"password" "4.0,1.0,0.000273000273,5.21294896523e-05"  
"you" "100.0,345.0,0.00682500682501,0.01798467393"  
"muscle" "0.0,2.0,0.0,0.000104258979305"  
"paying" "3.0,0.0,0.00020475020475,0.0"  
"loss" "0.0,1.0,0.0,5.21294896523e-05"  
"trash" "0.0,1.0,0.0,5.21294896523e-05"  
"emma" "1.0,0.0,6.82500682501e-05,0.0"  
"helpful" "2.0,0.0,0.0001365001365,0.0"  
"excluding" "2.0,0.0,0.0001365001365,0.0"  
"miami" "0.0,1.0,0.0,5.21294896523e-05"  
"alternatively" "0.0,1.0,0.0,5.21294896523e-05"  
"purchasing" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
"admitted" "1.0,0.0,6.82500682501e-05,0.0"  
"loses" "2.0,0.0,0.0001365001365,0.0"  
"upgraded" "0.0,1.0,0.0,5.21294896523e-05"  
"afeeee" "0.0,1.0,0.0,5.21294896523e-05"  
"lanterns" "0.0,1.0,0.0,5.21294896523e-05"  
"unique" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
"payments" "1.0,7.0,6.82500682501e-05,0.000364906427566"  
"terrible" "1.0,0.0,6.82500682501e-05,0.0"  
"lose" "0.0,2.0,0.0,0.000104258979305"  
"52477" "0.0,1.0,0.0,5.21294896523e-05"  
"become" "0.0,6.0,0.0,0.000312776937914"  
"georgel" "0.0,2.0,0.0,0.000104258979305"  
"roibot" "0.0,3.0,0.0,0.000156388468957"  
"page" "2.0,21.0,0.0001365001365,0.0010947192827"  
"poor" "0.0,3.0,0.0,0.000156388468957"  
"exceed" "0.0,1.0,0.0,5.21294896523e-05"  
"because" "4.0,15.0,0.000273000273,0.000781942344784"  
"arbitrage" "4.0,0.0,0.000273000273,0.0"  
"towels" "0.0,1.0,0.0,5.21294896523e-05"  
"982" "1.0,0.0,6.82500682501e-05,0.0"

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"upgrades" "0.0,2.0,0.0,0.000104258979305"  
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"authority" "1.0,0.0,6.82500682501e-05,0.0"  
"dynegy" "11.0,0.0,0.000750750750751,0.0"  
"preposition" "0.0,1.0,0.0,5.21294896523e-05"  
"macromedia" "0.0,6.0,0.0,0.000312776937914"  
"7877" "0.0,6.0,0.0,0.000312776937914"  
"messa" "1.0,0.0,6.82500682501e-05,0.0"  
"recommendation" "0.0,1.0,0.0,5.21294896523e-05"  
"39934" "2.0,0.0,0.0001365001365,0.0"  
"peter" "0.0,3.0,0.0,0.000156388468957"  
"ballot" "0.0,1.0,0.0,5.21294896523e-05"  
"huse" "1.0,0.0,6.82500682501e-05,0.0"  
"recognition" "0.0,1.0,0.0,5.21294896523e-05"  
"happens" "1.0,0.0,6.82500682501e-05,0.0"  
"kitchen" "16.0,0.0,0.001092001092,0.0"  
"poors" "1.0,0.0,6.82500682501e-05,0.0"  
"est" "1.0,0.0,6.82500682501e-05,0.0"  
"borland" "0.0,1.0,0.0,5.21294896523e-05"  
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"broad" "2.0,0.0,0.0001365001365,0.0"  
"avoid" "3.0,7.0,0.00020475020475,0.000364906427566"  
"xanax" "0.0,3.0,0.0,0.000156388468957"  
"mines" "0.0,1.0,0.0,5.21294896523e-05"  
"instantaneous" "0.0,1.0,0.0,5.21294896523e-05"  
"striking" "1.0,0.0,6.82500682501e-05,0.0"  
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"does" "4.0,7.0,0.000273000273,0.000364906427566"  
"discretion" "1.0,0.0,6.82500682501e-05,0.0"  
"anabel" "1.0,0.0,6.82500682501e-05,0.0"  
"esa" "1.0,0.0,6.82500682501e-05,0.0"  
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"salaried" "0.0,1.0,0.0,5.21294896523e-05"  
"three" "5.0,12.0,0.00034125034125,0.000625553875828"  
"fanny" "1.0,0.0,6.82500682501e-05,0.0"  
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"goatee" "0.0,1.0,0.0,5.21294896523e-05"  
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"pressure" "3.0,2.0,0.00020475020475,0.000104258979305"  
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"expire" "1.0,0.0,6.82500682501e-05,0.0"  
"prohibited" "1.0,0.0,6.82500682501e-05,0.0"  
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"stay" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
"television" "0.0,1.0,0.0,5.21294896523e-05"  
"after" "5.0,14.0,0.00034125034125,0.000729812855132"  
"panel" "0.0,1.0,0.0,5.21294896523e-05"  
"mmbtu" "6.0,0.0,0.0004095004095,0.0"  
"about" "9.0,43.0,0.000614250614251,0.00224156805505"  
"actual" "1.0,3.0,6.82500682501e-05,0.000156388468957"  
"carried" "0.0,1.0,0.0,5.21294896523e-05"  
"extension" "1.0,0.0,6.82500682501e-05,0.0"  
"getting" "0.0,8.0,0.0,0.000417035917218"  
"stad" "0.0,1.0,0.0,5.21294896523e-05"  
"shipping" "0.0,1.0,0.0,5.21294896523e-05"  
"kri" "2.0,0.0,0.0001365001365,0.0"  
"symantec" "0.0,1.0,0.0,5.21294896523e-05"  
"eatables" "0.0,1.0,0.0,5.21294896523e-05"  
"mayerbrown" "1.0,0.0,6.82500682501e-05,0.0"  
"insufficient" "0.0,1.0,0.0,5.21294896523e-05"  
"uncover" "0.0,1.0,0.0,5.21294896523e-05"  
"introduced" "3.0,0.0,0.00020475020475,0.0"  
"microsale" "0.0,8.0,0.0,0.000417035917218"  
"executives" "1.0,0.0,6.82500682501e-05,0.0"  
"warranty" "0.0,1.0,0.0,5.21294896523e-05"  
"512517" "0.0,2.0,0.0,0.000104258979305"  
"letters" "0.0,11.0,0.0,0.000573424386175"  
"carolyn" "0.0,1.0,0.0,5.21294896523e-05"  
"owe" "0.0,1.0,0.0,5.21294896523e-05"  
"payment" "1.0,0.0,6.82500682501e-05,0.0"  
"warrants" "2.0,0.0,0.0001365001365,0.0"  
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"eo" "0.0,1.0,0.0,5.21294896523e-05"

"terence" "0.0,1.0,0.0,5.21294896523e-05"  
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"included" "1.0,7.0,6.82500682501e-05,0.000364906427566"  
"footmen" "0.0,1.0,0.0,5.21294896523e-05"  
"promise" "0.0,1.0,0.0,5.21294896523e-05"  
"female" "0.0,3.0,0.0,0.000156388468957"  
"joyce" "1.0,0.0,6.82500682501e-05,0.0"  
"kinda" "2.0,0.0,0.0001365001365,0.0"  
"managing" "0.0,1.0,0.0,5.21294896523e-05"  
"uncollected" "1.0,0.0,6.82500682501e-05,0.0"  
"fired" "1.0,0.0,6.82500682501e-05,0.0"  
"twain" "1.0,0.0,6.82500682501e-05,0.0"  
"postal" "0.0,1.0,0.0,5.21294896523e-05"  
"prozac" "0.0,1.0,0.0,5.21294896523e-05"  
"rejoice" "0.0,1.0,0.0,5.21294896523e-05"  
"additional" "13.0,0.0,0.000887250887251,0.0"  
"adolescent" "0.0,1.0,0.0,5.21294896523e-05"  
"commission" "1.0,2.0,6.82500682501e-05,0.000104258979305"  
"texaco" "6.0,0.0,0.0004095004095,0.0"  
"prospects" "1.0,0.0,6.82500682501e-05,0.0"  
"rightly" "0.0,1.0,0.0,5.21294896523e-05"  
"daniels" "0.0,1.0,0.0,5.21294896523e-05"  
"relegated" "0.0,1.0,0.0,5.21294896523e-05"  
"secret" "0.0,8.0,0.0,0.000417035917218"  
"00450" "0.0,1.0,0.0,5.21294896523e-05"  
"imperial" "2.0,0.0,0.0001365001365,0.0"  
"like" "15.0,39.0,0.00102375102375,0.00203305009644"  
"spread" "1.0,0.0,6.82500682501e-05,0.0"  
"trigger" "2.0,0.0,0.0001365001365,0.0"  
"try" "2.0,8.0,0.0001365001365,0.000417035917218"  
"frustration" "1.0,0.0,6.82500682501e-05,0.0"  
"biggest" "0.0,1.0,0.0,5.21294896523e-05"  
"ssmb" "1.0,0.0,6.82500682501e-05,0.0"  
"chunk" "1.0,0.0,6.82500682501e-05,0.0"  
"cancel" "0.0,1.0,0.0,5.21294896523e-05"  
"function" "5.0,0.0,0.00034125034125,0.0"  
"njwa" "1.0,0.0,6.82500682501e-05,0.0"  
"buy" "3.0,5.0,0.00020475020475,0.000260647448261"  
"frightrob" "0.0,1.0,0.0,5.21294896523e-05"  
"xan" "0.0,2.0,0.0,0.000104258979305"

"560" "1.0,0.0,6.82500682501e-05,0.0"  
"bus" "2.0,2.0,0.0001365001365,0.000104258979305"  
"brand" "0.0,6.0,0.0,0.000312776937914"  
"strengths" "2.0,0.0,0.0001365001365,0.0"  
"but" "27.0,40.0,0.00184275184275,0.00208517958609"  
"yeah" "2.0,0.0,0.0001365001365,0.0"  
"delivery" "8.0,3.0,0.000546000546001,0.000156388468957"  
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"construction" "1.0,0.0,6.82500682501e-05,0.0"  
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"cpm" "0.0,6.0,0.0,0.000312776937914"  
"embargo" "1.0,0.0,6.82500682501e-05,0.0"  
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"safety" "0.0,2.0,0.0,0.000104258979305"  
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"j" "21.0,1.0,0.00143325143325,5.21294896523e-05"  
"flip" "1.0,0.0,6.82500682501e-05,0.0"  
"signed" "0.0,4.0,0.0,0.000208517958609"  
"placed" "0.0,1.0,0.0,5.21294896523e-05"  
"carriage" "0.0,1.0,0.0,5.21294896523e-05"  
"convince" "0.0,2.0,0.0,0.000104258979305"  
"stories" "0.0,4.0,0.0,0.000208517958609"  
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"wisew" "1.0,0.0,6.82500682501e-05,0.0"  
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"meyers" "1.0,0.0,6.82500682501e-05,0.0"  
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"what" "20.0,48.0,0.001365001365,0.00250221550331"  
"firm" "3.0,2.0,0.00020475020475,0.000104258979305"  
"irish" "0.0,1.0,0.0,5.21294896523e-05"

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"hopkins" "0.0,1.0,0.0,5.21294896523e-05"  
"0007" "4.0,2.0,0.000273000273,0.000104258979305"  
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"sapphire" "1.0,0.0,6.82500682501e-05,0.0"  
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"47" "1.0,1.0,6.82500682501e-05,5.21294896523e-05"  
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"0003" "4.0,2.0,0.000273000273,0.000104258979305"  
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"kokas" "1.0,0.0,6.82500682501e-05,0.0"  
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"sick" "0.0,1.0,0.0,5.21294896523e-05"  
"hpl" "12.0,0.0,0.000819000819001,0.0"  
"u" "0.0,3.0,0.0,0.000156388468957"  
"zinc" "0.0,1.0,0.0,5.21294896523e-05"  
"incredibly" "0.0,1.0,0.0,5.21294896523e-05"  
"ashburton" "0.0,3.0,0.0,0.000156388468957"  
"gonzalez" "1.0,0.0,6.82500682501e-05,0.0"

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"delainey" "8.0,0.0,0.000546000546001,0.0"  
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"gas" "37.0,0.0,0.002525252525,0.0"  
"worrying" "0.0,1.0,0.0,5.21294896523e-05"  
"june" "7.0,4.0,0.00047775047775,0.000208517958609"  
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"insults" "0.0,1.0,0.0,5.21294896523e-05"  
"oem" "0.0,3.0,0.0,0.000156388468957"  
"sure" "4.0,7.0,0.000273000273,0.000364906427566"  
"chance" "3.0,3.0,0.00020475020475,0.000156388468957"  
"ground" "0.0,1.0,0.0,5.21294896523e-05"  
"nospam" "0.0,1.0,0.0,5.21294896523e-05"  
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"ranks" "0.0,2.0,0.0,0.000104258979305"  
"starting" "0.0,1.0,0.0,5.21294896523e-05"  
"heathman" "1.0,0.0,6.82500682501e-05,0.0"  
"lehr" "1.0,0.0,6.82500682501e-05,0.0"  
"morne" "0.0,1.0,0.0,5.21294896523e-05"  
"hikes" "4.0,0.0,0.000273000273,0.0"  
"portion" "1.0,0.0,6.82500682501e-05,0.0"  
"lift" "1.0,0.0,6.82500682501e-05,0.0"  
"compete" "0.0,2.0,0.0,0.000104258979305"  
"474" "0.0,1.0,0.0,5.21294896523e-05"  
"runkel" "1.0,0.0,6.82500682501e-05,0.0"  
"understand" "3.0,4.0,0.00020475020475,0.000208517958609"  
"smoker" "0.0,1.0,0.0,5.21294896523e-05"  
"thompson" "1.0,0.0,6.82500682501e-05,0.0"  
"commencement" "0.0,1.0,0.0,5.21294896523e-05"

Removing temp directory /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/MRNaiveBayesTrainer  
EN.z013hnv.20160627.184445.921086...

In [16]:

```
#HW1.3
%%writefile MRNaiveBayesClassifierEN.py

from mrjob.job import MRJob

import math, re, string, numpy

class MRNaiveBayesClassifierEN(MRJob):
    def __init__(self, *args, **kwargs):
        super(MRNaiveBayesClassifierEN, self).__init__(*args, **kwargs)
        self.modelStats = {}
        self.prC0 = self.prC1 = 0
    def mapper_init(self):
        recordStrs = [s.split('\n')[0].split('\t') for s in open("/Users/z013hnv/Homework1/ENmodel.txt").readlines()]
        for word, statsStr in recordStrs:
            self.modelStats[word] = map(float, statsStr.split(","))
        if word=="MarksPriors":
            self.prC0 = math.log(self.modelStats[word][0])
            self.prC1 = math.log(self.modelStats[word][1])
            #print "show me prC0: ", (self.prC0)
            #print "show me prC1: ", (self.prC1)
        if word=="dynamic":
            print "dynamic c0 is %f" % (self.modelStats[word][2])
            print "dynamic c1 is %f" % (self.modelStats[word][3])

    def mapper(self, _, line):
        docID, docClass, text = line.split("\t",2)
        regex = re.compile('[%s]' % re.escape(string.punctuation))
        line = regex.sub(' ', str(text).lower())
        line = re.sub( '\s+', ' ', line )

        words = line.split()
        pC0 = self.prC0
        pC1 = self.prC1

        for word in words:
            #print "*****%s*****" % (word)
            if word in self.modelStats:
                if self.modelStats[word][2]!=0:
```

```

        #print "P(word|class0): %f" % (self.modelStats[word][2])
        pC0 += math.log(self.modelStats[word][2]) #we can just add each one since
log(ab)=log(a)+log(b) AND log(x^n)=n(log(x))
        else:
            pC0 += math.log(6.82500682501e-05) #add something small to account for th
e zeroes
            yield ('zeroProbs', 1)
        if self.modelStats[word][3]!=0:
            #print "P(word|class1): %f" % (self.modelStats[word][3])
            pC1 += math.log(self.modelStats[word][3])
        else:
            pC1 += math.log(6.82500682501e-05) #add something small to account for th
e zeroes
            yield ('zeroProbs', 1)
        else:
            yield ('newWords', 1)
    yield ("Pr(HAM|%s)" % (docID), pC0)
    yield ("Pr(SPAM|%s)" % (docID), pC1)
    #check which probability is greater, and compare to the flag
    if numpy.argmax([pC0, pC1]):
        #our model says this is most likely SPAM
        if docClass == "0":
            yield ('errorRate', 1)
        yield ('totalDocs', 1)
    else:
        #our model says this is most likely HAM
        if docClass == "1":
            yield ('errorRate', 1)
        yield ('totalDocs', 1)

def reducer(self, word, values):
    #sum the corrects, incorrects from the data
    yield (word, sum(values))

if __name__ == '__main__':
    MRNaiveBayesClassifierEN.run()

```

Overwriting MRNaiveBayesClassifierEN.py

```
In [17]: !python MRNaiveBayesClassifierEN.py enronemail_1h.txt --file=ENmodel.txt
```



```
Using configs in /Users/z013hnv/.mrjob.conf
Creating temp directory /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/MRNaiveBayesClassifierEN.z013hnv.20160627.184617.939897
Running step 1 of 1...
dynamic c0 is 0.000137
dynamic c1 is 0.000000
dynamic c0 is 0.000137
dynamic c1 is 0.000000
Streaming final output from /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/MRNaiveBayesClassifierEN.z013hnv.20160627.184617.939897/output...
"Pr(HAM|0001.1999-12-10.farmer)"      -40.247429474645045
"Pr(HAM|0001.1999-12-10.kaminski)"    -24.9938744905094
"Pr(HAM|0001.2000-01-17.beck)"        -3643.263907049001
"Pr(HAM|0001.2000-06-06.lokay)"       -3673.215215051512
"Pr(HAM|0001.2001-02-07.kitchen)"     -333.2997904882922
"Pr(HAM|0001.2001-04-02.williams)"    -1394.2993257264784
"Pr(HAM|0002.1999-12-13.farmer)"      -2910.459086127823
"Pr(HAM|0002.2001-02-07.kitchen)"     -442.8478717852385
"Pr(HAM|0002.2001-05-25.SA_and_HP)"   -646.9706153954643
"Pr(HAM|0002.2003-12-18.GP)"         -1373.7873569476235
"Pr(HAM|0002.2004-08-01.BG)"         -873.0228403490893
"Pr(HAM|0003.1999-12-10.kaminski)"   -407.1485630860432
"Pr(HAM|0003.1999-12-14.farmer)"     -73.96331723558797
"Pr(HAM|0003.2000-01-17.beck)"       -1263.4011138757346
"Pr(HAM|0003.2001-02-08.kitchen)"    -1346.1634481181784
"Pr(HAM|0003.2003-12-18.GP)"         -883.8649728835394
"Pr(HAM|0003.2004-08-01.BG)"         -807.8954317280154
"Pr(HAM|0004.1999-12-10.kaminski)"   -1088.5994443555742
"Pr(HAM|0004.1999-12-14.farmer)"     -1095.876936495229
"Pr(HAM|0004.2001-04-02.williams)"   -676.5876916601901
"Pr(HAM|0004.2001-06-12.SA_and_HP)"  -980.0205346729169
"Pr(HAM|0004.2004-08-01.BG)"         -818.5146826124068
"Pr(HAM|0005.1999-12-12.kaminski)"   -774.3791855776719
"Pr(HAM|0005.1999-12-14.farmer)"     -1081.9353556300784
"Pr(HAM|0005.2000-06-06.lokay)"      -427.382941613102
"Pr(HAM|0005.2001-02-08.kitchen)"    -895.9712652470065
"Pr(HAM|0005.2001-06-23.SA_and_HP)"  -195.02637824632362
"Pr(HAM|0005.2003-12-18.GP)"         -8130.541044461391
"Pr(HAM|0006.1999-12-13.kaminski)"   -489.22505394108094
"Pr(HAM|0006.2001-02-08.kitchen)"    -9779.483009534111
```

"Pr(HAM 0006.2001-04-03.williams)"	-298.1842802965853
"Pr(HAM 0006.2001-06-25.SA_and_HP)"	-392.759669316862
"Pr(HAM 0006.2003-12-18.GP)"	-1166.8626031406425
"Pr(HAM 0006.2004-08-01.BG)"	-1099.7741749679274
"Pr(HAM 0007.1999-12-13.kaminski)"	-1516.1314504487884
"Pr(HAM 0007.1999-12-14.farmer)"	-687.575896856846
"Pr(HAM 0007.2000-01-17.beck)"	-2780.89592853165
"Pr(HAM 0007.2001-02-09.kitchen)"	-1655.6476722910909
"Pr(HAM 0007.2003-12-18.GP)"	-1308.4968356349548
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"Pr(HAM 0008.2001-02-09.kitchen)"	-4189.735482223471
"Pr(HAM 0008.2001-06-12.SA_and_HP)"	-980.0205346729169
"Pr(HAM 0008.2001-06-25.SA_and_HP)"	-4952.677418258632
"Pr(HAM 0008.2003-12-18.GP)"	-1105.5031174713777
"Pr(HAM 0008.2004-08-01.BG)"	-6159.285029778808
"Pr(HAM 0009.1999-12-13.kaminski)"	-6347.01780307081
"Pr(HAM 0009.1999-12-14.farmer)"	-583.1429933239535
"Pr(HAM 0009.2000-06-07.lokay)"	-2738.0873522895768
"Pr(HAM 0009.2001-02-09.kitchen)"	-5750.6583718323245
"Pr(HAM 0009.2001-06-26.SA_and_HP)"	-1348.945642334385
"Pr(HAM 0009.2003-12-18.GP)"	-817.9239342539828
"Pr(HAM 0010.1999-12-14.farmer)"	-1382.659600524481
"Pr(HAM 0010.1999-12-14.kaminski)"	-197.28257395746084
"Pr(HAM 0010.2001-02-09.kitchen)"	-3056.3667576316484
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"Pr(HAM 0011.2003-12-18.GP)"	-560.185938687907
"Pr(HAM 0011.2004-08-01.BG)"	-709.4618073142311
"Pr(HAM 0012.1999-12-14.farmer)"	-3226.857658210634
"Pr(HAM 0012.1999-12-14.kaminski)"	-973.9456592626816
"Pr(HAM 0012.2000-01-17.beck)"	-2766.659904613193
"Pr(HAM 0012.2000-06-08.lokay)"	-909.0058119023709
"Pr(HAM 0012.2001-02-09.kitchen)"	-486.70623193806694
"Pr(HAM 0012.2003-12-19.GP)"	-162.3126814916029
"Pr(HAM 0013.1999-12-14.farmer)"	-1793.6660387041647
"Pr(HAM 0013.1999-12-14.kaminski)"	-1237.65425838255

"Pr(HAM 0013.2001-04-03.williams)"	-663.1107009963275
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"Pr(HAM 0014.1999-12-14.kaminski)"	-1770.3423023321197
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"Pr(SPAM|0007.2001-02-09.kitchen)" -1794.5135818927442  
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"Pr(SPAM|0008.2001-06-12.SA\_and\_HP)" -896.8613472007286  
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"Pr(SPAM|0009.1999-12-13.kaminski)" -8729.694200933669  
"Pr(SPAM|0009.1999-12-14.farmer)" -661.0646012964221  
"Pr(SPAM|0009.2000-06-07.lokay)" -3034.6389588437733  
"Pr(SPAM|0009.2001-02-09.kitchen)" -6373.795944543787  
"Pr(SPAM|0009.2001-06-26.SA\_and\_HP)" -1282.0145150867754

"Pr(SPAM 0009.2003-12-18.GP)"	-776.9344613708085
"Pr(SPAM 0010.1999-12-14.farmer)"	-1772.054803855888
"Pr(SPAM 0010.1999-12-14.kaminski)"	-216.53676734975508
"Pr(SPAM 0010.2001-02-09.kitchen)"	-3466.7801086343616
"Pr(SPAM 0010.2001-06-28.SA_and_HP)"	-3418.554802527866
"Pr(SPAM 0010.2003-12-18.GP)"	-50.59899711810898
"Pr(SPAM 0010.2004-08-01.BG)"	-2380.69119669787
"Pr(SPAM 0011.1999-12-14.farmer)"	-2054.6621570329626
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"Pr(SPAM 0012.1999-12-14.farmer)"	-3701.411840971504
"Pr(SPAM 0012.1999-12-14.kaminski)"	-1290.3142495593795
"Pr(SPAM 0012.2000-01-17.beck)"	-3382.6944696125547
"Pr(SPAM 0012.2000-06-08.lokay)"	-911.9145703154211
"Pr(SPAM 0012.2001-02-09.kitchen)"	-511.58169715275955
"Pr(SPAM 0012.2003-12-19.GP)"	-152.92565090204133
"Pr(SPAM 0013.1999-12-14.farmer)"	-1945.3791013275581
"Pr(SPAM 0013.1999-12-14.kaminski)"	-1592.6238443578525
"Pr(SPAM 0013.2001-04-03.williams)"	-680.2906999801104
"Pr(SPAM 0013.2001-06-30.SA_and_HP)"	-28826.973882142276
"Pr(SPAM 0013.2004-08-01.BG)"	-1518.6974215045257
"Pr(SPAM 0014.1999-12-14.kaminski)"	-2141.5317812904427
"Pr(SPAM 0014.1999-12-15.farmer)"	-1327.842661364316
"Pr(SPAM 0014.2001-02-12.kitchen)"	-1558.2253504233865
"Pr(SPAM 0014.2001-07-04.SA_and_HP)"	-3643.51896452333
"Pr(SPAM 0014.2003-12-19.GP)"	-168.2841327842156
"Pr(SPAM 0014.2004-08-01.BG)"	-828.8295441371512
"Pr(SPAM 0015.1999-12-14.kaminski)"	-741.7516382190611
"Pr(SPAM 0015.1999-12-15.farmer)"	-951.4181497667529
"Pr(SPAM 0015.2000-06-09.lokay)"	-143.10999153966276
"Pr(SPAM 0015.2001-02-12.kitchen)"	-5454.734725475192
"Pr(SPAM 0015.2001-07-05.SA_and_HP)"	-930.7373232974304
"Pr(SPAM 0015.2003-12-19.GP)"	-1324.9933824518723
"Pr(SPAM 0016.1999-12-15.farmer)"	-782.5585172277058
"Pr(SPAM 0016.2001-02-12.kitchen)"	-1340.7359547121375
"Pr(SPAM 0016.2001-07-05.SA_and_HP)"	-930.7373232974304
"Pr(SPAM 0016.2001-07-06.SA_and_HP)"	-17015.859727864572
"Pr(SPAM 0016.2003-12-19.GP)"	-797.9189139636624

```
"Pr(SPAM|0016.2004-08-01.BG)"      -658.6442261850838
"Pr(SPAM|0017.1999-12-14.kaminski)"     -382.8107691894002
"Pr(SPAM|0017.2000-01-17.beck)"    -3389.102813170585
"Pr(SPAM|0017.2001-04-03.williams)"   -450.339851081101
"Pr(SPAM|0017.2003-12-18.GP)"      -207.57093523956277
"Pr(SPAM|0017.2004-08-01.BG)"      -925.8318332981138
"Pr(SPAM|0017.2004-08-02.BG)"      -2652.5821249541877
"Pr(SPAM|0018.1999-12-14.kaminski)"  -1001.7402251652999
"Pr(SPAM|0018.2001-07-13.SA_and_HP)" -3350.257935288586
"Pr(SPAM|0018.2003-12-18.GP)"      -3486.6829264992366
"errorRate"                      2
"totalDocs"                      100
"zeroProbs"                      10460
```

Removing temp directory /var/folders/rs/x38wjyw962d7804bsghvbxrn37md3k/T/MRNaiveBayesClassifierEN.z013hnv.20160627.184617.939897...

In [15]:

```
#HW1.3
%reload_ext autoreload
%autoreload 2

from numpy import random
from MRNaiveBayesTrainerEN import MRNaiveBayesTrainerEN
from MRNaiveBayesClassifierEN import MRNaiveBayesClassifierEN

# STEP 1: Train a multinomial Naive Bayes

mr_job = MRNaiveBayesTrainerEN(args=['enronemail_1h.txt'])
modelStats={}
with mr_job.make_runner() as runner:
    runner.run()
    # stream_output: get access of the output
    for line in runner.stream_output():
        key,value = mr_job.parse_output_line(line)
        print key, value
        modelStats[key] = value

    # Create the model txt file
    with open('/Users/z013hnv/Homework1/ENmodel.txt', 'w') as f:
        for k in modelStats.keys():
            f.writelines( k + "\t" + str(modelStats[k]) + "\n")

# STEP 2: Classify data with newly trained model

mr_job = MRNaiveBayesClassifierEN(args=['enronemail_1h.txt',
                                         '--file=/Users/z013hnv/Homework1/ENmodel.txt'])
classifierResults={}
with mr_job.make_runner() as runner:
    runner.run()
    # stream_output: get access of the output
    for line in runner.stream_output():
        key,value = mr_job.parse_output_line(line)
        print key, value
        classifierResults[key] = value

    with open('ENSPAMoutput.txt', 'w') as f:
        for k in classifierResults.keys():
```

```
if k.find('SPAM') == 3:  
    f.writelines(str(classifierResults[k]) + "\n")  
with open('ENHAMoutput.txt', 'w') as g:  
    for k in classifierResults.keys():  
        if k.find('HAM') == 3:  
            g.writelines(str(classifierResults[k]) + "\n")
```



```
defaultPrior0class 20080.0
defaultPrior1class 24611.0
count0class 14652.0
count1class 19183.0
vocabularySize 5428
MarksPriors 56.0,44.0,0.56,0.44
stock 3.0,2.0,0.00020475020475,0.000104258979305
limited 4.0,10.0,0.000273000273,0.000521294896523
entergyr 1.0,0.0,6.82500682501e-05,0.0
mcsherry 1.0,0.0,6.82500682501e-05,0.0
additionally 1.0,1.0,6.82500682501e-05,5.21294896523e-05
doubts 0.0,1.0,0.0,5.21294896523e-05
dynamic 2.0,0.0,0.0001365001365,0.0
externally 0.0,2.0,0.0,0.000104258979305
yellow 0.0,1.0,0.0,5.21294896523e-05
barraged 0.0,1.0,0.0,5.21294896523e-05
prefix 0.0,1.0,0.0,5.21294896523e-05
35782 1.0,0.0,6.82500682501e-05,0.0
invovled 2.0,0.0,0.0001365001365,0.0
railing 0.0,1.0,0.0,5.21294896523e-05
appetite 0.0,2.0,0.0,0.000104258979305
hate 0.0,4.0,0.0,0.000208517958609
worked 1.0,2.0,6.82500682501e-05,0.000104258979305
forget 0.0,1.0,0.0,5.21294896523e-05
looking 0.0,4.0,0.0,0.000208517958609
fronts 1.0,0.0,6.82500682501e-05,0.0
founder 0.0,1.0,0.0,5.21294896523e-05
granting 0.0,1.0,0.0,5.21294896523e-05
electricity 1.0,0.0,6.82500682501e-05,0.0
turner 1.0,2.0,6.82500682501e-05,0.000104258979305
locomotive 0.0,1.0,0.0,5.21294896523e-05
7517 0.0,1.0,0.0,5.21294896523e-05
345 1.0,0.0,6.82500682501e-05,0.0
ilug 0.0,3.0,0.0,0.000156388468957
koromah 0.0,2.0,0.0,0.000104258979305
swap 0.0,2.0,0.0,0.000104258979305
whatsoever 0.0,3.0,0.0,0.000156388468957
riedel 1.0,0.0,6.82500682501e-05,0.0
sibilant 0.0,1.0,0.0,5.21294896523e-05
sorry 2.0,0.0,0.0001365001365,0.0
```

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overpaying 0.0,1.0,0.0,5.21294896523e-05  
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plants 2.0,0.0,0.0001365001365,0.0  
ettringer 2.0,0.0,0.0001365001365,0.0  
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legislators 2.0,0.0,0.0001365001365,0.0  
risk 46.0,3.0,0.0031395031395,0.000156388468957  
taylorja 1.0,0.0,6.82500682501e-05,0.0  
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travis 1.0,0.0,6.82500682501e-05,0.0  
shoot 0.0,1.0,0.0,5.21294896523e-05  
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four 3.0,5.0,0.00020475020475,0.000260647448261  
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heading 0.0,1.0,0.0,5.21294896523e-05

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n 1.0,12.0,6.82500682501e-05,0.000625553875828  
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108 1.0,0.0,6.82500682501e-05,0.0  
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beca 0.0,1.0,0.0,5.21294896523e-05  
107 0.0,1.0,0.0,5.21294896523e-05  
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specials 0.0,4.0,0.0,0.000208517958609  
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aka 0.0,1.0,0.0,5.21294896523e-05  
changes 4.0,0.0,0.000273000273,0.0

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fantastic 0.0,1.0,0.0,5.21294896523e-05  
ipps 6.0,0.0,0,0.0004095004095,0.0  
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benedicta 0.0,2.0,0.0,0,0.000104258979305  
qualities 0.0,1.0,0.0,5.21294896523e-05  
julie 5.0,0.0,0,0.00034125034125,0.0  
explained 0.0,1.0,0.0,5.21294896523e-05  
canyonu 0.0,1.0,0.0,5.21294896523e-05  
angrily 0.0,1.0,0.0,5.21294896523e-05  
chaeap 0.0,1.0,0.0,5.21294896523e-05  
feelings 0.0,1.0,0.0,5.21294896523e-05  
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pound 0.0,2.0,0.0,0,0.000104258979305  
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055 2.0,0.0,0,0.0001365001365,0.0  
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classifieds 0.0,1.0,0.0,5.21294896523e-05  
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slaver 0.0,1.0,0.0,5.21294896523e-05  
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derivatives 3.0,0.0,0,0.00020475020475,0.0  
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ore 0.0,3.0,0.0,0,0.000156388468957  
reflected 1.0,0.0,6.82500682501e-05,0.0  
7268 3.0,0.0,0,0.00020475020475,0.0  
would 43.0,30.0,0,0.00293475293475,0.00156388468957  
dnb 1.0,0.0,6.82500682501e-05,0.0  
catchy 0.0,1.0,0.0,5.21294896523e-05  
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negative 1.0,0.0,6.82500682501e-05,0.0  
trusted 0.0,2.0,0.0,0,0.000104258979305  
cali 0.0,1.0,0.0,5.21294896523e-05  
6207 1.0,0.0,6.82500682501e-05,0.0  
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asset 1.0,0.0,6.82500682501e-05,0.0

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tell 0.0,13.0,0.0,0.00067768336548  
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tenacity 0.0,1.0,0.0,5.21294896523e-05  
carmody 0.0,1.0,0.0,5.21294896523e-05  
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aware 1.0,0.0,6.82500682501e-05,0.0  
99 55.0,9.0,0.00375375375375,0.000469165406871  
98 0.0,1.0,0.0,5.21294896523e-05  
adult 0.0,3.0,0.0,0.000156388468957  
excellent 0.0,4.0,0.0,0.000208517958609  
90 2.0,1.0,0.0001365001365,5.21294896523e-05  
ward 0.0,1.0,0.0,5.21294896523e-05  
92 0.0,1.0,0.0,5.21294896523e-05  
95 0.0,15.0,0.0,0.000781942344784  
blocking 0.0,2.0,0.0,0.000104258979305  
97 0.0,1.0,0.0,5.21294896523e-05  
circumstances 1.0,0.0,6.82500682501e-05,0.0  
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1992 3.0,0.0,0.00020475020475,0.0  
join 6.0,4.0,0.0004095004095,0.000208517958609  
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1997 3.0,0.0,0.00020475020475,0.0  
mb 0.0,1.0,0.0,5.21294896523e-05  
1999 36.0,2.0,0.002457002457,0.000104258979305  
1998 2.0,0.0,0.0001365001365,0.0

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rabey 1.0,0.0,6.82500682501e-05,0.0  
bennett 1.0,0.0,6.82500682501e-05,0.0  
india 1.0,0.0,6.82500682501e-05,0.0  
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end 11.0,8.0,0.000750750750751,0.000417035917218

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atreus 0.0,1.0,0.0,5.21294896523e-05  
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davis 10.0,0.0,0.000682500682501,0.0  
wrong 0.0,3.0,0.0,0.000156388468957  
getthe 0.0,1.0,0.0,5.21294896523e-05  
involvement 0.0,1.0,0.0,5.21294896523e-05  
president 9.0,0.0,0.000614250614251,0.0  
chums 0.0,1.0,0.0,5.21294896523e-05  
excited 2.0,1.0,0.0001365001365,5.21294896523e-05  
siberia 0.0,1.0,0.0,5.21294896523e-05  
purchase 5.0,6.0,0.00034125034125,0.000312776937914  
vance 2.0,0.0,0.0001365001365,0.0  
danny 1.0,0.0,6.82500682501e-05,0.0  
attempt 2.0,0.0,0.0001365001365,0.0  
effective 8.0,3.0,0.000546000546001,0.000156388468957  
recieved 0.0,2.0,0.0,0.000104258979305

appreciate 2.0,0.0,0.0001365001365,0.0  
limitless 0.0,2.0,0.0,0.000104258979305  
janie 1.0,0.0,6.82500682501e-05,0.0  
baggage 0.0,1.0,0.0,5.21294896523e-05  
maintain 2.0,0.0,0.0001365001365,0.0  
used 4.0,7.0,0.000273000273,0.000364906427566  
south 6.0,9.0,0.0004095004095,0.000469165406871  
goodbye 0.0,1.0,0.0,5.21294896523e-05  
enter 0.0,7.0,0.0,0.000364906427566  
democratic 2.0,0.0,0.0001365001365,0.0  
entex 14.0,0.0,0.000955500955501,0.0  
wind 1.0,0.0,6.82500682501e-05,0.0  
operations 41.0,0.0,0.00279825279825,0.0  
longer 1.0,3.0,6.82500682501e-05,0.000156388468957  
valium 0.0,3.0,0.0,0.000156388468957  
executed 1.0,0.0,6.82500682501e-05,0.0  
iname 0.0,1.0,0.0,5.21294896523e-05  
office 15.0,11.0,0.00102375102375,0.000573424386175  
wound 0.0,1.0,0.0,5.21294896523e-05  
golnaragli 1.0,0.0,6.82500682501e-05,0.0  
plushy 0.0,1.0,0.0,5.21294896523e-05  
vary 0.0,1.0,0.0,5.21294896523e-05  
expects 3.0,0.0,0.00020475020475,0.0  
kickoff 2.0,0.0,0.0001365001365,0.0  
warrant 1.0,0.0,6.82500682501e-05,0.0  
presence 3.0,0.0,0.00020475020475,0.0  
workstation 0.0,1.0,0.0,5.21294896523e-05  
london 3.0,1.0,0.00020475020475,5.21294896523e-05  
persons 1.0,0.0,6.82500682501e-05,0.0  
innovative 2.0,0.0,0.0001365001365,0.0  
ien 0.0,2.0,0.0,0.000104258979305  
spam 0.0,7.0,0.0,0.000364906427566  
before 8.0,15.0,0.000546000546001,0.000781942344784  
some 39.0,29.0,0.00266175266175,0.00151175519992  
position 6.0,1.0,0.0004095004095,5.21294896523e-05  
redhat 0.0,1.0,0.0,5.21294896523e-05  
classrom 1.0,0.0,6.82500682501e-05,0.0  
personal 4.0,8.0,0.000273000273,0.000417035917218  
rankings 1.0,0.0,6.82500682501e-05,0.0  
trying 1.0,2.0,6.82500682501e-05,0.000104258979305

revenue 2.0,0.0,0.0001365001365,0.0  
tactically 0.0,1.0,0.0,5.21294896523e-05  
expectations 0.0,4.0,0.0,0.000208517958609  
exhibits 0.0,2.0,0.0,0.000104258979305  
pilkington 0.0,1.0,0.0,5.21294896523e-05  
better 3.0,7.0,0.00020475020475,0.000364906427566  
spoken 2.0,0.0,0.0001365001365,0.0  
production 6.0,2.0,0.0004095004095,0.000104258979305  
compelling 0.0,1.0,0.0,5.21294896523e-05  
ruanda 0.0,1.0,0.0,5.21294896523e-05  
romeo 1.0,0.0,6.82500682501e-05,0.0  
kollaros 1.0,0.0,6.82500682501e-05,0.0  
clu 0.0,1.0,0.0,5.21294896523e-05  
weeks 6.0,2.0,0.0004095004095,0.000104258979305  
schmidt 0.0,4.0,0.0,0.000208517958609  
emphasize 0.0,1.0,0.0,5.21294896523e-05  
trials 0.0,1.0,0.0,5.21294896523e-05  
eventually 0.0,2.0,0.0,0.000104258979305  
coffee 3.0,2.0,0.00020475020475,0.000104258979305  
bazzd 0.0,1.0,0.0,5.21294896523e-05  
justperform 0.0,1.0,0.0,5.21294896523e-05  
similes 0.0,1.0,0.0,5.21294896523e-05  
press 2.0,2.0,0.0001365001365,0.000104258979305  
weakness 2.0,2.0,0.0001365001365,0.000104258979305  
comwww 0.0,11.0,0.0,0.000573424386175  
incorrectly 1.0,0.0,6.82500682501e-05,0.0  
accrual 2.0,0.0,0.0001365001365,0.0  
wsc 0.0,1.0,0.0,5.21294896523e-05  
break 4.0,1.0,0.000273000273,5.21294896523e-05  
modification 0.0,1.0,0.0,5.21294896523e-05  
effects 0.0,1.0,0.0,5.21294896523e-05  
lavorato 6.0,0.0,0.0004095004095,0.0  
payback 1.0,0.0,6.82500682501e-05,0.0  
bypasses 0.0,1.0,0.0,5.21294896523e-05  
pike 0.0,1.0,0.0,5.21294896523e-05  
rental 0.0,1.0,0.0,5.21294896523e-05  
silver 0.0,1.0,0.0,5.21294896523e-05  
bank 0.0,7.0,0.0,0.000364906427566  
monadic 0.0,1.0,0.0,5.21294896523e-05  
netherlands 0.0,2.0,0.0,0.000104258979305

alex 4.0,0.0,0.000273000273,0.0  
spigot 0.0,1.0,0.0,5.21294896523e-05  
usage 1.0,3.0,6.82500682501e-05,0.000156388468957  
off 3.0,5.0,0.00020475020475,0.000260647448261  
windowsentities 0.0,1.0,0.0,5.21294896523e-05  
fonts 0.0,2.0,0.0,0.000104258979305  
arrested 0.0,1.0,0.0,5.21294896523e-05  
chuck 1.0,0.0,0.6.82500682501e-05,0.0  
magellan 0.0,1.0,0.0,5.21294896523e-05  
skills 0.0,2.0,0.0,0.000104258979305  
filling 0.0,1.0,0.0,5.21294896523e-05  
affiliate 0.0,2.0,0.0,0.000104258979305  
reasonable 0.0,2.0,0.0,0.000104258979305  
each 17.0,10.0,0.00116025116025,0.000521294896523  
flustrated 1.0,0.0,0.6.82500682501e-05,0.0  
went 1.0,2.0,6.82500682501e-05,0.000104258979305  
higher 2.0,2.0,0.0001365001365,0.000104258979305  
375 0.0,1.0,0.0,5.21294896523e-05  
side 0.0,2.0,0.0,0.000104258979305  
bone 0.0,1.0,0.0,5.21294896523e-05  
bond 0.0,1.0,0.0,5.21294896523e-05  
development 14.0,2.0,0.000955500955501,0.000104258979305  
lifted 0.0,1.0,0.0,5.21294896523e-05  
puc 3.0,0.0,0.00020475020475,0.0  
adobe 0.0,12.0,0.0,0.000625553875828  
personage 0.0,1.0,0.0,5.21294896523e-05  
woo 1.0,0.0,0.6.82500682501e-05,0.0  
ssb 1.0,0.0,6.82500682501e-05,0.0  
chirano 0.0,4.0,0.0,0.000208517958609  
diane 1.0,0.0,0.6.82500682501e-05,0.0  
solution 0.0,2.0,0.0,0.000104258979305  
392 2.0,0.0,0.0001365001365,0.0  
reader 0.0,23.0,0.0,0.001198978262  
literature 1.0,0.0,0.6.82500682501e-05,0.0  
trading 29.0,0.0,0.00197925197925,0.0  
touched 0.0,1.0,0.0,5.21294896523e-05  
doug 1.0,0.0,0.6.82500682501e-05,0.0  
ypfpb 0.0,1.0,0.0,5.21294896523e-05  
aids 1.0,0.0,0.6.82500682501e-05,0.0  
399 0.0,1.0,0.0,5.21294896523e-05

mandated 0.0,1.0,0.0,5.21294896523e-05  
saturday 1.0,0.0,6.82500682501e-05,0.0  
turn 1.0,2.0,6.82500682501e-05,0.000104258979305  
large 0.0,8.0,0.0,0.000417035917218  
merchants 1.0,0.0,6.82500682501e-05,0.0  
forwarding 1.0,0.0,6.82500682501e-05,0.0  
westward 0.0,1.0,0.0,5.21294896523e-05  
network 0.0,1.0,0.0,5.21294896523e-05  
traffic 0.0,10.0,0.0,0.000521294896523  
god 0.0,3.0,0.0,0.000156388468957  
tried 4.0,1.0,0.000273000273,5.21294896523e-05  
forhome 0.0,1.0,0.0,5.21294896523e-05  
rx 0.0,1.0,0.0,5.21294896523e-05  
forty 0.0,1.0,0.0,5.21294896523e-05  
0281 1.0,0.0,6.82500682501e-05,0.0  
content 1.0,12.0,6.82500682501e-05,0.000625553875828  
adhesion 0.0,1.0,0.0,5.21294896523e-05  
encourage 4.0,0.0,0.000273000273,0.0  
daniel 2.0,0.0,0.0001365001365,0.0  
rare 0.0,1.0,0.0,5.21294896523e-05  
gutierrez 1.0,0.0,6.82500682501e-05,0.0  
comprehensive 0.0,1.0,0.0,5.21294896523e-05  
got 0.0,7.0,0.0,0.000364906427566  
gov 1.0,0.0,6.82500682501e-05,0.0  
strategist 0.0,2.0,0.0,0.000104258979305  
dea 0.0,1.0,0.0,5.21294896523e-05  
underwrite 0.0,1.0,0.0,5.21294896523e-05  
arizona 1.0,0.0,6.82500682501e-05,0.0  
workout 1.0,0.0,6.82500682501e-05,0.0  
barrier 0.0,2.0,0.0,0.000104258979305  
associate 1.0,2.0,6.82500682501e-05,0.000104258979305  
rail 0.0,3.0,0.0,0.000156388468957  
cholesterol 0.0,1.0,0.0,5.21294896523e-05  
eternal 0.0,1.0,0.0,5.21294896523e-05  
free 7.0,79.0,0.00047775047775,0.00411822968253  
fred 1.0,0.0,6.82500682501e-05,0.0  
versus 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
normet 0.0,2.0,0.0,0.000104258979305  
enhance 3.0,0.0,0.00020475020475,0.0  
cheeap 0.0,1.0,0.0,5.21294896523e-05

hand 3.0,2.0,0.00020475020475,0.000104258979305  
249 0.0,2.0,0.0,0.000104258979305  
acrobat 0.0,1.0,0.0,5.21294896523e-05  
crowdbut 0.0,1.0,0.0,5.21294896523e-05  
yard 2.0,0.0,0.0001365001365,0.0  
enormous 1.0,0.0,6.82500682501e-05,0.0  
ate 1.0,2.0,6.82500682501e-05,0.000104258979305  
created 6.0,1.0,0.0004095004095,5.21294896523e-05  
refugee 0.0,3.0,0.0,0.000156388468957  
isp 0.0,8.0,0.0,0.000417035917218  
luong 1.0,0.0,6.82500682501e-05,0.0  
days 3.0,7.0,0.00020475020475,0.000364906427566  
economically 0.0,1.0,0.0,5.21294896523e-05  
creates 0.0,2.0,0.0,0.000104258979305  
mackey 1.0,0.0,6.82500682501e-05,0.0  
nighttime 0.0,2.0,0.0,0.000104258979305  
josey 7.0,0.0,0.00047775047775,0.0  
iso 0.0,10.0,0.0,0.000521294896523  
isn 0.0,3.0,0.0,0.000156388468957  
incorporated 1.0,0.0,6.82500682501e-05,0.0  
signature 0.0,1.0,0.0,5.21294896523e-05  
liquids 1.0,0.0,6.82500682501e-05,0.0  
incomeunlimited 0.0,1.0,0.0,5.21294896523e-05  
speeds 0.0,1.0,0.0,5.21294896523e-05  
user 6.0,2.0,0.0004095004095,0.000104258979305  
size 0.0,5.0,0.0,0.000260647448261  
eileen 1.0,0.0,6.82500682501e-05,0.0  
appeals 0.0,4.0,0.0,0.000208517958609  
nigel 1.0,0.0,6.82500682501e-05,0.0  
features 1.0,5.0,6.82500682501e-05,0.000260647448261  
grade 0.0,2.0,0.0,0.000104258979305  
52109 1.0,0.0,6.82500682501e-05,0.0  
coding 2.0,0.0,0.0001365001365,0.0  
primary 3.0,0.0,0.00020475020475,0.0  
thereof 1.0,0.0,6.82500682501e-05,0.0  
shy 1.0,0.0,6.82500682501e-05,0.0  
hook 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
featured 0.0,2.0,0.0,0.000104258979305  
another 6.0,9.0,0.0004095004095,0.000469165406871  
miserable 0.0,1.0,0.0,5.21294896523e-05

tel 0.0,3.0,0.0,0.000156388468957  
clarity 1.0,0.0,6.82500682501e-05,0.0  
wing 1.0,0.0,6.82500682501e-05,0.0  
hood 0.0,1.0,0.0,5.21294896523e-05  
illustrate 0.0,2.0,0.0,0.000104258979305  
priority 0.0,2.0,0.0,0.000104258979305  
cheaep 0.0,1.0,0.0,5.21294896523e-05  
rated 0.0,3.0,0.0,0.000156388468957  
service 2.0,46.0,0.0001365001365,0.00239795652401  
damorgarjr 0.0,1.0,0.0,5.21294896523e-05  
tyone 0.0,1.0,0.0,5.21294896523e-05  
top 2.0,7.0,0.0001365001365,0.000364906427566  
recruiting 2.0,1.0,0.0001365001365,5.21294896523e-05  
1500 0.0,1.0,0.0,5.21294896523e-05  
approximately 4.0,0.0,0.000273000273,0.0  
plentiful 0.0,1.0,0.0,5.21294896523e-05  
needed 7.0,2.0,0.00047775047775,0.000104258979305  
airs 0.0,1.0,0.0,5.21294896523e-05  
master 0.0,3.0,0.0,0.000156388468957  
listed 4.0,3.0,0.000273000273,0.000156388468957  
miller 1.0,0.0,6.82500682501e-05,0.0  
gilbert 1.0,0.0,6.82500682501e-05,0.0  
john 20.0,2.0,0.001365001365,0.000104258979305  
profitbanners 0.0,4.0,0.0,0.000208517958609  
listen 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
troubled 0.0,1.0,0.0,5.21294896523e-05  
streets 0.0,1.0,0.0,5.21294896523e-05  
enhancing 1.0,0.0,6.82500682501e-05,0.0  
reins 0.0,1.0,0.0,5.21294896523e-05  
tool 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
serve 0.0,6.0,0.0,0.000312776937914  
took 1.0,2.0,6.82500682501e-05,0.000104258979305  
negotiating 3.0,0.0,0.00020475020475,0.0  
036474336 1.0,0.0,6.82500682501e-05,0.0  
intelt 0.0,1.0,0.0,5.21294896523e-05  
task 0.0,2.0,0.0,0.000104258979305  
serial 0.0,2.0,0.0,0.000104258979305  
somewhat 0.0,1.0,0.0,5.21294896523e-05  
shortly 0.0,1.0,0.0,5.21294896523e-05  
willbe 0.0,1.0,0.0,5.21294896523e-05

horn 0.0,1.0,0.0,5.21294896523e-05  
spreads 1.0,0.0,6.82500682501e-05,0.0  
begins 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
distance 1.0,4.0,6.82500682501e-05,0.000208517958609  
congratulatory 0.0,1.0,0.0,5.21294896523e-05  
theqgrefor 0.0,1.0,0.0,5.21294896523e-05  
last 11.0,7.0,0.000750750750751,0.000364906427566  
keyword 0.0,4.0,0.0,0.000208517958609  
surrounding 1.0,0.0,6.82500682501e-05,0.0  
hike 1.0,0.0,6.82500682501e-05,0.0  
etc 4.0,5.0,0.000273000273,0.000260647448261  
rate 26.0,7.0,0.0017745017745,0.000364906427566  
project 7.0,11.0,0.00047775047775,0.000573424386175  
matter 2.0,4.0,0.0001365001365,0.000208517958609  
classes 1.0,0.0,6.82500682501e-05,0.0  
speaking 0.0,1.0,0.0,5.21294896523e-05  
historical 3.0,0.0,0.00020475020475,0.0  
knights 1.0,0.0,6.82500682501e-05,0.0  
feeling 2.0,1.0,0.0001365001365,5.21294896523e-05  
quoted 2.0,2.0,0.0001365001365,0.000104258979305  
stacey 3.0,1.0,0.00020475020475,5.21294896523e-05  
acquisition 0.0,1.0,0.0,5.21294896523e-05  
perspective 7.0,0.0,0.00047775047775,0.0  
bridge 1.0,0.0,6.82500682501e-05,0.0  
fashion 0.0,1.0,0.0,5.21294896523e-05  
rac 1.0,0.0,6.82500682501e-05,0.0  
rewrite 0.0,2.0,0.0,0.000104258979305  
ran 0.0,2.0,0.0,0.000104258979305  
ram 0.0,2.0,0.0,0.000104258979305  
mind 1.0,15.0,6.82500682501e-05,0.000781942344784  
mine 2.0,5.0,0.0001365001365,0.000260647448261  
zaako 0.0,1.0,0.0,5.21294896523e-05  
biwven 0.0,1.0,0.0,5.21294896523e-05  
tips 0.0,4.0,0.0,0.000208517958609  
talking 0.0,2.0,0.0,0.000104258979305  
789118270 1.0,0.0,6.82500682501e-05,0.0  
wyn 0.0,2.0,0.0,0.000104258979305  
principle 0.0,1.0,0.0,5.21294896523e-05  
seen 1.0,3.0,6.82500682501e-05,0.000156388468957  
seem 0.0,3.0,0.0,0.000156388468957

strengthening 1.0,0.0,6.82500682501e-05,0.0  
tells 0.0,1.0,0.0,5.21294896523e-05  
ckily 0.0,1.0,0.0,5.21294896523e-05  
affairs 1.0,0.0,6.82500682501e-05,0.0  
gimg 0.0,1.0,0.0,5.21294896523e-05  
strength 0.0,1.0,0.0,5.21294896523e-05  
genuine 0.0,2.0,0.0,0.000104258979305  
releases 0.0,2.0,0.0,0.000104258979305  
hoferc 1.0,0.0,6.82500682501e-05,0.0  
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stopping 0.0,3.0,0.0,0.000156388468957  
aid 0.0,1.0,0.0,5.21294896523e-05  
9434 2.0,0.0,0.0001365001365,0.0  
balance 0.0,1.0,0.0,5.21294896523e-05  
davenport 1.0,0.0,6.82500682501e-05,0.0  
k 1.0,3.0,6.82500682501e-05,0.000156388468957  
natives 0.0,1.0,0.0,5.21294896523e-05

millions 0.0,2.0,0.0,0.000104258979305  
economics 1.0,0.0,6.82500682501e-05,0.0  
9610 1.0,0.0,6.82500682501e-05,0.0  
mexico 0.0,1.0,0.0,5.21294896523e-05  
remunerate 0.0,1.0,0.0,5.21294896523e-05  
cano 0.0,1.0,0.0,5.21294896523e-05  
is 114.0,135.0,0.00778050778051,0.00703748110306  
dictate 0.0,1.0,0.0,5.21294896523e-05  
ii 3.0,0.0,0.00020475020475,0.0  
it 40.0,152.0,0.00273000273,0.00792368242715  
5290 2.0,0.0,0.0001365001365,0.0  
expenses 1.0,2.0,6.82500682501e-05,0.000104258979305  
elmira 0.0,1.0,0.0,5.21294896523e-05  
player 0.0,2.0,0.0,0.000104258979305  
im 0.0,1.0,0.0,5.21294896523e-05  
clinging 0.0,1.0,0.0,5.21294896523e-05  
in 182.0,236.0,0.0124215124215,0.0123025595579  
several 12.0,5.0,0.000819000819001,0.000260647448261  
vendor 2.0,0.0,0.0001365001365,0.0  
t 10.0,59.0,0.000682500682501,0.00307563988949  
shift 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
ie 0.0,4.0,0.0,0.000208517958609  
id 10.0,4.0,0.000682500682501,0.000208517958609  
conn 1.0,0.0,6.82500682501e-05,0.0  
if 42.0,65.0,0.0028665028665,0.0033884168274  
1814 1.0,0.0,6.82500682501e-05,0.0  
containing 0.0,3.0,0.0,0.000156388468957  
sap 17.0,0.0,0.00116025116025,0.0  
mperkins 1.0,0.0,6.82500682501e-05,0.0  
perform 0.0,1.0,0.0,5.21294896523e-05  
saw 1.0,0.0,6.82500682501e-05,0.0  
make 7.0,28.0,0.00047775047775,0.00145962571026  
lokay 5.0,0.0,0.00034125034125,0.0  
transporting 1.0,0.0,6.82500682501e-05,0.0  
amount 4.0,3.0,0.000273000273,0.000156388468957  
shares 0.0,1.0,0.0,5.21294896523e-05  
damages 0.0,1.0,0.0,5.21294896523e-05  
evaluate 2.0,0.0,0.0001365001365,0.0  
success 4.0,21.0,0.000273000273,0.0010947192827  
frusco 3.0,0.0,0.00020475020475,0.0

czkkrxht 0.0,1.0,0.0,5.21294896523e-05  
ambien 0.0,2.0,0.0,0.000104258979305  
european 0.0,2.0,0.0,0.000104258979305  
clicking 0.0,1.0,0.0,5.21294896523e-05  
schumack 3.0,0.0,0.00020475020475,0.0  
shwc 0.0,1.0,0.0,5.21294896523e-05  
counterparty 2.0,0.0,0.0001365001365,0.0  
thank 5.0,4.0,0.00034125034125,0.000208517958609  
nim 2.0,0.0,0.0001365001365,0.0  
unlimited 0.0,4.0,0.0,0.000208517958609  
published 1.0,4.0,6.82500682501e-05,0.000208517958609  
hang 0.0,1.0,0.0,5.21294896523e-05  
managment 4.0,0.0,0.000273000273,0.0  
greeted 1.0,0.0,6.82500682501e-05,0.0  
delight 0.0,1.0,0.0,5.21294896523e-05  
grammar 0.0,1.0,0.0,5.21294896523e-05  
documents 0.0,4.0,0.0,0.000208517958609  
producers 2.0,1.0,0.0001365001365,5.21294896523e-05  
kim 3.0,0.0,0.00020475020475,0.0  
hans 1.0,0.0,6.82500682501e-05,0.0  
on 135.0,136.0,0.00921375921376,0.00708961059271  
opportunity 2.0,7.0,0.0001365001365,0.000364906427566  
greedily 0.0,1.0,0.0,5.21294896523e-05  
adminder 0.0,2.0,0.0,0.000104258979305  
kid 0.0,1.0,0.0,5.21294896523e-05  
9291 1.0,0.0,6.82500682501e-05,0.0  
kept 0.0,2.0,0.0,0.000104258979305  
whereby 2.0,0.0,0.0001365001365,0.0  
scenario 1.0,0.0,6.82500682501e-05,0.0  
programs 2.0,12.0,0.0001365001365,0.000625553875828  
she 17.0,1.0,0.00116025116025,5.21294896523e-05  
charlie 1.0,0.0,6.82500682501e-05,0.0  
thu 10.0,0.0,0.000682500682501,0.0  
eops 1.0,0.0,6.82500682501e-05,0.0  
cultural 1.0,0.0,6.82500682501e-05,0.0  
doff 0.0,1.0,0.0,5.21294896523e-05  
more 16.0,49.0,0.001092001092,0.00255434499296  
8859 0.0,10.0,0.0,0.000521294896523  
contact 17.0,14.0,0.00116025116025,0.000729812855132  
greatest 0.0,2.0,0.0,0.000104258979305

melodick 1.0,0.0,6.82500682501e-05,0.0  
wedeliverparties 0.0,1.0,0.0,5.21294896523e-05  
802 0.0,1.0,0.0,5.21294896523e-05  
the 549.0,698.0,0.0374692874693,0.0363863837773  
800 3.0,0.0,0.00020475020475,0.0  
corporate 7.0,1.0,0.00047775047775,5.21294896523e-05  
buchsbaum 1.0,0.0,6.82500682501e-05,0.0  
left 5.0,0.0,0.00034125034125,0.0  
arousing 0.0,1.0,0.0,5.21294896523e-05  
mclean 1.0,0.0,6.82500682501e-05,0.0  
intra 1.0,0.0,6.82500682501e-05,0.0  
capitol 0.0,1.0,0.0,5.21294896523e-05  
just 8.0,39.0,0.000546000546001,0.00203305009644  
mime 0.0,1.0,0.0,5.21294896523e-05  
willing 0.0,1.0,0.0,5.21294896523e-05  
photo 0.0,1.0,0.0,5.21294896523e-05  
enjoy 0.0,2.0,0.0,0.000104258979305  
eliminationstop 0.0,1.0,0.0,5.21294896523e-05  
rush 0.0,1.0,0.0,5.21294896523e-05  
ideas 3.0,3.0,0.00020475020475,0.000156388468957  
quotes 0.0,3.0,0.0,0.000156388468957  
via 6.0,7.0,0.0004095004095,0.000364906427566  
identify 2.0,0.0,0.0001365001365,0.0  
mechanism 1.0,0.0,6.82500682501e-05,0.0  
human 12.0,2.0,0.000819000819001,0.000104258979305  
macquarie 0.0,2.0,0.0,0.000104258979305  
yes 2.0,5.0,0.0001365001365,0.000260647448261  
sellinternetaccess 0.0,5.0,0.0,0.000260647448261  
cenochs 1.0,0.0,6.82500682501e-05,0.0  
psychotic 0.0,1.0,0.0,5.21294896523e-05  
succeeding 0.0,1.0,0.0,5.21294896523e-05  
previous 9.0,0.0,0.000614250614251,0.0  
shiip 0.0,2.0,0.0,0.000104258979305  
alum 0.0,1.0,0.0,5.21294896523e-05  
enters 0.0,1.0,0.0,5.21294896523e-05  
hal 1.0,0.0,6.82500682501e-05,0.0  
tin 0.0,5.0,0.0,0.000260647448261  
candidate 1.0,0.0,6.82500682501e-05,0.0  
mix 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
nicolay 1.0,0.0,6.82500682501e-05,0.0

tenderer 0.0,1.0,0.0,5.21294896523e-05  
had 11.0,9.0,0.000750750750751,0.000469165406871  
intends 2.0,0.0,0.0001365001365,0.0  
glencore 2.0,0.0,0.0001365001365,0.0  
belongs 0.0,2.0,0.0,0.000104258979305  
board 0.0,3.0,0.0,0.000156388468957  
easy 0.0,16.0,0.0,0.000834071834437  
southwest 1.0,0.0,6.82500682501e-05,0.0  
ramupgradeable 0.0,1.0,0.0,5.21294896523e-05  
ctise 1.0,0.0,6.82500682501e-05,0.0  
keeley 5.0,0.0,0.00034125034125,0.0  
opt 0.0,2.0,0.0,0.000104258979305  
shoulder 0.0,1.0,0.0,5.21294896523e-05  
which 23.0,24.0,0.00156975156975,0.00125110775166  
trista 2.0,0.0,0.0001365001365,0.0  
osman 4.0,0.0,0.000273000273,0.0  
involuntary 8.0,0.0,0.000546000546001,0.0  
online 0.0,20.0,0.0,0.00104258979305  
disagreement 1.0,0.0,6.82500682501e-05,0.0  
possible 9.0,8.0,0.000614250614251,0.000417035917218  
6992 2.0,0.0,0.0001365001365,0.0  
lengthen 0.0,1.0,0.0,5.21294896523e-05  
possibly 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
boxes 1.0,0.0,6.82500682501e-05,0.0  
background 2.0,7.0,0.0001365001365,0.000364906427566  
performance 5.0,2.0,0.00034125034125,0.000104258979305  
judge 3.0,0.0,0.00020475020475,0.0  
highly 1.0,0.0,6.82500682501e-05,0.0  
new 40.0,26.0,0.00273000273,0.00135536673096  
mayes 1.0,0.0,6.82500682501e-05,0.0  
advanced 0.0,1.0,0.0,5.21294896523e-05  
apart 0.0,2.0,0.0,0.000104258979305  
desire 0.0,3.0,0.0,0.000156388468957  
dignity 0.0,1.0,0.0,5.21294896523e-05  
quickly 4.0,3.0,0.000273000273,0.000156388468957  
fioricet 0.0,1.0,0.0,5.21294896523e-05  
59 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
58 1.0,0.0,6.82500682501e-05,0.0  
gift 4.0,9.0,0.000273000273,0.000469165406871  
texts 2.0,0.0,0.0001365001365,0.0

bucolic 0.0,1.0,0.0,5.21294896523e-05  
54 1.0,3.0,6.82500682501e-05,0.000156388468957  
57 0.0,1.0,0.0,5.21294896523e-05  
56 0.0,1.0,0.0,5.21294896523e-05  
51 1.0,0.0,6.82500682501e-05,0.0  
50 5.0,10.0,0.00034125034125,0.000521294896523  
52 1.0,2.0,6.82500682501e-05,0.000104258979305  
securities 4.0,1.0,0.000273000273,5.21294896523e-05  
55 4.0,0.0,0.000273000273,0.0  
private 0.0,5.0,0.0,0.000260647448261  
offices 3.0,0.0,0.00020475020475,0.0  
officer 3.0,0.0,0.00020475020475,0.0  
night 3.0,1.0,0.00020475020475,5.21294896523e-05  
squill 0.0,1.0,0.0,5.21294896523e-05  
response 0.0,4.0,0.0,0.000208517958609  
grizzly 0.0,1.0,0.0,5.21294896523e-05  
towards 0.0,4.0,0.0,0.000208517958609  
scout 1.0,0.0,6.82500682501e-05,0.0  
surf 0.0,5.0,0.0,0.000260647448261  
www 1.0,45.0,6.82500682501e-05,0.00234582703435  
cowry 0.0,1.0,0.0,5.21294896523e-05  
dean 0.0,1.0,0.0,5.21294896523e-05  
crowd 0.0,2.0,0.0,0.000104258979305  
200 2.0,1.0,0.0001365001365,5.21294896523e-05  
staff 4.0,1.0,0.000273000273,5.21294896523e-05  
flatter 1.0,0.0,6.82500682501e-05,0.0  
successfully 0.0,1.0,0.0,5.21294896523e-05  
8038 1.0,0.0,6.82500682501e-05,0.0  
dead 1.0,2.0,6.82500682501e-05,0.000104258979305  
oh 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
stinson 8.0,0.0,0.000546000546001,0.0  
offer 2.0,24.0,0.0001365001365,0.00125110775166  
printer 23.0,0.0,0.00156975156975,0.0  
hassle 0.0,2.0,0.0,0.000104258979305  
election 1.0,0.0,6.82500682501e-05,0.0  
escape 0.0,2.0,0.0,0.000104258979305  
critique 0.0,1.0,0.0,5.21294896523e-05  
gosnell 1.0,0.0,6.82500682501e-05,0.0  
advertise 0.0,2.0,0.0,0.000104258979305  
purposefully 0.0,1.0,0.0,5.21294896523e-05

txu 2.0,0.0,0.0001365001365,0.0  
confusing 0.0,1.0,0.0,5.21294896523e-05  
strategic 1.0,2.0,6.82500682501e-05,0.000104258979305  
cede 1.0,0.0,6.82500682501e-05,0.0  
total 2.0,6.0,0.0001365001365,0.000312776937914  
attendees 2.0,0.0,0.0001365001365,0.0  
rhine 0.0,1.0,0.0,5.21294896523e-05  
for 170.0,204.0,0.0116025116025,0.0106344158891  
bottom 0.0,2.0,0.0,0.000104258979305  
priicce 0.0,1.0,0.0,5.21294896523e-05  
notification 1.0,0.0,6.82500682501e-05,0.0  
ica 0.0,1.0,0.0,5.21294896523e-05  
normal 0.0,8.0,0.0,0.000417035917218  
loads 0.0,1.0,0.0,5.21294896523e-05  
eincomplete 0.0,1.0,0.0,5.21294896523e-05  
comments 0.0,13.0,0.0,0.00067768336548  
everything 4.0,4.0,0.000273000273,0.000208517958609  
squeeze 1.0,0.0,6.82500682501e-05,0.0  
asking 5.0,5.0,0.00034125034125,0.000260647448261  
colloquy 0.0,1.0,0.0,5.21294896523e-05  
allocate 1.0,0.0,6.82500682501e-05,0.0  
denied 1.0,0.0,6.82500682501e-05,0.0  
420 0.0,1.0,0.0,5.21294896523e-05  
423 0.0,2.0,0.0,0.000104258979305  
422 0.0,4.0,0.0,0.000208517958609  
christmas 20.0,0.0,0.001365001365,0.0  
participation 1.0,0.0,6.82500682501e-05,0.0  
core 0.0,1.0,0.0,5.21294896523e-05  
precluded 1.0,0.0,6.82500682501e-05,0.0  
bold 0.0,2.0,0.0,0.000104258979305  
novelties 0.0,1.0,0.0,5.21294896523e-05  
subscriptions 0.0,1.0,0.0,5.21294896523e-05  
marketing 6.0,22.0,0.0004095004095,0.00114684877235  
cochilco 0.0,1.0,0.0,5.21294896523e-05  
of 230.0,336.0,0.0156975156975,0.0175155085232  
illustration 0.0,1.0,0.0,5.21294896523e-05  
constructive 1.0,0.0,6.82500682501e-05,0.0  
discount 0.0,1.0,0.0,5.21294896523e-05  
issler 5.0,0.0,0.00034125034125,0.0  
swings 0.0,1.0,0.0,5.21294896523e-05

corp 29.0,2.0,0.00197925197925,0.000104258979305  
paid 3.0,2.0,0.00020475020475,0.000104258979305  
upward 0.0,1.0,0.0,5.21294896523e-05  
losing 0.0,2.0,0.0,0.000104258979305  
freese 1.0,0.0,6.82500682501e-05,0.0  
post 0.0,9.0,0.0,0.0,0.000469165406871  
descendent 0.0,1.0,0.0,5.21294896523e-05  
super 0.0,5.0,0.0,0.000260647448261  
security 1.0,9.0,6.82500682501e-05,0.000469165406871  
repling 1.0,0.0,6.82500682501e-05,0.0  
marketers 0.0,1.0,0.0,5.21294896523e-05  
transalta 1.0,0.0,6.82500682501e-05,0.0  
928976257 1.0,0.0,6.82500682501e-05,0.0  
banked 0.0,1.0,0.0,5.21294896523e-05  
hard 4.0,6.0,0.000273000273,0.000312776937914  
transmission 12.0,0.0,0.000819000819001,0.0  
th 12.0,2.0,0.000819000819001,0.000104258979305  
coral 3.0,1.0,0.00020475020475,5.21294896523e-05  
citizens 0.0,2.0,0.0,0.000104258979305  
accepts 1.0,0.0,6.82500682501e-05,0.0  
o 1.0,5.0,6.82500682501e-05,0.000260647448261  
dinner 2.0,0.0,0.0001365001365,0.0  
ensure 1.0,2.0,6.82500682501e-05,0.000104258979305  
banker 3.0,0.0,0.00020475020475,0.0  
steadily 0.0,1.0,0.0,5.21294896523e-05  
own 1.0,14.0,6.82500682501e-05,0.000729812855132  
eight 0.0,2.0,0.0,0.000104258979305  
disqualified 0.0,1.0,0.0,5.21294896523e-05  
kyle 1.0,0.0,6.82500682501e-05,0.0  
slightly 1.0,0.0,6.82500682501e-05,0.0  
252050406 1.0,0.0,6.82500682501e-05,0.0  
automatically 1.0,6.0,6.82500682501e-05,0.000312776937914  
evelon 0.0,1.0,0.0,5.21294896523e-05  
duke 4.0,0.0,0.000273000273,0.0  
raised 0.0,2.0,0.0,0.000104258979305  
destination 0.0,2.0,0.0,0.000104258979305  
managers 1.0,0.0,6.82500682501e-05,0.0  
martensite 0.0,1.0,0.0,5.21294896523e-05  
facility 1.0,0.0,6.82500682501e-05,0.0  
samer 5.0,0.0,0.00034125034125,0.0

pushes 0.0,1.0,0.0,5.21294896523e-05  
splitting 0.0,1.0,0.0,5.21294896523e-05  
bound 0.0,2.0,0.0,0.000104258979305  
bonnard 1.0,0.0,6.82500682501e-05,0.0  
down 1.0,10.0,6.82500682501e-05,0.000521294896523  
anheuser 0.0,1.0,0.0,5.21294896523e-05  
sos 1.0,0.0,6.82500682501e-05,0.0  
right 2.0,15.0,0.0001365001365,0.000781942344784  
raises 0.0,2.0,0.0,0.000104258979305  
doctrine 4.0,0.0,0.000273000273,0.0  
amsterdam 0.0,1.0,0.0,5.21294896523e-05  
frightened 0.0,1.0,0.0,5.21294896523e-05  
often 0.0,9.0,0.0,0.000469165406871  
giv 0.0,1.0,0.0,5.21294896523e-05  
4748 1.0,0.0,6.82500682501e-05,0.0  
gis 2.0,0.0,0.0001365001365,0.0  
deal 12.0,3.0,0.000819000819001,0.000156388468957  
whooping 0.0,1.0,0.0,5.21294896523e-05  
sally 34.0,0.0,0.0023205023205,0.0  
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fork 0.0,2.0,0.0,0.000104258979305  
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toward 0.0,1.0,0.0,5.21294896523e-05

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nd 2.0,2.0,0.0001365001365,0.000104258979305  
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others 3.0,1.0,0.00020475020475,5.21294896523e-05  
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monies 0.0,1.0,0.0,5.21294896523e-05  
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benson 0.0,1.0,0.0,5.21294896523e-05  
box 0.0,20.0,0.0,0.00104258979305  
buck 1.0,0.0,6.82500682501e-05,0.0  
hurtling 0.0,1.0,0.0,5.21294896523e-05  
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canadian 1.0,0.0,6.82500682501e-05,0.0

tracks 0.0,2.0,0.0,0.000104258979305  
impacted 1.0,0.0,6.82500682501e-05,0.0  
title 1.0,3.0,6.82500682501e-05,0.000156388468957  
funded 1.0,0.0,6.82500682501e-05,0.0  
strangulate 0.0,1.0,0.0,5.21294896523e-05  
roared 0.0,1.0,0.0,5.21294896523e-05  
mx 0.0,6.0,0.0,0.000312776937914  
prevatt 4.0,0.0,0.000273000273,0.0  
trial 0.0,3.0,0.0,0.000156388468957  
women 0.0,3.0,0.0,0.000156388468957  
hone 0.0,1.0,0.0,5.21294896523e-05  
absenteeism 0.0,1.0,0.0,5.21294896523e-05  
lamps 0.0,1.0,0.0,5.21294896523e-05  
bob 7.0,0.0,0.00047775047775,0.0  
male 0.0,3.0,0.0,0.000156388468957  
ok 0.0,4.0,0.0,0.000208517958609  
431 1.0,0.0,6.82500682501e-05,0.0  
winner 0.0,3.0,0.0,0.000156388468957  
love 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
lasts 0.0,1.0,0.0,5.21294896523e-05  
extra 4.0,3.0,0.000273000273,0.000156388468957  
pentium 0.0,1.0,0.0,5.21294896523e-05  
merely 1.0,0.0,6.82500682501e-05,0.0  
sincerely 1.0,3.0,6.82500682501e-05,0.000156388468957  
ipp 2.0,0.0,0.0001365001365,0.0  
jose 1.0,0.0,6.82500682501e-05,0.0  
prompt 0.0,1.0,0.0,5.21294896523e-05  
operational 6.0,0.0,0.0004095004095,0.0  
mobil 0.0,1.0,0.0,5.21294896523e-05  
pitchers 0.0,1.0,0.0,5.21294896523e-05  
market 9.0,3.0,0.000614250614251,0.000156388468957  
mscf 1.0,0.0,6.82500682501e-05,0.0  
yourself 0.0,11.0,0.0,0.000573424386175  
vastar 8.0,0.0,0.000546000546001,0.0  
handled 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
working 5.0,5.0,0.00034125034125,0.000260647448261  
generalizing 0.0,1.0,0.0,5.21294896523e-05  
angry 1.0,0.0,6.82500682501e-05,0.0  
mst 0.0,1.0,0.0,5.21294896523e-05  
visit 4.0,26.0,0.000273000273,0.00135536673096

epsc 1.0,0.0,6.82500682501e-05,0.0  
intense 1.0,0.0,6.82500682501e-05,0.0  
parties 0.0,4.0,0.0,0.000208517958609  
insider 0.0,2.0,0.0,0.000104258979305  
live 1.0,0.0,6.82500682501e-05,0.0  
going 15.0,12.0,0.00102375102375,0.000625553875828  
96006681 1.0,0.0,6.82500682501e-05,0.0  
remind 0.0,2.0,0.0,0.000104258979305  
stearns 2.0,0.0,0.0001365001365,0.0  
memory 0.0,3.0,0.0,0.000156388468957  
sylg 0.0,1.0,0.0,5.21294896523e-05  
scope 2.0,0.0,0.0001365001365,0.0  
australian 0.0,3.0,0.0,0.000156388468957  
angels 0.0,2.0,0.0,0.000104258979305  
today 9.0,25.0,0.000614250614251,0.00130323724131  
unwarranted 0.0,1.0,0.0,5.21294896523e-05  
introducing 0.0,1.0,0.0,5.21294896523e-05  
son 0.0,10.0,0.0,0.000521294896523  
sharing 2.0,1.0,0.0001365001365,5.21294896523e-05  
said 1.0,2.0,6.82500682501e-05,0.000104258979305  
conductor 0.0,1.0,0.0,5.21294896523e-05  
sessions 2.0,0.0,0.0001365001365,0.0  
club 0.0,1.0,0.0,5.21294896523e-05  
share 3.0,5.0,0.00020475020475,0.000260647448261  
acceptable 0.0,1.0,0.0,5.21294896523e-05  
curriculum 5.0,0.0,0.00034125034125,0.0  
nguyen 3.0,0.0,0.00020475020475,0.0  
fuel 0.0,1.0,0.0,5.21294896523e-05  
visual 0.0,1.0,0.0,5.21294896523e-05  
drown 0.0,1.0,0.0,5.21294896523e-05  
beers 1.0,0.0,6.82500682501e-05,0.0  
observations 2.0,0.0,0.0001365001365,0.0  
riding 0.0,1.0,0.0,5.21294896523e-05  
cases 0.0,2.0,0.0,0.000104258979305  
isalso 0.0,1.0,0.0,5.21294896523e-05  
effort 6.0,0.0,0.0004095004095,0.0  
advs 0.0,1.0,0.0,5.21294896523e-05  
sleep 0.0,2.0,0.0,0.000104258979305  
schaffer 1.0,0.0,6.82500682501e-05,0.0  
mclarney 2.0,0.0,0.0001365001365,0.0

car 0.0,6.0,0.0,0.000312776937914  
originally 1.0,0.0,6.82500682501e-05,0.0  
reflux 0.0,1.0,0.0,5.21294896523e-05  
trevino 4.0,0.0,0.000273000273,0.0  
ult 0.0,2.0,0.0,0.000104258979305  
believes 1.0,0.0,6.82500682501e-05,0.0  
reviews 2.0,4.0,0.0001365001365,0.000208517958609  
regions 5.0,1.0,0.00034125034125,5.21294896523e-05  
can 33.0,57.0,0.00225225225225,0.00297138091018  
quote 0.0,1.0,0.0,5.21294896523e-05  
cal 1.0,2.0,6.82500682501e-05,0.000104258979305  
believed 2.0,0.0,0.0001365001365,0.0  
making 4.0,13.0,0.000273000273,0.00067768336548  
metal 0.0,1.0,0.0,5.21294896523e-05  
interstate 1.0,0.0,6.82500682501e-05,0.0  
csikos 1.0,0.0,6.82500682501e-05,0.0  
samarium 0.0,1.0,0.0,5.21294896523e-05  
claim 0.0,3.0,0.0,0.000156388468957  
crazy 0.0,1.0,0.0,5.21294896523e-05  
months 5.0,5.0,0.00034125034125,0.000260647448261  
strides 2.0,0.0,0.0001365001365,0.0  
figure 1.0,0.0,6.82500682501e-05,0.0  
spp 1.0,0.0,6.82500682501e-05,0.0  
december 3.0,16.0,0.00020475020475,0.000834071834437  
awesome 1.0,0.0,6.82500682501e-05,0.0  
newsletters 0.0,4.0,0.0,0.000208517958609  
carroll 6.0,0.0,0.0004095004095,0.0  
agent 0.0,3.0,0.0,0.000156388468957  
sample 0.0,6.0,0.0,0.000312776937914  
heard 0.0,2.0,0.0,0.000104258979305  
kainantu 0.0,2.0,0.0,0.000104258979305  
prager 1.0,0.0,6.82500682501e-05,0.0  
234 0.0,1.0,0.0,5.21294896523e-05  
bgmlm 0.0,1.0,0.0,5.21294896523e-05  
dennis 1.0,2.0,6.82500682501e-05,0.000104258979305  
230 0.0,1.0,0.0,5.21294896523e-05  
occur 0.0,1.0,0.0,5.21294896523e-05  
quark 0.0,1.0,0.0,5.21294896523e-05  
subconsciously 0.0,1.0,0.0,5.21294896523e-05  
adobee 0.0,1.0,0.0,5.21294896523e-05

agendas 1.0,0.0,6.82500682501e-05,0.0  
fortunately 0.0,2.0,0.0,0.000104258979305  
discussion 8.0,0.0,0.000546000546001,0.0  
charset 0.0,11.0,0.0,0.000573424386175  
jason 5.0,0.0,0.00034125034125,0.0  
antoine 1.0,0.0,6.82500682501e-05,0.0  
1 26.0,86.0,0.0017745017745,0.0044831361101  
till 1.0,0.0,6.82500682501e-05,0.0  
25711 0.0,2.0,0.0,0.000104258979305  
mmce 1.0,0.0,6.82500682501e-05,0.0  
plus 1.0,3.0,6.82500682501e-05,0.000156388468957  
coleman 1.0,0.0,6.82500682501e-05,0.0  
guarantee 0.0,5.0,0.0,0.000260647448261  
illness 0.0,1.0,0.0,5.21294896523e-05  
afternoon 3.0,1.0,0.00020475020475,5.21294896523e-05  
inputs 1.0,0.0,6.82500682501e-05,0.0  
product 3.0,33.0,0.00020475020475,0.00172027315853  
iteam 0.0,1.0,0.0,5.21294896523e-05  
explorer 0.0,3.0,0.0,0.000156388468957  
zxs 0.0,1.0,0.0,5.21294896523e-05  
huge 0.0,2.0,0.0,0.000104258979305  
may 11.0,16.0,0.000750750750751,0.000834071834437  
overall 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
wonderful 1.0,0.0,6.82500682501e-05,0.0  
aol 2.0,4.0,0.0001365001365,0.000208517958609  
eighty 0.0,1.0,0.0,5.21294896523e-05  
respective 2.0,0.0,0.0001365001365,0.0  
149 1.0,0.0,6.82500682501e-05,0.0  
sustainability 0.0,1.0,0.0,5.21294896523e-05  
membership 0.0,19.0,0.0,0.000990460303394  
produce 0.0,2.0,0.0,0.000104258979305  
scratch 0.0,1.0,0.0,5.21294896523e-05  
4500 2.0,0.0,0.0001365001365,0.0  
restate 0.0,1.0,0.0,5.21294896523e-05  
date 4.0,1.0,0.000273000273,5.21294896523e-05  
such 3.0,6.0,0.00020475020475,0.000312776937914  
truly 0.0,1.0,0.0,5.21294896523e-05  
guys 3.0,0.0,0.00020475020475,0.0  
efforts 2.0,0.0,0.0001365001365,0.0  
unbelievably 0.0,1.0,0.0,5.21294896523e-05

man 1.0,4.0,6.82500682501e-05,0.000208517958609  
stress 0.0,5.0,0.0,0.000260647448261  
surfing 0.0,1.0,0.0,5.21294896523e-05  
natural 6.0,1.0,0.0004095004095,5.21294896523e-05  
neck 0.0,1.0,0.0,5.21294896523e-05  
commodity 7.0,1.0,0.00047775047775,5.21294896523e-05  
vanadium 0.0,1.0,0.0,5.21294896523e-05  
ss 0.0,1.0,0.0,5.21294896523e-05  
maybe 2.0,2.0,0.0001365001365,0.000104258979305  
sp 0.0,1.0,0.0,5.21294896523e-05  
2086 1.0,0.0,6.82500682501e-05,0.0  
ghz 0.0,1.0,0.0,5.21294896523e-05  
st 2.0,1.0,0.0001365001365,5.21294896523e-05  
q 2.0,3.0,0.0001365001365,0.000156388468957  
explaing 2.0,0.0,0.0001365001365,0.0  
accelerated 0.0,1.0,0.0,5.21294896523e-05  
so 24.0,36.0,0.001638001638,0.00187666162748  
deposit 0.0,4.0,0.0,0.000208517958609  
imminent 1.0,0.0,6.82500682501e-05,0.0  
sc 0.0,5.0,0.0,0.000260647448261  
124 0.0,3.0,0.0,0.000156388468957  
sa 4.0,16.0,0.000273000273,0.000834071834437  
pulled 1.0,0.0,6.82500682501e-05,0.0  
travel 1.0,2.0,6.82500682501e-05,0.000104258979305  
talk 3.0,4.0,0.00020475020475,0.000208517958609  
125 0.0,2.0,0.0,0.000104258979305  
exclusive 0.0,1.0,0.0,5.21294896523e-05  
timotheus 0.0,1.0,0.0,5.21294896523e-05  
lsc 0.0,1.0,0.0,5.21294896523e-05  
globe 3.0,0.0,0.00020475020475,0.0  
whether 1.0,3.0,6.82500682501e-05,0.000156388468957  
webpage 0.0,4.0,0.0,0.000208517958609  
exchanges 1.0,0.0,6.82500682501e-05,0.0  
displayed 0.0,1.0,0.0,5.21294896523e-05  
canary 0.0,1.0,0.0,5.21294896523e-05  
entity 3.0,0.0,0.00020475020475,0.0  
stability 0.0,3.0,0.0,0.000156388468957  
course 0.0,11.0,0.0,0.000573424386175  
lst 2.0,0.0,0.0001365001365,0.0  
jimmy 0.0,2.0,0.0,0.000104258979305

tablets 0.0,1.0,0.0,5.21294896523e-05  
engageenergy 1.0,0.0,6.82500682501e-05,0.0  
cuts 1.0,0.0,6.82500682501e-05,0.0  
statements 1.0,0.0,6.82500682501e-05,0.0  
cold 0.0,2.0,0.0,0.000104258979305  
still 8.0,4.0,0.000546000546001,0.000208517958609  
weissman 5.0,0.0,0.00034125034125,0.0  
blocked 0.0,2.0,0.0,0.000104258979305  
ethic 1.0,0.0,6.82500682501e-05,0.0  
glut 0.0,1.0,0.0,5.21294896523e-05  
group 19.0,3.0,0.00129675129675,0.000156388468957  
monitor 0.0,1.0,0.0,5.21294896523e-05  
tele 0.0,1.0,0.0,5.21294896523e-05  
apex 0.0,1.0,0.0,5.21294896523e-05  
interesting 0.0,3.0,0.0,0.000156388468957  
organisation 0.0,1.0,0.0,5.21294896523e-05  
inferior 0.0,1.0,0.0,5.21294896523e-05  
proposed 2.0,1.0,0.0001365001365,5.21294896523e-05  
stupidity 0.0,1.0,0.0,5.21294896523e-05  
decreases 1.0,0.0,6.82500682501e-05,0.0  
superman 0.0,1.0,0.0,5.21294896523e-05  
forms 0.0,1.0,0.0,5.21294896523e-05  
platform 0.0,2.0,0.0,0.000104258979305  
coaching 1.0,0.0,6.82500682501e-05,0.0  
hou 206.0,0.0,0.0140595140595,0.0  
suspicion 0.0,1.0,0.0,5.21294896523e-05  
unblocking 0.0,4.0,0.0,0.000208517958609  
2152 1.0,0.0,6.82500682501e-05,0.0  
farmer 19.0,0.0,0.00129675129675,0.0  
policy 0.0,6.0,0.0,0.000312776937914  
932 0.0,2.0,0.0,0.000104258979305  
endless 0.0,1.0,0.0,5.21294896523e-05  
into 12.0,24.0,0.000819000819001,0.00125110775166  
texas 1.0,0.0,6.82500682501e-05,0.0  
emigrants 0.0,1.0,0.0,5.21294896523e-05  
correspondence 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
nom 8.0,0.0,0.000546000546001,0.0  
non 1.0,4.0,6.82500682501e-05,0.000208517958609  
finance 4.0,0.0,0.000273000273,0.0  
disparate 1.0,0.0,6.82500682501e-05,0.0

matches 0.0,4.0,0.0,0.000208517958609  
conversations 1.0,0.0,6.82500682501e-05,0.0  
origination 1.0,0.0,6.82500682501e-05,0.0  
aeopublishing 0.0,29.0,0.0,0.00151175519992  
insomnia 0.0,1.0,0.0,5.21294896523e-05  
processes 2.0,0.0,0.0001365001365,0.0  
introduce 0.0,1.0,0.0,5.21294896523e-05  
nation 0.0,1.0,0.0,5.21294896523e-05  
underneath 0.0,1.0,0.0,5.21294896523e-05  
lunch 2.0,0.0,0.0001365001365,0.0  
transmissions 1.0,0.0,6.82500682501e-05,0.0  
qualified 0.0,1.0,0.0,5.21294896523e-05  
nox 0.0,2.0,0.0,0.000104258979305  
1953 0.0,1.0,0.0,5.21294896523e-05  
half 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
dollars 1.0,6.0,6.82500682501e-05,0.000312776937914  
feature 0.0,1.0,0.0,5.21294896523e-05  
nov 5.0,0.0,0.00034125034125,0.0  
bjeffrie 1.0,0.0,6.82500682501e-05,0.0  
discuss 4.0,2.0,0.000273000273,0.000104258979305  
barrow 1.0,0.0,6.82500682501e-05,0.0  
martinez 1.0,0.0,6.82500682501e-05,0.0  
execute 1.0,0.0,6.82500682501e-05,0.0  
lindiwe 0.0,2.0,0.0,0.000104258979305  
name 7.0,15.0,0.00047775047775,0.000781942344784  
respectable 0.0,1.0,0.0,5.21294896523e-05  
january 2.0,0.0,0.0001365001365,0.0  
directories 0.0,2.0,0.0,0.000104258979305  
didn 1.0,3.0,6.82500682501e-05,0.000156388468957  
possibilities 0.0,1.0,0.0,5.21294896523e-05  
dycmpf 0.0,1.0,0.0,5.21294896523e-05  
h 2.0,5.0,0.0001365001365,0.000260647448261  
howl 0.0,1.0,0.0,5.21294896523e-05  
entirely 0.0,2.0,0.0,0.000104258979305  
quarter 0.0,1.0,0.0,5.21294896523e-05  
kerb 0.0,1.0,0.0,5.21294896523e-05  
el 2.0,0.0,0.0001365001365,0.0  
domain 2.0,3.0,0.0001365001365,0.000156388468957  
en 0.0,3.0,0.0,0.000156388468957  
eh 1.0,0.0,6.82500682501e-05,0.0

latin 1.0,0.0,6.82500682501e-05,0.0  
fooxr 0.0,1.0,0.0,5.21294896523e-05  
ee 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
ed 1.0,0.0,6.82500682501e-05,0.0  
receipt 3.0,3.0,0.00020475020475,0.000156388468957  
directing 1.0,0.0,6.82500682501e-05,0.0  
prove 0.0,2.0,0.0,0.000104258979305  
eb 16.0,0.0,0.001092001092,0.0  
breakthrough 1.0,0.0,6.82500682501e-05,0.0  
replay 2.0,0.0,0.0001365001365,0.0  
phentermine 0.0,3.0,0.0,0.000156388468957  
sponsor 0.0,4.0,0.0,0.000208517958609  
entering 0.0,2.0,0.0,0.000104258979305  
authenticity 0.0,1.0,0.0,5.21294896523e-05  
girl 0.0,4.0,0.0,0.000208517958609  
avoided 1.0,0.0,6.82500682501e-05,0.0  
medication 0.0,1.0,0.0,5.21294896523e-05  
adequately 0.0,1.0,0.0,5.21294896523e-05  
3300 0.0,1.0,0.0,5.21294896523e-05  
er 0.0,2.0,0.0,0.000104258979305  
canada 4.0,0.0,0.000273000273,0.0  
living 0.0,3.0,0.0,0.000156388468957  
shown 0.0,2.0,0.0,0.000104258979305  
medications 0.0,1.0,0.0,5.21294896523e-05  
793 1.0,0.0,6.82500682501e-05,0.0  
9381 0.0,1.0,0.0,5.21294896523e-05  
space 0.0,7.0,0.0,0.000364906427566  
profit 0.0,6.0,0.0,0.000312776937914  
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fainted 0.0,1.0,0.0,5.21294896523e-05  
across 5.0,5.0,0.00034125034125,0.000260647448261  
naked 0.0,1.0,0.0,5.21294896523e-05  
experience 15.0,2.0,0.00102375102375,0.000104258979305  
paper 3.0,0.0,0.00020475020475,0.0  
source 4.0,1.0,0.000273000273,5.21294896523e-05  
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keyes 0.0,1.0,0.0,5.21294896523e-05  
through 4.0,14.0,0.000273000273,0.000729812855132  
finishing 0.0,1.0,0.0,5.21294896523e-05  
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where 4.0,9.0,0.000273000273,0.000469165406871  
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us 9.0,41.0,0.000614250614251,0.00213730907574  
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un 0.0,1.0,0.0,5.21294896523e-05  
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agoj 0.0,1.0,0.0,5.21294896523e-05  
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perth 0.0,1.0,0.0,5.21294896523e-05  
4 10.0,25.0,0.000682500682501,0.00130323724131  
preferences 0.0,2.0,0.0,0.000104258979305  
thoughts 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
struck 1.0,1.0,6.82500682501e-05,5.21294896523e-05

tuesday 4.0,0.0,0.000273000273,0.0  
ross 4.0,0.0,0.000273000273,0.0  
ami 1.0,0.0,6.82500682501e-05,0.0  
around 4.0,2.0,0.000273000273,0.000104258979305  
easily 0.0,4.0,0.0,0.000208517958609  
comhttp 0.0,1.0,0.0,5.21294896523e-05  
options 2.0,0.0,0.0001365001365,0.0  
assemblyman 3.0,0.0,0.00020475020475,0.0  
discontinue 0.0,2.0,0.0,0.000104258979305  
unnecessary 0.0,1.0,0.0,5.21294896523e-05  
amy 0.0,2.0,0.0,0.000104258979305  
than 17.0,15.0,0.00116025116025,0.000781942344784  
kindall 4.0,0.0,0.000273000273,0.0  
detract 0.0,1.0,0.0,5.21294896523e-05  
dubhe 0.0,1.0,0.0,5.21294896523e-05  
accepted 0.0,1.0,0.0,5.21294896523e-05  
disappointed 0.0,1.0,0.0,5.21294896523e-05  
hornbuckle 1.0,0.0,6.82500682501e-05,0.0  
pst 1.0,0.0,6.82500682501e-05,0.0  
orleantraders 0.0,1.0,0.0,5.21294896523e-05  
stage 0.0,2.0,0.0,0.000104258979305  
macarthur 0.0,1.0,0.0,5.21294896523e-05  
adams 0.0,1.0,0.0,5.21294896523e-05  
christine 1.0,0.0,6.82500682501e-05,0.0  
pounds 0.0,1.0,0.0,5.21294896523e-05  
nt 0.0,1.0,0.0,5.21294896523e-05  
reduces 0.0,2.0,0.0,0.000104258979305  
piece 0.0,1.0,0.0,5.21294896523e-05  
6396 1.0,0.0,6.82500682501e-05,0.0  
roll 0.0,1.0,0.0,5.21294896523e-05  
discarded 0.0,3.0,0.0,0.000156388468957  
benefit 2.0,8.0,0.0001365001365,0.000417035917218  
hcokyovrdsprayz 0.0,1.0,0.0,5.21294896523e-05  
apologize 2.0,0.0,0.0001365001365,0.0  
webmaster 0.0,1.0,0.0,5.21294896523e-05  
fully 0.0,3.0,0.0,0.000156388468957  
served 0.0,1.0,0.0,5.21294896523e-05  
dirtier 1.0,0.0,6.82500682501e-05,0.0  
reduced 0.0,1.0,0.0,5.21294896523e-05  
undercollected 1.0,0.0,6.82500682501e-05,0.0

dictating 0.0,1.0,0.0,5.21294896523e-05  
learning 2.0,1.0,0.0001365001365,5.21294896523e-05  
picture 0.0,4.0,0.0,0.000208517958609  
backgrounds 0.0,1.0,0.0,5.21294896523e-05  
moving 4.0,1.0,0.000273000273,5.21294896523e-05  
competition 0.0,2.0,0.0,0.000104258979305  
l 10.0,2.0,0.000682500682501,0.000104258979305  
ante 0.0,1.0,0.0,5.21294896523e-05  
manufacturers 0.0,1.0,0.0,5.21294896523e-05  
lobster 0.0,1.0,0.0,5.21294896523e-05  
sherlyn 3.0,0.0,0.00020475020475,0.0  
table 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
sen 1.0,0.0,6.82500682501e-05,0.0  
intend 2.0,1.0,0.0001365001365,5.21294896523e-05  
joao 2.0,0.0,0.0001365001365,0.0  
mustard 0.0,1.0,0.0,5.21294896523e-05  
capability 2.0,1.0,0.0001365001365,5.21294896523e-05  
regina 0.0,6.0,0.0,0.000312776937914  
mood 0.0,1.0,0.0,5.21294896523e-05  
adrianbold 0.0,2.0,0.0,0.000104258979305  
chromium 0.0,1.0,0.0,5.21294896523e-05  
noon 1.0,0.0,6.82500682501e-05,0.0  
lend 0.0,2.0,0.0,0.000104258979305  
recorded 0.0,1.0,0.0,5.21294896523e-05  
myinputare 0.0,1.0,0.0,5.21294896523e-05  
legal 1.0,2.0,6.82500682501e-05,0.000104258979305  
earning 0.0,1.0,0.0,5.21294896523e-05  
whitehorse 0.0,1.0,0.0,5.21294896523e-05  
voice 4.0,2.0,0.000273000273,0.000104258979305  
critical 10.0,0.0,0.000682500682501,0.0  
inject 0.0,1.0,0.0,5.21294896523e-05  
provides 0.0,2.0,0.0,0.000104258979305  
provider 0.0,3.0,0.0,0.000156388468957  
moderate 2.0,0.0,0.0001365001365,0.0  
willie 1.0,0.0,6.82500682501e-05,0.0  
quitting 0.0,1.0,0.0,5.21294896523e-05  
refer 0.0,2.0,0.0,0.000104258979305  
measuring 3.0,0.0,0.00020475020475,0.0  
mailto 0.0,11.0,0.0,0.000573424386175  
process 7.0,6.0,0.00047775047775,0.000312776937914

welcome 2.0,0.0,0.0001365001365,0.0  
assembly 2.0,0.0,0.0001365001365,0.0  
scientific 0.0,1.0,0.0,5.21294896523e-05  
business 23.0,41.0,0.00156975156975,0.00213730907574  
asap 1.0,0.0,6.82500682501e-05,0.0  
retains 3.0,0.0,0.00020475020475,0.0  
whose 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
flyers 0.0,1.0,0.0,5.21294896523e-05  
communicate 2.0,0.0,0.0001365001365,0.0  
broker 0.0,3.0,0.0,0.000156388468957  
pts 1.0,0.0,6.82500682501e-05,0.0  
utilities 22.0,0.0,0.0015015015015,0.0  
1933 1.0,0.0,6.82500682501e-05,0.0  
1932 1.0,0.0,6.82500682501e-05,0.0  
1930 1.0,0.0,6.82500682501e-05,0.0  
great 8.0,12.0,0.000546000546001,0.000625553875828  
1936 1.0,0.0,6.82500682501e-05,0.0  
3267 0.0,1.0,0.0,5.21294896523e-05  
1934 1.0,0.0,6.82500682501e-05,0.0  
1938 1.0,0.0,6.82500682501e-05,0.0  
throw 0.0,1.0,0.0,5.21294896523e-05  
earlier 2.0,2.0,0.0001365001365,0.000104258979305  
brighton 0.0,1.0,0.0,5.21294896523e-05  
847 1.0,0.0,6.82500682501e-05,0.0  
aphrodite 0.0,1.0,0.0,5.21294896523e-05  
wfxu 0.0,1.0,0.0,5.21294896523e-05  
central 3.0,0.0,0.00020475020475,0.0  
840 1.0,0.0,6.82500682501e-05,0.0  
interfering 0.0,1.0,0.0,5.21294896523e-05  
industry 1.0,8.0,6.82500682501e-05,0.000417035917218  
howard 14.0,0.0,0.000955500955501,0.0  
discussed 2.0,0.0,0.0001365001365,0.0  
powered 0.0,3.0,0.0,0.000156388468957  
newsboy 0.0,2.0,0.0,0.000104258979305  
ports 0.0,1.0,0.0,5.21294896523e-05  
srs 1.0,0.0,6.82500682501e-05,0.0  
journey 0.0,1.0,0.0,5.21294896523e-05  
carlos 5.0,0.0,0.00034125034125,0.0  
knavе 0.0,3.0,0.0,0.000156388468957  
act 2.0,5.0,0.0001365001365,0.000260647448261

getterscan 0.0,1.0,0.0,5.21294896523e-05  
johnston 2.0,0.0,0.0001365001365,0.0  
gregory 0.0,1.0,0.0,5.21294896523e-05  
luck 2.0,0.0,0.0001365001365,0.0  
backup 2.0,0.0,0.0001365001365,0.0  
or 49.0,117.0,0.00334425334425,0.00609915028932  
metaphors 0.0,1.0,0.0,5.21294896523e-05  
op 0.0,4.0,0.0,0.000208517958609  
prostaff 1.0,0.0,6.82500682501e-05,0.0  
obligat 0.0,1.0,0.0,5.21294896523e-05  
outlook 2.0,1.0,0.0001365001365,5.21294896523e-05  
locally 0.0,2.0,0.0,0.000104258979305  
lycopodium 0.0,1.0,0.0,5.21294896523e-05  
burning 0.0,2.0,0.0,0.000104258979305  
communication 6.0,3.0,0.0004095004095,0.000156388468957  
image 0.0,9.0,0.0,0.000469165406871  
sql 0.0,1.0,0.0,5.21294896523e-05  
souza 1.0,0.0,6.82500682501e-05,0.0  
blessed 0.0,2.0,0.0,0.000104258979305  
replace 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
fuohqjlsjcqp 0.0,1.0,0.0,5.21294896523e-05  
hinsch 2.0,0.0,0.0001365001365,0.0  
accounts 0.0,1.0,0.0,5.21294896523e-05  
darren 2.0,0.0,0.0001365001365,0.0  
determine 0.0,1.0,0.0,5.21294896523e-05  
apologize 2.0,1.0,0.0001365001365,5.21294896523e-05  
burton 13.0,0.0,0.000887250887251,0.0  
financial 10.0,2.0,0.000682500682501,0.000104258979305  
valuable 1.0,8.0,6.82500682501e-05,0.000417035917218  
your 38.0,357.0,0.0025935025935,0.0186102278059  
teddy 0.0,3.0,0.0,0.000156388468957  
restless 0.0,1.0,0.0,5.21294896523e-05  
37159 2.0,0.0,0.0001365001365,0.0  
stomaching 0.0,1.0,0.0,5.21294896523e-05  
forwarded 29.0,0.0,0.00197925197925,0.0  
her 10.0,2.0,0.000682500682501,0.000104258979305  
area 1.0,3.0,6.82500682501e-05,0.000156388468957  
aren 0.0,3.0,0.0,0.000156388468957  
removing 0.0,1.0,0.0,5.21294896523e-05  
strictly 1.0,0.0,6.82500682501e-05,0.0

distracted 0.0,1.0,0.0,5.21294896523e-05  
ello 0.0,1.0,0.0,5.21294896523e-05  
disposed 0.0,1.0,0.0,5.21294896523e-05  
deadlines 0.0,1.0,0.0,5.21294896523e-05  
sides 0.0,1.0,0.0,5.21294896523e-05  
start 1.0,8.0,6.82500682501e-05,0.000417035917218  
suzms 0.0,1.0,0.0,5.21294896523e-05  
watched 1.0,0.0,6.82500682501e-05,0.0  
income 0.0,4.0,0.0,0.000208517958609  
lot 6.0,4.0,0.0004095004095,0.000208517958609  
brazilian 4.0,0.0,0.000273000273,0.0  
slowly 0.0,1.0,0.0,5.21294896523e-05  
valley 1.0,2.0,6.82500682501e-05,0.000104258979305  
materials 2.0,0.0,0.0001365001365,0.0  
sotware 0.0,1.0,0.0,5.21294896523e-05  
treat 1.0,0.0,6.82500682501e-05,0.0  
freepicklotto 0.0,2.0,0.0,0.000104258979305  
jones 3.0,0.0,0.00020475020475,0.0  
western 3.0,3.0,0.00020475020475,0.000156388468957  
egep 1.0,0.0,6.82500682501e-05,0.0  
continents 1.0,0.0,6.82500682501e-05,0.0  
terrific 0.0,1.0,0.0,5.21294896523e-05  
stupid 0.0,1.0,0.0,5.21294896523e-05  
regard 6.0,3.0,0.0004095004095,0.000156388468957  
delayed 2.0,0.0,0.0001365001365,0.0  
cabinet 0.0,1.0,0.0,5.21294896523e-05  
curtain 0.0,1.0,0.0,5.21294896523e-05  
stefkatz 1.0,0.0,6.82500682501e-05,0.0  
target 1.0,8.0,6.82500682501e-05,0.000417035917218  
promote 0.0,2.0,0.0,0.000104258979305  
with 85.0,116.0,0.00580125580126,0.00604702079967  
proposal 2.0,7.0,0.0001365001365,0.000364906427566  
buying 1.0,0.0,6.82500682501e-05,0.0  
faster 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
abused 0.0,1.0,0.0,5.21294896523e-05  
pull 4.0,1.0,0.000273000273,5.21294896523e-05  
7168 0.0,1.0,0.0,5.21294896523e-05  
fraud 0.0,1.0,0.0,5.21294896523e-05  
arranged 0.0,1.0,0.0,5.21294896523e-05  
romantic 1.0,0.0,6.82500682501e-05,0.0

proceeds 1.0,0.0,6.82500682501e-05,0.0  
wholesale 14.0,1.0,0.000955500955501,5.21294896523e-05  
riverdeep 0.0,1.0,0.0,5.21294896523e-05  
wrinkle 0.0,1.0,0.0,5.21294896523e-05  
mary 7.0,0.0,0.00047775047775,0.0  
west 2.0,3.0,0.0001365001365,0.000156388468957  
miguel 1.0,0.0,6.82500682501e-05,0.0  
organize 2.0,0.0,0.0001365001365,0.0  
inform 1.0,2.0,6.82500682501e-05,0.000104258979305  
politically 1.0,0.0,0.0,6.82500682501e-05,0.0  
agree 1.0,2.0,6.82500682501e-05,0.000104258979305  
glenda 0.0,1.0,0.0,5.21294896523e-05  
detailed 1.0,3.0,6.82500682501e-05,0.000156388468957  
engine 0.0,3.0,0.0,0.000156388468957  
ab 5.0,0.0,0.00034125034125,0.0  
money 1.0,34.0,6.82500682501e-05,0.00177240264818  
ad 0.0,31.0,0.0,0.00161601417922  
johnny 0.0,2.0,0.0,0.000104258979305  
602 1.0,0.0,6.82500682501e-05,0.0  
exhausted 0.0,1.0,0.0,5.21294896523e-05  
ah 1.0,0.0,6.82500682501e-05,0.0  
hosted 1.0,0.0,6.82500682501e-05,0.0  
am 67.0,19.0,0.00457275457275,0.000990460303394  
al 0.0,2.0,0.0,0.000104258979305  
deep 0.0,1.0,0.0,5.21294896523e-05  
an 30.0,47.0,0.0020475020475,0.00245008601366  
examining 0.0,1.0,0.0,5.21294896523e-05  
as 69.0,69.0,0.00470925470925,0.00359693478601  
bawled 0.0,1.0,0.0,5.21294896523e-05  
at 63.0,83.0,0.00429975429975,0.00432674764114  
file 4.0,2.0,0.000273000273,0.000104258979305  
ay 0.0,1.0,0.0,5.21294896523e-05  
ax 0.0,2.0,0.0,0.000104258979305  
allocating 2.0,0.0,0.0001365001365,0.0  
moves 0.0,1.0,0.0,5.21294896523e-05  
allay 0.0,1.0,0.0,5.21294896523e-05  
fill 0.0,6.0,0.0,0.000312776937914  
again 7.0,5.0,0.00047775047775,0.000260647448261  
onerous 0.0,1.0,0.0,5.21294896523e-05  
cabinets 1.0,0.0,6.82500682501e-05,0.0

coreldraw 0.0,2.0,0.0,0.000104258979305  
want 3.0,33.0,0.00020475020475,0.00172027315853  
idiot 0.0,1.0,0.0,5.21294896523e-05  
credibility 0.0,1.0,0.0,5.21294896523e-05  
premiums 0.0,2.0,0.0,0.000104258979305  
rosel 0.0,2.0,0.0,0.000104258979305  
colliw 1.0,0.0,6.82500682501e-05,0.0  
field 1.0,2.0,6.82500682501e-05,0.000104258979305  
establishthe 0.0,1.0,0.0,5.21294896523e-05  
summit 1.0,0.0,6.82500682501e-05,0.0  
5 16.0,18.0,0.001092001092,0.000938330813741  
netrepreneur 0.0,1.0,0.0,5.21294896523e-05  
announcements 3.0,1.0,0.00020475020475,5.21294896523e-05  
securitization 3.0,0.0,0.00020475020475,0.0  
forcing 1.0,0.0,6.82500682501e-05,0.0  
thousand 0.0,2.0,0.0,0.000104258979305  
immunity 1.0,0.0,6.82500682501e-05,0.0  
igh 0.0,1.0,0.0,5.21294896523e-05  
gaining 1.0,0.0,6.82500682501e-05,0.0  
operation 0.0,2.0,0.0,0.000104258979305  
hey 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
regardless 4.0,0.0,0.000273000273,0.0  
separate 1.0,6.0,6.82500682501e-05,0.000312776937914  
students 0.0,4.0,0.0,0.000208517958609  
eworld 0.0,4.0,0.0,0.000208517958609  
dubuque 0.0,3.0,0.0,0.000156388468957  
includes 0.0,1.0,0.0,5.21294896523e-05  
gifts 2.0,0.0,0.0001365001365,0.0  
herbs 1.0,0.0,6.82500682501e-05,0.0  
vp 1.0,0.0,6.82500682501e-05,0.0  
important 4.0,8.0,0.000273000273,0.000417035917218  
bullets 0.0,1.0,0.0,5.21294896523e-05  
coverage 1.0,2.0,6.82500682501e-05,0.000104258979305  
terry 0.0,1.0,0.0,5.21294896523e-05  
chris 1.0,0.0,6.82500682501e-05,0.0  
funding 1.0,0.0,6.82500682501e-05,0.0  
seventhpower 0.0,4.0,0.0,0.000208517958609  
range 0.0,2.0,0.0,0.000104258979305  
resell 0.0,1.0,0.0,5.21294896523e-05  
towel 0.0,1.0,0.0,5.21294896523e-05

building 3.0,4.0,0.00020475020475,0.000208517958609  
pitifully 0.0,1.0,0.0,5.21294896523e-05  
pagemaker 0.0,2.0,0.0,0.000104258979305  
consternation 0.0,1.0,0.0,5.21294896523e-05  
assets 13.0,1.0,0.000887250887251,5.21294896523e-05  
corel 0.0,4.0,0.0,0.000208517958609  
spend 0.0,8.0,0.0,0.000417035917218  
zimin 5.0,0.0,0.00034125034125,0.0  
invest 0.0,4.0,0.0,0.000208517958609  
why 0.0,11.0,0.0,0.000573424386175  
869279893 1.0,0.0,6.82500682501e-05,0.0  
websites 0.0,2.0,0.0,0.000104258979305  
hello 3.0,3.0,0.00020475020475,0.000156388468957  
refinances 0.0,2.0,0.0,0.000104258979305  
posts 0.0,1.0,0.0,5.21294896523e-05  
windows 0.0,12.0,0.0,0.000625553875828  
corey 0.0,2.0,0.0,0.000104258979305  
mass 1.0,2.0,6.82500682501e-05,0.000104258979305  
profits 0.0,1.0,0.0,5.21294896523e-05  
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783518 0.0,1.0,0.0,5.21294896523e-05  
ceased 0.0,1.0,0.0,5.21294896523e-05  
unblock 0.0,1.0,0.0,5.21294896523e-05  
causey 7.0,0.0,0.00047775047775,0.0  
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krgp 2.0,0.0,0.0001365001365,0.0

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7675213911 0.0,1.0,0.0,5.21294896523e-05
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consummating 0.0,1.0,0.0,5.21294896523e-05
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wisely 0.0,2.0,0.0,0.000104258979305  
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goal 0.0,5.0,0.0,0.000260647448261  
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ft 0.0,2.0,0.0,0.000104258979305  
intended 1.0,0.0,6.82500682501e-05,0.0  
optionscontrol 0.0,1.0,0.0,5.21294896523e-05  
communicating 2.0,0.0,0.0001365001365,0.0  
advice 1.0,3.0,6.82500682501e-05,0.000156388468957  
damorganjr 0.0,1.0,0.0,5.21294896523e-05  
brett 3.0,0.0,0.00020475020475,0.0  
expenditures 1.0,0.0,6.82500682501e-05,0.0  
rudl 0.0,2.0,0.0,0.000104258979305  
reflect 1.0,0.0,6.82500682501e-05,0.0  
minds 0.0,1.0,0.0,5.21294896523e-05  
catalog 0.0,5.0,0.0,0.000260647448261  
disable 0.0,1.0,0.0,5.21294896523e-05  
director 2.0,4.0,0.0001365001365,0.000208517958609  
blood 0.0,1.0,0.0,5.21294896523e-05  
coming 4.0,1.0,0.000273000273,5.21294896523e-05  
fh 2.0,0.0,0.0001365001365,0.0  
capitalize 0.0,2.0,0.0,0.000104258979305  
concerns 3.0,1.0,0.00020475020475,5.21294896523e-05  
a 196.0,347.0,0.013377013377,0.0180889329093  
refuse 0.0,1.0,0.0,5.21294896523e-05  
organization 6.0,0.0,0.0004095004095,0.0  
susan 9.0,0.0,0.000614250614251,0.0  
read 1.0,17.0,6.82500682501e-05,0.000886201324089  
keywordcount 0.0,1.0,0.0,5.21294896523e-05  
doctor 0.0,2.0,0.0,0.000104258979305  
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mislead 0.0,1.0,0.0,5.21294896523e-05  
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wishes 1.0,0.0,6.82500682501e-05,0.0  
ego 2.0,0.0,0.0001365001365,0.0  
fundamental 2.0,0.0,0.0001365001365,0.0  
media 0.0,3.0,0.0,0.000156388468957  
banks 0.0,1.0,0.0,5.21294896523e-05  
pleasure 1.0,0.0,6.82500682501e-05,0.0  
trans 1.0,0.0,6.82500682501e-05,0.0  
geographic 4.0,0.0,0.000273000273,0.0

words 0.0,8.0,0.0,0.000417035917218  
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photoshop 0.0,3.0,0.0,0.000156388468957  
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scott 2.0,0.0,0.0001365001365,0.0  
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27049 2.0,0.0,0.0001365001365,0.0  
uvd 0.0,1.0,0.0,5.21294896523e-05  
its 11.0,16.0,0.000750750750751,0.000834071834437  
fischer 1.0,0.0,6.82500682501e-05,0.0  
24 18.0,9.0,0.0012285012285,0.000469165406871  
25 0.0,7.0,0.0,0.000364906427566  
26 3.0,3.0,0.00020475020475,0.000156388468957  
27 3.0,3.0,0.00020475020475,0.000156388468957  
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29 4.0,7.0,0.000273000273,0.000364906427566  
alli 1.0,0.0,6.82500682501e-05,0.0  
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late 3.0,2.0,0.00020475020475,0.000104258979305

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vaughn 3.0,0.0,0.00020475020475,0.0  
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someone 1.0,10.0,6.82500682501e-05,0.000521294896523
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health 0.0,2.0,0.0,0.000104258979305  
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american 0.0,2.0,0.0,0.000104258979305  
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major 0.0,5.0,0.0,0.000260647448261  
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dont 0.0,1.0,0.0,5.21294896523e-05  
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urgently 0.0,1.0,0.0,5.21294896523e-05  
awaking 0.0,1.0,0.0,5.21294896523e-05  
stil 0.0,2.0,0.0,0.000104258979305  
novak 0.0,1.0,0.0,5.21294896523e-05  
steak 0.0,1.0,0.0,5.21294896523e-05  
blong 1.0,0.0,6.82500682501e-05,0.0  
stalling 0.0,1.0,0.0,5.21294896523e-05  
sentences 0.0,4.0,0.0,0.000208517958609  
dynamics 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
option 0.0,1.0,0.0,5.21294896523e-05  
sell 0.0,8.0,0.0,0.000417035917218  
wilson 2.0,0.0,0.0001365001365,0.0  
bestwaytoshop 0.0,1.0,0.0,5.21294896523e-05  
proliferation 3.0,0.0,0.00020475020475,0.0

dancing 0.0,1.0,0.0,5.21294896523e-05  
trip 2.0,0.0,0.0001365001365,0.0  
essentially 1.0,0.0,0.6.82500682501e-05,0.0  
lin 6.0,0.0,0.0004095004095,0.0  
efs 1.0,0.0,6.82500682501e-05,0.0  
lit 0.0,1.0,0.0,5.21294896523e-05  
also 28.0,28.0,0.001911001911,0.00145962571026  
recognizing 4.0,0.0,0.000273000273,0.0  
appellate 1.0,0.0,6.82500682501e-05,0.0  
build 0.0,12.0,0.0,0.000625553875828  
hgh 0.0,5.0,0.0,0.000260647448261  
favorably 0.0,1.0,0.0,5.21294896523e-05  
ancillary 0.0,2.0,0.0,0.000104258979305  
commentary 0.0,18.0,0.0,0.000938330813741  
preneur 0.0,2.0,0.0,0.000104258979305  
professor 0.0,1.0,0.0,5.21294896523e-05  
norma 1.0,0.0,6.82500682501e-05,0.0  
liz 3.0,0.0,0.00020475020475,0.0  
province 0.0,1.0,0.0,5.21294896523e-05  
competencies 2.0,0.0,0.0001365001365,0.0  
cemented 0.0,1.0,0.0,5.21294896523e-05  
electric 1.0,0.0,6.82500682501e-05,0.0  
lineal 0.0,1.0,0.0,5.21294896523e-05  
yanowski 1.0,0.0,6.82500682501e-05,0.0  
intervened 0.0,2.0,0.0,0.000104258979305  
popular 0.0,2.0,0.0,0.000104258979305  
thronged 0.0,1.0,0.0,5.21294896523e-05  
reach 2.0,5.0,0.0001365001365,0.000260647448261  
chart 1.0,0.0,6.82500682501e-05,0.0  
77 1.0,0.0,6.82500682501e-05,0.0  
76 0.0,1.0,0.0,5.21294896523e-05  
75 1.0,4.0,6.82500682501e-05,0.000208517958609  
experiences 0.0,1.0,0.0,5.21294896523e-05  
plan 17.0,0.0,0.00116025116025,0.0  
71 0.0,1.0,0.0,5.21294896523e-05  
70 0.0,1.0,0.0,5.21294896523e-05  
nothing 2.0,3.0,0.0001365001365,0.000156388468957  
accepting 0.0,2.0,0.0,0.000104258979305  
information 20.0,51.0,0.001365001365,0.00265860397227  
approved 1.0,5.0,6.82500682501e-05,0.000260647448261

strategies 0.0,5.0,0.0,0.000260647448261  
78 0.0,2.0,0.0,0.000104258979305  
davidyi 1.0,0.0,6.82500682501e-05,0.0  
kg 0.0,3.0,0.0,0.000156388468957  
mineral 0.0,2.0,0.0,0.000104258979305  
samuel 1.0,0.0,6.82500682501e-05,0.0  
seize 2.0,0.0,0.0001365001365,0.0  
kk 1.0,0.0,6.82500682501e-05,0.0  
clear 4.0,8.0,0.000273000273,0.000417035917218  
sometimes 0.0,1.0,0.0,5.21294896523e-05  
cover 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
tangible 1.0,0.0,6.82500682501e-05,0.0  
traditional 0.0,2.0,0.0,0.000104258979305  
ext 3.0,0.0,0.00020475020475,0.0  
amazed 0.0,1.0,0.0,5.21294896523e-05  
1687 1.0,0.0,6.82500682501e-05,0.0  
1689 1.0,0.0,6.82500682501e-05,0.0  
valid 0.0,4.0,0.0,0.000208517958609  
institutions 0.0,1.0,0.0,5.21294896523e-05  
joining 4.0,0.0,0.000273000273,0.0  
science 0.0,1.0,0.0,5.21294896523e-05  
despise 0.0,1.0,0.0,5.21294896523e-05  
ugh 0.0,1.0,0.0,5.21294896523e-05  
particularly 2.0,1.0,0.0001365001365,5.21294896523e-05  
rebels 0.0,2.0,0.0,0.000104258979305  
gold 0.0,14.0,0.0,0.000729812855132  
journeys 0.0,1.0,0.0,5.21294896523e-05  
obligations 0.0,2.0,0.0,0.000104258979305  
commissions 0.0,2.0,0.0,0.000104258979305  
rto 1.0,0.0,6.82500682501e-05,0.0  
doctors 0.0,2.0,0.0,0.000104258979305  
systemslogical 0.0,1.0,0.0,5.21294896523e-05  
midwestern 1.0,0.0,6.82500682501e-05,0.0  
booze 0.0,1.0,0.0,5.21294896523e-05  
session 0.0,1.0,0.0,5.21294896523e-05  
businesses 0.0,4.0,0.0,0.000208517958609  
sandton 0.0,2.0,0.0,0.000104258979305  
delphi 0.0,1.0,0.0,5.21294896523e-05  
carefully 0.0,4.0,0.0,0.000208517958609  
bcli 1.0,0.0,6.82500682501e-05,0.0

headlines 0.0,4.0,0.0,0.000208517958609  
font 0.0,3.0,0.0,0.000156388468957  
fine 2.0,0.0,0.0001365001365,0.0  
find 1.0,4.0,6.82500682501e-05,0.000208517958609  
faces 0.0,1.0,0.0,5.21294896523e-05  
completion 3.0,0.0,0.00020475020475,0.0  
cell 1.0,0.0,6.82500682501e-05,0.0  
indicator 0.0,1.0,0.0,5.21294896523e-05  
believe 7.0,7.0,0.00047775047775,0.000364906427566  
regulations 3.0,0.0,0.00020475020475,0.0  
delinquent 0.0,1.0,0.0,5.21294896523e-05  
copyright 0.0,7.0,0.0,0.000364906427566  
disordersshrink 0.0,1.0,0.0,5.21294896523e-05  
ruin 0.0,1.0,0.0,5.21294896523e-05  
hope 6.0,3.0,0.0004095004095,0.000156388468957  
distributed 1.0,0.0,6.82500682501e-05,0.0  
vision 0.0,1.0,0.0,5.21294896523e-05  
moments 0.0,1.0,0.0,5.21294896523e-05  
viagra 0.0,5.0,0.0,0.000260647448261  
couldn 0.0,1.0,0.0,5.21294896523e-05  
generators 2.0,0.0,0.0001365001365,0.0  
betray 0.0,1.0,0.0,5.21294896523e-05  
pretty 4.0,0.0,0.000273000273,0.0  
equity 3.0,2.0,0.00020475020475,0.000104258979305  
8 15.0,13.0,0.00102375102375,0.00067768336548  
bendickson 0.0,2.0,0.0,0.000104258979305  
hourhelp 0.0,1.0,0.0,5.21294896523e-05  
didrex 0.0,1.0,0.0,5.21294896523e-05  
clemmons 1.0,0.0,6.82500682501e-05,0.0  
yourmembership 0.0,2.0,0.0,0.000104258979305  
toronto 0.0,1.0,0.0,5.21294896523e-05  
his 10.0,29.0,0.000682500682501,0.00151175519992  
founding 0.0,1.0,0.0,5.21294896523e-05  
8434 0.0,1.0,0.0,5.21294896523e-05  
gratis 0.0,1.0,0.0,5.21294896523e-05  
manual 0.0,2.0,0.0,0.000104258979305  
william 1.0,0.0,6.82500682501e-05,0.0  
express 1.0,3.0,6.82500682501e-05,0.000156388468957  
kind 3.0,4.0,0.00020475020475,0.000208517958609  
wash 0.0,1.0,0.0,5.21294896523e-05

famous 0.0,1.0,0.0,5.21294896523e-05  
somehow 0.0,1.0,0.0,5.21294896523e-05  
cote 0.0,3.0,0.0,0.000156388468957  
rest 0.0,5.0,0.0,0.000260647448261  
closely 5.0,0.0,0.00034125034125,0.0  
competing 1.0,2.0,6.82500682501e-05,0.000104258979305  
units 4.0,0.0,0.000273000273,0.0  
critically 2.0,0.0,0.0001365001365,0.0  
accomodates 1.0,0.0,6.82500682501e-05,0.0  
vein 0.0,1.0,0.0,5.21294896523e-05  
him 4.0,5.0,0.000273000273,0.000260647448261  
merchandise 0.0,3.0,0.0,0.000156388468957  
rsbaker 1.0,0.0,6.82500682501e-05,0.0  
resolve 4.0,0.0,0.000273000273,0.0  
oxx 0.0,2.0,0.0,0.000104258979305  
sources 7.0,0.0,0.00047775047775,0.0  
hplr 1.0,0.0,6.82500682501e-05,0.0  
millenium 0.0,1.0,0.0,5.21294896523e-05  
wynpublishing 0.0,1.0,0.0,5.21294896523e-05  
remove 0.0,6.0,0.0,0.000312776937914  
pbem 0.0,1.0,0.0,5.21294896523e-05  
banking 4.0,0.0,0.000273000273,0.0  
multilanguage 0.0,1.0,0.0,5.21294896523e-05  
common 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
allocations 4.0,0.0,0.000273000273,0.0  
cre 0.0,1.0,0.0,5.21294896523e-05  
hype 0.0,1.0,0.0,5.21294896523e-05  
x 17.0,3.0,0.00116025116025,0.000156388468957  
aspermont 0.0,3.0,0.0,0.000156388468957  
hplc 1.0,0.0,6.82500682501e-05,0.0  
rear 0.0,1.0,0.0,5.21294896523e-05  
wrote 1.0,2.0,6.82500682501e-05,0.000104258979305  
consciously 0.0,1.0,0.0,5.21294896523e-05  
nas 0.0,1.0,0.0,5.21294896523e-05  
set 7.0,8.0,0.00047775047775,0.000417035917218  
art 0.0,2.0,0.0,0.000104258979305  
achieved 1.0,0.0,6.82500682501e-05,0.0  
cashpo 0.0,2.0,0.0,0.000104258979305  
312 1.0,0.0,6.82500682501e-05,0.0  
watchfully 0.0,1.0,0.0,5.21294896523e-05

activists 1.0,0.0,0,6.82500682501e-05,0.0  
uses 0.0,1.0,0.0,5.21294896523e-05  
delux 0.0,1.0,0.0,5.21294896523e-05  
topics 0.0,1.0,0.0,5.21294896523e-05  
package 4.0,0.0,0,0.000273000273,0.0  
signups 0.0,1.0,0.0,5.21294896523e-05  
see 7.0,27.0,0,0.00047775047775,0.00140749622061  
individual 3.0,5.0,0,0.00020475020475,0.000260647448261  
are 62.0,107.0,0,0.0042315042315,0.0055778553928  
emai 0.0,1.0,0.0,5.21294896523e-05  
close 5.0,1.0,0,0.00034125034125,5.21294896523e-05  
expertise 7.0,1.0,0,0.00047775047775,5.21294896523e-05  
ark 0.0,1.0,0.0,5.21294896523e-05  
arm 1.0,0.0,6.82500682501e-05,0.0  
locals 0.0,1.0,0.0,5.21294896523e-05  
pacific 1.0,2.0,6.82500682501e-05,0.000104258979305  
learns 2.0,0.0,0,0.0001365001365,0.0  
threats 2.0,0.0,0,0.0001365001365,0.0  
prescriptions 0.0,1.0,0.0,5.21294896523e-05  
switchman 0.0,1.0,0.0,5.21294896523e-05  
guinea 0.0,1.0,0.0,5.21294896523e-05  
currently 12.0,4.0,0,0.000819000819001,0.000208517958609  
kvie 0.0,1.0,0.0,5.21294896523e-05  
retired 0.0,2.0,0.0,0,0.000104258979305  
walpole 0.0,1.0,0.0,5.21294896523e-05  
unions 2.0,0.0,0,0.0001365001365,0.0  
won 0.0,6.0,0.0,0,0.000312776937914  
solmonson 1.0,0.0,6.82500682501e-05,0.0  
use 4.0,39.0,0,0.000273000273,0.00203305009644  
pc 0.0,5.0,0.0,0,0.000260647448261  
architect 0.0,1.0,0.0,5.21294896523e-05  
hold 0.0,3.0,0.0,0,0.000156388468957  
numerous 1.0,0.0,6.82500682501e-05,0.0  
law 3.0,2.0,0,0.00020475020475,0.000104258979305  
wide 0.0,1.0,0.0,5.21294896523e-05  
available 14.0,9.0,0,0.000955500955501,0.000469165406871  
seeded 0.0,1.0,0.0,5.21294896523e-05  
korea 0.0,1.0,0.0,5.21294896523e-05  
recently 5.0,0.0,0,0.00034125034125,0.0  
creating 0.0,2.0,0.0,0,0.000104258979305

missing 0.0,1.0,0.0,5.21294896523e-05  
initially 2.0,2.0,0.0001365001365,0.000104258979305  
sold 0.0,2.0,0.0,0.000104258979305  
attention 0.0,3.0,0.0,0.000156388468957  
succeed 1.0,2.0,6.82500682501e-05,0.000104258979305  
xacnax 0.0,1.0,0.0,5.21294896523e-05  
scuttle 0.0,1.0,0.0,5.21294896523e-05  
opposition 2.0,0.0,0.0001365001365,0.0  
skilling 7.0,0.0,0.00047775047775,0.0  
commentaryto 0.0,1.0,0.0,5.21294896523e-05  
wanting 0.0,4.0,0.0,0.000208517958609  
remaining 2.0,1.0,0.0001365001365,5.21294896523e-05  
legislature 9.0,0.0,0.000614250614251,0.0  
both 5.0,10.0,0.00034125034125,0.000521294896523  
c 5.0,13.0,0.00034125034125,0.00067768336548  
rennie 1.0,0.0,6.82500682501e-05,0.0  
improved 2.0,3.0,0.0001365001365,0.000156388468957  
mega 0.0,2.0,0.0,0.000104258979305  
pdx 1.0,0.0,6.82500682501e-05,0.0  
oversee 3.0,0.0,0.00020475020475,0.0  
obligationin 0.0,1.0,0.0,5.21294896523e-05  
barely 0.0,1.0,0.0,5.21294896523e-05  
sensitive 2.0,0.0,0.0001365001365,0.0  
connection 0.0,3.0,0.0,0.000156388468957  
became 0.0,4.0,0.0,0.000208517958609  
goodmorning 2.0,0.0,0.0001365001365,0.0  
annie 0.0,2.0,0.0,0.000104258979305  
forgotten 0.0,1.0,0.0,5.21294896523e-05  
reply 0.0,5.0,0.0,0.000260647448261  
mean 0.0,1.0,0.0,5.21294896523e-05  
whole 0.0,2.0,0.0,0.000104258979305  
rodgers 1.0,0.0,6.82500682501e-05,0.0  
sink 1.0,0.0,6.82500682501e-05,0.0  
dutyfreesoft 0.0,1.0,0.0,5.21294896523e-05  
liked 0.0,1.0,0.0,5.21294896523e-05  
xent 0.0,2.0,0.0,0.000104258979305  
tungsten 0.0,1.0,0.0,5.21294896523e-05  
jeff 5.0,2.0,0.00034125034125,0.000104258979305  
reasons 0.0,1.0,0.0,5.21294896523e-05  
sweet 0.0,3.0,0.0,0.000156388468957

loan 0.0,4.0,0.0,0.000208517958609  
elses 0.0,2.0,0.0,0.000104258979305  
community 1.0,22.0,6.82500682501e-05,0.00114684877235  
except 1.0,0.0,6.82500682501e-05,0.0  
inlcuding 1.0,0.0,6.82500682501e-05,0.0  
stove 0.0,1.0,0.0,5.21294896523e-05  
pinnacle 0.0,1.0,0.0,5.21294896523e-05  
ravi 6.0,0.0,0.0004095004095,0.0  
likes 0.0,1.0,0.0,5.21294896523e-05  
shutdown 0.0,1.0,0.0,5.21294896523e-05  
linux 0.0,4.0,0.0,0.000208517958609  
written 1.0,5.0,6.82500682501e-05,0.000260647448261  
slots 0.0,1.0,0.0,5.21294896523e-05  
desktop 0.0,1.0,0.0,5.21294896523e-05  
lender 0.0,2.0,0.0,0.000104258979305  
worthless 0.0,1.0,0.0,5.21294896523e-05  
described 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
publishing 0.0,2.0,0.0,0.000104258979305  
kimberly 5.0,0.0,0.00034125034125,0.0  
monthly 0.0,2.0,0.0,0.000104258979305  
help 4.0,12.0,0.000273000273,0.000625553875828  
create 5.0,8.0,0.00034125034125,0.000417035917218  
creativity 1.0,0.0,6.82500682501e-05,0.0  
due 2.0,7.0,0.0001365001365,0.000364906427566  
enron 127.0,0.0,0.00866775866776,0.0  
strategy 2.0,0.0,0.0001365001365,0.0  
geoffrey 0.0,1.0,0.0,5.21294896523e-05  
reduction 3.0,1.0,0.00020475020475,5.21294896523e-05  
nicki 1.0,0.0,6.82500682501e-05,0.0  
complicated 0.0,3.0,0.0,0.000156388468957  
pg 7.0,0.0,0.00047775047775,0.0  
pibrochs 0.0,1.0,0.0,5.21294896523e-05  
brick 0.0,5.0,0.0,0.000260647448261  
softwares 0.0,1.0,0.0,5.21294896523e-05  
meeting 19.0,0.0,0.00129675129675,0.0  
po 0.0,1.0,0.0,5.21294896523e-05  
pl 0.0,1.0,0.0,5.21294896523e-05  
pm 34.0,3.0,0.0023205023205,0.000156388468957  
0004 3.0,2.0,0.00020475020475,0.000104258979305  
0005 4.0,2.0,0.000273000273,0.000104258979305

0006 3.0,3.0,0.00020475020475,0.000156388468957  
888 0.0,5.0,0.0,0.000260647448261  
flight 1.0,0.0,6.82500682501e-05,0.0  
0001 6.0,0.0,0.0004095004095,0.0  
0002 2.0,3.0,0.0001365001365,0.000156388468957  
boy 0.0,2.0,0.0,0.000104258979305  
niles 3.0,0.0,0.00020475020475,0.0  
tomorrow 5.0,0.0,0.00034125034125,0.0  
5022 0.0,1.0,0.0,5.21294896523e-05  
0008 1.0,4.0,6.82500682501e-05,0.000208517958609  
0009 4.0,2.0,0.000273000273,0.000104258979305  
bmlm 0.0,4.0,0.0,0.000208517958609  
else 0.0,2.0,0.0,0.000104258979305  
moment 0.0,3.0,0.0,0.000156388468957  
281 1.0,0.0,6.82500682501e-05,0.0  
whatever 0.0,4.0,0.0,0.000208517958609  
409055 0.0,1.0,0.0,5.21294896523e-05  
socal 4.0,0.0,0.000273000273,0.0  
1864 1.0,0.0,6.82500682501e-05,0.0  
knowlton 1.0,0.0,6.82500682501e-05,0.0  
demand 2.0,1.0,0.0001365001365,5.21294896523e-05  
prices 2.0,6.0,0.0001365001365,0.000312776937914  
ways 0.0,10.0,0.0,0.000521294896523  
hillis 1.0,0.0,6.82500682501e-05,0.0  
nrw 0.0,1.0,0.0,5.21294896523e-05  
tgary 1.0,0.0,6.82500682501e-05,0.0  
unnecessarily 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
964 2.0,0.0,0.0001365001365,0.0  
965 0.0,1.0,0.0,5.21294896523e-05  
crenshaw 13.0,0.0,0.000887250887251,0.0  
unify 3.0,0.0,0.00020475020475,0.0  
look 3.0,11.0,0.00020475020475,0.000573424386175  
makecashonline 0.0,1.0,0.0,5.21294896523e-05  
solid 0.0,1.0,0.0,5.21294896523e-05  
8561513507 0.0,1.0,0.0,5.21294896523e-05  
straight 4.0,0.0,0.000273000273,0.0  
bill 6.0,2.0,0.0004095004095,0.000104258979305  
gxxu 0.0,1.0,0.0,5.21294896523e-05  
batch 0.0,3.0,0.0,0.000156388468957  
governor 5.0,0.0,0.00034125034125,0.0

technical 0.0,3.0,0.0,0.000156388468957  
while 6.0,8.0,0.0004095004095,0.000417035917218  
substantial 0.0,2.0,0.0,0.000104258979305  
cagey 0.0,1.0,0.0,5.21294896523e-05  
match 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
evaluating 0.0,1.0,0.0,5.21294896523e-05  
error 2.0,6.0,0.0001365001365,0.000312776937914  
fun 3.0,2.0,0.00020475020475,0.000104258979305  
hulmeville 0.0,1.0,0.0,5.21294896523e-05  
real 0.0,14.0,0.0,0.000729812855132  
larger 3.0,0.0,0.00020475020475,0.0  
century 1.0,0.0,6.82500682501e-05,0.0  
cents 2.0,5.0,0.0001365001365,0.000260647448261  
annuallouy 0.0,1.0,0.0,5.21294896523e-05  
raise 0.0,2.0,0.0,0.000104258979305  
toilet 0.0,1.0,0.0,5.21294896523e-05  
reads 0.0,2.0,0.0,0.000104258979305  
itself 1.0,2.0,6.82500682501e-05,0.000104258979305  
procrustes 0.0,1.0,0.0,5.21294896523e-05  
reports 1.0,0.0,6.82500682501e-05,0.0  
ready 2.0,3.0,0.0001365001365,0.000156388468957  
rid 0.0,1.0,0.0,5.21294896523e-05  
leaving 0.0,2.0,0.0,0.000104258979305  
payers 1.0,0.0,6.82500682501e-05,0.0  
aches 0.0,1.0,0.0,5.21294896523e-05  
barney 3.0,0.0,0.00020475020475,0.0  
878 1.0,0.0,6.82500682501e-05,0.0  
grant 6.0,0.0,0.0004095004095,0.0  
migraine 0.0,1.0,0.0,5.21294896523e-05  
877 0.0,3.0,0.0,0.000156388468957  
belong 0.0,1.0,0.0,5.21294896523e-05  
mailing 0.0,3.0,0.0,0.000156388468957  
orders 0.0,1.0,0.0,5.21294896523e-05  
shorter 0.0,1.0,0.0,5.21294896523e-05  
lilly 1.0,0.0,6.82500682501e-05,0.0  
economy 0.0,1.0,0.0,5.21294896523e-05  
copying 1.0,0.0,6.82500682501e-05,0.0  
grand 0.0,3.0,0.0,0.000156388468957  
9 31.0,10.0,0.00211575211575,0.000521294896523  
products 7.0,16.0,0.00047775047775,0.000834071834437

advise 2.0,0.0,0.0001365001365,0.0  
ray 4.0,0.0,0.000273000273,0.0  
headachesmerle 0.0,1.0,0.0,5.21294896523e-05  
conflict 1.0,0.0,6.82500682501e-05,0.0  
cargill 2.0,0.0,0.0001365001365,0.0  
anonymise 0.0,1.0,0.0,5.21294896523e-05  
893 0.0,1.0,0.0,5.21294896523e-05  
tower 0.0,2.0,0.0,0.000104258979305  
forced 1.0,0.0,6.82500682501e-05,0.0  
bonus 0.0,5.0,0.0,0.000260647448261  
assignment 1.0,0.0,6.82500682501e-05,0.0  
overseer 0.0,1.0,0.0,5.21294896523e-05  
yesterday 7.0,0.0,0.00047775047775,0.0  
times 3.0,2.0,0.00020475020475,0.000104258979305  
desks 2.0,0.0,0.0001365001365,0.0  
steps 0.0,1.0,0.0,5.21294896523e-05  
001 2.0,1.0,0.0001365001365,5.21294896523e-05  
000 25.0,27.0,0.00170625170625,0.00140749622061  
impede 1.0,0.0,6.82500682501e-05,0.0  
purpose 3.0,3.0,0.00020475020475,0.000156388468957  
shirley 18.0,0.0,0.0012285012285,0.0  
birch 0.0,1.0,0.0,5.21294896523e-05  
assortment 0.0,1.0,0.0,5.21294896523e-05  
yours 0.0,3.0,0.0,0.000156388468957  
nickname 0.0,1.0,0.0,5.21294896523e-05  
janice 1.0,0.0,6.82500682501e-05,0.0  
recent 2.0,1.0,0.0001365001365,5.21294896523e-05  
buybacks 1.0,0.0,6.82500682501e-05,0.0  
early 6.0,2.0,0.0004095004095,0.000104258979305  
lower 0.0,1.0,0.0,5.21294896523e-05  
myers 1.0,0.0,6.82500682501e-05,0.0  
daren 7.0,0.0,0.00047775047775,0.0  
database 1.0,0.0,6.82500682501e-05,0.0  
rules 0.0,1.0,0.0,5.21294896523e-05  
seward 0.0,1.0,0.0,5.21294896523e-05  
depending 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
anybody 0.0,1.0,0.0,5.21294896523e-05  
analysis 3.0,0.0,0.00020475020475,0.0  
obviously 1.0,3.0,6.82500682501e-05,0.000156388468957  
person 2.0,14.0,0.0001365001365,0.000729812855132

gilchrist 1.0,0.0,6.82500682501e-05,0.0  
edge 1.0,0.0,6.82500682501e-05,0.0  
chronicles 0.0,1.0,0.0,5.21294896523e-05  
auditor 0.0,1.0,0.0,5.21294896523e-05  
sherri 2.0,0.0,0.0001365001365,0.0  
kelly 1.0,0.0,6.82500682501e-05,0.0  
entry 1.0,0.0,6.82500682501e-05,0.0  
8919 0.0,1.0,0.0,5.21294896523e-05  
self 1.0,3.0,6.82500682501e-05,0.000156388468957  
cryogenic 0.0,1.0,0.0,5.21294896523e-05  
know 22.0,20.0,0.0015015015015,0.00104258979305  
things 3.0,5.0,0.00020475020475,0.000260647448261  
bondholders 1.0,0.0,6.82500682501e-05,0.0  
nepco 1.0,0.0,6.82500682501e-05,0.0  
2963 1.0,0.0,6.82500682501e-05,0.0  
lottery 0.0,6.0,0.0,0.000312776937914  
bytesize 0.0,1.0,0.0,5.21294896523e-05  
settlements 2.0,0.0,0.0001365001365,0.0  
removed 0.0,4.0,0.0,0.000208517958609  
competitive 0.0,3.0,0.0,0.000156388468957  
pursuing 1.0,0.0,6.82500682501e-05,0.0  
hje 0.0,1.0,0.0,5.21294896523e-05  
netwww 0.0,1.0,0.0,5.21294896523e-05  
buka 0.0,2.0,0.0,0.000104258979305  
questions 20.0,16.0,0.001365001365,0.000834071834437  
redesign 0.0,2.0,0.0,0.000104258979305  
nowthe 0.0,1.0,0.0,5.21294896523e-05  
alternative 0.0,1.0,0.0,5.21294896523e-05  
prevent 0.0,1.0,0.0,5.21294896523e-05  
soundmax 0.0,1.0,0.0,5.21294896523e-05  
profitable 0.0,1.0,0.0,5.21294896523e-05  
execution 1.0,0.0,6.82500682501e-05,0.0  
waste 0.0,1.0,0.0,5.21294896523e-05  
tablet 1.0,0.0,6.82500682501e-05,0.0  
readers 0.0,3.0,0.0,0.000156388468957  
rebecca 0.0,2.0,0.0,0.000104258979305  
percent 0.0,1.0,0.0,5.21294896523e-05  
advertisements 0.0,1.0,0.0,5.21294896523e-05  
tarrin 0.0,1.0,0.0,5.21294896523e-05  
andorra 0.0,1.0,0.0,5.21294896523e-05

dhar 4.0,0.0,0.000273000273,0.0  
internal 8.0,1.0,0.000546000546001,5.21294896523e-05  
parents 1.0,0.0,6.82500682501e-05,0.0  
location 11.0,0.0,0.000750750750751,0.0  
sydney 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
problematic 1.0,0.0,6.82500682501e-05,0.0  
input 5.0,1.0,0.00034125034125,5.21294896523e-05  
motero 0.0,1.0,0.0,5.21294896523e-05  
prominent 0.0,2.0,0.0,0.000104258979305  
operators 0.0,3.0,0.0,0.000156388468957  
brainstorm 1.0,0.0,6.82500682501e-05,0.0  
chairman 3.0,1.0,0.00020475020475,5.21294896523e-05  
customers 0.0,4.0,0.0,0.000208517958609  
australia 3.0,7.0,0.00020475020475,0.000364906427566  
motivating 1.0,0.0,6.82500682501e-05,0.0  
amended 1.0,0.0,6.82500682501e-05,0.0  
finalize 1.0,0.0,6.82500682501e-05,0.0  
format 0.0,3.0,0.0,0.000156388468957  
674 1.0,0.0,6.82500682501e-05,0.0  
big 3.0,7.0,0.00020475020475,0.000364906427566  
bid 1.0,0.0,6.82500682501e-05,0.0  
advocate 1.0,0.0,6.82500682501e-05,0.0  
results 1.0,5.0,6.82500682501e-05,0.000260647448261  
terminate 0.0,1.0,0.0,5.21294896523e-05  
wives 0.0,1.0,0.0,5.21294896523e-05  
finding 0.0,1.0,0.0,5.21294896523e-05  
game 4.0,0.0,0.000273000273,0.0  
workable 0.0,1.0,0.0,5.21294896523e-05  
biz 0.0,4.0,0.0,0.000208517958609  
3130 1.0,0.0,6.82500682501e-05,0.0  
foreigners 0.0,1.0,0.0,5.21294896523e-05  
herewe 0.0,1.0,0.0,5.21294896523e-05  
necessary 4.0,4.0,0.000273000273,0.000208517958609  
bit 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
tarrif 2.0,0.0,0.0001365001365,0.0  
projects 2.0,0.0,0.0001365001365,0.0  
formal 1.0,0.0,6.82500682501e-05,0.0  
listmaster 0.0,1.0,0.0,5.21294896523e-05  
webmail 0.0,1.0,0.0,5.21294896523e-05  
ambrose 0.0,1.0,0.0,5.21294896523e-05

d 24.0,17.0,0.001638001638,0.000886201324089  
lemelman 0.0,1.0,0.0,5.21294896523e-05  
should 9.0,18.0,0.000614250614251,0.000938330813741  
afirst 0.0,1.0,0.0,5.21294896523e-05  
snowboard 1.0,0.0,6.82500682501e-05,0.0  
ees 10.0,0.0,0.000682500682501,0.0  
collect 2.0,0.0,0.0001365001365,0.0  
arthur 0.0,1.0,0.0,5.21294896523e-05  
continue 11.0,4.0,0.000750750750751,0.000208517958609  
indication 1.0,0.0,6.82500682501e-05,0.0  
crawled 0.0,1.0,0.0,5.21294896523e-05  
ivan 0.0,2.0,0.0,0.000104258979305  
suppliers 6.0,0.0,0.0004095004095,0.0  
ho 3.0,0.0,0.00020475020475,0.0  
licensing 0.0,1.0,0.0,5.21294896523e-05  
methods 0.0,1.0,0.0,5.21294896523e-05  
gist 2.0,0.0,0.0001365001365,0.0  
absolutely 0.0,1.0,0.0,5.21294896523e-05  
spring 0.0,1.0,0.0,5.21294896523e-05  
fathers 0.0,1.0,0.0,5.21294896523e-05  
creation 3.0,0.0,0.00020475020475,0.0  
instruments 0.0,1.0,0.0,5.21294896523e-05  
back 8.0,18.0,0.000546000546001,0.000938330813741  
saa 0.0,1.0,0.0,5.21294896523e-05  
ozarka 1.0,0.0,6.82500682501e-05,0.0  
urgent 2.0,5.0,0.0001365001365,0.000260647448261  
lips 0.0,1.0,0.0,5.21294896523e-05  
added 0.0,2.0,0.0,0.000104258979305  
mighty 0.0,1.0,0.0,5.21294896523e-05  
accelerate 0.0,1.0,0.0,5.21294896523e-05  
sight 0.0,1.0,0.0,5.21294896523e-05  
mirror 3.0,0.0,0.00020475020475,0.0  
newsletter 0.0,24.0,0.0,0.00125110775166  
ourselves 1.0,0.0,6.82500682501e-05,0.0  
brent 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
gracie 2.0,0.0,0.0001365001365,0.0  
delivered 3.0,2.0,0.00020475020475,0.000104258979305  
gradually 1.0,0.0,6.82500682501e-05,0.0  
contacts 1.0,0.0,6.82500682501e-05,0.0  
pet 0.0,1.0,0.0,5.21294896523e-05

decision 2.0,0.0,0.0001365001365,0.0  
though 5.0,1.0,0.00034125034125,5.21294896523e-05  
audience 2.0,8.0,0.0001365001365,0.000417035917218  
per 2.0,9.0,0.0001365001365,0.000469165406871  
bannerco 0.0,4.0,0.0,0.000208517958609  
owns 1.0,0.0,0.6.82500682501e-05,0.0  
eliminate 0.0,3.0,0.0,0.000156388468957  
slash 0.0,1.0,0.0,5.21294896523e-05  
innovation 4.0,0.0,0.000273000273,0.0  
tear 0.0,1.0,0.0,5.21294896523e-05  
teosrest 0.0,1.0,0.0,5.21294896523e-05  
minimal 0.0,1.0,0.0,5.21294896523e-05  
either 7.0,2.0,0.00047775047775,0.000104258979305  
cgi 0.0,5.0,0.0,0.000260647448261  
be 107.0,115.0,0.00730275730276,0.00599489131001  
tilts 0.0,1.0,0.0,5.21294896523e-05  
bg 0.0,13.0,0.0,0.00067768336548  
eating 0.0,2.0,0.0,0.000104258979305  
35615 1.0,0.0,0.6.82500682501e-05,0.0  
jnexus 1.0,0.0,0.6.82500682501e-05,0.0  
bc 1.0,0.0,0.6.82500682501e-05,0.0  
300 5.0,4.0,0.00034125034125,0.000208517958609  
tlapek 5.0,0.0,0.00034125034125,0.0  
martin 7.0,0.0,0.00047775047775,0.0  
continuing 1.0,0.0,0.6.82500682501e-05,0.0  
agreement 12.0,4.0,0.000819000819001,0.000208517958609  
306 1.0,1.0,0.6.82500682501e-05,5.21294896523e-05  
step 1.0,1.0,0.6.82500682501e-05,5.21294896523e-05  
fee 2.0,4.0,0.0001365001365,0.000208517958609  
bp 3.0,0.0,0.00020475020475,0.0  
concealed 0.0,2.0,0.0,0.000104258979305  
br 2.0,0.0,0.0001365001365,0.0  
bs 0.0,2.0,0.0,0.000104258979305  
from 57.0,78.0,0.00389025389025,0.00406610019288  
carol 0.0,1.0,0.0,5.21294896523e-05  
by 66.0,77.0,0.0045045045045,0.00401397070323  
smithc 1.0,0.0,0.6.82500682501e-05,0.0  
russell 1.0,0.0,0.6.82500682501e-05,0.0  
faith 1.0,0.0,0.6.82500682501e-05,0.0  
pipeline 3.0,0.0,0.00020475020475,0.0

goods 0.0,1.0,0.0,5.21294896523e-05  
anything 4.0,7.0,0.000273000273,0.000364906427566  
most 4.0,27.0,0.000273000273,0.00140749622061  
completing 1.0,0.0,6.82500682501e-05,0.0  
firing 0.0,1.0,0.0,5.21294896523e-05  
ids 1.0,0.0,6.82500682501e-05,0.0  
must 6.0,15.0,0.0004095004095,0.000781942344784  
papua 0.0,1.0,0.0,5.21294896523e-05  
beetcn 0.0,1.0,0.0,5.21294896523e-05  
nightgear 0.0,1.0,0.0,5.21294896523e-05  
beans 0.0,1.0,0.0,5.21294896523e-05  
together 1.0,6.0,6.82500682501e-05,0.000312776937914  
jsp 0.0,3.0,0.0,0.000156388468957  
complimentary 0.0,1.0,0.0,5.21294896523e-05  
consequently 0.0,1.0,0.0,5.21294896523e-05  
block 2.0,3.0,0.0001365001365,0.000156388468957  
seeing 1.0,0.0,6.82500682501e-05,0.0  
computational 0.0,1.0,0.0,5.21294896523e-05  
significant 3.0,1.0,0.00020475020475,5.21294896523e-05  
blainey 0.0,1.0,0.0,5.21294896523e-05  
intl 2.0,0.0,0.0001365001365,0.0  
hemingway 0.0,1.0,0.0,5.21294896523e-05  
within 13.0,12.0,0.000887250887251,0.000625553875828  
servers 0.0,2.0,0.0,0.000104258979305  
iowa 0.0,1.0,0.0,5.21294896523e-05  
services 4.0,12.0,0.000273000273,0.000625553875828  
appropriate 3.0,0.0,0.00020475020475,0.0  
frames 0.0,1.0,0.0,5.21294896523e-05  
lesson 0.0,5.0,0.0,0.000260647448261  
pillsburywinthrop 2.0,0.0,0.0001365001365,0.0  
kay 5.0,0.0,0.00034125034125,0.0  
eneric 0.0,1.0,0.0,5.21294896523e-05  
bankruptcy 18.0,2.0,0.0012285012285,0.000104258979305  
shanbhogue 5.0,0.0,0.00034125034125,0.0  
story 0.0,17.0,0.0,0.000886201324089  
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drowning 0.0,1.0,0.0,5.21294896523e-05  
river 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
ezine 0.0,5.0,0.0,0.000260647448261  
angelova 4.0,0.0,0.000273000273,0.0  
g 25.0,7.0,0.00170625170625,0.000364906427566  
phrases 0.0,3.0,0.0,0.000156388468957  
could 5.0,13.0,0.00034125034125,0.00067768336548  
rushed 0.0,1.0,0.0,5.21294896523e-05  
diminished 0.0,1.0,0.0,5.21294896523e-05  
david 19.0,0.0,0.00129675129675,0.0  
conversation 1.0,0.0,6.82500682501e-05,0.0  
length 0.0,1.0,0.0,5.21294896523e-05  
cures 0.0,1.0,0.0,5.21294896523e-05  
ycon 0.0,2.0,0.0,0.000104258979305  
qualification 0.0,3.0,0.0,0.000156388468957  
ltd 0.0,2.0,0.0,0.000104258979305  
busines 0.0,1.0,0.0,5.21294896523e-05  
stated 2.0,0.0,0.0001365001365,0.0  
parallel 0.0,1.0,0.0,5.21294896523e-05  
retail 3.0,1.0,0.00020475020475,5.21294896523e-05  
facilitate 4.0,0.0,0.000273000273,0.0  
anita 2.0,0.0,0.0001365001365,0.0  
designed 1.0,4.0,6.82500682501e-05,0.000208517958609  
insane 0.0,2.0,0.0,0.000104258979305  
secured 0.0,1.0,0.0,5.21294896523e-05  
there 23.0,33.0,0.00156975156975,0.00172027315853  
succeeds 1.0,0.0,6.82500682501e-05,0.0  
notes 1.0,0.0,6.82500682501e-05,0.0  
third 1.0,2.0,6.82500682501e-05,0.000104258979305  
pgm 0.0,1.0,0.0,5.21294896523e-05  
powerful 0.0,7.0,0.0,0.000364906427566  
owned 3.0,2.0,0.00020475020475,0.000104258979305  
agouti 0.0,1.0,0.0,5.21294896523e-05  
krishnarao 5.0,0.0,0.00034125034125,0.0  
improving 0.0,1.0,0.0,5.21294896523e-05  
uuz 0.0,1.0,0.0,5.21294896523e-05  
submit 1.0,9.0,6.82500682501e-05,0.000469165406871

practices 3.0,0.0,0.00020475020475,0.0  
owner 0.0,2.0,0.0,0.000104258979305  
reached 1.0,2.0,6.82500682501e-05,0.000104258979305  
blows 1.0,0.0,6.82500682501e-05,0.0  
noticed 0.0,1.0,0.0,5.21294896523e-05  
ihf 0.0,1.0,0.0,5.21294896523e-05  
traders 1.0,0.0,6.82500682501e-05,0.0  
owning 0.0,2.0,0.0,0.000104258979305  
legislative 1.0,0.0,6.82500682501e-05,0.0  
has 31.0,36.0,0.00211575211575,0.00187666162748  
management 54.0,0.0,0.0036855036855,0.0  
reference 0.0,2.0,0.0,0.000104258979305  
privacy 0.0,6.0,0.0,0.000312776937914  
nomination 4.0,0.0,0.00027300273,0.0  
sellens 1.0,0.0,6.82500682501e-05,0.0  
they 14.0,49.0,0.000955500955501,0.00255434499296  
system 10.0,3.0,0.000682500682501,0.000156388468957  
relations 3.0,0.0,0.00020475020475,0.0  
cinergy 1.0,0.0,6.82500682501e-05,0.0  
overwhelm 0.0,1.0,0.0,5.21294896523e-05  
attack 1.0,0.0,6.82500682501e-05,0.0  
29155 0.0,1.0,0.0,5.21294896523e-05  
maidens 0.0,1.0,0.0,5.21294896523e-05  
stroock 1.0,0.0,6.82500682501e-05,0.0  
intelligence 0.0,1.0,0.0,5.21294896523e-05  
wardsgiftshop 0.0,1.0,0.0,5.21294896523e-05  
norton 0.0,3.0,0.0,0.000156388468957  
waggons 0.0,1.0,0.0,5.21294896523e-05  
final 5.0,1.0,0.00034125034125,5.21294896523e-05  
beard 0.0,1.0,0.0,5.21294896523e-05  
interests 0.0,7.0,0.0,0.000364906427566  
stars 0.0,1.0,0.0,5.21294896523e-05  
completed 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
acquire 1.0,0.0,6.82500682501e-05,0.0  
txuelectric 1.0,0.0,6.82500682501e-05,0.0  
rsa 0.0,1.0,0.0,5.21294896523e-05  
lists 0.0,2.0,0.0,0.000104258979305  
jvbe 0.0,1.0,0.0,5.21294896523e-05  
environmental 1.0,0.0,6.82500682501e-05,0.0  
targeted 0.0,11.0,0.0,0.000573424386175

regards 6.0,1.0,0.0004095004095,5.21294896523e-05  
unsubscribe 0.0,16.0,0.0,0.000834071834437  
too 3.0,9.0,0.00020475020475,0.000469165406871  
helpless 0.0,2.0,0.0,0.000104258979305  
wanted 3.0,3.0,0.00020475020475,0.000156388468957  
july 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
chisholm 0.0,1.0,0.0,5.21294896523e-05  
commence 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
outline 2.0,0.0,0.0001365001365,0.0  
nowbetterthis 0.0,2.0,0.0,0.000104258979305  
liquid 0.0,1.0,0.0,5.21294896523e-05  
protocol 0.0,1.0,0.0,5.21294896523e-05  
split 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
bother 0.0,1.0,0.0,5.21294896523e-05  
riches 0.0,1.0,0.0,5.21294896523e-05  
bed 0.0,1.0,0.0,5.21294896523e-05  
rosenfield 6.0,0.0,0.0004095004095,0.0  
roberts 9.0,0.0,0.000614250614251,0.0  
compensation 2.0,0.0,0.0001365001365,0.0  
num 0.0,1.0,0.0,5.21294896523e-05  
flynn 0.0,1.0,0.0,5.21294896523e-05  
assays 0.0,1.0,0.0,5.21294896523e-05  
sr 0.0,1.0,0.0,5.21294896523e-05  
ber 0.0,1.0,0.0,5.21294896523e-05  
visited 0.0,1.0,0.0,5.21294896523e-05  
providing 1.0,5.0,6.82500682501e-05,0.000260647448261  
creditors 3.0,1.0,0.00020475020475,5.21294896523e-05  
exhibit 1.0,4.0,6.82500682501e-05,0.000208517958609  
rtol 1.0,0.0,6.82500682501e-05,0.0  
pete 1.0,0.0,6.82500682501e-05,0.0  
cohen 0.0,1.0,0.0,5.21294896523e-05  
partnership 0.0,1.0,0.0,5.21294896523e-05  
putpeel 0.0,8.0,0.0,0.000417035917218  
interrupted 0.0,1.0,0.0,5.21294896523e-05  
netherland 0.0,1.0,0.0,5.21294896523e-05  
manganese 0.0,1.0,0.0,5.21294896523e-05  
have 69.0,101.0,0.00470925470925,0.00526507845488  
chambers 1.0,0.0,6.82500682501e-05,0.0  
need 36.0,18.0,0.002457002457,0.000938330813741  
manitoba 0.0,1.0,0.0,5.21294896523e-05

frevert 3.0,0.0,0.00020475020475,0.0  
apparently 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
clearly 0.0,1.0,0.0,5.21294896523e-05  
complete 0.0,4.0,0.0,0.000208517958609  
necessities 0.0,1.0,0.0,5.21294896523e-05  
extremal 0.0,1.0,0.0,5.21294896523e-05  
afraid 1.0,3.0,6.82500682501e-05,0.000156388468957  
dishes 0.0,1.0,0.0,5.21294896523e-05  
congrats 1.0,0.0,6.82500682501e-05,0.0  
recap 2.0,1.0,0.0001365001365,5.21294896523e-05  
watson 2.0,0.0,0.0001365001365,0.0  
able 3.0,11.0,0.00020475020475,0.000573424386175  
empowered 1.0,0.0,6.82500682501e-05,0.0  
hangover 0.0,1.0,0.0,5.21294896523e-05  
hr 14.0,0.0,0.000955500955501,0.0  
321 0.0,1.0,0.0,5.21294896523e-05  
financials 1.0,0.0,6.82500682501e-05,0.0  
rossman 0.0,12.0,0.0,0.000625553875828  
funds 0.0,10.0,0.0,0.000521294896523  
woolgar 0.0,1.0,0.0,5.21294896523e-05  
linda 5.0,0.0,0.00034125034125,0.0  
divert 1.0,0.0,6.82500682501e-05,0.0  
subject 39.0,14.0,0.00266175266175,0.000729812855132  
dcoit 0.0,1.0,0.0,5.21294896523e-05  
hp 1.0,16.0,6.82500682501e-05,0.000834071834437  
persistence 0.0,2.0,0.0,0.000104258979305  
martina 4.0,0.0,0.000273000273,0.0  
worldwide 6.0,5.0,0.0004095004095,0.000260647448261  
02 34.0,1.0,0.0023205023205,5.21294896523e-05  
miningnews 0.0,9.0,0.0,0.000469165406871  
unless 3.0,2.0,0.00020475020475,0.000104258979305  
unocal 1.0,0.0,6.82500682501e-05,0.0  
rw 0.0,1.0,0.0,5.21294896523e-05  
who 8.0,19.0,0.000546000546001,0.000990460303394  
techniques 0.0,5.0,0.0,0.000260647448261  
nextpart 0.0,1.0,0.0,5.21294896523e-05  
thorns 0.0,1.0,0.0,5.21294896523e-05  
courtesy 0.0,1.0,0.0,5.21294896523e-05  
montana 0.0,1.0,0.0,5.21294896523e-05  
connected 0.0,1.0,0.0,5.21294896523e-05

ht 0.0,4.0,0.0,0.000208517958609  
tall 0.0,1.0,0.0,5.21294896523e-05  
device 0.0,1.0,0.0,5.21294896523e-05  
06 22.0,17.0,0.0015015015015,0.000886201324089  
gunners 0.0,1.0,0.0,5.21294896523e-05  
expired 1.0,0.0,6.82500682501e-05,0.0  
class 0.0,2.0,0.0,0.000104258979305  
anonymizer 0.0,1.0,0.0,5.21294896523e-05  
fabacalbo 0.0,1.0,0.0,5.21294896523e-05  
amortize 4.0,0.0,0.000273000273,0.0  
placement 0.0,2.0,0.0,0.000104258979305  
pressured 2.0,0.0,0.0001365001365,0.0  
url 0.0,3.0,0.0,0.000156388468957  
neighboring 0.0,2.0,0.0,0.000104258979305  
inappropriate 0.0,1.0,0.0,5.21294896523e-05  
request 3.0,11.0,0.00020475020475,0.000573424386175  
disease 0.0,1.0,0.0,5.21294896523e-05  
face 0.0,1.0,0.0,5.21294896523e-05  
looked 1.0,0.0,6.82500682501e-05,0.0  
xes 0.0,1.0,0.0,5.21294896523e-05  
hi 2.0,0.0,0.0001365001365,0.0  
brex 0.0,2.0,0.0,0.000104258979305  
north 9.0,3.0,0.000614250614251,0.000156388468957  
occasion 0.0,1.0,0.0,5.21294896523e-05  
trafficmultipliers 0.0,1.0,0.0,5.21294896523e-05  
normally 0.0,1.0,0.0,5.21294896523e-05  
08 26.0,13.0,0.0017745017745,0.00067768336548  
fact 1.0,7.0,6.82500682501e-05,0.000364906427566  
goals 0.0,1.0,0.0,5.21294896523e-05  
ecomog 0.0,3.0,0.0,0.000156388468957  
impression 0.0,3.0,0.0,0.000156388468957  
emerging 2.0,0.0,0.0001365001365,0.0  
selection 2.0,2.0,0.0001365001365,0.000104258979305  
brenda 1.0,0.0,6.82500682501e-05,0.0  
chances 0.0,4.0,0.0,0.000208517958609  
please 49.0,35.0,0.00334425334425,0.00182453213783  
agreed 2.0,0.0,0.0001365001365,0.0  
hm 0.0,1.0,0.0,5.21294896523e-05  
scotty 1.0,0.0,6.82500682501e-05,0.0  
anyway 1.0,1.0,6.82500682501e-05,5.21294896523e-05

bring 1.0,0.0,6.82500682501e-05,0.0  
democrats 3.0,0.0,0.00020475020475,0.0  
telling 0.0,1.0,0.0,5.21294896523e-05  
vicodin 0.0,2.0,0.0,0.000104258979305  
fear 0.0,4.0,0.0,0.000208517958609  
bybb 0.0,1.0,0.0,5.21294896523e-05  
supervisor 4.0,0.0,0.000273000273,0.0  
pleased 1.0,2.0,6.82500682501e-05,0.000104258979305  
principal 3.0,0.0,0.00020475020475,0.0  
partners 2.0,2.0,0.0001365001365,0.000104258979305  
envy 0.0,1.0,0.0,5.21294896523e-05  
pause 0.0,1.0,0.0,5.21294896523e-05  
based 7.0,8.0,0.00047775047775,0.000417035917218  
knowledge 4.0,0.0,0.000273000273,0.0  
tire 0.0,1.0,0.0,5.21294896523e-05  
bodyfrankfurter 0.0,1.0,0.0,5.21294896523e-05  
micros 0.0,2.0,0.0,0.000104258979305  
ngo 2.0,0.0,0.0001365001365,0.0  
pushing 0.0,1.0,0.0,5.21294896523e-05  
controls 6.0,0.0,0.0004095004095,0.0  
employer 0.0,1.0,0.0,5.21294896523e-05  
jan 4.0,0.0,0.000273000273,0.0  
planted 1.0,0.0,6.82500682501e-05,0.0  
netsbestinfo 0.0,2.0,0.0,0.000104258979305  
rvsq 0.0,1.0,0.0,5.21294896523e-05  
combo 0.0,1.0,0.0,5.21294896523e-05  
employee 6.0,0.0,0.0004095004095,0.0  
employed 2.0,0.0,0.0001365001365,0.0  
sengupta 1.0,0.0,6.82500682501e-05,0.0  
he 8.0,39.0,0.000546000546001,0.00203305009644  
local 5.0,1.0,0.00034125034125,5.21294896523e-05  
achieve 1.0,0.0,6.82500682501e-05,0.0  
melissa 3.0,0.0,0.00020475020475,0.0  
meant 1.0,0.0,6.82500682501e-05,0.0  
7394 1.0,0.0,6.82500682501e-05,0.0  
handle 0.0,1.0,0.0,5.21294896523e-05  
listened 1.0,0.0,6.82500682501e-05,0.0  
bonds 6.0,0.0,0.0004095004095,0.0  
succeeded 1.0,0.0,6.82500682501e-05,0.0  
zaak 0.0,2.0,0.0,0.000104258979305

999 2.0,1.0,0.0001365001365,5.21294896523e-05  
hire 2.0,0.0,0.0001365001365,0.0  
bear 2.0,2.0,0.0001365001365,0.000104258979305  
120 0.0,1.0,0.0,5.21294896523e-05  
joint 0.0,1.0,0.0,5.21294896523e-05  
122 0.0,1.0,0.0,5.21294896523e-05  
123 0.0,3.0,0.0,0.000156388468957  
3405 2.0,0.0,0.0001365001365,0.0  
3404 1.0,0.0,0.6.82500682501e-05,0.0  
126 0.0,2.0,0.0,0.000104258979305  
coordinating 1.0,0.0,0.6.82500682501e-05,0.0  
timing 1.0,0.0,0.6.82500682501e-05,0.0  
illustrator 0.0,2.0,0.0,0.000104258979305  
exultant 0.0,1.0,0.0,5.21294896523e-05  
procedures 3.0,0.0,0.00020475020475,0.0  
generalist 1.0,0.0,0.6.82500682501e-05,0.0  
areas 2.0,1.0,0.0001365001365,5.21294896523e-05  
gray 2.0,0.0,0.0001365001365,0.0  
evolution 1.0,0.0,0.6.82500682501e-05,0.0  
sounds 1.0,0.0,0.6.82500682501e-05,0.0  
tobacco 0.0,2.0,0.0,0.000104258979305  
shopping 0.0,5.0,0.0,0.000260647448261  
encounters 0.0,1.0,0.0,5.21294896523e-05  
eyebrow 0.0,2.0,0.0,0.000104258979305  
tuned 1.0,0.0,0.6.82500682501e-05,0.0  
peel 0.0,2.0,0.0,0.000104258979305  
felipe 2.0,0.0,0.0001365001365,0.0  
aec 2.0,0.0,0.0001365001365,0.0  
stuff 3.0,1.0,0.00020475020475,5.21294896523e-05  
processed 0.0,2.0,0.0,0.000104258979305  
tricky 0.0,1.0,0.0,5.21294896523e-05  
protesting 1.0,0.0,0.6.82500682501e-05,0.0  
lamproite 0.0,2.0,0.0,0.000104258979305  
fixed 0.0,1.0,0.0,5.21294896523e-05  
gibson 1.0,0.0,0.6.82500682501e-05,0.0  
view 5.0,6.0,0.00034125034125,0.000312776937914  
btu 2.0,0.0,0.0001365001365,0.0  
europe 0.0,1.0,0.0,5.21294896523e-05  
requirement 0.0,1.0,0.0,5.21294896523e-05  
official 1.0,0.0,0.6.82500682501e-05,0.0

ebl 1.0,0.0,6.82500682501e-05,0.0  
frame 0.0,1.0,0.0,5.21294896523e-05  
screwball 0.0,1.0,0.0,5.21294896523e-05  
module 1.0,0.0,6.82500682501e-05,0.0  
freeze 3.0,0.0,0.00020475020475,0.0  
edition 0.0,5.0,0.0,0.000260647448261  
computer 0.0,7.0,0.0,0.000364906427566  
multipart 0.0,1.0,0.0,5.21294896523e-05  
desperate 0.0,1.0,0.0,5.21294896523e-05  
ebs 1.0,0.0,6.82500682501e-05,0.0  
terms 5.0,0.0,0.00034125034125,0.0  
reversed 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
responses 0.0,8.0,0.0,0.000417035917218  
closer 1.0,0.0,6.82500682501e-05,0.0  
phases 2.0,0.0,0.0001365001365,0.0  
puts 1.0,0.0,6.82500682501e-05,0.0  
stats 2.0,0.0,0.0001365001365,0.0  
wa 0.0,2.0,0.0,0.000104258979305  
record 2.0,0.0,0.0001365001365,0.0  
snooping 0.0,1.0,0.0,5.21294896523e-05  
clearing 0.0,1.0,0.0,5.21294896523e-05  
nature 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
below 7.0,9.0,0.00047775047775,0.000469165406871  
mcrafferity 1.0,0.0,6.82500682501e-05,0.0  
superb 0.0,1.0,0.0,5.21294896523e-05  
2666 1.0,0.0,6.82500682501e-05,0.0  
discounts 0.0,1.0,0.0,5.21294896523e-05  
state 26.0,4.0,0.0017745017745,0.000208517958609  
closed 1.0,0.0,6.82500682501e-05,0.0  
niestrath 1.0,0.0,6.82500682501e-05,0.0  
winners 0.0,2.0,0.0,0.000104258979305  
progress 2.0,0.0,0.0001365001365,0.0  
boundary 0.0,1.0,0.0,5.21294896523e-05  
gemstone 0.0,1.0,0.0,5.21294896523e-05  
email 6.0,40.0,0.0004095004095,0.00208517958609  
bought 2.0,1.0,0.0001365001365,5.21294896523e-05  
industries 0.0,1.0,0.0,5.21294896523e-05  
ends 1.0,0.0,6.82500682501e-05,0.0  
george 9.0,0.0,0.000614250614251,0.0  
ability 0.0,2.0,0.0,0.000104258979305

39510 2.0,0.0,0.0001365001365,0.0  
opening 3.0,1.0,0.00020475020475,5.21294896523e-05  
amadol 0.0,2.0,0.0,0.000104258979305  
deliver 1.0,0.0,6.82500682501e-05,0.0  
freelinksnetwork 0.0,4.0,0.0,0.000208517958609  
amex 0.0,1.0,0.0,5.21294896523e-05  
job 3.0,0.0,0.00020475020475,0.0  
takeover 2.0,0.0,0.0001365001365,0.0  
queensland 0.0,2.0,0.0,0.000104258979305  
joe 1.0,0.0,6.82500682501e-05,0.0  
key 9.0,1.0,0.000614250614251,5.21294896523e-05  
intermediary 0.0,2.0,0.0,0.000104258979305  
approval 0.0,1.0,0.0,5.21294896523e-05  
precious 0.0,1.0,0.0,5.21294896523e-05  
configuration 0.0,1.0,0.0,5.21294896523e-05  
swift 2.0,0.0,0.0001365001365,0.0  
distribution 3.0,0.0,0.00020475020475,0.0  
jon 1.0,0.0,6.82500682501e-05,0.0  
tejones 2.0,0.0,0.0001365001365,0.0  
restrictions 1.0,0.0,6.82500682501e-05,0.0  
figured 1.0,0.0,6.82500682501e-05,0.0  
never 1.0,6.0,6.82500682501e-05,0.000312776937914  
site 5.0,55.0,0.00034125034125,0.00286712193088  
admin 0.0,1.0,0.0,5.21294896523e-05  
taking 2.0,2.0,0.0001365001365,0.000104258979305  
vasant 5.0,0.0,0.00034125034125,0.0  
sponsorship 0.0,9.0,0.0,0.000469165406871  
drug 0.0,1.0,0.0,5.21294896523e-05  
pulp 1.0,0.0,6.82500682501e-05,0.0  
assure 4.0,0.0,0.000273000273,0.0  
forthis 0.0,1.0,0.0,5.21294896523e-05  
streams 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
claiis 0.0,1.0,0.0,5.21294896523e-05  
stratton 1.0,0.0,6.82500682501e-05,0.0  
cernosek 1.0,0.0,6.82500682501e-05,0.0  
rodney 1.0,0.0,6.82500682501e-05,0.0  
safely 0.0,2.0,0.0,0.000104258979305  
ll 2.0,21.0,0.0001365001365,0.0010947192827  
jersey 1.0,0.0,6.82500682501e-05,0.0  
otherwise 1.0,0.0,6.82500682501e-05,0.0

cj 0.0,5.0,0.0,0.000260647448261  
jim 1.0,2.0,6.82500682501e-05,0.000104258979305  
co 3.0,2.0,0.00020475020475,0.000104258979305  
huang 4.0,0.0,0.000273000273,0.0  
gone 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
cc 40.0,0.0,0.00273000273,0.0  
34357 1.0,0.0,6.82500682501e-05,0.0  
ca 6.0,0.0,0.0004095004095,0.0  
wonder 0.0,2.0,0.0,0.000104258979305  
brennan 2.0,0.0,0.0001365001365,0.0  
running 2.0,5.0,0.0001365001365,0.000260647448261  
subscribe 0.0,7.0,0.0,0.000364906427566  
taylor 4.0,0.0,0.000273000273,0.0  
cs 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
respect 1.0,3.0,6.82500682501e-05,0.000156388468957  
allocated 2.0,0.0,0.0001365001365,0.0  
cp 1.0,0.0,6.82500682501e-05,0.0  
735670 1.0,0.0,6.82500682501e-05,0.0  
2807 1.0,0.0,6.82500682501e-05,0.0  
600 0.0,1.0,0.0,5.21294896523e-05  
amigo 0.0,1.0,0.0,5.21294896523e-05  
trunk 0.0,2.0,0.0,0.000104258979305  
mailman 0.0,3.0,0.0,0.000156388468957  
second 1.0,3.0,6.82500682501e-05,0.000156388468957  
crapbedspring 0.0,1.0,0.0,5.21294896523e-05  
addition 5.0,0.0,0.00034125034125,0.0  
softwares 0.0,2.0,0.0,0.000104258979305  
holidays 2.0,0.0,0.0001365001365,0.0  
charts 2.0,0.0,0.0001365001365,0.0  
cent 1.0,0.0,6.82500682501e-05,0.0  
731 0.0,1.0,0.0,5.21294896523e-05  
offers 0.0,2.0,0.0,0.000104258979305  
growth 0.0,4.0,0.0,0.000208517958609  
agreements 3.0,0.0,0.00020475020475,0.0  
olson 2.0,0.0,0.0001365001365,0.0  
certain 1.0,0.0,6.82500682501e-05,0.0  
738 1.0,0.0,6.82500682501e-05,0.0  
hottest 0.0,1.0,0.0,5.21294896523e-05  
columnar 0.0,1.0,0.0,5.21294896523e-05  
suggestions 0.0,5.0,0.0,0.000260647448261

killed 0.0,2.0,0.0,0.000104258979305  
yesterdays 1.0,0.0,6.82500682501e-05,0.0  
soma 0.0,1.0,0.0,5.21294896523e-05  
mike 11.0,0.0,0.000750750750751,0.0  
neuweiler 2.0,0.0,0.0001365001365,0.0  
controlled 0.0,2.0,0.0,0.000104258979305  
received 3.0,2.0,0.00020475020475,0.000104258979305  
lock 2.0,0.0,0.0001365001365,0.0  
609 0.0,1.0,0.0,5.21294896523e-05  
vince 17.0,0.0,0.00116025116025,0.0  
otc 1.0,0.0,6.82500682501e-05,0.0  
concernig 2.0,0.0,0.0001365001365,0.0  
1200 2.0,0.0,0.0001365001365,0.0  
5555 2.0,0.0,0.0001365001365,0.0  
reliantenergy 3.0,0.0,0.00020475020475,0.0  
finished 1.0,5.0,6.82500682501e-05,0.000260647448261  
ensuring 0.0,2.0,0.0,0.000104258979305  
bull 0.0,1.0,0.0,5.21294896523e-05  
hme 0.0,1.0,0.0,5.21294896523e-05  
fellow 0.0,1.0,0.0,5.21294896523e-05  
6484 0.0,1.0,0.0,5.21294896523e-05  
homes 0.0,2.0,0.0,0.000104258979305  
factual 1.0,0.0,6.82500682501e-05,0.0  
couple 0.0,2.0,0.0,0.000104258979305  
survey 0.0,3.0,0.0,0.000156388468957  
discretely 0.0,1.0,0.0,5.21294896523e-05  
overuse 0.0,1.0,0.0,5.21294896523e-05  
plain 0.0,4.0,0.0,0.000208517958609  
means 2.0,4.0,0.0001365001365,0.000208517958609  
paidtosurf 0.0,2.0,0.0,0.000104258979305  
appearance 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
examine 0.0,3.0,0.0,0.000156388468957  
value 3.0,8.0,0.00020475020475,0.000417035917218  
specifically 0.0,4.0,0.0,0.000208517958609  
persists 1.0,0.0,6.82500682501e-05,0.0  
ryanmcgeachie 1.0,0.0,6.82500682501e-05,0.0  
readies 0.0,1.0,0.0,5.21294896523e-05  
hearers 0.0,1.0,0.0,5.21294896523e-05  
usb 0.0,1.0,0.0,5.21294896523e-05  
fault 1.0,0.0,6.82500682501e-05,0.0

hubs 3.0,0.0,0.00020475020475,0.0  
intranet 3.0,0.0,0.00020475020475,0.0  
1517 1.0,0.0,6.82500682501e-05,0.0  
instantly 0.0,2.0,0.0,0.000104258979305  
screening 0.0,1.0,0.0,5.21294896523e-05  
thunder 0.0,1.0,0.0,5.21294896523e-05  
surfola 0.0,4.0,0.0,0.000208517958609  
supply 3.0,1.0,0.00020475020475,5.21294896523e-05  
xpress 0.0,1.0,0.0,5.21294896523e-05  
soap 0.0,2.0,0.0,0.000104258979305  
nero 0.0,1.0,0.0,5.21294896523e-05  
wbom 1.0,0.0,6.82500682501e-05,0.0  
almost 0.0,3.0,0.0,0.000156388468957  
vi 0.0,2.0,0.0,0.000104258979305  
murphy 1.0,0.0,6.82500682501e-05,0.0  
vzxoaxqhg 0.0,1.0,0.0,5.21294896523e-05  
thus 1.0,0.0,6.82500682501e-05,0.0  
prosper 0.0,3.0,0.0,0.000156388468957  
wife 0.0,3.0,0.0,0.000156388468957  
hardware 0.0,1.0,0.0,5.21294896523e-05  
savings 0.0,1.0,0.0,5.21294896523e-05  
arrangements 0.0,3.0,0.0,0.000156388468957  
optimistic 1.0,0.0,6.82500682501e-05,0.0  
lifetime 0.0,1.0,0.0,5.21294896523e-05  
claimed 0.0,1.0,0.0,5.21294896523e-05  
partner 0.0,4.0,0.0,0.000208517958609  
secrets 0.0,5.0,0.0,0.000260647448261  
stands 0.0,1.0,0.0,5.21294896523e-05  
terrorist 0.0,1.0,0.0,5.21294896523e-05  
impossible 0.0,1.0,0.0,5.21294896523e-05  
generic 0.0,6.0,0.0,0.000312776937914  
solely 0.0,1.0,0.0,5.21294896523e-05  
began 2.0,4.0,0.0001365001365,0.000208517958609  
administration 3.0,0.0,0.00020475020475,0.0  
cross 3.0,0.0,0.00020475020475,0.0  
attatched 2.0,0.0,0.0001365001365,0.0  
member 0.0,21.0,0.0,0.0010947192827  
thrid 0.0,1.0,0.0,5.21294896523e-05  
when 12.0,21.0,0.000819000819001,0.0010947192827  
parts 0.0,1.0,0.0,5.21294896523e-05

digging 0.0,1.0,0.0,5.21294896523e-05  
largest 0.0,2.0,0.0,0.000104258979305  
hendricks 0.0,2.0,0.0,0.000104258979305  
party 2.0,1.0,0.0001365001365,5.21294896523e-05  
upgradeable 0.0,3.0,0.0,0.000156388468957  
gets 0.0,3.0,0.0,0.000156388468957  
takriti 5.0,0.0,0.00034125034125,0.0  
privileged 1.0,0.0,6.82500682501e-05,0.0  
difficult 1.0,4.0,6.82500682501e-05,0.000208517958609  
tree 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
killer 0.0,1.0,0.0,5.21294896523e-05  
http 3.0,62.0,0.00020475020475,0.00323202835844  
raymond 7.0,0.0,0.00047775047775,0.0  
solved 0.0,1.0,0.0,5.21294896523e-05  
absorb 0.0,1.0,0.0,5.21294896523e-05  
conceived 0.0,1.0,0.0,5.21294896523e-05  
upon 2.0,7.0,0.0001365001365,0.000364906427566  
effect 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
forecasts 0.0,2.0,0.0,0.000104258979305  
ion 0.0,1.0,0.0,5.21294896523e-05  
started 0.0,3.0,0.0,0.000156388468957  
123395 1.0,0.0,6.82500682501e-05,0.0  
emeet 1.0,0.0,6.82500682501e-05,0.0  
kaolin 0.0,1.0,0.0,5.21294896523e-05  
vault 0.0,1.0,0.0,5.21294896523e-05  
frequently 0.0,1.0,0.0,5.21294896523e-05  
toll 0.0,3.0,0.0,0.000156388468957  
laborious 0.0,1.0,0.0,5.21294896523e-05  
judgment 1.0,0.0,6.82500682501e-05,0.0  
lobby 1.0,0.0,6.82500682501e-05,0.0  
francisco 1.0,0.0,6.82500682501e-05,0.0  
kimberley 0.0,3.0,0.0,0.000156388468957  
audit 3.0,0.0,0.00020475020475,0.0  
valeria 1.0,0.0,6.82500682501e-05,0.0  
transaction 1.0,4.0,6.82500682501e-05,0.000208517958609  
discounted 0.0,1.0,0.0,5.21294896523e-05  
center 3.0,10.0,0.00020475020475,0.000521294896523  
mention 0.0,3.0,0.0,0.000156388468957  
i 129.0,140.0,0.00880425880426,0.00729812855132  
adapted 0.0,1.0,0.0,5.21294896523e-05

colour 0.0,1.0,0.0,5.21294896523e-05  
incredible 0.0,1.0,0.0,5.21294896523e-05  
desmeules 1.0,0.0,6.82500682501e-05,0.0  
banging 0.0,1.0,0.0,5.21294896523e-05  
nebulous 1.0,0.0,6.82500682501e-05,0.0  
thought 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
procurement 2.0,0.0,0.0001365001365,0.0  
lagrasta 1.0,0.0,6.82500682501e-05,0.0  
vincent 5.0,0.0,0.00034125034125,0.0  
corporation 2.0,2.0,0.0001365001365,0.000104258979305  
dronn 1.0,0.0,6.82500682501e-05,0.0  
odlx 0.0,1.0,0.0,5.21294896523e-05  
audio 0.0,2.0,0.0,0.000104258979305  
thuraisingham 6.0,0.0,0.0004095004095,0.0  
drawing 2.0,3.0,0.0001365001365,0.000156388468957  
ph 1.0,2.0,6.82500682501e-05,0.000104258979305  
restore 0.0,1.0,0.0,5.21294896523e-05  
45 5.0,1.0,0.00034125034125,5.21294896523e-05  
carrie 0.0,1.0,0.0,5.21294896523e-05  
subscribers 0.0,1.0,0.0,5.21294896523e-05  
less 7.0,13.0,0.00047775047775,0.00067768336548  
increasingly 1.0,0.0,6.82500682501e-05,0.0  
oak 0.0,1.0,0.0,5.21294896523e-05  
accurate 1.0,0.0,6.82500682501e-05,0.0  
executive 6.0,0.0,0.0004095004095,0.0  
domestic 0.0,1.0,0.0,5.21294896523e-05  
obtain 1.0,3.0,6.82500682501e-05,0.000156388468957  
saave 0.0,7.0,0.0,0.000364906427566  
detail 0.0,2.0,0.0,0.000104258979305  
not 45.0,81.0,0.00307125307125,0.00422248866184  
books 0.0,2.0,0.0,0.000104258979305  
advertised 0.0,1.0,0.0,5.21294896523e-05  
years 17.0,5.0,0.00116025116025,0.000260647448261  
paul 0.0,2.0,0.0,0.000104258979305  
keen 1.0,0.0,6.82500682501e-05,0.0  
recommend 1.0,0.0,6.82500682501e-05,0.0  
coordination 3.0,0.0,0.00020475020475,0.0  
to 398.0,566.0,0.0271635271635,0.0295052911432  
adv 0.0,1.0,0.0,5.21294896523e-05  
web 1.0,22.0,6.82500682501e-05,0.00114684877235

sankoh 0.0,3.0,0.0,0.000156388468957  
mircosoft 0.0,1.0,0.0,5.21294896523e-05  
adr 1.0,0.0,6.82500682501e-05,0.0  
ads 0.0,5.0,0.0,0.000260647448261  
density 0.0,1.0,0.0,5.21294896523e-05  
officially 3.0,0.0,0.00020475020475,0.0  
investor 1.0,0.0,6.82500682501e-05,0.0  
baccarat 0.0,1.0,0.0,5.21294896523e-05  
smith 6.0,1.0,0.0004095004095,5.21294896523e-05  
deposits 0.0,2.0,0.0,0.000104258979305  
capabilities 1.0,0.0,6.82500682501e-05,0.0  
day 13.0,9.0,0.000887250887251,0.000469165406871  
arrest 0.0,4.0,0.0,0.000208517958609  
add 2.0,10.0,0.0001365001365,0.000521294896523  
gmx 0.0,2.0,0.0,0.000104258979305  
attractive 1.0,1.0,6.82500682501e-05,5.21294896523e-05  
kwh 2.0,0.0,0.0001365001365,0.0  
69545 1.0,0.0,6.82500682501e-05,0.0  
tax 0.0,1.0,0.0,5.21294896523e-05  
adm 1.0,0.0,6.82500682501e-05,0.0  
accomodate 4.0,0.0,0.000273000273,0.0  
kick 1.0,0.0,6.82500682501e-05,0.0  
divided 1.0,0.0,6.82500682501e-05,0.0  
resolved 1.0,0.0,6.82500682501e-05,0.0  
washing 0.0,4.0,0.0,0.000208517958609  
amb 0.0,2.0,0.0,0.000104258979305  
akkabay 0.0,4.0,0.0,0.000208517958609  
increased 0.0,5.0,0.0,0.000260647448261  
disappearance 0.0,1.0,0.0,5.21294896523e-05  
checking 1.0,3.0,6.82500682501e-05,0.000156388468957  
fyi 6.0,0.0,0.0004095004095,0.0  
teleseminar 0.0,2.0,0.0,0.000104258979305  
fyl 2.0,0.0,0.0001365001365,0.0  
vs 2.0,0.0,0.0001365001365,0.0  
263 0.0,2.0,0.0,0.000104258979305  
increases 2.0,0.0,0.0001365001365,0.0  
260 0.0,2.0,0.0,0.000104258979305  
five 1.0,3.0,6.82500682501e-05,0.000156388468957  
harbour 1.0,0.0,6.82500682501e-05,0.0  
desk 8.0,4.0,0.000546000546001,0.000208517958609

belgium 0.0,1.0,0.0,5.21294896523e-05  
immediately 3.0,19.0,0.00020475020475,0.000990460303394  
password 4.0,1.0,0.000273000273,5.21294896523e-05  
you 100.0,345.0,0.00682500682501,0.01798467393  
muscle 0.0,2.0,0.0,0.000104258979305  
paying 3.0,0.0,0.00020475020475,0.0  
loss 0.0,1.0,0.0,5.21294896523e-05  
trash 0.0,1.0,0.0,5.21294896523e-05  
emma 1.0,0.0,6.82500682501e-05,0.0  
helpful 2.0,0.0,0.0001365001365,0.0  
excluding 2.0,0.0,0.0001365001365,0.0  
miami 0.0,1.0,0.0,5.21294896523e-05  
alternatively 0.0,1.0,0.0,5.21294896523e-05  
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lose 0.0,2.0,0.0,0.000104258979305  
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become 0.0,6.0,0.0,0.000312776937914  
georgel 0.0,2.0,0.0,0.000104258979305  
roibot 0.0,3.0,0.0,0.000156388468957  
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exceed 0.0,1.0,0.0,5.21294896523e-05  
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stad 0.0,1.0,0.0,5.21294896523e-05  
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promise 0.0,1.0,0.0,5.21294896523e-05  
female 0.0,3.0,0.0,0.000156388468957

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Pr(HAM|0009.1999-12-14.farmer) -583.142993324  
Pr(HAM|0009.2000-06-07.lokay) -2738.08735229  
Pr(HAM|0009.2001-02-09.kitchen) -5750.65837183  
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Pr(HAM|0011.2001-06-29.SA\_and\_HP) -17810.8122678  
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Pr(SPAM|0002.2004-08-01.BG) -839.697954598  
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Pr(SPAM|0004.2004-08-01.BG) -803.15190318

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Pr(SPAM|0007.2001-02-09.kitchen) -1794.51358189  
Pr(SPAM|0007.2003-12-18.GP) -1271.30875548  
Pr(SPAM|0007.2004-08-01.BG) -1471.48305771  
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Pr(SPAM|0008.2001-06-25.SA\_and\_HP) -4439.82267612  
Pr(SPAM|0008.2003-12-18.GP) -1023.01166417  
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Pr(SPAM|0009.2001-02-09.kitchen) -6373.79594454  
Pr(SPAM|0009.2001-06-26.SA\_and\_HP) -1282.01451509  
Pr(SPAM|0009.2003-12-18.GP) -776.934461371  
Pr(SPAM|0010.1999-12-14.farmer) -1772.05480386  
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Pr(SPAM|0010.2001-02-09.kitchen) -3466.78010863  
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Pr(SPAM|0011.1999-12-14.farmer) -2054.66215703  
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Pr(SPAM|0012.2003-12-19.GP) -152.925650902  
Pr(SPAM|0013.1999-12-14.farmer) -1945.37910133  
Pr(SPAM|0013.1999-12-14.kaminski) -1592.62384436  
Pr(SPAM|0013.2001-04-03.williams) -680.29069998  
Pr(SPAM|0013.2001-06-30.SA\_and\_HP) -28826.9738821  
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Pr(SPAM|0014.2003-12-19.GP) -168.284132784  
Pr(SPAM|0014.2004-08-01.BG) -828.829544137  
Pr(SPAM|0015.1999-12-14.kaminski) -741.751638219  
Pr(SPAM|0015.1999-12-15.farmer) -951.418149767  
Pr(SPAM|0015.2000-06-09.lokay) -143.10999154  
Pr(SPAM|0015.2001-02-12.kitchen) -5454.73472548  
Pr(SPAM|0015.2001-07-05.SA\_and\_HP) -930.737323297  
Pr(SPAM|0015.2003-12-19.GP) -1324.99338245  
Pr(SPAM|0016.1999-12-15.farmer) -782.558517228  
Pr(SPAM|0016.2001-02-12.kitchen) -1340.73595471  
Pr(SPAM|0016.2001-07-05.SA\_and\_HP) -930.737323297  
Pr(SPAM|0016.2001-07-06.SA\_and\_HP) -17015.8597279  
Pr(SPAM|0016.2003-12-19.GP) -797.918913964  
Pr(SPAM|0016.2004-08-01.BG) -658.644226185  
Pr(SPAM|0017.1999-12-14.kaminski) -382.810769189  
Pr(SPAM|0017.2000-01-17.beck) -3389.10281317  
Pr(SPAM|0017.2001-04-03.williams) -450.339851081  
Pr(SPAM|0017.2003-12-18.GP) -207.57093524  
Pr(SPAM|0017.2004-08-01.BG) -925.831833298  
Pr(SPAM|0017.2004-08-02.BG) -2652.58212495  
Pr(SPAM|0018.1999-12-14.kaminski) -1001.74022517  
Pr(SPAM|0018.2001-07-13.SA\_and\_HP) -3350.25793529  
Pr(SPAM|0018.2003-12-18.GP) -3486.6829265  
errorRate 2  
totalDocs 100

```
zeroProbs 10460
```

## Show the histograms of my results

```
In [ ]: #HW1.3
import matplotlib.pyplot as plt
from numpy.random import normal
# read data from a text file. One number per line
SPAM = "/Users/z013hnv/Homework1/ENSPAMoutput.txt"
HAM = "/Users/z013hnv/Homework1/ENHAMoutput.txt"
datos_SPAM = []
datos_HAM = []
for item in open(SPAM, 'r'):
    item = item.strip()
    if item != '':
        try:
            datos_SPAM.append(float(item))
        except ValueError:
            pass
for item in open(HAM, 'r'):
    item = item.strip()
    if item != '':
        try:
            datos_HAM.append(float(item))
        except ValueError:
            pass
plt.hist(datos_SPAM, bins=20, histtype='stepfilled', color='b', label='SPAM')
plt.hist(datos_HAM, bins=20, histtype='stepfilled', color='r', label='HAM', alpha=0.5)
plt.title("SPAM/HAM Histogram")
plt.xlabel("Value")
plt.ylabel("Frequency")
plt.legend()
plt.show()
```

## HW1.4: Multinomial Naive Bayes with Smoothing

HW1.4.0: Repeat HW1.3 with the following modification: use Laplace plus-one smoothing. Compare the misclassification error rates for HW1.3 versus HW1.4 and explain the differences.

For a quick reference on the construction of the Multinomial NAIVE BAYES classifier that you will code, please consult the "Document Classification" section of the following wikipedia page:

[https://en.wikipedia.org/wiki/Naive\\_Bayes\\_classifier#Document\\_classification](https://en.wikipedia.org/wiki/Naive_Bayes_classifier#Document_classification)  
[\(https://en.wikipedia.org/wiki/Naive\\_Bayes\\_classifier#Document\\_classification\)](https://en.wikipedia.org/wiki/Naive_Bayes_classifier#Document_classification)

OR the original paper by the curators of the Enron email data:

[http://www.aueb.gr/users/ion/docs/ceas2006\\_paper.pdf](http://www.aueb.gr/users/ion/docs/ceas2006_paper.pdf) ([http://www.aueb.gr/users/ion/docs/ceas2006\\_paper.pdf](http://www.aueb.gr/users/ion/docs/ceas2006_paper.pdf))

In [ ]:

```
#HW1.4
%%writefile MRNaiveBayesTrainerEN_LP1.py

from mrjob.job import MRJob
import sys, re, string, operator

class MRNaiveBayesTrainerEN_LP1(MRJob):

    def __init__(self, *args, **kwargs):
        super(MRNaiveBayesTrainerEN_LP1, self).__init__(*args, **kwargs)
        self.modelStats = {}

    def jobconf(self):
        orig_jobconf = super(MRNaiveBayesTrainerEN_LP1, self).jobconf()
        custom_jobconf = {
            'mapred.reduce.tasks': '1',
        }
        combined_jobconf = orig_jobconf
        combined_jobconf.update(custom_jobconf)
        self.jobconf = combined_jobconf
        return combined_jobconf

    def mapper(self, _, line):
        dateName, docClass, text = line.split("\t",2)
        regex = re.compile('[%s]' % re.escape(string.punctuation))
        line = regex.sub(' ', str(line).lower())
        line = re.sub( '\s+', ' ', line )

        words = line.split()                                # split the line into wo
rds

        if docClass == "1":
            yield("MarksPriors", "0,1")
            for word in words:
                yield(word, "0,1")
        else:
            yield("MarksPriors", "1,0")
            for word in words:
                yield(word, "1,0")
```

```

def reducer(self, word, values):
    w0Total=0
    w1Total=0
    for value in values:
        w0, w1 = value.split(",")
        w0Total += float(w0)
        w1Total += float(w1)
    self.modelStats[word] = [w0Total, w1Total]

def reducer_final(self):
    #print self.modelStats

    class0Total = 0
    class1Total = 0
    for k in self.modelStats.keys():
        if k != "MarksPriors":
            class0Total += self.modelStats[k][0]
            class1Total += self.modelStats[k][1]
    vocabularySize = len(self.modelStats.keys()) - 1 #ignore MarksPriors
    yield ("defaultPrior0class", class0Total+vocabularySize)
    yield ("defaultPrior1class", class1Total+vocabularySize)
    yield ("count0class", class0Total)
    yield ("count1class", class1Total)
    yield ("vocabularySize", vocabularySize)
    #calculate priors
    classCount0, classCount1 = self.modelStats.get("MarksPriors")
    del self.modelStats["MarksPriors"]
    total = classCount0 + classCount1
    yield("MarksPriors", ',' .join(str(j) for j in [classCount0, classCount1, classCount0/total,
                                                    classCount1/total]))
    for k in self.modelStats.keys():
        yield(k, ',' .join(str(j) for j in [self.modelStats[k][0],
                                              self.modelStats[k][1],
                                              (self.modelStats[k][0] + 1) /(class0Total + vocabularySize),
                                              (self.modelStats[k][1] +1)/(class1Total+vocabularySize)]))

```

```
if __name__ == '__main__':
    MRNaiveBayesTrainerEN_LP1.run()
```

In [ ]:

```
#HW1.4
%reload_ext autoreload
%autoreload 2

from numpy import random
from MRNaiveBayesTrainerEN_LP1 import MRNaiveBayesTrainerEN_LP1
from MRNaiveBayesClassifierEN import MRNaiveBayesClassifierEN

# STEP 1: Train a multinomial Naive Bayes

mr_job = MRNaiveBayesTrainerEN_LP1(args=['enronemail_1h.txt'])
modelStats={}
with mr_job.make_runner() as runner:
    runner.run()
    # stream_output: get access of the output
    for line in runner.stream_output():
        key,value = mr_job.parse_output_line(line)
        print key, value
        modelStats[key] = value

    # Create the model txt file
    with open('/Users/z013hnv/Homework1/ENmodel.txt', 'w') as f:
        for k in modelStats.keys():
            f.writelines( k + "\t" + str(modelStats[k]) + "\n")

# STEP 2: Classify data with newly trained model

mr_job = MRNaiveBayesClassifierEN(args=['enronemail_1h.txt',
                                         '--file=/Users/z013hnv/Homework1/ENmodel.txt'])
classifierResults={}
with mr_job.make_runner() as runner:
    runner.run()
    # stream_output: get access of the output
    for line in runner.stream_output():
        key,value = mr_job.parse_output_line(line)
        print key, value
        classifierResults[key] = value

    with open('/Users/z013hnv/Homework1/ENSPAMoutput.txt', 'w') as f:
        for k in classifierResults.keys():
```

```
if k.find('SPAM') == 3:  
    f.writelines(str(classifierResults[k]) + "\n")  
with open('/Users/z013hnv/Homework1/ENHAMoutput.txt', 'w') as g:  
    for k in classifierResults.keys():  
        if k.find('HAM') == 3:  
            g.writelines(str(classifierResults[k]) + "\n")
```

```
In [ ]: #HW1.4  
import matplotlib.pyplot as plt  
from numpy.random import normal  
# read data from a text file. One number per line  
SPAM = "/Users/z013hnv/Homework1/ENSPAMoutput.txt"  
HAM = "/Users/z013hnv/Homework1/ENHAMoutput.txt"  
datos_SPAM = []  
datos_HAM = []  
for item in open(SPAM, 'r'):  
    item = item.strip()  
    if item != '':  
        try:  
            datos_SPAM.append(float(item))  
        except ValueError:  
            pass  
for item in open(HAM, 'r'):  
    item = item.strip()  
    if item != '':  
        try:  
            datos_HAM.append(float(item))  
        except ValueError:  
            pass  
plt.hist(datos_SPAM, bins=10, histtype='stepfilled', color='b', label='SPAM')  
plt.hist(datos_HAM, bins=10, histtype='stepfilled', color='r', label='HAM', alpha=0.5)  
plt.title("SPAM/HAM Histogram")  
plt.xlabel("Value")  
plt.ylabel("Frequency")  
plt.legend()  
plt.show()
```

## HW 1.4.1 Jelinek-Mercer (JM) smoothing\*

With different smoothing methods,  $p(w_k|c_i)$  (i.e., the word class conditionals) will be computed differently. We consider Jelinek-Mercer (JM) smoothing as an alternative to Laplace. Let  $c(w, c_i)$  denote the frequency of word  $w$  in category  $c_i$ ,  $p(w|C)$  be the maximum likelihood estimation of word  $w$  in collection  $C$  (relative frequency) and let  $|C|$  for  $|c_i|$  denote the length of the class. Then:

1) Jelinek-Mercer (JM) smoothing:  $p_\lambda(w|c_i) = (1 - \lambda) * c(w, c_i)/|C| + \lambda p(w|C)$

where  $\lambda = 0.3$

$\lambda$  a hyperparameter for the Jelinek-Mercer (JM) smoothing that gives more (or less) credit to the background model  $p(w|C)$  or to the foreground model

Repleat HW 1.4.0 with Jelinek-Mercer (JM) smoothing. Present a nice table comparing results where each row is the approach taken (Multinomial Naive Bayes with Laplace+1, or Multinomial Naive Bayes with JM) and the column is error rate.

### ***Changes made by Jimi below***

HW 1.4.1 Jelinek-Mercer (JM) smoothing\*

With different smoothing methods,  $p(w_k|c_i)$  (i.e., the word class conditionals) will be computed differently. We consider Jelinek-Mercer (JM) smoothing as an alternative to Laplace. Let  $c(w, c_i)$  denote the frequency of word  $w$  in category  $c_i$ ,  $p(w|C)$  be the maximum likelihood estimation of word  $w$  in collection  $C$  (relative frequency) and let  $|C|$  for  $|c_i|$  denote the length of the class. Then:

1) Jelinek-Mercer (JM) smoothing:  $\lambda p(w|c_i) = (1 - \lambda) * c(w, c_i)/\text{sum\_over\_wJ\_in\_V}(c(wJ, ci)) + \lambda p(w|C)$

Where  $c(w, c_i)/\text{sum\_over\_wJ\_in\_V}(c(wJ, ci))$  essential denotes the relative frequency of word  $w$  in class  $c_i$ , i.e.,  $\Pr(w|c_i)$  and one can set  $\lambda = 0.3$  by default.

HW 1.4.1 - I couldn't figure out what to do with this equation you wrote.

## HW1.4.2 Split data in to training, validation and testing data subsets

Split the data using MRJob into three subsets in the following proportions (70% for training, 15% for validation, and 15% for testing). Train Multinomial Naive Bayes classifiers using Laplace plus-one smoothing and using Jelinek-Mercer (JM) smoothing where you consider different hyperparameter values for  $\lambda$ . Please consider  $\lambda$  in  $\{0.0, 0.1, 0.3, 0.5, 0.7, 1\}$ . Present a table compare the results of the different approaches: each row is the approach taken (e.g., Multinomial Naive Bayes with Laplace+1, or Multinomial Naive Bayes with JM= 0.3 for  $\lambda = 0.3$ ) and a column for error rate on the training, validation and test data sets. Present a graph also (in python) consisting of three curves (where the x-axis represents the approach taken and the y-axis represents the error rate). Dont forget to put a good title on your graph!

Looking the validation curve select the best model. How does it perform on the unseen test set? Comment.

- REFERENCES
  - <http://www.ntu.edu.sg/home/gaocong/papers/wpp095-yuan.pdf> (<http://www.ntu.edu.sg/home/gaocong/papers/wpp095-yuan.pdf>)

In [17]:

```
#HW1.4.2
%reload_ext autoreload
%autoreload 2

import numpy as np
from MRNaiveBayesTrainerEN import MRNaiveBayesTrainerEN
from MRNaiveBayesClassifierEN import MRNaiveBayesClassifierEN

# STEP 1: Train a multinomial Naive Bayes

recordStrs = [s.split('\n') for s in open("/Users/z013hnv/Homework1/enronemail_1h.txt").readlines()]
line_count = len(recordStrs)
testSize = .15                                     #choose the size of your training set
valSize = .15 + testSize                           #choose the size of your validation set
jumbled = np.random.permutation(line_count)
testEnd = int(testSize*line_count)
valEnd = int(valSize*line_count)
testSet = jumbled[0:testEnd]
valSet = jumbled[testEnd:valEnd]
trainSet = jumbled[valEnd:]

with open('/Users/z013hnv/Homework1/EN_TRAINING.txt', 'w') as f_train:
    for i in trainSet:
        for token in recordStrs[i]:
            f_train.writelines(str(token))
            f_train.writelines("\n")

with open('/Users/z013hnv/Homework1/EN_VALIDATION.txt', 'w') as f_val:
    for j in valSet:
        for token in recordStrs[j]:
            f_val.writelines(str(token))
            f_val.writelines("\n")

with open('/Users/z013hnv/Homework1/EN_TESTING.txt', 'w') as f_test:
    for k in testSet:
        for token in recordStrs[k]:
            f_test.writelines(str(token))
            f_test.writelines("\n")
```

```
mr_job = MRNaiveBayesTrainerEN(args=[ '/Users/z013hnv/Homework1/EN_TRAINING.txt' ])
modelStats={}
with mr_job.make_runner() as runner:
    runner.run()
    # stream_output: get access of the output
    for line in runner.stream_output():
        key,value = mr_job.parse_output_line(line)
        print key, value
        modelStats[key] = value

    # Create the model txt file
    with open('/Users/z013hnv/Homework1/ENmodel.txt', 'w') as f:
        for k in modelStats.keys():
            f.writelines( k + "\t" + str(modelStats[k]) + "\n" )

# STEP 2: Classify data with newly trained model

mr_job = MRNaiveBayesClassifierEN(args=[ '/Users/z013hnv/Homework1/EN_VALIDATION.txt',
                                         '--file=/Users/z013hnv/Homework1/ENmodel.txt'])
classifierResults={}
with mr_job.make_runner() as runner:
    runner.run()
    # stream_output: get access of the output
    for line in runner.stream_output():
        key,value = mr_job.parse_output_line(line)
        print key, value
        classifierResults[key] = value

    with open('ENSPAMoutput.txt', 'w') as f:
        for k in classifierResults.keys():
            if k.find('SPAM') == 3:
                f.writelines(str(classifierResults[k]) + "\n")
    with open('ENHAMoutput.txt', 'w') as g:
        for k in classifierResults.keys():
            if k.find('HAM') == 3:
                g.writelines(str(classifierResults[k]) + "\n")
```



```
defaultPrior0class 12571.0
defaultPrior1class 16767.0
count0class 8310.0
count1class 12506.0
vocabularySize 4261
MarksPriors 40.0,30.0,0.571428571429,0.428571428571
stock 0.0,2.0,0.0,0.000159923236846
limited 1.0,8.0,0.000120336943442,0.000639692947385
entergyr 1.0,0.0,0.000120336943442,0.0
dynamic 1.0,0.0,0.000120336943442,0.0
externally 0.0,2.0,0.0,0.000159923236846
yellow 0.0,1.0,0.0,7.99616184232e-05
barraged 0.0,1.0,0.0,7.99616184232e-05
protest 2.0,0.0,0.000240673886883,0.0
35782 1.0,0.0,0.000120336943442,0.0
invovled 2.0,0.0,0.000240673886883,0.0
railing 0.0,1.0,0.0,7.99616184232e-05
appetite 0.0,2.0,0.0,0.000159923236846
hate 0.0,4.0,0.0,0.000319846473693
worked 0.0,1.0,0.0,7.99616184232e-05
looking 0.0,4.0,0.0,0.000319846473693
founder 0.0,1.0,0.0,7.99616184232e-05
granting 0.0,1.0,0.0,7.99616184232e-05
turner 1.0,2.0,0.000120336943442,0.000159923236846
7517 0.0,1.0,0.0,7.99616184232e-05
koromah 0.0,2.0,0.0,0.000159923236846
swap 0.0,2.0,0.0,0.000159923236846
whatsoever 0.0,1.0,0.0,7.99616184232e-05
tenacity 0.0,1.0,0.0,7.99616184232e-05
sibilant 0.0,1.0,0.0,7.99616184232e-05
sorry 2.0,0.0,0.000240673886883,0.0
349 0.0,2.0,0.0,0.000159923236846
overpaying 0.0,1.0,0.0,7.99616184232e-05
merchant 1.0,0.0,0.000120336943442,0.0
updated 0.0,1.0,0.0,7.99616184232e-05
collaborate 2.0,0.0,0.000240673886883,0.0
risk 30.0,0.0,0.00361010830325,0.0
taylorja 1.0,0.0,0.000120336943442,0.0
regional 8.0,0.0,0.000962695547533,0.0
knelt 0.0,1.0,0.0,7.99616184232e-05
```

georgia 0.0,1.0,0.0,7.99616184232e-05  
every 0.0,10.0,0.0,0.000799616184232  
affect 0.0,2.0,0.0,0.000159923236846  
multiple 0.0,4.0,0.0,0.000319846473693  
four 2.0,3.0,0.000240673886883,0.000239884855269  
school 0.0,1.0,0.0,7.99616184232e-05  
internally 2.0,0.0,0.000240673886883,0.0  
executing 2.0,0.0,0.000240673886883,0.0  
customizable 0.0,1.0,0.0,7.99616184232e-05  
withers 4.0,0.0,0.000481347773767,0.0  
companies 2.0,3.0,0.000240673886883,0.000239884855269  
solution 0.0,2.0,0.0,0.000159923236846  
xqirzd 0.0,1.0,0.0,7.99616184232e-05  
convenience 1.0,0.0,0.000120336943442,0.0  
casinos 0.0,1.0,0.0,7.99616184232e-05  
suite 2.0,1.0,0.000240673886883,7.99616184232e-05  
299 0.0,1.0,0.0,7.99616184232e-05  
indices 1.0,0.0,0.000120336943442,0.0  
enhance 2.0,0.0,0.000240673886883,0.0  
mongolia 0.0,1.0,0.0,7.99616184232e-05  
heading 0.0,1.0,0.0,7.99616184232e-05  
cyberopps 0.0,1.0,0.0,7.99616184232e-05  
charter 2.0,0.0,0.000240673886883,0.0  
force 0.0,3.0,0.0,0.000239884855269  
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southernenergy 2.0,0.0,0.000240673886883,0.0  
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talks 0.0,1.0,0.0,7.99616184232e-05  
likely 2.0,0.0,0.000240673886883,0.0  
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perfect 1.0,0.0,0.000120336943442,0.0  
n 0.0,9.0,0.0,0.000719654565808  
quite 1.0,1.0,0.000120336943442,7.99616184232e-05  
even 1.0,7.0,0.000120336943442,0.000559731328962  
established 1.0,2.0,0.000120336943442,0.000159923236846  
errors 0.0,5.0,0.0,0.000399808092116

revised 2.0,0.0,0.000240673886883,0.0  
hidd 0.0,2.0,0.0,0.000159923236846  
integrity 0.0,2.0,0.0,0.000159923236846  
zesto 0.0,10.0,0.0,0.000799616184232  
entergy 6.0,0.0,0.00072202166065,0.0  
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supplier 2.0,0.0,0.000240673886883,0.0  
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bharat 1.0,0.0,0.000120336943442,0.0  
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path 0.0,1.0,0.0,7.99616184232e-05  
100 0.0,11.0,0.0,0.000879577802655  
beca 0.0,1.0,0.0,7.99616184232e-05  
107 0.0,1.0,0.0,7.99616184232e-05  
celebration 1.0,1.0,0.000120336943442,7.99616184232e-05  
borrowers 0.0,1.0,0.0,7.99616184232e-05  
property 0.0,2.0,0.0,0.000159923236846  
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items 2.0,5.0,0.000240673886883,0.000399808092116  
employees 2.0,0.0,0.000240673886883,0.0  
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foolishness 0.0,1.0,0.0,7.99616184232e-05

slgavjmoqq 0.0,1.0,0.0,7.99616184232e-05  
credit 3.0,2.0,0.000361010830325,0.000159923236846  
ect 160.0,0.0,0.0192539109507,0.0  
specials 0.0,4.0,0.0,0.000319846473693  
cindy 5.0,0.0,0.000601684717208,0.0  
advantages 0.0,1.0,0.0,7.99616184232e-05  
aka 0.0,1.0,0.0,7.99616184232e-05  
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wood 1.0,0.0,0.000120336943442,0.0  
fantastic 0.0,1.0,0.0,7.99616184232e-05  
ipps 3.0,0.0,0.000361010830325,0.0  
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ground 0.0,1.0,0.0,7.99616184232e-05  
qualities 0.0,1.0,0.0,7.99616184232e-05  
julie 3.0,0.0,0.000361010830325,0.0  
explained 0.0,1.0,0.0,7.99616184232e-05  
angrily 0.0,1.0,0.0,7.99616184232e-05  
chaeap 0.0,1.0,0.0,7.99616184232e-05  
feelings 0.0,1.0,0.0,7.99616184232e-05  
brought 0.0,1.0,0.0,7.99616184232e-05  
pound 0.0,2.0,0.0,0.000159923236846  
thursday 2.0,2.0,0.000240673886883,0.000159923236846  
stern 0.0,1.0,0.0,7.99616184232e-05  
perhaps 1.0,2.0,0.000120336943442,0.000159923236846  
055 2.0,0.0,0.000240673886883,0.0  
txu 2.0,0.0,0.000240673886883,0.0  
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philip 1.0,0.0,0.000120336943442,0.0  
unit 5.0,0.0,0.000601684717208,0.0  
derivatives 2.0,0.0,0.000240673886883,0.0  
sexual 0.0,2.0,0.0,0.000159923236846  
ore 0.0,3.0,0.0,0.000239884855269  
reflected 1.0,0.0,0.000120336943442,0.0  
7268 3.0,0.0,0.000361010830325,0.0  
would 13.0,16.0,0.00156438026474,0.00127938589477  
dnb 1.0,0.0,0.000120336943442,0.0  
played 0.0,1.0,0.0,7.99616184232e-05  
trusted 0.0,2.0,0.0,0.000159923236846  
cali 0.0,1.0,0.0,7.99616184232e-05  
6207 1.0,0.0,0.000120336943442,0.0

call 8.0,5.0,0.000962695547533,0.000399808092116  
therefore 3.0,3.0,0.000361010830325,0.000239884855269  
contratulations 1.0,0.0,0.000120336943442,0.0  
danielle 0.0,2.0,0.0,0.000159923236846  
type 0.0,7.0,0.0,0.000559731328962  
tell 0.0,1.0,0.0,7.99616184232e-05  
voted 0.0,1.0,0.0,7.99616184232e-05  
setup 3.0,1.0,0.000361010830325,7.99616184232e-05  
userconf 1.0,0.0,0.000120336943442,0.0  
posting 0.0,1.0,0.0,7.99616184232e-05  
successful 0.0,12.0,0.0,0.000959539421078  
brings 1.0,1.0,0.000120336943442,7.99616184232e-05  
expose 0.0,1.0,0.0,7.99616184232e-05  
under 10.0,6.0,0.00120336943442,0.000479769710539  
carmody 0.0,1.0,0.0,7.99616184232e-05  
yahoo 0.0,5.0,0.0,0.000399808092116  
aware 1.0,0.0,0.000120336943442,0.0  
99 37.0,6.0,0.00445246690734,0.000479769710539  
phone 2.0,9.0,0.000240673886883,0.000719654565808  
adult 0.0,2.0,0.0,0.000159923236846  
excellent 0.0,2.0,0.0,0.000159923236846  
90 0.0,1.0,0.0,7.99616184232e-05  
ward 0.0,1.0,0.0,7.99616184232e-05  
92 0.0,1.0,0.0,7.99616184232e-05  
95 0.0,13.0,0.0,0.0010395010395  
blocking 0.0,2.0,0.0,0.000159923236846  
notis 2.0,0.0,0.000240673886883,0.0  
96 0.0,1.0,0.0,7.99616184232e-05  
me 21.0,29.0,0.00252707581227,0.00231888693427  
1990 2.0,0.0,0.000240673886883,0.0  
mg 0.0,1.0,0.0,7.99616184232e-05  
1992 2.0,0.0,0.000240673886883,0.0  
join 3.0,2.0,0.000361010830325,0.000159923236846  
room 2.0,0.0,0.000240673886883,0.0  
1997 2.0,0.0,0.000240673886883,0.0  
mb 0.0,1.0,0.0,7.99616184232e-05  
1999 25.0,1.0,0.00300842358604,7.99616184232e-05  
1998 2.0,0.0,0.000240673886883,0.0  
mo 0.0,1.0,0.0,7.99616184232e-05  
work 13.0,6.0,0.00156438026474,0.000479769710539

roof 0.0,2.0,0.0,0.000159923236846  
worth 1.0,0.0,0.000120336943442,0.0  
gxol 0.0,1.0,0.0,7.99616184232e-05  
ere 0.0,1.0,0.0,7.99616184232e-05  
rohan 1.0,0.0,0.000120336943442,0.0  
mr 2.0,5.0,0.000240673886883,0.000399808092116  
elbow 0.0,1.0,0.0,7.99616184232e-05  
my 27.0,48.0,0.00324909747292,0.00383815768431  
example 2.0,2.0,0.000240673886883,0.000159923236846  
□15.0,0.0,0.00180505415162,0.0  
transition 3.0,0.0,0.000361010830325,0.0  
give 2.0,7.0,0.000240673886883,0.000559731328962  
rabey 1.0,0.0,0.000120336943442,0.0  
bennett 1.0,0.0,0.000120336943442,0.0  
india 1.0,0.0,0.000120336943442,0.0  
553 1.0,0.0,0.000120336943442,0.0  
currency 0.0,1.0,0.0,7.99616184232e-05  
hormone 0.0,2.0,0.0,0.000159923236846  
walsh 1.0,0.0,0.000120336943442,0.0  
reviewing 0.0,1.0,0.0,7.99616184232e-05  
986782 1.0,0.0,0.000120336943442,0.0  
scheduling 3.0,0.0,0.000361010830325,0.0  
premium 0.0,2.0,0.0,0.000159923236846  
keep 1.0,4.0,0.000120336943442,0.000319846473693  
absolute 0.0,1.0,0.0,7.99616184232e-05  
ena 7.0,0.0,0.000842358604091,0.0  
end 5.0,5.0,0.000601684717208,0.000399808092116  
recovery 1.0,1.0,0.000120336943442,7.99616184232e-05  
eng 0.0,1.0,0.0,7.99616184232e-05  
provide 4.0,9.0,0.000481347773767,0.000719654565808  
mouse 0.0,4.0,0.0,0.000319846473693  
travel 1.0,2.0,0.000120336943442,0.000159923236846  
thousands 0.0,1.0,0.0,7.99616184232e-05  
machine 0.0,1.0,0.0,7.99616184232e-05  
how 3.0,11.0,0.000361010830325,0.000879577802655  
hot 0.0,1.0,0.0,7.99616184232e-05  
hindering 0.0,1.0,0.0,7.99616184232e-05  
low 2.0,6.0,0.000240673886883,0.000479769710539  
opposite 0.0,1.0,0.0,7.99616184232e-05  
answer 0.0,5.0,0.0,0.000399808092116

turk 0.0,3.0,0.0,0.000239884855269  
grown 0.0,2.0,0.0,0.000159923236846  
rise 0.0,1.0,0.0,7.99616184232e-05  
description 1.0,0.0,0.000120336943442,0.0  
earlier 1.0,2.0,0.000120336943442,0.000159923236846  
arcy 7.0,0.0,0.000842358604091,0.0  
hence 0.0,1.0,0.0,7.99616184232e-05  
wrong 0.0,2.0,0.0,0.000159923236846  
getthe 0.0,1.0,0.0,7.99616184232e-05  
president 6.0,0.0,0.00072202166065,0.0  
chums 0.0,1.0,0.0,7.99616184232e-05  
excited 1.0,1.0,0.000120336943442,7.99616184232e-05  
siberia 0.0,1.0,0.0,7.99616184232e-05  
purchase 3.0,1.0,0.000361010830325,7.99616184232e-05  
vance 2.0,0.0,0.000240673886883,0.0  
danny 1.0,0.0,0.000120336943442,0.0  
attempt 1.0,0.0,0.000120336943442,0.0  
effective 7.0,0.0,0.000842358604091,0.0  
recieved 0.0,2.0,0.0,0.000159923236846  
appreciate 2.0,0.0,0.000240673886883,0.0  
limitless 0.0,2.0,0.0,0.000159923236846  
janie 1.0,0.0,0.000120336943442,0.0  
baggage 0.0,1.0,0.0,7.99616184232e-05  
maintain 1.0,0.0,0.000120336943442,0.0  
south 5.0,9.0,0.000601684717208,0.000719654565808  
goodbye 0.0,1.0,0.0,7.99616184232e-05  
enter 0.0,4.0,0.0,0.000319846473693  
first 2.0,16.0,0.000240673886883,0.00127938589477  
entex 6.0,0.0,0.00072202166065,0.0  
wind 1.0,0.0,0.000120336943442,0.0  
operations 26.0,0.0,0.00312876052948,0.0  
valium 0.0,2.0,0.0,0.000159923236846  
executed 1.0,0.0,0.000120336943442,0.0  
iname 0.0,1.0,0.0,7.99616184232e-05  
office 9.0,6.0,0.00108303249097,0.000479769710539  
wound 0.0,1.0,0.0,7.99616184232e-05  
golnaragli 1.0,0.0,0.000120336943442,0.0  
vary 0.0,1.0,0.0,7.99616184232e-05  
expects 3.0,0.0,0.000361010830325,0.0  
kickoff 1.0,0.0,0.000120336943442,0.0

london 2.0,1.0,0.000240673886883,7.99616184232e-05  
innovative 1.0,0.0,0.000120336943442,0.0  
residents 0.0,1.0,0.0,7.99616184232e-05  
before 3.0,11.0,0.000361010830325,0.000879577802655  
position 2.0,1.0,0.000240673886883,7.99616184232e-05  
redhat 0.0,1.0,0.0,7.99616184232e-05  
classrom 1.0,0.0,0.000120336943442,0.0  
personal 0.0,4.0,0.0,0.000319846473693  
rankings 1.0,0.0,0.000120336943442,0.0  
tactically 0.0,1.0,0.0,7.99616184232e-05  
expectations 0.0,4.0,0.0,0.000319846473693  
exhibits 0.0,2.0,0.0,0.000159923236846  
pilkington 0.0,1.0,0.0,7.99616184232e-05  
better 3.0,5.0,0.000361010830325,0.000399808092116  
production 4.0,2.0,0.000481347773767,0.000159923236846  
persist 1.0,0.0,0.000120336943442,0.0  
weeks 2.0,2.0,0.000240673886883,0.000159923236846  
split 0.0,1.0,0.0,7.99616184232e-05  
eventually 0.0,2.0,0.0,0.000159923236846  
coffee 3.0,2.0,0.000361010830325,0.000159923236846  
bazzd 0.0,1.0,0.0,7.99616184232e-05  
justperform 0.0,1.0,0.0,7.99616184232e-05  
weakness 2.0,2.0,0.000240673886883,0.000159923236846  
comwww 0.0,11.0,0.0,0.000879577802655  
incorrectly 1.0,0.0,0.000120336943442,0.0  
wsc 0.0,1.0,0.0,7.99616184232e-05  
modification 0.0,1.0,0.0,7.99616184232e-05  
effects 0.0,1.0,0.0,7.99616184232e-05  
lavorato 6.0,0.0,0.00072202166065,0.0  
mcsherry 1.0,0.0,0.000120336943442,0.0  
strategic 1.0,2.0,0.000120336943442,0.000159923236846  
undeveloped 0.0,1.0,0.0,7.99616184232e-05  
silver 0.0,1.0,0.0,7.99616184232e-05  
bank 0.0,6.0,0.0,0.000479769710539  
several 11.0,3.0,0.00132370637786,0.000239884855269  
usage 1.0,3.0,0.000120336943442,0.000239884855269  
windowsentities 0.0,1.0,0.0,7.99616184232e-05  
fonts 0.0,2.0,0.0,0.000159923236846  
arrested 0.0,1.0,0.0,7.99616184232e-05  
chuck 1.0,0.0,0.000120336943442,0.0

sherlyn 3.0,0.0,0.000361010830325,0.0  
skills 0.0,2.0,0.0,0.000159923236846  
affiliate 0.0,1.0,0.0,7.99616184232e-05  
reasonable 0.0,2.0,0.0,0.000159923236846  
each 9.0,5.0,0.00108303249097,0.000399808092116  
went 0.0,2.0,0.0,0.000159923236846  
375 0.0,1.0,0.0,7.99616184232e-05  
side 0.0,1.0,0.0,7.99616184232e-05  
bone 0.0,1.0,0.0,7.99616184232e-05  
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lifted 0.0,1.0,0.0,7.99616184232e-05  
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ssb 1.0,0.0,0.000120336943442,0.0  
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diane 1.0,0.0,0.000120336943442,0.0  
wednesday 5.0,0.0,0.000601684717208,0.0  
392 2.0,0.0,0.000240673886883,0.0  
used 0.0,5.0,0.0,0.000399808092116  
trading 26.0,0.0,0.00312876052948,0.0  
doug 1.0,0.0,0.000120336943442,0.0  
ypfpb 0.0,1.0,0.0,7.99616184232e-05  
ello 0.0,1.0,0.0,7.99616184232e-05  
dawn 0.0,1.0,0.0,7.99616184232e-05  
mandated 0.0,1.0,0.0,7.99616184232e-05  
saturday 1.0,0.0,0.000120336943442,0.0  
turn 1.0,2.0,0.000120336943442,0.000159923236846  
large 0.0,7.0,0.0,0.000559731328962  
merchants 1.0,0.0,0.000120336943442,0.0  
forwarding 1.0,0.0,0.000120336943442,0.0  
westward 0.0,1.0,0.0,7.99616184232e-05  
network 0.0,1.0,0.0,7.99616184232e-05  
god 0.0,3.0,0.0,0.000239884855269  
tried 4.0,0.0,0.000481347773767,0.0  
forhome 0.0,1.0,0.0,7.99616184232e-05  
rx 0.0,1.0,0.0,7.99616184232e-05  
forty 0.0,1.0,0.0,7.99616184232e-05  
0281 1.0,0.0,0.000120336943442,0.0  
content 1.0,7.0,0.000120336943442,0.000559731328962

adhesion 0.0,1.0,0.0,7.99616184232e-05  
encourage 2.0,0.0,0.000240673886883,0.0  
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rare 0.0,1.0,0.0,7.99616184232e-05  
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reader 0.0,1.0,0.0,7.99616184232e-05  
got 0.0,2.0,0.0,0.000159923236846  
size 0.0,5.0,0.0,0.000399808092116  
strategist 0.0,2.0,0.0,0.000159923236846  
strategies 0.0,3.0,0.0,0.000239884855269  
underwrite 0.0,1.0,0.0,7.99616184232e-05  
arizona 1.0,0.0,0.000120336943442,0.0  
barrier 0.0,2.0,0.0,0.000159923236846  
associate 1.0,2.0,0.000120336943442,0.000159923236846  
rail 0.0,3.0,0.0,0.000239884855269  
cholesterol 0.0,1.0,0.0,7.99616184232e-05  
eternal 0.0,1.0,0.0,7.99616184232e-05  
free 3.0,50.0,0.000361010830325,0.00399808092116  
managerial 2.0,0.0,0.000240673886883,0.0  
normet 0.0,2.0,0.0,0.000159923236846  
allocation 5.0,0.0,0.000601684717208,0.0  
cheeap 0.0,1.0,0.0,7.99616184232e-05  
hand 1.0,1.0,0.000120336943442,7.99616184232e-05  
249 0.0,2.0,0.0,0.000159923236846  
crowdbut 0.0,1.0,0.0,7.99616184232e-05  
yard 2.0,0.0,0.000240673886883,0.0  
ate 1.0,2.0,0.000120336943442,0.000159923236846  
created 4.0,1.0,0.000481347773767,7.99616184232e-05  
refugee 0.0,3.0,0.0,0.000239884855269  
isp 0.0,7.0,0.0,0.000559731328962  
luong 1.0,0.0,0.000120336943442,0.0  
days 0.0,5.0,0.0,0.000399808092116  
economically 0.0,1.0,0.0,7.99616184232e-05  
filter 0.0,1.0,0.0,7.99616184232e-05  
window 0.0,1.0,0.0,7.99616184232e-05  
nighttime 0.0,2.0,0.0,0.000159923236846  
josey 7.0,0.0,0.000842358604091,0.0  
iso 0.0,6.0,0.0,0.000479769710539  
incorporated 1.0,0.0,0.000120336943442,0.0  
signature 0.0,1.0,0.0,7.99616184232e-05

moving 1.0,1.0,0.000120336943442,7.99616184232e-05  
incomeunlimited 0.0,1.0,0.0,7.99616184232e-05  
speeds 0.0,1.0,0.0,7.99616184232e-05  
user 5.0,0.0,0.000601684717208,0.0  
eileen 1.0,0.0,0.000120336943442,0.0  
appeals 0.0,3.0,0.0,0.000239884855269  
nigel 1.0,0.0,0.000120336943442,0.0  
features 0.0,1.0,0.0,7.99616184232e-05  
grade 0.0,2.0,0.0,0.000159923236846  
52109 1.0,0.0,0.000120336943442,0.0  
primary 2.0,0.0,0.000240673886883,0.0  
wash 0.0,1.0,0.0,7.99616184232e-05  
featured 0.0,2.0,0.0,0.000159923236846  
another 4.0,5.0,0.000481347773767,0.000399808092116  
tel 0.0,1.0,0.0,7.99616184232e-05  
clarity 1.0,0.0,0.000120336943442,0.0  
hood 0.0,1.0,0.0,7.99616184232e-05  
priority 0.0,2.0,0.0,0.000159923236846  
cheaep 0.0,1.0,0.0,7.99616184232e-05  
rated 0.0,2.0,0.0,0.000159923236846  
service 1.0,27.0,0.000120336943442,0.00215896369743  
damorgarjr 0.0,1.0,0.0,7.99616184232e-05  
top 0.0,4.0,0.0,0.000319846473693  
recruiting 2.0,1.0,0.000240673886883,7.99616184232e-05  
zxs 0.0,1.0,0.0,7.99616184232e-05  
plentiful 0.0,1.0,0.0,7.99616184232e-05  
needed 4.0,2.0,0.000481347773767,0.000159923236846  
airs 0.0,1.0,0.0,7.99616184232e-05  
master 0.0,2.0,0.0,0.000159923236846  
listed 3.0,2.0,0.000361010830325,0.000159923236846  
miller 1.0,0.0,0.000120336943442,0.0  
gilbert 1.0,0.0,0.000120336943442,0.0  
john 18.0,1.0,0.00216606498195,7.99616184232e-05  
profitbanners 0.0,3.0,0.0,0.000239884855269  
listen 1.0,1.0,0.000120336943442,7.99616184232e-05  
tool 0.0,1.0,0.0,7.99616184232e-05  
serve 0.0,5.0,0.0,0.000399808092116  
took 1.0,2.0,0.000120336943442,0.000159923236846  
negotiating 1.0,0.0,0.000120336943442,0.0  
036474336 1.0,0.0,0.000120336943442,0.0

intelt 0.0,1.0,0.0,7.99616184232e-05  
western 3.0,3.0,0.000361010830325,0.000239884855269  
somewhat 0.0,1.0,0.0,7.99616184232e-05  
willbe 0.0,1.0,0.0,7.99616184232e-05  
toronto 0.0,1.0,0.0,7.99616184232e-05  
distance 0.0,4.0,0.0,0.000319846473693  
theqgrefor 0.0,1.0,0.0,7.99616184232e-05  
target 1.0,2.0,0.000120336943442,0.000159923236846  
keyword 0.0,4.0,0.0,0.000319846473693  
tree 1.0,0.0,0.000120336943442,0.0  
rate 2.0,6.0,0.000240673886883,0.000479769710539  
project 2.0,10.0,0.000240673886883,0.000799616184232  
matter 1.0,2.0,0.000120336943442,0.000159923236846  
titles 0.0,3.0,0.0,0.000239884855269  
speaking 0.0,1.0,0.0,7.99616184232e-05  
historical 3.0,0.0,0.000361010830325,0.0  
knights 1.0,0.0,0.000120336943442,0.0  
rennie 1.0,0.0,0.000120336943442,0.0  
stacey 2.0,1.0,0.000240673886883,7.99616184232e-05  
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rac 1.0,0.0,0.000120336943442,0.0  
ran 0.0,2.0,0.0,0.000159923236846  
ram 0.0,2.0,0.0,0.000159923236846  
mind 0.0,5.0,0.0,0.000399808092116  
mine 2.0,5.0,0.000240673886883,0.000399808092116  
biwven 0.0,1.0,0.0,7.99616184232e-05  
tips 0.0,1.0,0.0,7.99616184232e-05  
789118270 1.0,0.0,0.000120336943442,0.0  
principle 0.0,1.0,0.0,7.99616184232e-05  
seen 1.0,3.0,0.000120336943442,0.000239884855269  
seem 0.0,2.0,0.0,0.000159923236846  
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ckily 0.0,1.0,0.0,7.99616184232e-05  
affairs 1.0,0.0,0.000120336943442,0.0  
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strength 0.0,1.0,0.0,7.99616184232e-05  
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releases 0.0,2.0,0.0,0.000159923236846

hoferc 1.0,0.0,0.000120336943442,0.0  
convenient 0.0,1.0,0.0,7.99616184232e-05  
responsible 4.0,0.0,0.000481347773767,0.0  
hrice 2.0,0.0,0.000240673886883,0.0  
windred 0.0,1.0,0.0,7.99616184232e-05  
sound 1.0,0.0,0.000120336943442,0.0  
client 1.0,0.0,0.000120336943442,0.0  
eiben 1.0,0.0,0.000120336943442,0.0  
forces 0.0,5.0,0.0,0.000399808092116  
laughed 0.0,1.0,0.0,7.99616184232e-05  
randle 1.0,0.0,0.000120336943442,0.0  
philadelphia 1.0,0.0,0.000120336943442,0.0  
shall 1.0,7.0,0.000120336943442,0.000559731328962  
clonazepam 0.0,1.0,0.0,7.99616184232e-05  
weightwheezy 0.0,1.0,0.0,7.99616184232e-05  
ebook 0.0,3.0,0.0,0.000239884855269  
sue 2.0,0.0,0.000240673886883,0.0  
savvy 0.0,1.0,0.0,7.99616184232e-05  
involving 2.0,0.0,0.000240673886883,0.0  
claims 0.0,2.0,0.0,0.000159923236846  
expanse 0.0,1.0,0.0,7.99616184232e-05  
3359 1.0,0.0,0.000120336943442,0.0  
preferences 0.0,2.0,0.0,0.000159923236846  
bradford 1.0,0.0,0.000120336943442,0.0  
potency 0.0,1.0,0.0,7.99616184232e-05  
don 7.0,5.0,0.000842358604091,0.000399808092116  
richard 3.0,0.0,0.000361010830325,0.0  
dol 0.0,1.0,0.0,7.99616184232e-05  
emailing 0.0,2.0,0.0,0.000159923236846  
doc 2.0,0.0,0.000240673886883,0.0  
medical 0.0,1.0,0.0,7.99616184232e-05  
camp 6.0,0.0,0.00072202166065,0.0  
flow 5.0,0.0,0.000601684717208,0.0  
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points 1.0,1.0,0.000120336943442,7.99616184232e-05  
leone 0.0,5.0,0.0,0.000399808092116  
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takegreat 0.0,1.0,0.0,7.99616184232e-05

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voting 0.0,1.0,0.0,7.99616184232e-05  
mailing 0.0,3.0,0.0,0.000239884855269  
sum 0.0,2.0,0.0,0.000159923236846  
came 0.0,2.0,0.0,0.000159923236846  
reserve 0.0,2.0,0.0,0.000159923236846  
saying 0.0,3.0,0.0,0.000239884855269  
cotroneo 1.0,0.0,0.000120336943442,0.0  
hunger 0.0,1.0,0.0,7.99616184232e-05  
visitor 0.0,1.0,0.0,7.99616184232e-05  
meetings 4.0,1.0,0.000481347773767,7.99616184232e-05  
retire 0.0,2.0,0.0,0.000159923236846  
nominated 4.0,0.0,0.000481347773767,0.0  
pops 0.0,1.0,0.0,7.99616184232e-05  
colors 0.0,1.0,0.0,7.99616184232e-05  
participate 1.0,1.0,0.000120336943442,7.99616184232e-05  
keywords 0.0,2.0,0.0,0.000159923236846  
earth 1.0,0.0,0.000120336943442,0.0  
tempted 0.0,1.0,0.0,7.99616184232e-05  
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availability 0.0,2.0,0.0,0.000159923236846  
woodwork 0.0,1.0,0.0,7.99616184232e-05  
busy 0.0,1.0,0.0,7.99616184232e-05  
layout 0.0,3.0,0.0,0.000239884855269  
proposed 2.0,1.0,0.000240673886883,7.99616184232e-05  
louise 8.0,0.0,0.000962695547533,0.0  
implementation 1.0,0.0,0.000120336943442,0.0  
helpdesk 1.0,1.0,0.000120336943442,7.99616184232e-05  
debts 2.0,0.0,0.000240673886883,0.0  
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discoouunt 0.0,1.0,0.0,7.99616184232e-05  
accelerate 0.0,1.0,0.0,7.99616184232e-05  
rick 6.0,2.0,0.00072202166065,0.000159923236846  
rich 0.0,1.0,0.0,7.99616184232e-05  
pursuing 1.0,0.0,0.000120336943442,0.0  
folks 0.0,2.0,0.0,0.000159923236846  
549 1.0,0.0,0.000120336943442,0.0  
sallen 1.0,0.0,0.000120336943442,0.0  
personality 0.0,3.0,0.0,0.000239884855269  
do 4.0,16.0,0.000481347773767,0.00127938589477

professionals 2.0,0.0,0.000240673886883,0.0  
de 0.0,2.0,0.0,0.000159923236846  
stop 1.0,7.0,0.000120336943442,0.000559731328962  
dc 1.0,0.0,0.000120336943442,0.0  
legs 0.0,3.0,0.0,0.000239884855269  
alhaji 0.0,2.0,0.0,0.000159923236846  
watson 2.0,0.0,0.000240673886883,0.0  
cushion 0.0,1.0,0.0,7.99616184232e-05  
despite 1.0,0.0,0.000120336943442,0.0  
advertisements 0.0,1.0,0.0,7.99616184232e-05  
net 3.0,24.0,0.000361010830325,0.00191907884216  
volatility 4.0,0.0,0.000481347773767,0.0  
earn 0.0,2.0,0.0,0.000159923236846  
bar 0.0,1.0,0.0,7.99616184232e-05  
yowman 1.0,0.0,0.000120336943442,0.0  
countries 0.0,1.0,0.0,7.99616184232e-05  
fields 1.0,0.0,0.000120336943442,0.0  
reliant 3.0,0.0,0.000361010830325,0.0  
bauxite 0.0,1.0,0.0,7.99616184232e-05  
facilitators 1.0,0.0,0.000120336943442,0.0  
public 1.0,0.0,0.000120336943442,0.0  
415 4.0,0.0,0.000481347773767,0.0  
bad 1.0,1.0,0.000120336943442,7.99616184232e-05  
beneteau 0.0,1.0,0.0,7.99616184232e-05  
movement 1.0,0.0,0.000120336943442,0.0  
418 0.0,2.0,0.0,0.000159923236846  
419 0.0,1.0,0.0,7.99616184232e-05  
thanks 18.0,0.0,0.00216606498195,0.0  
respond 1.0,4.0,0.000120336943442,0.000319846473693  
attest 1.0,0.0,0.000120336943442,0.0  
kfbyra 0.0,1.0,0.0,7.99616184232e-05  
penance 0.0,1.0,0.0,7.99616184232e-05  
fair 1.0,0.0,0.000120336943442,0.0  
imitate 0.0,2.0,0.0,0.000159923236846  
branding 0.0,7.0,0.0,0.000559731328962  
fattroglyote 0.0,1.0,0.0,7.99616184232e-05  
decided 0.0,5.0,0.0,0.000399808092116  
result 1.0,0.0,0.000120336943442,0.0  
clem 1.0,0.0,0.000120336943442,0.0  
hash 0.0,1.0,0.0,7.99616184232e-05

best 4.0,12.0,0.000481347773767,0.000959539421078  
situation 0.0,4.0,0.0,0.000319846473693  
brazil 8.0,0.0,0.000962695547533,0.0  
03 6.0,0.0,0.00072202166065,0.0  
00 11.0,9.0,0.00132370637786,0.000719654565808  
01 15.0,11.0,0.00180505415162,0.000879577802655  
06 12.0,14.0,0.0014440433213,0.00111946265792  
07 8.0,5.0,0.000962695547533,0.000399808092116  
04 9.0,0.0,0.00108303249097,0.0  
05 3.0,3.0,0.000361010830325,0.000239884855269  
lots 1.0,1.0,0.000120336943442,7.99616184232e-05  
away 2.0,3.0,0.000240673886883,0.000239884855269  
09 23.0,0.0,0.00276774969916,0.0  
compensation 2.0,0.0,0.000240673886883,0.0  
reassigned 1.0,0.0,0.000120336943442,0.0  
r 1.0,12.0,0.000120336943442,0.000959539421078  
finger 0.0,1.0,0.0,7.99616184232e-05  
cooperation 2.0,0.0,0.000240673886883,0.0  
hopefully 1.0,0.0,0.000120336943442,0.0  
drawn 0.0,1.0,0.0,7.99616184232e-05  
neyeded 0.0,1.0,0.0,7.99616184232e-05  
approach 0.0,1.0,0.0,7.99616184232e-05  
involved 2.0,4.0,0.000240673886883,0.000319846473693  
we 39.0,87.0,0.00469314079422,0.00695666080281  
men 0.0,4.0,0.0,0.000319846473693  
terms 5.0,0.0,0.000601684717208,0.0  
moviebuff 0.0,2.0,0.0,0.000159923236846  
extend 0.0,1.0,0.0,7.99616184232e-05  
adding 0.0,1.0,0.0,7.99616184232e-05  
oxidation 0.0,1.0,0.0,7.99616184232e-05  
were 3.0,12.0,0.000361010830325,0.000959539421078  
however 5.0,2.0,0.000601684717208,0.000159923236846  
khanna 1.0,0.0,0.000120336943442,0.0  
ws 0.0,1.0,0.0,7.99616184232e-05  
drew 2.0,0.0,0.000240673886883,0.0  
extent 1.0,0.0,0.000120336943442,0.0  
news 1.0,6.0,0.000120336943442,0.000479769710539  
debt 0.0,2.0,0.0,0.000159923236846  
xp 0.0,3.0,0.0,0.000239884855269  
825854664 1.0,0.0,0.000120336943442,0.0

kitchen 14.0,0.0,0.00168471720818,0.0  
weissman 5.0,0.0,0.000601684717208,0.0  
cop 1.0,1.0,0.000120336943442,7.99616184232e-05  
climate 0.0,1.0,0.0,7.99616184232e-05  
referral 0.0,2.0,0.0,0.000159923236846  
preferred 0.0,2.0,0.0,0.000159923236846  
country 4.0,19.0,0.000481347773767,0.00151927075004  
presccription 0.0,1.0,0.0,7.99616184232e-05  
tracks 0.0,2.0,0.0,0.000159923236846  
against 1.0,1.0,0.000120336943442,7.99616184232e-05  
trina 1.0,0.0,0.000120336943442,0.0  
receives 2.0,0.0,0.000240673886883,0.0  
brad 2.0,0.0,0.000240673886883,0.0  
studio 0.0,1.0,0.0,7.99616184232e-05  
contribution 0.0,1.0,0.0,7.99616184232e-05  
com 71.0,115.0,0.00854392298436,0.00919558611866  
asked 2.0,0.0,0.000240673886883,0.0  
mysiteinc 0.0,3.0,0.0,0.000239884855269  
presumably 0.0,1.0,0.0,7.99616184232e-05  
gwen 1.0,0.0,0.000120336943442,0.0  
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vein 0.0,1.0,0.0,7.99616184232e-05  
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resourcestocks 0.0,1.0,0.0,7.99616184232e-05  
concluding 0.0,2.0,0.0,0.000159923236846  
karen 1.0,0.0,0.000120336943442,0.0  
259 0.0,1.0,0.0,7.99616184232e-05  
initiative 0.0,1.0,0.0,7.99616184232e-05  
disordersclump 0.0,1.0,0.0,7.99616184232e-05  
variety 0.0,1.0,0.0,7.99616184232e-05  
250 0.0,1.0,0.0,7.99616184232e-05  
trust 0.0,7.0,0.0,0.000559731328962  
256 0.0,1.0,0.0,7.99616184232e-05  
priscilla 1.0,0.0,0.000120336943442,0.0  
speak 0.0,2.0,0.0,0.000159923236846  
conference 2.0,3.0,0.000240673886883,0.000239884855269  
strong 0.0,1.0,0.0,7.99616184232e-05  
sam 2.0,0.0,0.000240673886883,0.0  
asks 0.0,1.0,0.0,7.99616184232e-05  
basis 1.0,3.0,0.000120336943442,0.000239884855269

union 1.0,0.0,0.000120336943442,0.0  
three 1.0,10.0,0.000120336943442,0.000799616184232  
been 17.0,15.0,0.00204572803851,0.00119942427635  
drafting 1.0,0.0,0.000120336943442,0.0  
beneficiary 0.0,1.0,0.0,7.99616184232e-05  
confident 0.0,1.0,0.0,7.99616184232e-05  
64610 2.0,0.0,0.000240673886883,0.0  
belongs 0.0,2.0,0.0,0.000159923236846  
interest 2.0,5.0,0.000240673886883,0.000399808092116  
100038 1.0,0.0,0.000120336943442,0.0  
entered 0.0,5.0,0.0,0.000399808092116  
enron 61.0,0.0,0.00734055354994,0.0  
correction 1.0,1.0,0.000120336943442,7.99616184232e-05  
rge 0.0,1.0,0.0,7.99616184232e-05  
website 0.0,17.0,0.0,0.00135934751319  
gerry 2.0,0.0,0.000240673886883,0.0  
life 1.0,5.0,0.000120336943442,0.000399808092116  
families 0.0,2.0,0.0,0.000159923236846  
loft 0.0,2.0,0.0,0.000159923236846  
eastern 1.0,0.0,0.000120336943442,0.0  
drugs 0.0,2.0,0.0,0.000159923236846  
mcf 2.0,0.0,0.000240673886883,0.0  
concerning 1.0,5.0,0.000120336943442,0.000399808092116  
search 0.0,4.0,0.0,0.000319846473693  
joinder 1.0,0.0,0.000120336943442,0.0  
wish 0.0,7.0,0.0,0.000559731328962  
dave 9.0,0.0,0.00108303249097,0.0  
thimble 0.0,1.0,0.0,7.99616184232e-05  
chile 0.0,2.0,0.0,0.000159923236846  
child 0.0,3.0,0.0,0.000239884855269  
aviation 1.0,0.0,0.000120336943442,0.0  
sdba 1.0,0.0,0.000120336943442,0.0  
petteway 1.0,0.0,0.000120336943442,0.0  
transco 2.0,0.0,0.000240673886883,0.0  
161 0.0,1.0,0.0,7.99616184232e-05  
chill 1.0,0.0,0.000120336943442,0.0  
applied 5.0,0.0,0.000601684717208,0.0  
exception 1.0,0.0,0.000120336943442,0.0  
east 0.0,1.0,0.0,7.99616184232e-05  
submissions 0.0,4.0,0.0,0.000319846473693

strangas 1.0,0.0,0.000120336943442,0.0  
neal 1.0,0.0,0.000120336943442,0.0  
air 0.0,3.0,0.0,0.000239884855269  
dept 1.0,0.0,0.000120336943442,0.0  
near 0.0,1.0,0.0,7.99616184232e-05  
neat 0.0,1.0,0.0,7.99616184232e-05  
whelan 1.0,0.0,0.000120336943442,0.0  
ccprod 0.0,2.0,0.0,0.000159923236846  
stopping 0.0,2.0,0.0,0.000159923236846  
9434 2.0,0.0,0.000240673886883,0.0  
crespiigny 0.0,2.0,0.0,0.000159923236846  
davenport 1.0,0.0,0.000120336943442,0.0  
k 1.0,3.0,0.000120336943442,0.000239884855269  
natives 0.0,1.0,0.0,7.99616184232e-05  
seven 2.0,2.0,0.000240673886883,0.000159923236846  
9610 1.0,0.0,0.000120336943442,0.0  
mexico 0.0,1.0,0.0,7.99616184232e-05  
cano 0.0,1.0,0.0,7.99616184232e-05  
is 44.0,87.0,0.00529482551143,0.00695666080281  
it 21.0,83.0,0.00252707581227,0.00663681432912  
5290 1.0,0.0,0.000120336943442,0.0  
expenses 0.0,2.0,0.0,0.000159923236846  
ii 3.0,0.0,0.000361010830325,0.0  
im 0.0,1.0,0.0,7.99616184232e-05  
cling 0.0,1.0,0.0,7.99616184232e-05  
in 109.0,157.0,0.0131167268351,0.0125539740924  
vendor 2.0,0.0,0.000240673886883,0.0  
t 8.0,20.0,0.000962695547533,0.00159923236846  
ie 0.0,4.0,0.0,0.000319846473693  
id 10.0,2.0,0.000120336943442,0.000159923236846  
conn 1.0,0.0,0.000120336943442,0.0  
if 20.0,39.0,0.00240673886883,0.0031185031185  
1814 1.0,0.0,0.000120336943442,0.0  
containing 0.0,3.0,0.0,0.000239884855269  
mperkins 1.0,0.0,0.000120336943442,0.0  
saw 1.0,0.0,0.000120336943442,0.0  
make 5.0,10.0,0.000601684717208,0.000799616184232  
lokay 3.0,0.0,0.000361010830325,0.0  
transporting 1.0,0.0,0.000120336943442,0.0  
amount 0.0,2.0,0.0,0.000159923236846

shares 0.0,1.0,0.0,7.99616184232e-05  
kevin 23.0,0.0,0.00276774969916,0.0  
evaluate 2.0,0.0,0.000240673886883,0.0  
frusco 2.0,0.0,0.000240673886883,0.0  
owns 1.0,0.0,0.000120336943442,0.0  
ambien 0.0,1.0,0.0,7.99616184232e-05  
shwc 0.0,1.0,0.0,7.99616184232e-05  
counterparty 2.0,0.0,0.000240673886883,0.0  
nim 2.0,0.0,0.000240673886883,0.0  
published 1.0,3.0,0.000120336943442,0.000239884855269  
hang 0.0,1.0,0.0,7.99616184232e-05  
managment 2.0,0.0,0.000240673886883,0.0  
greeted 1.0,0.0,0.000120336943442,0.0  
delight 0.0,1.0,0.0,7.99616184232e-05  
afraid 0.0,1.0,0.0,7.99616184232e-05  
producers 1.0,0.0,0.000120336943442,0.0  
kim 3.0,0.0,0.000361010830325,0.0  
hans 1.0,0.0,0.000120336943442,0.0  
opportunity 1.0,6.0,0.000120336943442,0.000479769710539  
greedily 0.0,1.0,0.0,7.99616184232e-05  
adminder 0.0,1.0,0.0,7.99616184232e-05  
9291 1.0,0.0,0.000120336943442,0.0  
kept 0.0,1.0,0.0,7.99616184232e-05  
whereby 1.0,0.0,0.000120336943442,0.0  
scenario 1.0,0.0,0.000120336943442,0.0  
programs 2.0,8.0,0.000240673886883,0.000639692947385  
charlie 1.0,0.0,0.000120336943442,0.0  
thu 4.0,0.0,0.000481347773767,0.0  
eops 1.0,0.0,0.000120336943442,0.0  
lcd 0.0,1.0,0.0,7.99616184232e-05  
options 2.0,0.0,0.000240673886883,0.0  
8859 0.0,6.0,0.0,0.000479769710539  
contact 10.0,11.0,0.00120336943442,0.000879577802655  
greatest 0.0,1.0,0.0,7.99616184232e-05  
melodick 1.0,0.0,0.000120336943442,0.0  
wedeliverparties 0.0,1.0,0.0,7.99616184232e-05  
802 0.0,1.0,0.0,7.99616184232e-05  
the 254.0,475.0,0.0305655836342,0.037981768751  
800 3.0,0.0,0.000361010830325,0.0  
corporate 4.0,1.0,0.000481347773767,7.99616184232e-05

buchsbaum 1.0,0.0,0.000120336943442,0.0  
left 1.0,0.0,0.000120336943442,0.0  
arousing 0.0,1.0,0.0,7.99616184232e-05  
mclean 1.0,0.0,0.000120336943442,0.0  
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just 4.0,24.0,0.000481347773767,0.00191907884216  
enjoy 0.0,1.0,0.0,7.99616184232e-05  
ideas 1.0,2.0,0.000120336943442,0.000159923236846  
quotes 0.0,3.0,0.0,0.000239884855269  
identify 1.0,0.0,0.000120336943442,0.0  
mechanism 1.0,0.0,0.000120336943442,0.0  
human 8.0,1.0,0.000962695547533,7.99616184232e-05  
macquarie 0.0,2.0,0.0,0.000159923236846  
yes 2.0,4.0,0.000240673886883,0.000319846473693  
sellinternetaccess 0.0,4.0,0.0,0.000319846473693  
cenochs 1.0,0.0,0.000120336943442,0.0  
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succeeding 0.0,1.0,0.0,7.99616184232e-05  
previous 8.0,0.0,0.000962695547533,0.0  
ship 0.0,2.0,0.0,0.000159923236846  
alum 0.0,1.0,0.0,7.99616184232e-05  
like 5.0,16.0,0.000601684717208,0.00127938589477  
hal 1.0,0.0,0.000120336943442,0.0  
unable 2.0,0.0,0.000240673886883,0.0  
nicolay 1.0,0.0,0.000120336943442,0.0  
tenderer 0.0,1.0,0.0,7.99616184232e-05  
had 8.0,6.0,0.000962695547533,0.000479769710539  
glencore 2.0,0.0,0.000240673886883,0.0  
321 0.0,1.0,0.0,7.99616184232e-05  
board 0.0,2.0,0.0,0.000159923236846  
easy 0.0,9.0,0.0,0.000719654565808  
southwest 1.0,0.0,0.000120336943442,0.0  
ramupgradeable 0.0,1.0,0.0,7.99616184232e-05  
ctise 1.0,0.0,0.000120336943442,0.0  
city 0.0,5.0,0.0,0.000399808092116  
opt 0.0,1.0,0.0,7.99616184232e-05  
shoulder 0.0,1.0,0.0,7.99616184232e-05  
which 10.0,21.0,0.000120336943442,0.00167919398689  
trista 2.0,0.0,0.000240673886883,0.0  
involuntary 2.0,0.0,0.000240673886883,0.0

online 0.0,12.0,0.0,0.000959539421078  
possible 2.0,6.0,0.000240673886883,0.000479769710539  
6992 2.0,0.0,0.000240673886883,0.0  
lengthen 0.0,1.0,0.0,7.99616184232e-05  
possibly 0.0,1.0,0.0,7.99616184232e-05  
cultural 1.0,0.0,0.000120336943442,0.0  
background 2.0,6.0,0.000240673886883,0.000479769710539  
performance 5.0,1.0,0.000601684717208,7.99616184232e-05  
highly 1.0,0.0,0.000120336943442,0.0  
mayes 1.0,0.0,0.000120336943442,0.0  
wardsgiftshop 0.0,1.0,0.0,7.99616184232e-05  
apart 0.0,2.0,0.0,0.000159923236846  
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dignity 0.0,1.0,0.0,7.99616184232e-05  
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texts 2.0,0.0,0.000240673886883,0.0  
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54 1.0,2.0,0.000120336943442,0.000159923236846  
57 0.0,1.0,0.0,7.99616184232e-05  
56 0.0,1.0,0.0,7.99616184232e-05  
50 0.0,3.0,0.0,0.000239884855269  
52 1.0,2.0,0.000120336943442,0.000159923236846  
securities 2.0,0.0,0.000240673886883,0.0  
cooler 1.0,0.0,0.000120336943442,0.0  
offices 2.0,0.0,0.000240673886883,0.0  
officer 2.0,0.0,0.000240673886883,0.0  
night 3.0,1.0,0.000361010830325,7.99616184232e-05  
security 1.0,7.0,0.000120336943442,0.000559731328962  
towards 0.0,2.0,0.0,0.000159923236846  
surf 0.0,5.0,0.0,0.000399808092116  
www 1.0,36.0,0.000120336943442,0.00287861826323  
right 2.0,9.0,0.000240673886883,0.000719654565808  
old 0.0,3.0,0.0,0.000239884855269  
deal 6.0,3.0,0.00072202166065,0.000239884855269  
icop 0.0,1.0,0.0,7.99616184232e-05  
staff 1.0,0.0,0.000120336943442,0.0  
successfully 0.0,1.0,0.0,7.99616184232e-05

somewhat 0.0,1.0,0.0,7.99616184232e-05  
dead 0.0,2.0,0.0,0.000159923236846  
oh 1.0,0.0,0.000120336943442,0.0  
stinson 1.0,0.0,0.000120336943442,0.0  
offer 0.0,9.0,0.0,0.000719654565808  
printer 14.0,0.0,0.00168471720818,0.0  
hassle 0.0,2.0,0.0,0.000159923236846  
escape 0.0,2.0,0.0,0.000159923236846  
dear 0.0,3.0,0.0,0.000239884855269  
gosnell 1.0,0.0,0.000120336943442,0.0  
confusing 0.0,1.0,0.0,7.99616184232e-05  
total 2.0,5.0,0.000240673886883,0.000399808092116  
attendees 2.0,0.0,0.000240673886883,0.0  
tracked 1.0,0.0,0.000120336943442,0.0  
for 101.0,153.0,0.0121540312876,0.0122341276187  
bottom 0.0,2.0,0.0,0.000159923236846  
priicce 0.0,1.0,0.0,7.99616184232e-05  
notification 1.0,0.0,0.000120336943442,0.0  
ica 0.0,1.0,0.0,7.99616184232e-05  
normal 0.0,8.0,0.0,0.000639692947385  
daytime 0.0,2.0,0.0,0.000159923236846  
everything 1.0,1.0,0.000120336943442,7.99616184232e-05  
asking 3.0,4.0,0.000361010830325,0.000319846473693  
allocate 1.0,0.0,0.000120336943442,0.0  
420 0.0,1.0,0.0,7.99616184232e-05  
423 0.0,2.0,0.0,0.000159923236846  
422 0.0,4.0,0.0,0.000319846473693  
christmas 4.0,0.0,0.000481347773767,0.0  
participation 1.0,0.0,0.000120336943442,0.0  
core 0.0,1.0,0.0,7.99616184232e-05  
precluded 1.0,0.0,0.000120336943442,0.0  
bold 0.0,2.0,0.0,0.000159923236846  
novelties 0.0,1.0,0.0,7.99616184232e-05  
subscriptions 0.0,1.0,0.0,7.99616184232e-05  
marketing 6.0,12.0,0.00072202166065,0.000959539421078  
cochilco 0.0,1.0,0.0,7.99616184232e-05  
of 103.0,224.0,0.0123947051745,0.0179114025268  
constructive 1.0,0.0,0.000120336943442,0.0  
discount 0.0,1.0,0.0,7.99616184232e-05  
swings 0.0,1.0,0.0,7.99616184232e-05

corp 13.0,2.0,0.00156438026474,0.000159923236846  
upward 0.0,1.0,0.0,7.99616184232e-05  
post 0.0,5.0,0.0,0.000399808092116  
super 0.0,4.0,0.0,0.000319846473693  
repling 1.0,0.0,0.000120336943442,0.0  
marketers 0.0,1.0,0.0,7.99616184232e-05  
transalta 1.0,0.0,0.000120336943442,0.0  
928976257 1.0,0.0,0.000120336943442,0.0  
banked 0.0,1.0,0.0,7.99616184232e-05  
hard 1.0,5.0,0.000120336943442,0.000399808092116  
coral 3.0,1.0,0.000361010830325,7.99616184232e-05  
months 3.0,5.0,0.000361010830325,0.000399808092116  
o 1.0,4.0,0.000120336943442,0.000319846473693  
tendererlycopodium 0.0,1.0,0.0,7.99616184232e-05  
dinner 2.0,0.0,0.000240673886883,0.0  
ensure 0.0,2.0,0.0,0.000159923236846  
banker 2.0,0.0,0.000240673886883,0.0  
steadily 0.0,1.0,0.0,7.99616184232e-05  
eight 0.0,2.0,0.0,0.000159923236846  
efforts 1.0,0.0,0.000120336943442,0.0  
252050406 1.0,0.0,0.000120336943442,0.0  
automatically 0.0,3.0,0.0,0.000239884855269  
evelon 0.0,1.0,0.0,7.99616184232e-05  
duke 3.0,0.0,0.000361010830325,0.0  
raised 0.0,2.0,0.0,0.000159923236846  
destination 0.0,2.0,0.0,0.000159923236846  
managers 1.0,0.0,0.000120336943442,0.0  
presence 2.0,0.0,0.000240673886883,0.0  
yoursuccess 0.0,2.0,0.0,0.000159923236846  
splitting 0.0,1.0,0.0,7.99616184232e-05  
bound 0.0,1.0,0.0,7.99616184232e-05  
bonnard 1.0,0.0,0.000120336943442,0.0  
down 0.0,5.0,0.0,0.000399808092116  
sos 1.0,0.0,0.000120336943442,0.0  
raises 0.0,2.0,0.0,0.000159923236846  
frightened 0.0,1.0,0.0,7.99616184232e-05  
giv 0.0,1.0,0.0,7.99616184232e-05  
4748 1.0,0.0,0.000120336943442,0.0  
gis 1.0,0.0,0.000120336943442,0.0  
crowd 0.0,1.0,0.0,7.99616184232e-05

sally 22.0,0.0,0.00264741275572,0.0  
support 3.0,2.0,0.000361010830325,0.000159923236846  
etacitne 0.0,1.0,0.0,7.99616184232e-05  
114427 1.0,0.0,0.000120336943442,0.0  
why 0.0,5.0,0.0,0.000399808092116  
accordingly 0.0,1.0,0.0,7.99616184232e-05  
joseph 0.0,2.0,0.0,0.000159923236846  
authorized 0.0,1.0,0.0,7.99616184232e-05  
fraction 0.0,3.0,0.0,0.000239884855269  
jane 1.0,0.0,0.000120336943442,0.0  
music 1.0,0.0,0.000120336943442,0.0  
jana 0.0,3.0,0.0,0.000239884855269  
war 0.0,2.0,0.0,0.000159923236846  
linkpaks 0.0,4.0,0.0,0.000319846473693  
fork 0.0,2.0,0.0,0.000159923236846  
head 0.0,3.0,0.0,0.000239884855269  
pcenergy 3.0,0.0,0.000361010830325,0.0  
form 0.0,5.0,0.0,0.000399808092116  
diligence 0.0,1.0,0.0,7.99616184232e-05  
some 28.0,22.0,0.00336943441637,0.00175915560531  
heal 1.0,0.0,0.000120336943442,0.0  
recommend 1.0,0.0,0.000120336943442,0.0  
removes 0.0,1.0,0.0,7.99616184232e-05  
lawn 1.0,0.0,0.000120336943442,0.0  
oil 1.0,0.0,0.000120336943442,0.0  
ford 1.0,0.0,0.000120336943442,0.0  
pricked 0.0,1.0,0.0,7.99616184232e-05  
economic 0.0,2.0,0.0,0.000159923236846  
hear 1.0,0.0,0.000120336943442,0.0  
elderly 0.0,1.0,0.0,7.99616184232e-05  
229 2.0,0.0,0.000240673886883,0.0  
syndicate 0.0,1.0,0.0,7.99616184232e-05  
224 1.0,0.0,0.000120336943442,0.0  
nodded 0.0,1.0,0.0,7.99616184232e-05  
analyst 1.0,1.0,0.000120336943442,7.99616184232e-05  
bernice 1.0,0.0,0.000120336943442,0.0  
absent 1.0,0.0,0.000120336943442,0.0  
congratulations 2.0,0.0,0.000240673886883,0.0  
0643 1.0,0.0,0.000120336943442,0.0  
full 1.0,22.0,0.000120336943442,0.00175915560531

markets 5.0,0.0,0.000601684717208,0.0  
inside 0.0,2.0,0.0,0.000159923236846  
attached 6.0,0.0,0.00072202166065,0.0  
until 6.0,4.0,0.00072202166065,0.000319846473693  
crystal 0.0,2.0,0.0,0.000159923236846  
catalyze 2.0,0.0,0.000240673886883,0.0  
pest 0.0,1.0,0.0,7.99616184232e-05  
benchmarks 2.0,0.0,0.000240673886883,0.0  
richarddaniel 1.0,0.0,0.000120336943442,0.0  
attn 0.0,2.0,0.0,0.000159923236846  
delete 7.0,0.0,0.000842358604091,0.0  
frightrob 0.0,1.0,0.0,7.99616184232e-05  
150 0.0,1.0,0.0,7.99616184232e-05  
strengthening 1.0,0.0,0.000120336943442,0.0  
moore 20.0,0.0,0.00240673886883,0.0  
stronger 1.0,1.0,0.000120336943442,7.99616184232e-05  
paragraphs 0.0,1.0,0.0,7.99616184232e-05  
proven 0.0,1.0,0.0,7.99616184232e-05  
hungry 0.0,1.0,0.0,7.99616184232e-05  
critique 0.0,1.0,0.0,7.99616184232e-05  
sometime 1.0,0.0,0.000120336943442,0.0  
exist 0.0,2.0,0.0,0.000159923236846  
promised 0.0,1.0,0.0,7.99616184232e-05  
openpage 0.0,1.0,0.0,7.99616184232e-05  
accounting 4.0,0.0,0.000481347773767,0.0  
annoying 1.0,0.0,0.000120336943442,0.0  
distributions 1.0,0.0,0.000120336943442,0.0  
check 1.0,1.0,0.000120336943442,7.99616184232e-05  
physical 4.0,0.0,0.000481347773767,0.0  
pipe 1.0,0.0,0.000120336943442,0.0  
engines 0.0,2.0,0.0,0.000159923236846  
solicitation 0.0,1.0,0.0,7.99616184232e-05  
pre 0.0,2.0,0.0,0.000159923236846  
floor 2.0,0.0,0.000240673886883,0.0  
na 2.0,3.0,0.000240673886883,0.000239884855269  
stake 0.0,1.0,0.0,7.99616184232e-05  
nd 2.0,1.0,0.000240673886883,7.99616184232e-05  
actor 0.0,1.0,0.0,7.99616184232e-05  
cliffhanger 0.0,2.0,0.0,0.000159923236846  
flood 0.0,1.0,0.0,7.99616184232e-05

tin 0.0,5.0,0.0,0.000399808092116  
interested 2.0,3.0,0.000240673886883,0.000239884855269  
role 10.0,0.0,0.00120336943442,0.0  
unsubscribed 0.0,1.0,0.0,7.99616184232e-05  
holding 0.0,1.0,0.0,7.99616184232e-05  
digital 0.0,1.0,0.0,7.99616184232e-05  
hoffman 2.0,0.0,0.000240673886883,0.0  
realize 0.0,2.0,0.0,0.000159923236846  
62413 1.0,0.0,0.000120336943442,0.0  
alleviates 0.0,1.0,0.0,7.99616184232e-05  
lollipops 0.0,1.0,0.0,7.99616184232e-05  
put 2.0,7.0,0.000240673886883,0.000559731328962  
081 2.0,0.0,0.000240673886883,0.0  
welcome 2.0,0.0,0.000240673886883,0.0  
update 8.0,1.0,0.000962695547533,7.99616184232e-05  
llittle 1.0,0.0,0.000120336943442,0.0  
walton 2.0,0.0,0.000240673886883,0.0  
outback 0.0,1.0,0.0,7.99616184232e-05  
fell 0.0,2.0,0.0,0.000159923236846  
invested 0.0,1.0,0.0,7.99616184232e-05  
weekend 2.0,0.0,0.000240673886883,0.0  
jones 3.0,0.0,0.000361010830325,0.0  
faster 1.0,0.0,0.000120336943442,0.0  
paces 0.0,1.0,0.0,7.99616184232e-05  
moved 1.0,1.0,0.000120336943442,7.99616184232e-05  
grading 0.0,1.0,0.0,7.99616184232e-05  
94105 1.0,0.0,0.000120336943442,0.0  
daily 2.0,1.0,0.000240673886883,7.99616184232e-05  
beds 0.0,3.0,0.0,0.000239884855269  
loyal 0.0,2.0,0.0,0.000159923236846  
safe 1.0,2.0,0.000120336943442,0.000159923236846  
text 2.0,11.0,0.000240673886883,0.000879577802655  
reception 1.0,0.0,0.000120336943442,0.0  
time 11.0,20.0,0.00132370637786,0.00159923236846  
serious 0.0,1.0,0.0,7.99616184232e-05  
inc 9.0,2.0,0.00108303249097,0.000159923236846  
precedent 0.0,1.0,0.0,7.99616184232e-05  
others 2.0,0.0,0.000240673886883,0.0  
songs 1.0,0.0,0.000120336943442,0.0  
ivoire 0.0,3.0,0.0,0.000239884855269

now 5.0,10.0,0.000601684717208,0.000799616184232  
managed 2.0,4.0,0.000240673886883,0.000319846473693  
emove 0.0,1.0,0.0,7.99616184232e-05  
strengthened 0.0,1.0,0.0,7.99616184232e-05  
rob 0.0,3.0,0.0,0.000239884855269  
global 20.0,1.0,0.00240673886883,7.99616184232e-05  
people 0.0,20.0,0.0,0.00159923236846  
focus 1.0,0.0,0.000120336943442,0.0  
deliveries 2.0,0.0,0.000240673886883,0.0  
leads 0.0,7.0,0.0,0.000559731328962  
hris 1.0,0.0,0.000120336943442,0.0  
manages 2.0,0.0,0.000240673886883,0.0  
comments 0.0,10.0,0.0,0.000799616184232  
skin 0.0,1.0,0.0,7.99616184232e-05  
lauri 4.0,0.0,0.000481347773767,0.0  
commentaries 0.0,2.0,0.0,0.000159923236846  
dextails 0.0,1.0,0.0,7.99616184232e-05  
hijacked 0.0,2.0,0.0,0.000159923236846  
certainly 0.0,3.0,0.0,0.000239884855269  
hold 0.0,2.0,0.0,0.000159923236846  
littenecker 1.0,0.0,0.000120336943442,0.0  
clarification 0.0,1.0,0.0,7.99616184232e-05  
trademarked 0.0,2.0,0.0,0.000159923236846  
producing 1.0,0.0,0.000120336943442,0.0  
sylg 0.0,1.0,0.0,7.99616184232e-05  
father 0.0,4.0,0.0,0.000319846473693  
webmaster 0.0,1.0,0.0,7.99616184232e-05  
environment 0.0,3.0,0.0,0.000239884855269  
0 40.0,2.0,0.00481347773767,0.000159923236846  
charge 2.0,4.0,0.000240673886883,0.000319846473693  
promoting 0.0,2.0,0.0,0.000159923236846  
marks 0.0,2.0,0.0,0.000159923236846  
pay 0.0,3.0,0.0,0.000239884855269  
jubilar 0.0,1.0,0.0,7.99616184232e-05  
must 0.0,6.0,0.0,0.000479769710539  
bybtb 0.0,1.0,0.0,7.99616184232e-05  
stove 0.0,1.0,0.0,7.99616184232e-05  
816 2.0,0.0,0.000240673886883,0.0  
gssgeomatics 0.0,1.0,0.0,7.99616184232e-05  
advises 1.0,0.0,0.000120336943442,0.0

division 1.0,0.0,0.000120336943442,0.0  
jauregui 1.0,0.0,0.000120336943442,0.0  
consolidation 2.0,1.0,0.000240673886883,7.99616184232e-05  
choice 0.0,1.0,0.0,7.99616184232e-05  
kaminski 11.0,0.0,0.00132370637786,0.0  
lynch 1.0,0.0,0.000120336943442,0.0  
entries 0.0,2.0,0.0,0.000159923236846  
cook 3.0,0.0,0.000361010830325,0.0  
ma 0.0,2.0,0.0,0.000159923236846  
exact 1.0,0.0,0.000120336943442,0.0  
roving 0.0,4.0,0.0,0.000319846473693  
minute 1.0,1.0,0.000120336943442,7.99616184232e-05  
cool 3.0,0.0,0.000361010830325,0.0  
aggressively 2.0,0.0,0.000240673886883,0.0  
perceived 0.0,1.0,0.0,7.99616184232e-05  
foo 1.0,0.0,0.000120336943442,0.0  
impressive 0.0,1.0,0.0,7.99616184232e-05  
level 1.0,2.0,0.000120336943442,0.000159923236846  
did 3.0,4.0,0.000361010830325,0.000319846473693  
rights 0.0,3.0,0.0,0.000239884855269  
orgoto 0.0,1.0,0.0,7.99616184232e-05  
leave 1.0,0.0,0.000120336943442,0.0  
mm 1.0,0.0,0.000120336943442,0.0  
science 0.0,1.0,0.0,7.99616184232e-05  
quick 1.0,1.0,0.000120336943442,7.99616184232e-05  
guy 1.0,1.0,0.000120336943442,7.99616184232e-05  
round 0.0,1.0,0.0,7.99616184232e-05  
bd 0.0,5.0,0.0,0.000399808092116  
revolution 0.0,2.0,0.0,0.000159923236846  
says 1.0,1.0,0.000120336943442,7.99616184232e-05  
htm 0.0,1.0,0.0,7.99616184232e-05  
discover 0.0,1.0,0.0,7.99616184232e-05  
sign 1.0,3.0,0.000120336943442,0.000239884855269  
cost 2.0,2.0,0.000240673886883,0.000159923236846  
trisha 1.0,0.0,0.000120336943442,0.0  
run 0.0,1.0,0.0,7.99616184232e-05  
bacterial 0.0,1.0,0.0,7.99616184232e-05  
epam 0.0,2.0,0.0,0.000159923236846  
workforce 1.0,0.0,0.000120336943442,0.0  
appear 1.0,1.0,0.000120336943442,7.99616184232e-05

bargain 0.0,1.0,0.0,7.99616184232e-05  
assistance 1.0,7.0,0.000120336943442,0.000559731328962  
zaako 0.0,1.0,0.0,7.99616184232e-05  
jshorter 1.0,0.0,0.000120336943442,0.0  
rm 0.0,1.0,0.0,7.99616184232e-05  
current 3.0,3.0,0.000361010830325,0.000239884855269  
rub 0.0,1.0,0.0,7.99616184232e-05  
annals 0.0,1.0,0.0,7.99616184232e-05  
axel 2.0,0.0,0.000240673886883,0.0  
521 1.0,0.0,0.000120336943442,0.0  
international 0.0,2.0,0.0,0.000159923236846  
1016 0.0,1.0,0.0,7.99616184232e-05  
dxqrgu 0.0,1.0,0.0,7.99616184232e-05  
529 0.0,3.0,0.0,0.000239884855269  
alertness 0.0,1.0,0.0,7.99616184232e-05  
supporting 2.0,1.0,0.000240673886883,7.99616184232e-05  
xacnax 0.0,1.0,0.0,7.99616184232e-05  
transportation 2.0,0.0,0.000240673886883,0.0  
submitted 1.0,0.0,0.000120336943442,0.0  
prescriptions 0.0,1.0,0.0,7.99616184232e-05  
michele 1.0,0.0,0.000120336943442,0.0  
v 1.0,4.0,0.000120336943442,0.000319846473693  
tinned 0.0,1.0,0.0,7.99616184232e-05  
understanding 5.0,2.0,0.000601684717208,0.000159923236846  
water 0.0,1.0,0.0,7.99616184232e-05  
slow 1.0,0.0,0.000120336943442,0.0  
apachi 1.0,0.0,0.000120336943442,0.0  
mcbeal 1.0,0.0,0.000120336943442,0.0  
groups 1.0,0.0,0.000120336943442,0.0  
address 1.0,16.0,0.000120336943442,0.00127938589477  
alone 0.0,1.0,0.0,7.99616184232e-05  
monies 0.0,1.0,0.0,7.99616184232e-05  
along 0.0,3.0,0.0,0.000239884855269  
appears 1.0,0.0,0.000120336943442,0.0  
change 6.0,7.0,0.00072202166065,0.000559731328962  
benson 0.0,1.0,0.0,7.99616184232e-05  
box 0.0,18.0,0.0,0.00143930913162  
buck 1.0,0.0,0.000120336943442,0.0  
male 0.0,3.0,0.0,0.000239884855269  
thirty 0.0,3.0,0.0,0.000239884855269

shift 1.0,1.0,0.000120336943442,7.99616184232e-05  
funded 1.0,0.0,0.000120336943442,0.0  
roared 0.0,1.0,0.0,7.99616184232e-05  
trial 0.0,3.0,0.0,0.000239884855269  
women 0.0,1.0,0.0,7.99616184232e-05  
hone 0.0,1.0,0.0,7.99616184232e-05  
cargill 2.0,0.0,0.000240673886883,0.0  
lamps 0.0,1.0,0.0,7.99616184232e-05  
bob 6.0,0.0,0.00072202166065,0.0  
myers 1.0,0.0,0.000120336943442,0.0  
431 1.0,0.0,0.000120336943442,0.0  
love 1.0,0.0,0.000120336943442,0.0  
lasts 0.0,1.0,0.0,7.99616184232e-05  
extra 2.0,1.0,0.000240673886883,7.99616184232e-05  
pentium 0.0,1.0,0.0,7.99616184232e-05  
sincerely 0.0,1.0,0.0,7.99616184232e-05  
snowboard 1.0,0.0,0.000120336943442,0.0  
licensing 0.0,1.0,0.0,7.99616184232e-05  
operational 4.0,0.0,0.000481347773767,0.0  
pitchers 0.0,1.0,0.0,7.99616184232e-05  
market 8.0,1.0,0.000962695547533,7.99616184232e-05  
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vastar 6.0,0.0,0.00072202166065,0.0  
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working 4.0,3.0,0.000481347773767,0.000239884855269  
prove 0.0,2.0,0.0,0.000159923236846  
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visit 1.0,19.0,0.000120336943442,0.00151927075004  
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group 11.0,3.0,0.00132370637786,0.000239884855269  
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anyone 1.0,4.0,0.000120336943442,0.000319846473693

esiear 0.0,2.0,0.0,0.000159923236846  
2 18.0,22.0,0.00216606498195,0.00175915560531  
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manager 4.0,0.0,0.000481347773767,0.0  
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thousainds 0.0,1.0,0.0,7.99616184232e-05  
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two 8.0,9.0,0.000962695547533,0.000719654565808  
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month 2.0,8.0,0.000240673886883,0.000639692947385
ceased 0.0,1.0,0.0,7.99616184232e-05
unblock 0.0,1.0,0.0,7.99616184232e-05
causey 4.0,0.0,0.000481347773767,0.0
```

zinc 0.0,1.0,0.0,7.99616184232e-05  
smoking 0.0,5.0,0.0,0.000399808092116  
dish 0.0,3.0,0.0,0.000239884855269  
follow 0.0,4.0,0.0,0.000319846473693  
mining 0.0,7.0,0.0,0.000559731328962  
children 0.0,1.0,0.0,7.99616184232e-05  
rd 1.0,0.0,0.000120336943442,0.0  
careful 0.0,1.0,0.0,7.99616184232e-05  
tx 2.0,1.0,0.000240673886883,7.99616184232e-05  
re 19.0,7.0,0.00228640192539,0.000559731328962  
tw 1.0,0.0,0.000120336943442,0.0  
tr 0.0,2.0,0.0,0.000159923236846  
opportunities 4.0,1.0,0.000481347773767,7.99616184232e-05  
pricing 2.0,2.0,0.000240673886883,0.000159923236846  
to 220.0,377.0,0.0264741275572,0.0301455301455  
program 1.0,3.0,0.000120336943442,0.000239884855269  
chewing 0.0,2.0,0.0,0.000159923236846  
present 1.0,0.0,0.000120336943442,0.0  
solicit 0.0,1.0,0.0,7.99616184232e-05  
scratch 0.0,1.0,0.0,7.99616184232e-05  
safety 0.0,1.0,0.0,7.99616184232e-05  
government 1.0,4.0,0.000120336943442,0.000319846473693  
pilot 6.0,0.0,0.00072202166065,0.0  
ghana 0.0,2.0,0.0,0.000159923236846  
activities 7.0,0.0,0.000842358604091,0.0  
fax 3.0,4.0,0.000361010830325,0.000319846473693  
ium 0.0,2.0,0.0,0.000159923236846  
ok 0.0,1.0,0.0,7.99616184232e-05  
confidential 0.0,1.0,0.0,7.99616184232e-05  
far 1.0,2.0,0.000120336943442,0.000159923236846  
horror 0.0,1.0,0.0,7.99616184232e-05  
146907159 1.0,0.0,0.000120336943442,0.0  
myinput 0.0,4.0,0.0,0.000319846473693  
fat 0.0,1.0,0.0,7.99616184232e-05  
results 1.0,4.0,0.000120336943442,0.000319846473693  
personnel 5.0,0.0,0.000601684717208,0.0  
fall 0.0,1.0,0.0,7.99616184232e-05  
ticket 1.0,0.0,0.000120336943442,0.0  
existing 0.0,1.0,0.0,7.99616184232e-05  
condition 0.0,2.0,0.0,0.000159923236846

mild 0.0,2.0,0.0,0.000159923236846  
bypasses 0.0,1.0,0.0,7.99616184232e-05  
deficient 0.0,1.0,0.0,7.99616184232e-05  
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works 3.0,5.0,0.000361010830325,0.000399808092116  
list 1.0,8.0,0.000120336943442,0.000639692947385  
joined 2.0,0.0,0.000240673886883,0.0  
transcanada 2.0,0.0,0.000240673886883,0.0  
clemons 0.0,1.0,0.0,7.99616184232e-05  
sand 0.0,1.0,0.0,7.99616184232e-05  
users 0.0,1.0,0.0,7.99616184232e-05  
harry 1.0,0.0,0.000120336943442,0.0  
small 0.0,1.0,0.0,7.99616184232e-05  
tear 0.0,1.0,0.0,7.99616184232e-05  
anal 0.0,1.0,0.0,7.99616184232e-05  
clinches 0.0,1.0,0.0,7.99616184232e-05  
palaeo 0.0,1.0,0.0,7.99616184232e-05  
pwarden 1.0,0.0,0.000120336943442,0.0  
tea 0.0,2.0,0.0,0.000159923236846  
paso 2.0,0.0,0.000240673886883,0.0  
reins 0.0,1.0,0.0,7.99616184232e-05  
past 2.0,1.0,0.000240673886883,7.99616184232e-05  
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pass 0.0,1.0,0.0,7.99616184232e-05  
businessopps 0.0,1.0,0.0,7.99616184232e-05  
further 2.0,1.0,0.000240673886883,7.99616184232e-05  
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investment 2.0,13.0,0.000240673886883,0.0010395010395  
returned 0.0,1.0,0.0,7.99616184232e-05  
cigars 0.0,1.0,0.0,7.99616184232e-05  
will 64.0,47.0,0.00770156438026,0.00375819606589  
dial 1.0,1.0,0.000120336943442,7.99616184232e-05  
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consumers 0.0,1.0,0.0,7.99616184232e-05  
forestall 0.0,1.0,0.0,7.99616184232e-05  
section 1.0,2.0,0.000120336943442,0.000159923236846

resume 3.0,0.0,0.000361010830325,0.0  
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thickness 0.0,1.0,0.0,7.99616184232e-05  
version 6.0,2.0,0.00072202166065,0.000159923236846  
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sup 0.0,1.0,0.0,7.99616184232e-05  
certificates 0.0,1.0,0.0,7.99616184232e-05  
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method 1.0,0.0,0.000120336943442,0.0  
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christian 0.0,1.0,0.0,7.99616184232e-05  
christi 1.0,0.0,0.000120336943442,0.0  
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klei 0.0,1.0,0.0,7.99616184232e-05  
favourably 0.0,1.0,0.0,7.99616184232e-05  
answers 0.0,6.0,0.0,0.000479769710539  
resulted 0.0,2.0,0.0,0.000159923236846  
hours 17.0,3.0,0.00204572803851,0.000239884855269  
9489 0.0,1.0,0.0,7.99616184232e-05  
killings 0.0,2.0,0.0,0.000159923236846  
australiasds 0.0,1.0,0.0,7.99616184232e-05  
excess 0.0,1.0,0.0,7.99616184232e-05  
directions 1.0,2.0,0.000120336943442,0.000159923236846  
soon 1.0,1.0,0.000120336943442,7.99616184232e-05  
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puc 1.0,0.0,0.000120336943442,0.0  
shows 1.0,0.0,0.000120336943442,0.0  
verbry 0.0,1.0,0.0,7.99616184232e-05  
publishes 0.0,1.0,0.0,7.99616184232e-05  
pleasant 1.0,0.0,0.000120336943442,0.0  
900 0.0,1.0,0.0,7.99616184232e-05  
1848 0.0,1.0,0.0,7.99616184232e-05  
colored 2.0,0.0,0.000240673886883,0.0  
stelly 1.0,0.0,0.000120336943442,0.0  
908 1.0,0.0,0.000120336943442,0.0  
allows 1.0,1.0,0.000120336943442,7.99616184232e-05  
mirant 1.0,0.0,0.000120336943442,0.0  
brutal 0.0,1.0,0.0,7.99616184232e-05

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peaking 0.0,1.0,0.0,7.99616184232e-05  
prior 7.0,0.0,0.000842358604091,0.0  
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advertising 0.0,3.0,0.0,0.000239884855269  
musically 0.0,1.0,0.0,7.99616184232e-05  
pick 2.0,0.0,0.000240673886883,0.0  
action 0.0,1.0,0.0,7.99616184232e-05  
schott 1.0,0.0,0.000120336943442,0.0  
ellendale 0.0,2.0,0.0,0.000159923236846  
shandong 0.0,1.0,0.0,7.99616184232e-05  
proxy 0.0,7.0,0.0,0.000559731328962  
vic 0.0,2.0,0.0,0.000159923236846  
via 1.0,6.0,0.000120336943442,0.000479769710539  
followed 0.0,2.0,0.0,0.000159923236846  
mc 0.0,1.0,0.0,7.99616184232e-05  
family 0.0,1.0,0.0,7.99616184232e-05  
taxation 0.0,1.0,0.0,7.99616184232e-05  
requiring 0.0,1.0,0.0,7.99616184232e-05  
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ask 2.0,3.0,0.000240673886883,0.000239884855269  
send 1.0,15.0,0.000120336943442,0.00119942427635  
establish 2.0,4.0,0.000240673886883,0.000319846473693  
estimate 1.0,1.0,0.000120336943442,7.99616184232e-05  
ve 9.0,7.0,0.000108303249097,0.000559731328962  
attendance 1.0,0.0,0.000120336943442,0.0  
freese 1.0,0.0,0.000120336943442,0.0  
proceed 0.0,2.0,0.0,0.000159923236846  
contains 0.0,2.0,0.0,0.000159923236846  
single 0.0,2.0,0.0,0.000159923236846  
finally 2.0,0.0,0.000240673886883,0.0  
vote 0.0,7.0,0.0,0.000559731328962  
6 6.0,4.0,0.00072202166065,0.000319846473693  
taken 1.0,0.0,0.000120336943442,0.0  
hurrah 0.0,1.0,0.0,7.99616184232e-05  
minor 0.0,1.0,0.0,7.99616184232e-05  
more 7.0,31.0,0.000842358604091,0.00247881017112  
flat 0.0,5.0,0.0,0.000399808092116  
diamond 0.0,2.0,0.0,0.000159923236846  
door 2.0,2.0,0.000240673886883,0.000159923236846

knows 0.0,2.0,0.0,0.000159923236846  
caboose 0.0,1.0,0.0,7.99616184232e-05  
redesigns 0.0,1.0,0.0,7.99616184232e-05  
company 6.0,10.0,0.00072202166065,0.000799616184232  
problem 1.0,3.0,0.000120336943442,0.000239884855269  
retarding 0.0,1.0,0.0,7.99616184232e-05  
commenced 1.0,0.0,0.000120336943442,0.0  
basically 0.0,1.0,0.0,7.99616184232e-05  
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known 0.0,1.0,0.0,7.99616184232e-05  
hurry 1.0,1.0,0.000120336943442,7.99616184232e-05  
finalization 1.0,0.0,0.000120336943442,0.0  
krill 1.0,0.0,0.000120336943442,0.0  
glad 1.0,0.0,0.000120336943442,0.0  
presumed 1.0,0.0,0.000120336943442,0.0  
town 0.0,2.0,0.0,0.000159923236846  
helped 0.0,1.0,0.0,7.99616184232e-05  
keeping 0.0,3.0,0.0,0.000239884855269  
33282 1.0,0.0,0.000120336943442,0.0  
shared 2.0,0.0,0.000240673886883,0.0  
hour 0.0,1.0,0.0,7.99616184232e-05  
startbgmlmezine 0.0,1.0,0.0,7.99616184232e-05  
phillip 1.0,0.0,0.000120336943442,0.0  
paragraph 0.0,1.0,0.0,7.99616184232e-05  
nine 0.0,1.0,0.0,7.99616184232e-05  
sent 5.0,6.0,0.000601684717208,0.000479769710539  
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dea 0.0,1.0,0.0,7.99616184232e-05  
dec 6.0,0.0,0.00072202166065,0.0  
star 0.0,2.0,0.0,0.000159923236846  
history 0.0,1.0,0.0,7.99616184232e-05  
compare 0.0,5.0,0.0,0.000399808092116  
finland 0.0,1.0,0.0,7.99616184232e-05  
challenging 1.0,2.0,0.000120336943442,0.000159923236846  
pushes 0.0,1.0,0.0,7.99616184232e-05  
brown 1.0,0.0,0.000120336943442,0.0  
rodriguez 2.0,0.0,0.000240673886883,0.0  
share 1.0,4.0,0.000120336943442,0.000319846473693  
ps 0.0,1.0,0.0,7.99616184232e-05

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states 1.0,3.0,0.000120336943442,0.000239884855269
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numbers 1.0,2.0,0.000120336943442,0.000159923236846
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sense 1.0,0.0,0.000120336943442,0.0
wisew 1.0,0.0,0.000120336943442,0.0
beale 1.0,0.0,0.000120336943442,0.0
huge 0.0,2.0,0.0,0.000159923236846
needs 6.0,2.0,0.00072202166065,0.000159923236846
court 1.0,0.0,0.000120336943442,0.0
goal 0.0,4.0,0.0,0.000319846473693
explaing 2.0,0.0,0.000240673886883,0.0
62163 1.0,0.0,0.000120336943442,0.0
plans 1.0,0.0,0.000120336943442,0.0
breaking 0.0,1.0,0.0,7.99616184232e-05
shipped 0.0,1.0,0.0,7.99616184232e-05
stayed 1.0,0.0,0.000120336943442,0.0
murmur 0.0,1.0,0.0,7.99616184232e-05
johannesburg 0.0,2.0,0.0,0.000159923236846
calme 1.0,0.0,0.000120336943442,0.0
leederville 0.0,1.0,0.0,7.99616184232e-05
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fp 0.0,1.0,0.0,7.99616184232e-05
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plant 0.0,1.0,0.0,7.99616184232e-05
ft 0.0,2.0,0.0,0.000159923236846
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advice 0.0,2.0,0.0,0.000159923236846
damorganjr 0.0,1.0,0.0,7.99616184232e-05
brett 3.0,0.0,0.000361010830325,0.0
par 0.0,2.0,0.0,0.000159923236846
rudl 0.0,1.0,0.0,7.99616184232e-05
replace 0.0,1.0,0.0,7.99616184232e-05
catalog 0.0,3.0,0.0,0.000239884855269
disable 0.0,1.0,0.0,7.99616184232e-05
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fh 2.0,0.0,0.000240673886883,0.0  
capitalize 0.0,1.0,0.0,7.99616184232e-05  
response 0.0,4.0,0.0,0.000319846473693  
a 100.0,222.0,0.0120336943442,0.0177514792899  
short 0.0,2.0,0.0,0.000159923236846  
susan 7.0,0.0,0.0,0.000842358604091,0.0  
travis 1.0,0.0,0.000120336943442,0.0  
author 0.0,3.0,0.0,0.000239884855269  
overnight 0.0,2.0,0.0,0.000159923236846  
coal 0.0,2.0,0.0,0.000159923236846  
ego 2.0,0.0,0.000240673886883,0.0  
fundamental 2.0,0.0,0.000240673886883,0.0  
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banks 0.0,1.0,0.0,7.99616184232e-05  
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255326837 1.0,0.0,0.000120336943442,0.0  
toolbar 0.0,7.0,0.0,0.000559731328962  
photoshop 0.0,1.0,0.0,7.99616184232e-05  
missss 0.0,1.0,0.0,7.99616184232e-05  
barnard 1.0,0.0,0.000120336943442,0.0  
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incessantly 0.0,1.0,0.0,7.99616184232e-05  
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tramadol 0.0,2.0,0.0,0.000159923236846  
trade 3.0,14.0,0.000361010830325,0.00111946265792  
held 3.0,0.0,0.000361010830325,0.0  
already 5.0,3.0,0.000601684717208,0.000239884855269  
scott 2.0,0.0,0.000240673886883,0.0  
499 0.0,2.0,0.0,0.000159923236846  
committee 0.0,2.0,0.0,0.000159923236846  
replies 0.0,2.0,0.0,0.000159923236846  
27049 2.0,0.0,0.000240673886883,0.0  
its 5.0,16.0,0.000601684717208,0.00127938589477  
fischer 1.0,0.0,0.000120336943442,0.0  
24 18.0,3.0,0.00216606498195,0.000239884855269  
25 0.0,6.0,0.0,0.000479769710539  
26 3.0,2.0,0.000361010830325,0.000159923236846

27 1.0,1.0,0.000120336943442,7.99616184232e-05  
20 6.0,8.0,0.00072202166065,0.000639692947385  
21 1.0,1.0,0.000120336943442,7.99616184232e-05  
22 5.0,1.0,0.000601684717208,7.99616184232e-05  
23 0.0,2.0,0.0,0.000159923236846  
misspelled 0.0,1.0,0.0,7.99616184232e-05  
pcp 1.0,0.0,0.000120336943442,0.0  
sale 1.0,5.0,0.000120336943442,0.000399808092116  
28 2.0,7.0,0.000240673886883,0.000559731328962  
29 2.0,4.0,0.000240673886883,0.000319846473693  
alli 1.0,0.0,0.000120336943442,0.0  
actually 0.0,2.0,0.0,0.000159923236846  
late 3.0,2.0,0.000361010830325,0.000159923236846  
resort 2.0,0.0,0.000240673886883,0.0  
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idirect 0.0,1.0,0.0,7.99616184232e-05  
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upping 0.0,1.0,0.0,7.99616184232e-05  
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pierre 1.0,0.0,0.000120336943442,0.0  
wouldn 0.0,2.0,0.0,0.000159923236846  
malina 2.0,0.0,0.000240673886883,0.0  
evening 0.0,2.0,0.0,0.000159923236846  
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villarreal 1.0,0.0,0.000120336943442,0.0  
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oconan 0.0,2.0,0.0,0.000159923236846  
mccullough 1.0,0.0,0.000120336943442,0.0  
units 2.0,0.0,0.000240673886883,0.0  
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signing 0.0,1.0,0.0,7.99616184232e-05  
foot 0.0,2.0,0.0,0.000159923236846  
vaughn 3.0,0.0,0.000361010830325,0.0

odin 0.0,2.0,0.0,0.000159923236846  
association 1.0,0.0,0.000120336943442,0.0  
instructions 0.0,3.0,0.0,0.000239884855269  
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ranen 1.0,0.0,0.000120336943442,0.0  
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yearno 0.0,1.0,0.0,7.99616184232e-05  
events 0.0,2.0,0.0,0.000159923236846  
bless 0.0,3.0,0.0,0.000239884855269  
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found 0.0,1.0,0.0,7.99616184232e-05  
joel 0.0,6.0,0.0,0.000479769710539  
benewm 1.0,0.0,0.000120336943442,0.0  
referred 1.0,1.0,0.000120336943442,7.99616184232e-05  
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since 7.0,1.0,0.000842358604091,7.99616184232e-05  
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use 1.0,13.0,0.000120336943442,0.0010395010395  
probably 2.0,3.0,0.000240673886883,0.000239884855269  
wide 0.0,1.0,0.0,7.99616184232e-05  
available 4.0,6.0,0.000481347773767,0.000479769710539  
seeded 0.0,1.0,0.0,7.99616184232e-05  
korea 0.0,1.0,0.0,7.99616184232e-05  
recently 4.0,0.0,0.000481347773767,0.0  
iron 0.0,2.0,0.0,0.000159923236846  
uuz 0.0,1.0,0.0,7.99616184232e-05  
initially 1.0,2.0,0.000120336943442,0.000159923236846  
attention 0.0,1.0,0.0,7.99616184232e-05  
succeed 0.0,2.0,0.0,0.000159923236846  
skilling 7.0,0.0,0.000842358604091,0.0  
commentaryto 0.0,1.0,0.0,7.99616184232e-05  
remaining 1.0,0.0,0.000120336943442,0.0  
both 5.0,9.0,0.000601684717208,0.000719654565808

c 5.0,6.0,0.000601684717208,0.000479769710539  
toward 0.0,1.0,0.0,7.99616184232e-05  
improved 2.0,3.0,0.000240673886883,0.000239884855269  
mega 0.0,2.0,0.0,0.000159923236846  
pdx 1.0,0.0,0.000120336943442,0.0  
oversee 2.0,0.0,0.000240673886883,0.0  
obligationin 0.0,1.0,0.0,7.99616184232e-05  
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connection 0.0,3.0,0.0,0.000239884855269  
became 0.0,4.0,0.0,0.000319846473693  
annie 0.0,2.0,0.0,0.000159923236846  
forgotten 0.0,1.0,0.0,7.99616184232e-05  
reply 0.0,3.0,0.0,0.000239884855269  
whole 0.0,1.0,0.0,7.99616184232e-05  
rodgers 1.0,0.0,0.000120336943442,0.0  
sink 1.0,0.0,0.000120336943442,0.0  
upgraded 0.0,1.0,0.0,7.99616184232e-05  
liked 0.0,1.0,0.0,7.99616184232e-05  
xent 0.0,2.0,0.0,0.000159923236846  
jeff 5.0,2.0,0.000601684717208,0.000159923236846  
simple 0.0,3.0,0.0,0.000239884855269  
sweet 0.0,3.0,0.0,0.000239884855269  
loan 0.0,2.0,0.0,0.000159923236846  
elses 0.0,2.0,0.0,0.000159923236846  
community 1.0,12.0,0.000120336943442,0.000959539421078  
inlcuding 1.0,0.0,0.000120336943442,0.0  
simply 0.0,3.0,0.0,0.000239884855269  
likes 0.0,1.0,0.0,7.99616184232e-05  
shutdown 0.0,1.0,0.0,7.99616184232e-05  
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desktop 0.0,1.0,0.0,7.99616184232e-05  
lender 0.0,1.0,0.0,7.99616184232e-05  
described 0.0,1.0,0.0,7.99616184232e-05  
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kimberly 5.0,0.0,0.000601684717208,0.0  
monthly 0.0,2.0,0.0,0.000159923236846  
help 1.0,10.0,0.000120336943442,0.000799616184232

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political 0.0,3.0,0.0,0.000239884855269
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strategy 2.0,0.0,0.000240673886883,0.0
geoffrey 0.0,1.0,0.0,7.99616184232e-05
reduction 3.0,1.0,0.000361010830325,7.99616184232e-05
complicated 0.0,2.0,0.0,0.000159923236846
pg 3.0,0.0,0.000361010830325,0.0
xan 0.0,2.0,0.0,0.000159923236846
brick 0.0,5.0,0.0,0.000399808092116
softwares 0.0,1.0,0.0,7.99616184232e-05
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po 0.0,1.0,0.0,7.99616184232e-05
pm 28.0,3.0,0.00336943441637,0.000239884855269
0004 2.0,2.0,0.000240673886883,0.000159923236846
0005 4.0,1.0,0.000481347773767,7.99616184232e-05
0006 1.0,3.0,0.000120336943442,0.000239884855269
888 0.0,3.0,0.0,0.000239884855269
flight 1.0,0.0,0.000120336943442,0.0
0001 5.0,0.0,0.000601684717208,0.0
0002 2.0,2.0,0.000240673886883,0.000159923236846
boy 0.0,2.0,0.0,0.000159923236846
niles 3.0,0.0,0.000361010830325,0.0
transferring 0.0,2.0,0.0,0.000159923236846
0008 1.0,4.0,0.000120336943442,0.000319846473693
0009 3.0,2.0,0.000361010830325,0.000159923236846
bmlm 0.0,2.0,0.0,0.000159923236846
else 0.0,1.0,0.0,7.99616184232e-05
moment 0.0,3.0,0.0,0.000239884855269
281 1.0,0.0,0.000120336943442,0.0
whatever 0.0,4.0,0.0,0.000319846473693
understand 3.0,1.0,0.000361010830325,7.99616184232e-05
specifically 0.0,3.0,0.0,0.000239884855269
knowlton 1.0,0.0,0.000120336943442,0.0
demand 2.0,1.0,0.000240673886883,7.99616184232e-05
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ways 0.0,3.0,0.0,0.000239884855269
hillis 1.0,0.0,0.000120336943442,0.0
unnecessarily 0.0,1.0,0.0,7.99616184232e-05
964 2.0,0.0,0.000240673886883,0.0
```

965 0.0,1.0,0.0,7.99616184232e-05  
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unify 1.0,0.0,0.000120336943442,0.0  
look 2.0,10.0,0.000240673886883,0.000799616184232  
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bill 4.0,2.0,0.000481347773767,0.000159923236846  
gxxu 0.0,1.0,0.0,7.99616184232e-05  
rat 0.0,1.0,0.0,7.99616184232e-05  
technical 0.0,2.0,0.0,0.000159923236846  
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bachelors 0.0,1.0,0.0,7.99616184232e-05  
error 2.0,6.0,0.000240673886883,0.000479769710539  
fun 2.0,2.0,0.000240673886883,0.000159923236846  
hulmeville 0.0,1.0,0.0,7.99616184232e-05  
scheduled 1.0,0.0,0.000120336943442,0.0  
larger 2.0,0.0,0.000240673886883,0.0  
cents 0.0,4.0,0.0,0.000319846473693  
annualouy 0.0,1.0,0.0,7.99616184232e-05  
raise 0.0,2.0,0.0,0.000159923236846  
reads 0.0,1.0,0.0,7.99616184232e-05  
itself 0.0,2.0,0.0,0.000159923236846  
triple 0.0,1.0,0.0,7.99616184232e-05  
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rid 0.0,1.0,0.0,7.99616184232e-05  
leaving 0.0,1.0,0.0,7.99616184232e-05  
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878 1.0,0.0,0.000120336943442,0.0  
paying 1.0,0.0,0.000120336943442,0.0  
migraine 0.0,1.0,0.0,7.99616184232e-05  
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grand 0.0,3.0,0.0,0.000239884855269  
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products 3.0,9.0,0.000361010830325,0.000719654565808  
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ray 4.0,0.0,0.000481347773767,0.0

headachesmerle 0.0,1.0,0.0,7.99616184232e-05  
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higher 1.0,2.0,0.000120336943442,0.000159923236846  
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keys 1.0,0.0,0.000120336943442,0.0  
comprehensive 0.0,1.0,0.0,7.99616184232e-05  
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times 1.0,1.0,0.000120336943442,7.99616184232e-05  
desks 2.0,0.0,0.000240673886883,0.0  
001 2.0,0.0,0.000240673886883,0.0  
000 21.0,17.0,0.00252707581227,0.00135934751319  
liquids 1.0,0.0,0.000120336943442,0.0  
purpose 2.0,1.0,0.000240673886883,7.99616184232e-05  
yours 0.0,2.0,0.0,0.000159923236846  
nickname 0.0,1.0,0.0,7.99616184232e-05  
janice 1.0,0.0,0.000120336943442,0.0  
recent 0.0,1.0,0.0,7.99616184232e-05  
buybacks 1.0,0.0,0.000120336943442,0.0  
amy 0.0,2.0,0.0,0.000159923236846  
lower 0.0,1.0,0.0,7.99616184232e-05  
task 0.0,2.0,0.0,0.000159923236846  
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sales 1.0,1.0,0.000120336943442,7.99616184232e-05  
stephanie 1.0,0.0,0.000120336943442,0.0  
dancing 0.0,1.0,0.0,7.99616184232e-05  
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analysis 3.0,0.0,0.000361010830325,0.0  
obviously 0.0,2.0,0.0,0.000159923236846  
person 1.0,8.0,0.000120336943442,0.000639692947385  
gilchrist 1.0,0.0,0.000120336943442,0.0  
chronicles 0.0,1.0,0.0,7.99616184232e-05  
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kelly 1.0,0.0,0.000120336943442,0.0  
organization 5.0,0.0,0.000601684717208,0.0  
8919 0.0,1.0,0.0,7.99616184232e-05  
spend 0.0,6.0,0.0,0.000479769710539  
howl 0.0,1.0,0.0,7.99616184232e-05  
know 11.0,7.0,0.00132370637786,0.000559731328962

things 0.0,2.0,0.0,0.000159923236846  
nepco 1.0,0.0,0.000120336943442,0.0  
judgments 0.0,1.0,0.0,7.99616184232e-05  
763 0.0,1.0,0.0,7.99616184232e-05  
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hje 0.0,1.0,0.0,7.99616184232e-05  
press 1.0,2.0,0.000120336943442,0.000159923236846  
buka 0.0,2.0,0.0,0.000159923236846  
questions 13.0,12.0,0.000156438026474,0.000959539421078  
redesign 0.0,2.0,0.0,0.000159923236846  
nowthe 0.0,1.0,0.0,7.99616184232e-05  
soundmax 0.0,1.0,0.0,7.99616184232e-05  
profitable 0.0,1.0,0.0,7.99616184232e-05  
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advertisements 0.0,1.0,0.0,7.99616184232e-05  
tarrin 0.0,1.0,0.0,7.99616184232e-05  
dycmpf 0.0,1.0,0.0,7.99616184232e-05  
lifts 0.0,1.0,0.0,7.99616184232e-05  
location 7.0,0.0,0.000842358604091,0.0  
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input 5.0,0.0,0.000601684717208,0.0  
motero 0.0,1.0,0.0,7.99616184232e-05  
prominent 0.0,2.0,0.0,0.000159923236846  
operators 0.0,2.0,0.0,0.000159923236846  
brainstorm 1.0,0.0,0.000120336943442,0.0  
chairman 2.0,1.0,0.000240673886883,7.99616184232e-05  
customers 0.0,2.0,0.0,0.000159923236846  
australia 2.0,7.0,0.000240673886883,0.000559731328962  
motivating 1.0,0.0,0.000120336943442,0.0  
format 0.0,3.0,0.0,0.000239884855269  
674 1.0,0.0,0.000120336943442,0.0  
big 1.0,5.0,0.000120336943442,0.000399808092116  
couple 0.0,2.0,0.0,0.000159923236846  
showcases 0.0,5.0,0.0,0.000399808092116  
unlimited 0.0,4.0,0.0,0.000319846473693

wives 0.0,1.0,0.0,0.0,7.99616184232e-05  
game 4.0,0.0,0.0,0.000481347773767,0.0  
biz 0.0,2.0,0.0,0.0,0.000159923236846  
private 0.0,4.0,0.0,0.0,0.000319846473693  
foreigners 0.0,1.0,0.0,0.0,7.99616184232e-05  
herewe 0.0,1.0,0.0,0.0,7.99616184232e-05  
bit 1.0,1.0,0.0,0.000120336943442,7.99616184232e-05  
tarrif 2.0,0.0,0.0,0.000240673886883,0.0  
projects 2.0,0.0,0.0,0.000240673886883,0.0  
formal 1.0,0.0,0.0,0.000120336943442,0.0  
listmaster 0.0,1.0,0.0,0.0,7.99616184232e-05  
d 24.0,13.0,0.0,0.0028880866426,0.0010395010395  
should 5.0,13.0,0.0,0.000601684717208,0.0010395010395  
afirst 0.0,1.0,0.0,0.0,7.99616184232e-05  
ees 2.0,0.0,0.0,0.000240673886883,0.0  
softwares 0.0,2.0,0.0,0.0,0.000159923236846  
continue 8.0,0.0,0.0,0.000962695547533,0.0  
crawled 0.0,1.0,0.0,0.0,7.99616184232e-05  
ivan 0.0,2.0,0.0,0.0,0.000159923236846  
suppliers 2.0,0.0,0.0,0.000240673886883,0.0  
often 0.0,5.0,0.0,0.0,0.000399808092116  
senate 0.0,2.0,0.0,0.0,0.000159923236846  
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fathers 0.0,1.0,0.0,0.0,7.99616184232e-05  
creation 2.0,0.0,0.0,0.000240673886883,0.0  
instruments 0.0,1.0,0.0,0.0,7.99616184232e-05  
back 4.0,10.0,0.0,0.000481347773767,0.000799616184232  
saa 0.0,1.0,0.0,0.0,7.99616184232e-05  
ozarka 1.0,0.0,0.0,0.000120336943442,0.0  
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lips 0.0,1.0,0.0,0.0,7.99616184232e-05  
added 0.0,2.0,0.0,0.0,0.000159923236846  
mighty 0.0,1.0,0.0,0.0,7.99616184232e-05  
2497 0.0,1.0,0.0,0.0,7.99616184232e-05  
mirror 2.0,0.0,0.0,0.000240673886883,0.0  
newsletter 0.0,22.0,0.0,0.0,0.00175915560531  
gracie 2.0,0.0,0.0,0.000240673886883,0.0  
delivered 2.0,1.0,0.0,0.000240673886883,7.99616184232e-05  
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decision 1.0,0.0,0.0,0.000120336943442,0.0

though 2.0,1.0,0.000240673886883,7.99616184232e-05  
benefit 1.0,3.0,0.000120336943442,0.000239884855269  
per 2.0,5.0,0.000240673886883,0.000399808092116  
bannerco 0.0,3.0,0.0,0.000239884855269  
eliminate 0.0,2.0,0.0,0.000159923236846  
slash 0.0,1.0,0.0,7.99616184232e-05  
teosrest 0.0,1.0,0.0,7.99616184232e-05  
minimal 0.0,1.0,0.0,7.99616184232e-05  
either 6.0,0.0,0.00072202166065,0.0  
cgi 0.0,4.0,0.0,0.000319846473693  
be 43.0,66.0,0.00517448856799,0.00527746681593  
bg 0.0,6.0,0.0,0.000479769710539  
eating 0.0,2.0,0.0,0.000159923236846  
jnexus 1.0,0.0,0.000120336943442,0.0  
jturco 0.0,1.0,0.0,7.99616184232e-05  
300 5.0,2.0,0.000601684717208,0.000159923236846  
tlapek 1.0,0.0,0.000120336943442,0.0  
processing 4.0,2.0,0.000481347773767,0.000159923236846  
continuing 1.0,0.0,0.000120336943442,0.0  
agreement 11.0,4.0,0.00132370637786,0.000319846473693  
306 1.0,1.0,0.000120336943442,7.99616184232e-05  
step 1.0,0.0,0.000120336943442,0.0  
usd 0.0,2.0,0.0,0.000159923236846  
bp 3.0,0.0,0.000361010830325,0.0  
concealed 0.0,2.0,0.0,0.000159923236846  
br 2.0,0.0,0.000240673886883,0.0  
bs 0.0,2.0,0.0,0.000159923236846  
from 29.0,52.0,0.00348977135981,0.004158004158  
carol 0.0,1.0,0.0,7.99616184232e-05  
by 34.0,51.0,0.00409145607702,0.00407804253958  
smithc 1.0,0.0,0.000120336943442,0.0  
russell 1.0,0.0,0.000120336943442,0.0  
goods 0.0,1.0,0.0,7.99616184232e-05  
anything 2.0,3.0,0.000240673886883,0.000239884855269  
most 2.0,19.0,0.000240673886883,0.00151927075004  
completing 1.0,0.0,0.000120336943442,0.0  
saave 0.0,7.0,0.0,0.000559731328962  
papua 0.0,1.0,0.0,7.99616184232e-05  
beetcn 0.0,1.0,0.0,7.99616184232e-05  
nightgear 0.0,1.0,0.0,7.99616184232e-05

beans 0.0,1.0,0.0,7.99616184232e-05  
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complimentary 0.0,1.0,0.0,7.99616184232e-05  
block 2.0,2.0,0.000240673886883,0.000159923236846  
computational 0.0,1.0,0.0,7.99616184232e-05  
significant 1.0,0.0,0.000120336943442,0.0  
blainey 0.0,1.0,0.0,7.99616184232e-05  
intl 2.0,0.0,0.000240673886883,0.0  
into 10.0,14.0,0.000120336943442,0.00111946265792  
within 7.0,5.0,0.000842358604091,0.000399808092116  
servers 0.0,2.0,0.0,0.000159923236846  
iowa 0.0,1.0,0.0,7.99616184232e-05  
services 2.0,8.0,0.000240673886883,0.000639692947385  
appropriate 3.0,0.0,0.000361010830325,0.0  
frames 0.0,1.0,0.0,7.99616184232e-05  
lesson 0.0,3.0,0.0,0.000239884855269  
pillsburywinthrop 2.0,0.0,0.000240673886883,0.0  
bankruptcy 3.0,0.0,0.000361010830325,0.0  
spam 0.0,7.0,0.0,0.000559731328962  
spending 0.0,1.0,0.0,7.99616184232e-05  
question 0.0,6.0,0.0,0.000479769710539  
fast 0.0,3.0,0.0,0.000239884855269  
custom 0.0,1.0,0.0,7.99616184232e-05  
ordered 3.0,1.0,0.000361010830325,7.99616184232e-05  
vendors 1.0,0.0,0.000120336943442,0.0  
consultation 0.0,1.0,0.0,7.99616184232e-05  
yjoou 0.0,1.0,0.0,7.99616184232e-05  
here 5.0,31.0,0.000601684717208,0.00247881017112  
forward 10.0,1.0,0.00120336943442,7.99616184232e-05  
analyze 0.0,1.0,0.0,7.99616184232e-05  
etc 3.0,2.0,0.000361010830325,0.000159923236846  
files 3.0,0.0,0.000361010830325,0.0  
himself 0.0,1.0,0.0,7.99616184232e-05  
invite 1.0,2.0,0.000120336943442,0.000159923236846  
sds 0.0,1.0,0.0,7.99616184232e-05  
ditch 1.0,0.0,0.000120336943442,0.0  
discoount 0.0,1.0,0.0,7.99616184232e-05  
atop 0.0,1.0,0.0,7.99616184232e-05  
icet 0.0,2.0,0.0,0.000159923236846  
copartnery 0.0,1.0,0.0,7.99616184232e-05

berkovitz 2.0,0.0,0.000240673886883,0.0  
larry 1.0,0.0,0.000120336943442,0.0  
link 1.0,3.0,0.000120336943442,0.000239884855269  
pacific 1.0,1.0,0.000120336943442,7.99616184232e-05  
filed 1.0,0.0,0.000120336943442,0.0  
hopes 1.0,0.0,0.000120336943442,0.0  
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pain 0.0,2.0,0.0,0.000159923236846  
themselves 0.0,2.0,0.0,0.000159923236846  
raising 0.0,1.0,0.0,7.99616184232e-05  
omaha 0.0,1.0,0.0,7.99616184232e-05  
info 1.0,5.0,0.000120336943442,0.000399808092116  
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sounds 1.0,0.0,0.000120336943442,0.0  
up 16.0,17.0,0.00192539109507,0.00135934751319  
us 7.0,33.0,0.000842358604091,0.00263873340796  
ur 0.0,1.0,0.0,7.99616184232e-05  
clips 1.0,0.0,0.000120336943442,0.0  
growth 0.0,4.0,0.0,0.000319846473693  
exploration 0.0,2.0,0.0,0.000159923236846  
verification 0.0,1.0,0.0,7.99616184232e-05  
uk 0.0,2.0,0.0,0.000159923236846  
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steeves 0.0,2.0,0.0,0.000159923236846  
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0016 1.0,3.0,0.000120336943442,0.000239884855269  
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influence 1.0,0.0,0.000120336943442,0.0  
doesn 0.0,4.0,0.0,0.000319846473693

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cure 0.0,1.0,0.0,7.99616184232e-05  
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organizational 1.0,0.0,0.000120336943442,0.0  
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lyn 4.0,0.0,0.000481347773767,0.0  
amounts 0.0,1.0,0.0,7.99616184232e-05  
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club 0.0,1.0,0.0,7.99616184232e-05  
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explaining 0.0,2.0,0.0,0.000159923236846  
draw 0.0,2.0,0.0,0.000159923236846  
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visits 0.0,1.0,0.0,7.99616184232e-05  
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helping 0.0,1.0,0.0,7.99616184232e-05  
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desert 0.0,1.0,0.0,7.99616184232e-05  
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ago 0.0,1.0,0.0,7.99616184232e-05  
vs 1.0,0.0,0.000120336943442,0.0  
e 13.0,17.0,0.000156438026474,0.00135934751319  
vice 6.0,0.0,0.00072202166065,0.0  
valuables 0.0,2.0,0.0,0.000159923236846  
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walked 0.0,1.0,0.0,7.99616184232e-05  
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2000 19.0,1.0,0.00228640192539,7.99616184232e-05  
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2004 0.0,10.0,0.0,0.000799616184232  
wording 0.0,1.0,0.0,7.99616184232e-05  
requires 0.0,1.0,0.0,7.99616184232e-05  
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wallow 0.0,1.0,0.0,7.99616184232e-05  
gb 0.0,1.0,0.0,7.99616184232e-05  
edt 0.0,2.0,0.0,0.000159923236846  
go 3.0,4.0,0.000361010830325,0.000319846473693  
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disintegration 0.0,1.0,0.0,7.99616184232e-05  
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issues 14.0,1.0,0.00168471720818,7.99616184232e-05  
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sponsoring 0.0,1.0,0.0,7.99616184232e-05

gravel 0.0,1.0,0.0,7.99616184232e-05  
8901 0.0,1.0,0.0,7.99616184232e-05  
resources 12.0,5.0,0.0014440433213,0.000399808092116  
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mcclankg 1.0,0.0,0.000120336943442,0.0  
outside 1.0,2.0,0.000120336943442,0.000159923236846  
continues 1.0,0.0,0.000120336943442,0.0  
713 4.0,0.0,0.000481347773767,0.0  
foretell 1.0,0.0,0.000120336943442,0.0  
stocker 0.0,1.0,0.0,7.99616184232e-05  
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tonai 1.0,0.0,0.000120336943442,0.0  
neaarby 0.0,1.0,0.0,7.99616184232e-05  
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edison 1.0,0.0,0.000120336943442,0.0  
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extreme 0.0,1.0,0.0,7.99616184232e-05

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topic 2.0,0.0,0.000240673886883,0.0  
account 7.0,12.0,0.000842358604091,0.000959539421078

celias 1.0,0.0,0.000120336943442,0.0  
this 64.0,93.0,0.00770156438026,0.00743643051335  
ride 2.0,0.0,0.000240673886883,0.0  
clients 1.0,0.0,0.000120336943442,0.0  
chancesto 0.0,1.0,0.0,7.99616184232e-05  
anywhere 0.0,1.0,0.0,7.99616184232e-05  
island 2.0,0.0,0.000240673886883,0.0  
fulfill 0.0,1.0,0.0,7.99616184232e-05  
scampbell 1.0,0.0,0.000120336943442,0.0  
lagars 0.0,1.0,0.0,7.99616184232e-05  
control 4.0,3.0,0.000481347773767,0.000239884855269  
scams 0.0,1.0,0.0,7.99616184232e-05  
kenny 1.0,0.0,0.000120336943442,0.0  
links 0.0,22.0,0.0,0.00175915560531  
providers 0.0,2.0,0.0,0.000159923236846  
process 3.0,3.0,0.000361010830325,0.000239884855269  
favorite 0.0,7.0,0.0,0.000559731328962  
whalley 2.0,0.0,0.000240673886883,0.0  
tax 0.0,1.0,0.0,7.99616184232e-05  
high 2.0,7.0,0.000240673886883,0.000559731328962  
effectively 2.0,0.0,0.000240673886883,0.0  
hotmail 0.0,1.0,0.0,7.99616184232e-05  
something 5.0,1.0,0.000601684717208,7.99616184232e-05  
documenting 2.0,0.0,0.000240673886883,0.0  
getyour 0.0,1.0,0.0,7.99616184232e-05  
cliickk 0.0,2.0,0.0,0.000159923236846  
zk 0.0,1.0,0.0,7.99616184232e-05  
serial 0.0,1.0,0.0,7.99616184232e-05  
lamb 1.0,0.0,0.000120336943442,0.0  
hesitate 0.0,3.0,0.0,0.000239884855269  
united 1.0,3.0,0.000120336943442,0.000239884855269  
guru 0.0,1.0,0.0,7.99616184232e-05  
six 1.0,2.0,0.000120336943442,0.000159923236846  
sillily 0.0,1.0,0.0,7.99616184232e-05  
arrangement 1.0,0.0,0.000120336943442,0.0  
regions 3.0,1.0,0.000361010830325,7.99616184232e-05  
brian 1.0,0.0,0.000120336943442,0.0  
responsibilities 5.0,0.0,0.000601684717208,0.0  
winners 0.0,1.0,0.0,7.99616184232e-05  
forest 1.0,0.0,0.000120336943442,0.0

responsibility 5.0,0.0,0.000601684717208,0.0  
instead 0.0,1.0,0.0,7.99616184232e-05  
those 3.0,5.0,0.000361010830325,0.000399808092116  
greatly 1.0,0.0,0.000120336943442,0.0  
profile 1.0,1.0,0.000120336943442,7.99616184232e-05  
attend 3.0,0.0,0.000361010830325,0.0  
sir 0.0,1.0,0.0,7.99616184232e-05  
farm 1.0,0.0,0.000120336943442,0.0  
fran 2.0,0.0,0.000240673886883,0.0  
highs 1.0,0.0,0.000120336943442,0.0  
await 0.0,4.0,0.0,0.000319846473693  
them 4.0,15.0,0.000481347773767,0.00119942427635  
fluid 0.0,1.0,0.0,7.99616184232e-05  
heartburnwestfield 0.0,1.0,0.0,7.99616184232e-05  
abuse 0.0,1.0,0.0,7.99616184232e-05  
jonathon 0.0,1.0,0.0,7.99616184232e-05  
requirements 2.0,1.0,0.00024067386883,7.99616184232e-05  
spelling 0.0,3.0,0.0,0.000239884855269  
highlands 0.0,2.0,0.0,0.000159923236846  
nickel 0.0,4.0,0.0,0.000319846473693  
light 0.0,1.0,0.0,7.99616184232e-05  
944 1.0,0.0,0.000120336943442,0.0  
lines 0.0,1.0,0.0,7.99616184232e-05  
chapman 4.0,0.0,0.000481347773767,0.0  
gigabyte 0.0,1.0,0.0,7.99616184232e-05  
processor 0.0,1.0,0.0,7.99616184232e-05  
commodities 0.0,1.0,0.0,7.99616184232e-05  
chief 3.0,0.0,0.000361010830325,0.0  
civilizirano 0.0,1.0,0.0,7.99616184232e-05  
bussell 1.0,0.0,0.000120336943442,0.0  
allow 2.0,3.0,0.000240673886883,0.000239884855269  
americ 0.0,2.0,0.0,0.000159923236846  
subsequently 0.0,1.0,0.0,7.99616184232e-05  
software 0.0,7.0,0.0,0.000559731328962  
secured 0.0,1.0,0.0,7.99616184232e-05  
houston 8.0,0.0,0.000962695547533,0.0  
spreads 1.0,0.0,0.000120336943442,0.0  
lenders 0.0,2.0,0.0,0.000159923236846  
producer 0.0,1.0,0.0,7.99616184232e-05  
wyn 0.0,2.0,0.0,0.000159923236846

quasi 1.0,0.0,0.000120336943442,0.0  
move 1.0,5.0,0.000120336943442,0.000399808092116  
engineergeodetic 0.0,1.0,0.0,7.99616184232e-05  
meter 9.0,0.0,0.00108303249097,0.0  
report 9.0,1.0,0.00108303249097,7.99616184232e-05  
including 9.0,3.0,0.00108303249097,0.000239884855269  
looks 1.0,3.0,0.000120336943442,0.000239884855269  
134 0.0,1.0,0.0,7.99616184232e-05  
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boosts 0.0,1.0,0.0,7.99616184232e-05  
glen 1.0,0.0,0.000120336943442,0.0  
anonymously 0.0,1.0,0.0,7.99616184232e-05  
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located 2.0,1.0,0.000240673886883,7.99616184232e-05  
chosen 1.0,3.0,0.000120336943442,0.000239884855269  
guerrilla 0.0,1.0,0.0,7.99616184232e-05  
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willing 0.0,1.0,0.0,7.99616184232e-05  
choose 0.0,4.0,0.0,0.000319846473693  
dfur 0.0,1.0,0.0,7.99616184232e-05  
orange 0.0,1.0,0.0,7.99616184232e-05  
bye 0.0,1.0,0.0,7.99616184232e-05  
spot 4.0,1.0,0.000481347773767,7.99616184232e-05  
setting 1.0,1.0,0.000120336943442,7.99616184232e-05  
originator 2.0,0.0,0.000240673886883,0.0  
physicians 0.0,1.0,0.0,7.99616184232e-05  
designs 0.0,4.0,0.0,0.000319846473693  
tears 0.0,1.0,0.0,7.99616184232e-05  
pure 0.0,1.0,0.0,7.99616184232e-05  
pangs 0.0,1.0,0.0,7.99616184232e-05  
citrus 0.0,2.0,0.0,0.000159923236846  
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acrobaat 0.0,1.0,0.0,7.99616184232e-05  
daw 1.0,0.0,0.000120336943442,0.0  
hands 0.0,2.0,0.0,0.000159923236846  
front 1.0,0.0,0.000120336943442,0.0  
souza 1.0,0.0,0.000120336943442,0.0

cage 1.0,0.0,0.000120336943442,0.0  
028 1.0,0.0,0.000120336943442,0.0  
presidential 0.0,1.0,0.0,7.99616184232e-05  
articles 0.0,2.0,0.0,0.000159923236846  
february 9.0,0.0,0.00108303249097,0.0  
glaspie 0.0,1.0,0.0,7.99616184232e-05  
edit 0.0,7.0,0.0,0.000559731328962  
identified 0.0,1.0,0.0,7.99616184232e-05  
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arlene 0.0,2.0,0.0,0.000159923236846  
morris 3.0,0.0,0.000361010830325,0.0  
lingerie 0.0,1.0,0.0,7.99616184232e-05  
mode 0.0,1.0,0.0,7.99616184232e-05  
accompanied 1.0,0.0,0.000120336943442,0.0  
identifies 0.0,1.0,0.0,7.99616184232e-05  
bills 0.0,1.0,0.0,7.99616184232e-05  
freeonline 0.0,1.0,0.0,7.99616184232e-05  
inbox 0.0,1.0,0.0,7.99616184232e-05  
mitral 0.0,1.0,0.0,7.99616184232e-05  
myinputare 0.0,1.0,0.0,7.99616184232e-05  
activate 0.0,4.0,0.0,0.000319846473693  
doing 0.0,3.0,0.0,0.000239884855269  
nommensen 1.0,0.0,0.000120336943442,0.0  
706 2.0,0.0,0.000240673886883,0.0  
gary 7.0,0.0,0.000842358604091,0.0  
700 0.0,2.0,0.0,0.000159923236846  
jonesg 1.0,0.0,0.000120336943442,0.0  
703 1.0,0.0,0.000120336943442,0.0  
books 0.0,2.0,0.0,0.000159923236846  
thirteen 0.0,1.0,0.0,7.99616184232e-05  
exceeded 0.0,2.0,0.0,0.000159923236846  
82 0.0,1.0,0.0,7.99616184232e-05  
our 15.0,72.0,0.00180505415162,0.00575723652647  
80 0.0,3.0,0.0,0.000239884855269  
81 0.0,1.0,0.0,7.99616184232e-05  
satisfied 0.0,2.0,0.0,0.000159923236846  
87 0.0,1.0,0.0,7.99616184232e-05  
special 1.0,6.0,0.000120336943442,0.000479769710539  
out 15.0,17.0,0.00180505415162,0.00135934751319  
category 0.0,1.0,0.0,7.99616184232e-05

matt 1.0,0.0,0.000120336943442,0.0  
sentiment 0.0,1.0,0.0,7.99616184232e-05  
twice 0.0,1.0,0.0,7.99616184232e-05  
stentofon 2.0,0.0,0.000240673886883,0.0  
marketability 0.0,2.0,0.0,0.000159923236846  
rev 4.0,0.0,0.000481347773767,0.0  
day 7.0,8.0,0.000842358604091,0.000639692947385  
include 3.0,3.0,0.000361010830325,0.000239884855269  
term 0.0,1.0,0.0,7.99616184232e-05  
supports 2.0,0.0,0.000240673886883,0.0  
integrated 0.0,1.0,0.0,7.99616184232e-05  
red 0.0,2.0,0.0,0.000159923236846  
584 1.0,0.0,0.000120336943442,0.0  
frank 1.0,0.0,0.000120336943442,0.0  
turned 0.0,1.0,0.0,7.99616184232e-05  
recommendations 3.0,1.0,0.000361010830325,7.99616184232e-05  
dماo 1.0,0.0,0.000120336943442,0.0  
attending 1.0,0.0,0.000120336943442,0.0  
confirmations 3.0,0.0,0.000361010830325,0.0  
anyhow 4.0,1.0,0.000481347773767,7.99616184232e-05  
chatham 1.0,0.0,0.000120336943442,0.0  
ipos 0.0,1.0,0.0,7.99616184232e-05  
river 0.0,1.0,0.0,7.99616184232e-05  
ezine 0.0,3.0,0.0,0.000239884855269  
stearns 2.0,0.0,0.000240673886883,0.0  
g 11.0,6.0,0.000132370637786,0.000479769710539  
could 0.0,9.0,0.0,0.000719654565808  
rushed 0.0,1.0,0.0,7.99616184232e-05  
diminished 0.0,1.0,0.0,7.99616184232e-05  
david 18.0,0.0,0.00216606498195,0.0  
conversation 1.0,0.0,0.000120336943442,0.0  
cures 0.0,1.0,0.0,7.99616184232e-05  
ycon 0.0,2.0,0.0,0.000159923236846  
qualification 0.0,1.0,0.0,7.99616184232e-05  
davis 3.0,0.0,0.000361010830325,0.0  
retail 2.0,0.0,0.000240673886883,0.0  
facilitate 3.0,0.0,0.000361010830325,0.0  
anita 2.0,0.0,0.000240673886883,0.0  
designed 1.0,3.0,0.000120336943442,0.000239884855269  
third 0.0,2.0,0.0,0.000159923236846

pgm 0.0,1.0,0.0,7.99616184232e-05  
powerful 0.0,5.0,0.0,0.000399808092116  
owned 2.0,2.0,0.000240673886883,0.000159923236846  
agouti 0.0,1.0,0.0,7.99616184232e-05  
improving 0.0,1.0,0.0,7.99616184232e-05  
submit 1.0,6.0,0.000120336943442,0.000479769710539  
owner 0.0,2.0,0.0,0.000159923236846  
reached 0.0,2.0,0.0,0.000159923236846  
blows 1.0,0.0,0.000120336943442,0.0  
ihf 0.0,1.0,0.0,7.99616184232e-05  
traders 1.0,0.0,0.000120336943442,0.0  
owning 0.0,2.0,0.0,0.000159923236846  
has 17.0,31.0,0.00204572803851,0.00247881017112  
management 35.0,0.0,0.00421179302046,0.0  
reference 0.0,1.0,0.0,7.99616184232e-05  
privacy 0.0,5.0,0.0,0.000399808092116  
nomination 4.0,0.0,0.000481347773767,0.0  
sellens 1.0,0.0,0.000120336943442,0.0  
system 6.0,0.0,0.00072202166065,0.0  
relations 3.0,0.0,0.000361010830325,0.0  
cinergy 1.0,0.0,0.000120336943442,0.0  
their 4.0,14.0,0.000481347773767,0.00111946265792  
1500 0.0,1.0,0.0,7.99616184232e-05  
29155 0.0,1.0,0.0,7.99616184232e-05  
maidens 0.0,1.0,0.0,7.99616184232e-05  
stroock 1.0,0.0,0.000120336943442,0.0  
norton 0.0,2.0,0.0,0.000159923236846  
waggons 0.0,1.0,0.0,7.99616184232e-05  
grandfathered 1.0,0.0,0.000120336943442,0.0  
beard 0.0,1.0,0.0,7.99616184232e-05  
interests 0.0,5.0,0.0,0.000399808092116  
stars 0.0,1.0,0.0,7.99616184232e-05  
completed 0.0,1.0,0.0,7.99616184232e-05  
txuelectric 1.0,0.0,0.000120336943442,0.0  
responsibilites 1.0,0.0,0.000120336943442,0.0  
jvbe 0.0,1.0,0.0,7.99616184232e-05  
var 1.0,0.0,0.000120336943442,0.0  
targeted 0.0,4.0,0.0,0.000319846473693  
regards 3.0,1.0,0.000361010830325,7.99616184232e-05  
unsubscribe 0.0,13.0,0.0,0.0010395010395

too 2.0,6.0,0.000240673886883,0.000479769710539  
wanted 1.0,2.0,0.000120336943442,0.000159923236846  
july 0.0,1.0,0.0,7.99616184232e-05  
chisholm 0.0,1.0,0.0,7.99616184232e-05  
commence 1.0,1.0,0.000120336943442,7.99616184232e-05  
outline 2.0,0.0,0.000240673886883,0.0  
nowbetterthis 0.0,2.0,0.0,0.000159923236846  
liquid 0.0,1.0,0.0,7.99616184232e-05  
bother 0.0,1.0,0.0,7.99616184232e-05  
riches 0.0,1.0,0.0,7.99616184232e-05  
bed 0.0,1.0,0.0,7.99616184232e-05  
tommy 1.0,0.0,0.000120336943442,0.0  
roberts 3.0,0.0,0.000361010830325,0.0  
calamity 0.0,2.0,0.0,0.000159923236846  
assays 0.0,1.0,0.0,7.99616184232e-05  
mackey 1.0,0.0,0.000120336943442,0.0  
visited 0.0,1.0,0.0,7.99616184232e-05  
providing 0.0,4.0,0.0,0.000319846473693  
creditors 1.0,0.0,0.000120336943442,0.0  
exhibit 1.0,3.0,0.000120336943442,0.000239884855269  
rtol 1.0,0.0,0.000120336943442,0.0  
cohen 0.0,1.0,0.0,7.99616184232e-05  
partnership 0.0,1.0,0.0,7.99616184232e-05  
putpeel 0.0,6.0,0.0,0.000479769710539  
interrupted 0.0,1.0,0.0,7.99616184232e-05  
manganese 0.0,1.0,0.0,7.99616184232e-05  
have 48.0,67.0,0.0057761732852,0.00535742843435  
need 26.0,8.0,0.00312876052948,0.000639692947385  
frevert 3.0,0.0,0.000361010830325,0.0  
apparently 0.0,1.0,0.0,7.99616184232e-05  
clearly 0.0,1.0,0.0,7.99616184232e-05  
documents 0.0,3.0,0.0,0.000239884855269  
dishes 0.0,1.0,0.0,7.99616184232e-05  
congrats 1.0,0.0,0.000120336943442,0.0  
able 1.0,6.0,0.000120336943442,0.000479769710539  
mid 2.0,1.0,0.000240673886883,7.99616184232e-05  
hangover 0.0,1.0,0.0,7.99616184232e-05  
hr 14.0,0.0,0.00168471720818,0.0  
concerns 1.0,1.0,0.000120336943442,7.99616184232e-05  
rossman 0.0,12.0,0.0,0.000959539421078

funds 0.0,9.0,0.0,0.000719654565808  
woolgar 0.0,1.0,0.0,7.99616184232e-05  
linda 5.0,0.0,0.000601684717208,0.0  
divert 1.0,0.0,0.000120336943442,0.0  
subject 28.0,11.0,0.00336943441637,0.000879577802655  
dcoit 0.0,1.0,0.0,7.99616184232e-05  
hp 1.0,12.0,0.000120336943442,0.000959539421078  
persistence 0.0,2.0,0.0,0.000159923236846  
worldwide 4.0,3.0,0.000481347773767,0.000239884855269  
02 31.0,0.0,0.00373044524669,0.0  
miningnews 0.0,9.0,0.0,0.000719654565808  
unless 1.0,1.0,0.000120336943442,7.99616184232e-05  
rw 0.0,1.0,0.0,7.99616184232e-05  
who 1.0,13.0,0.000120336943442,0.0010395010395  
techniques 0.0,3.0,0.0,0.000239884855269  
thorns 0.0,1.0,0.0,7.99616184232e-05  
courtesy 0.0,1.0,0.0,7.99616184232e-05  
oceania 0.0,1.0,0.0,7.99616184232e-05  
connected 0.0,1.0,0.0,7.99616184232e-05  
ht 0.0,4.0,0.0,0.000319846473693  
device 0.0,1.0,0.0,7.99616184232e-05  
thunder 0.0,1.0,0.0,7.99616184232e-05  
expired 1.0,0.0,0.000120336943442,0.0  
class 0.0,2.0,0.0,0.000159923236846  
anonymizer 0.0,1.0,0.0,7.99616184232e-05  
volume 7.0,0.0,0.000842358604091,0.0  
urg 2.0,0.0,0.000240673886883,0.0  
placement 0.0,2.0,0.0,0.000159923236846  
takes 0.0,3.0,0.0,0.000239884855269  
url 0.0,3.0,0.0,0.000239884855269  
neighboring 0.0,2.0,0.0,0.000159923236846  
inappropriate 0.0,1.0,0.0,7.99616184232e-05  
request 3.0,5.0,0.000361010830325,0.000399808092116  
disease 0.0,1.0,0.0,7.99616184232e-05  
face 0.0,1.0,0.0,7.99616184232e-05  
looked 1.0,0.0,0.000120336943442,0.0  
brex 0.0,2.0,0.0,0.000159923236846  
occasion 0.0,1.0,0.0,7.99616184232e-05  
trafficmultipliers 0.0,1.0,0.0,7.99616184232e-05  
normally 0.0,1.0,0.0,7.99616184232e-05

08 15.0,6.0,0.00180505415162,0.000479769710539  
fact 1.0,1.0,0.000120336943442,7.99616184232e-05  
goals 0.0,1.0,0.0,7.99616184232e-05  
ecomog 0.0,3.0,0.0,0.000239884855269  
impression 0.0,2.0,0.0,0.000159923236846  
emerging 2.0,0.0,0.000240673886883,0.0  
selection 2.0,0.0,0.000240673886883,0.0  
chances 0.0,2.0,0.0,0.000159923236846  
please 30.0,22.0,0.00361010830325,0.00175915560531  
agreed 1.0,0.0,0.000120336943442,0.0  
scotty 1.0,0.0,0.000120336943442,0.0  
anyway 1.0,0.0,0.000120336943442,0.0  
wanting 0.0,1.0,0.0,7.99616184232e-05  
fear 0.0,4.0,0.0,0.000319846473693  
bybb 0.0,1.0,0.0,7.99616184232e-05  
pleased 1.0,0.0,0.000120336943442,0.0  
principal 2.0,0.0,0.000240673886883,0.0  
partners 0.0,2.0,0.0,0.000159923236846  
based 4.0,5.0,0.000481347773767,0.000399808092116  
knowledge 4.0,0.0,0.000481347773767,0.0  
bodyfrankfurter 0.0,1.0,0.0,7.99616184232e-05  
micros 0.0,2.0,0.0,0.000159923236846  
winner 0.0,2.0,0.0,0.000159923236846  
pushing 0.0,1.0,0.0,7.99616184232e-05  
controls 4.0,0.0,0.000481347773767,0.0  
employer 0.0,1.0,0.0,7.99616184232e-05  
jan 3.0,0.0,0.000361010830325,0.0  
planted 1.0,0.0,0.000120336943442,0.0  
rvsq 0.0,1.0,0.0,7.99616184232e-05  
combo 0.0,1.0,0.0,7.99616184232e-05  
employee 6.0,0.0,0.00072202166065,0.0  
employed 2.0,0.0,0.000240673886883,0.0  
sengupta 1.0,0.0,0.000120336943442,0.0  
he 2.0,31.0,0.000240673886883,0.00247881017112  
local 4.0,1.0,0.000481347773767,7.99616184232e-05  
hall 0.0,2.0,0.0,0.000159923236846  
melissa 2.0,0.0,0.000240673886883,0.0  
meant 1.0,0.0,0.000120336943442,0.0  
7394 1.0,0.0,0.000120336943442,0.0  
handle 0.0,1.0,0.0,7.99616184232e-05

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bear 2.0,1.0,0.000240673886883,7.99616184232e-05  
joint 0.0,1.0,0.0,7.99616184232e-05  
122 0.0,1.0,0.0,7.99616184232e-05  
123 0.0,3.0,0.0,0.000239884855269  
124 0.0,2.0,0.0,0.000159923236846  
125 0.0,2.0,0.0,0.000159923236846  
126 0.0,2.0,0.0,0.000159923236846  
timing 1.0,0.0,0.000120336943442,0.0  
years 10.0,5.0,0.000120336943442,0.000399808092116  
procedures 2.0,0.0,0.000240673886883,0.0  
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areas 1.0,1.0,0.000120336943442,7.99616184232e-05  
gray 2.0,0.0,0.000240673886883,0.0  
evolution 1.0,0.0,0.000120336943442,0.0  
tobacco 0.0,2.0,0.0,0.000159923236846  
encounters 0.0,1.0,0.0,7.99616184232e-05  
eyebrow 0.0,2.0,0.0,0.000159923236846  
peel 0.0,2.0,0.0,0.000159923236846  
felipe 2.0,0.0,0.000240673886883,0.0  
aec 2.0,0.0,0.000240673886883,0.0  
stuff 3.0,0.0,0.000361010830325,0.0  
she 12.0,0.0,0.0014440433213,0.0  
tricky 0.0,1.0,0.0,7.99616184232e-05  
protesting 1.0,0.0,0.000120336943442,0.0  
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gibson 1.0,0.0,0.000120336943442,0.0  
view 2.0,4.0,0.000240673886883,0.000319846473693  
btu 2.0,0.0,0.000240673886883,0.0  
europe 0.0,1.0,0.0,7.99616184232e-05  
requirement 0.0,1.0,0.0,7.99616184232e-05  
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module 1.0,0.0,0.000120336943442,0.0

freeze 1.0,0.0,0.000120336943442,0.0  
edition 0.0,1.0,0.0,7.99616184232e-05  
computer 0.0,6.0,0.0,0.000479769710539  
scroll 0.0,2.0,0.0,0.000159923236846  
desperate 0.0,1.0,0.0,7.99616184232e-05  
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responses 0.0,4.0,0.0,0.000319846473693  
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phases 1.0,0.0,0.000120336943442,0.0  
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wa 0.0,2.0,0.0,0.000159923236846  
clearing 0.0,1.0,0.0,7.99616184232e-05  
superb 0.0,1.0,0.0,7.99616184232e-05  
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favor 0.0,2.0,0.0,0.000159923236846  
state 1.0,4.0,0.000120336943442,0.000319846473693  
closed 1.0,0.0,0.000120336943442,0.0  
niestrath 1.0,0.0,0.000120336943442,0.0  
progress 1.0,0.0,0.000120336943442,0.0  
gemstone 0.0,1.0,0.0,7.99616184232e-05  
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bought 2.0,1.0,0.000240673886883,7.99616184232e-05  
industries 0.0,1.0,0.0,7.99616184232e-05  
schumack 3.0,0.0,0.000361010830325,0.0  
ability 0.0,2.0,0.0,0.000159923236846  
39510 1.0,0.0,0.000120336943442,0.0  
opening 2.0,0.0,0.000240673886883,0.0  
amadol 0.0,2.0,0.0,0.000159923236846  
deliver 1.0,0.0,0.000120336943442,0.0  
freelinksnetwork 0.0,3.0,0.0,0.000239884855269  
strides 2.0,0.0,0.000240673886883,0.0  
job 1.0,0.0,0.000120336943442,0.0  
queensland 0.0,2.0,0.0,0.000159923236846  
key 5.0,1.0,0.000601684717208,7.99616184232e-05  
intermediary 0.0,1.0,0.0,7.99616184232e-05  
wants 1.0,0.0,0.000120336943442,0.0  
precious 0.0,1.0,0.0,7.99616184232e-05  
configuration 0.0,1.0,0.0,7.99616184232e-05  
nominations 1.0,0.0,0.000120336943442,0.0  
jon 1.0,0.0,0.000120336943442,0.0

thank 4.0,2.0,0.000481347773767,0.000159923236846  
figured 1.0,0.0,0.000120336943442,0.0  
never 1.0,4.0,0.000120336943442,0.000319846473693  
site 1.0,48.0,0.000120336943442,0.00383815768431  
taking 1.0,2.0,0.000120336943442,0.000159923236846  
drug 0.0,1.0,0.0,7.99616184232e-05  
assure 2.0,0.0,0.000240673886883,0.0  
forthis 0.0,1.0,0.0,7.99616184232e-05  
streams 0.0,1.0,0.0,7.99616184232e-05  
stratton 1.0,0.0,0.000120336943442,0.0  
cernosek 1.0,0.0,0.000120336943442,0.0  
rodney 1.0,0.0,0.000120336943442,0.0  
safely 0.0,2.0,0.0,0.000159923236846  
ll 2.0,13.0,0.000240673886883,0.0010395010395  
jersey 1.0,0.0,0.000120336943442,0.0  
otherwise 1.0,0.0,0.000120336943442,0.0  
cj 0.0,5.0,0.0,0.000399808092116  
co 3.0,2.0,0.000361010830325,0.000159923236846  
toilet 0.0,1.0,0.0,7.99616184232e-05  
cc 29.0,0.0,0.00348977135981,0.0  
34357 1.0,0.0,0.000120336943442,0.0  
ca 4.0,0.0,0.000481347773767,0.0  
wonder 0.0,1.0,0.0,7.99616184232e-05  
brennan 2.0,0.0,0.000240673886883,0.0  
subscribe 0.0,7.0,0.0,0.000559731328962  
cs 1.0,1.0,0.000120336943442,7.99616184232e-05  
respect 0.0,3.0,0.0,0.000239884855269  
allocated 2.0,0.0,0.000240673886883,0.0  
cp 1.0,0.0,0.000120336943442,0.0  
735670 1.0,0.0,0.000120336943442,0.0  
2807 1.0,0.0,0.000120336943442,0.0  
ad 0.0,16.0,0.0,0.00127938589477  
mailto 0.0,6.0,0.0,0.000479769710539  
trunk 0.0,2.0,0.0,0.000159923236846  
mailman 0.0,3.0,0.0,0.000239884855269  
second 0.0,1.0,0.0,7.99616184232e-05  
powered 0.0,2.0,0.0,0.000159923236846  
addition 5.0,0.0,0.000601684717208,0.0  
charts 2.0,0.0,0.000240673886883,0.0  
darren 2.0,0.0,0.000240673886883,0.0

731 0.0,1.0,0.0,7.99616184232e-05  
offers 0.0,1.0,0.0,7.99616184232e-05  
slowly 0.0,1.0,0.0,7.99616184232e-05  
agreements 3.0,0.0,0.000361010830325,0.0  
olson 2.0,0.0,0.000240673886883,0.0  
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738 1.0,0.0,0.000120336943442,0.0  
hottest 0.0,1.0,0.0,7.99616184232e-05  
waste 0.0,1.0,0.0,7.99616184232e-05  
killed 0.0,2.0,0.0,0.000159923236846  
yesterdays 1.0,0.0,0.000120336943442,0.0  
mike 5.0,0.0,0.000601684717208,0.0  
neuweiler 1.0,0.0,0.000120336943442,0.0  
controlled 0.0,2.0,0.0,0.000159923236846  
received 2.0,2.0,0.000240673886883,0.000159923236846  
609 0.0,1.0,0.0,7.99616184232e-05  
vince 6.0,0.0,0.00072202166065,0.0  
otc 1.0,0.0,0.000120336943442,0.0  
concernig 1.0,0.0,0.000120336943442,0.0  
1200 2.0,0.0,0.000240673886883,0.0  
5555 2.0,0.0,0.000240673886883,0.0  
reliantenergy 3.0,0.0,0.000361010830325,0.0  
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last 6.0,5.0,0.00072202166065,0.000399808092116  
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6484 0.0,1.0,0.0,7.99616184232e-05  
homes 0.0,2.0,0.0,0.000159923236846  
troubled 0.0,1.0,0.0,7.99616184232e-05  
survey 0.0,2.0,0.0,0.000159923236846  
discretely 0.0,1.0,0.0,7.99616184232e-05  
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paidtosurf 0.0,2.0,0.0,0.000159923236846  
appearance 0.0,1.0,0.0,7.99616184232e-05  
examine 0.0,2.0,0.0,0.000159923236846  
value 2.0,2.0,0.000240673886883,0.000159923236846  
stockhouse 0.0,1.0,0.0,7.99616184232e-05  
ryanmcgeachie 1.0,0.0,0.000120336943442,0.0  
hearers 0.0,1.0,0.0,7.99616184232e-05

usb 0.0,1.0,0.0,7.99616184232e-05  
fault 1.0,0.0,0.000120336943442,0.0  
hubs 3.0,0.0,0.000361010830325,0.0  
pictures 1.0,6.0,0.000120336943442,0.000479769710539  
1517 1.0,0.0,0.000120336943442,0.0  
instantly 0.0,1.0,0.0,7.99616184232e-05  
surfola 0.0,4.0,0.0,0.000319846473693  
supply 2.0,1.0,0.000240673886883,7.99616184232e-05  
soap 0.0,2.0,0.0,0.000159923236846  
nero 0.0,1.0,0.0,7.99616184232e-05  
wbom 1.0,0.0,0.000120336943442,0.0  
almost 0.0,1.0,0.0,7.99616184232e-05  
vi 0.0,2.0,0.0,0.000159923236846  
vzxoaxqhg 0.0,1.0,0.0,7.99616184232e-05  
prosper 0.0,2.0,0.0,0.000159923236846  
hardware 0.0,1.0,0.0,7.99616184232e-05  
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lifetime 0.0,1.0,0.0,7.99616184232e-05  
partner 0.0,4.0,0.0,0.000319846473693  
secrets 0.0,5.0,0.0,0.000399808092116  
stands 0.0,1.0,0.0,7.99616184232e-05  
terrorist 0.0,1.0,0.0,7.99616184232e-05  
generic 0.0,6.0,0.0,0.000479769710539  
began 1.0,4.0,0.000120336943442,0.000319846473693  
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cross 3.0,0.0,0.000361010830325,0.0  
attatched 2.0,0.0,0.000240673886883,0.0  
member 0.0,16.0,0.0,0.00127938589477  
when 9.0,10.0,0.00108303249097,0.000799616184232  
strange 0.0,2.0,0.0,0.000159923236846  
digging 0.0,1.0,0.0,7.99616184232e-05  
largest 0.0,1.0,0.0,7.99616184232e-05  
underground 0.0,1.0,0.0,7.99616184232e-05  
party 1.0,1.0,0.000120336943442,7.99616184232e-05  
upgradeable 0.0,3.0,0.0,0.000239884855269  
gets 0.0,3.0,0.0,0.000239884855269  
privileged 1.0,0.0,0.000120336943442,0.0  
difficult 0.0,4.0,0.0,0.000319846473693  
http 1.0,49.0,0.000120336943442,0.00391811930273  
raymond 2.0,0.0,0.000240673886883,0.0

conceived 0.0,1.0,0.0,7.99616184232e-05  
upon 2.0,6.0,0.000240673886883,0.000479769710539  
mutual 0.0,1.0,0.0,7.99616184232e-05  
forecasts 0.0,2.0,0.0,0.000159923236846  
ion 0.0,1.0,0.0,7.99616184232e-05  
stefkatz 1.0,0.0,0.000120336943442,0.0  
kaolin 0.0,1.0,0.0,7.99616184232e-05  
toll 0.0,3.0,0.0,0.000239884855269  
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francisco 1.0,0.0,0.000120336943442,0.0  
kimberley 0.0,3.0,0.0,0.000239884855269  
audit 2.0,0.0,0.000240673886883,0.0  
valeria 1.0,0.0,0.000120336943442,0.0  
transaction 1.0,3.0,0.000120336943442,0.000239884855269  
off 1.0,4.0,0.000120336943442,0.000319846473693  
center 1.0,6.0,0.000120336943442,0.000479769710539  
mention 0.0,2.0,0.0,0.000159923236846  
i 95.0,102.0,0.011432009627,0.00815608507916  
adapted 0.0,1.0,0.0,7.99616184232e-05  
colour 0.0,1.0,0.0,7.99616184232e-05  
purposefully 0.0,1.0,0.0,7.99616184232e-05  
desmeules 1.0,0.0,0.000120336943442,0.0  
banging 0.0,1.0,0.0,7.99616184232e-05  
schafer 1.0,0.0,0.000120336943442,0.0  
thought 1.0,0.0,0.000120336943442,0.0  
procurement 1.0,0.0,0.000120336943442,0.0  
47 0.0,1.0,0.0,7.99616184232e-05  
dronn 1.0,0.0,0.000120336943442,0.0  
odlx 0.0,1.0,0.0,7.99616184232e-05  
davidyi 1.0,0.0,0.000120336943442,0.0  
drawing 0.0,2.0,0.0,0.000159923236846  
ph 0.0,2.0,0.0,0.000159923236846  
restore 0.0,1.0,0.0,7.99616184232e-05  
45 3.0,1.0,0.000361010830325,7.99616184232e-05  
bccli 1.0,0.0,0.000120336943442,0.0  
subscribers 0.0,1.0,0.0,7.99616184232e-05  
less 5.0,11.0,0.000601684717208,0.000879577802655  
moments 0.0,1.0,0.0,7.99616184232e-05  
percent 0.0,1.0,0.0,7.99616184232e-05  
didrex 0.0,1.0,0.0,7.99616184232e-05

executive 3.0,0.0,0.000361010830325,0.0  
domestic 0.0,1.0,0.0,7.99616184232e-05  
obtain 0.0,1.0,0.0,7.99616184232e-05  
recap 1.0,0.0,0.000120336943442,0.0  
xes 0.0,1.0,0.0,7.99616184232e-05  
paul 0.0,2.0,0.0,0.000159923236846  
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adv 0.0,1.0,0.0,7.99616184232e-05  
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sankoh 0.0,3.0,0.0,0.000239884855269  
mircosoft 0.0,1.0,0.0,7.99616184232e-05  
adr 1.0,0.0,0.000120336943442,0.0  
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allay 0.0,1.0,0.0,7.99616184232e-05  
density 0.0,1.0,0.0,7.99616184232e-05  
officially 2.0,0.0,0.000240673886883,0.0  
investor 1.0,0.0,0.000120336943442,0.0  
point 6.0,1.0,0.00072202166065,7.99616184232e-05  
smith 6.0,0.0,0.00072202166065,0.0  
deposits 0.0,2.0,0.0,0.000159923236846  
capabilities 1.0,0.0,0.000120336943442,0.0  
designl 0.0,1.0,0.0,7.99616184232e-05  
arrest 0.0,4.0,0.0,0.000319846473693  
add 1.0,4.0,0.000120336943442,0.000319846473693  
nicki 1.0,0.0,0.000120336943442,0.0  
attractive 0.0,1.0,0.0,7.99616184232e-05  
69545 1.0,0.0,0.000120336943442,0.0  
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accomodate 4.0,0.0,0.000481347773767,0.0  
match 1.0,0.0,0.000120336943442,0.0  
washing 0.0,4.0,0.0,0.000319846473693  
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increased 0.0,5.0,0.0,0.000399808092116  
disappearance 0.0,1.0,0.0,7.99616184232e-05  
checking 1.0,3.0,0.000120336943442,0.000239884855269  
fyi 5.0,0.0,0.000601684717208,0.0  
teleseminar 0.0,2.0,0.0,0.000159923236846  
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260 0.0,1.0,0.0,7.99616184232e-05  
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harbour 1.0,0.0,0.000120336943442,0.0  
desk 6.0,3.0,0.00072202166065,0.000239884855269  
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you 53.0,206.0,0.00637785800241,0.0164720933952  
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loss 0.0,1.0,0.0,7.99616184232e-05  
incredibly 0.0,1.0,0.0,7.99616184232e-05  
necessary 1.0,3.0,0.000120336943442,0.000239884855269  
helpful 1.0,0.0,0.000120336943442,0.0  
success 2.0,18.0,0.000240673886883,0.00143930913162  
miami 0.0,1.0,0.0,7.99616184232e-05  
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tm 0.0,1.0,0.0,7.99616184232e-05  
exceed 0.0,1.0,0.0,7.99616184232e-05  
because 0.0,8.0,0.0,0.000639692947385  
arbitrage 4.0,0.0,0.000481347773767,0.0  
towels 0.0,1.0,0.0,7.99616184232e-05  
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limitations 1.0,0.0,0.000120336943442,0.0  
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host 0.0,1.0,0.0,7.99616184232e-05  
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panel 0.0,1.0,0.0,7.99616184232e-05  
pike 0.0,1.0,0.0,7.99616184232e-05  
about 5.0,24.0,0.000601684717208,0.00191907884216

actual 0.0,1.0,0.0,7.99616184232e-05  
carried 0.0,1.0,0.0,7.99616184232e-05  
world 0.0,4.0,0.0,0.000319846473693  
getting 0.0,4.0,0.0,0.000319846473693  
stad 0.0,1.0,0.0,7.99616184232e-05  
kri 2.0,0.0,0.000240673886883,0.0  
eatables 0.0,1.0,0.0,7.99616184232e-05  
mayerbrown 1.0,0.0,0.000120336943442,0.0  
insufficient 0.0,1.0,0.0,7.99616184232e-05  
introduced 2.0,0.0,0.000240673886883,0.0  
executives 1.0,0.0,0.000120336943442,0.0  
own 1.0,10.0,0.000120336943442,0.000799616184232  
owe 0.0,1.0,0.0,7.99616184232e-05  
year 5.0,8.0,0.000601684717208,0.000639692947385  
terence 0.0,1.0,0.0,7.99616184232e-05  
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included 0.0,4.0,0.0,0.000319846473693  
weather 0.0,1.0,0.0,7.99616184232e-05  
promise 0.0,1.0,0.0,7.99616184232e-05  
female 0.0,3.0,0.0,0.000239884855269  
joyce 1.0,0.0,0.000120336943442,0.0  
managing 0.0,1.0,0.0,7.99616184232e-05  
uncollected 1.0,0.0,0.000120336943442,0.0  
postal 0.0,1.0,0.0,7.99616184232e-05  
prozac 0.0,1.0,0.0,7.99616184232e-05  
transmission 4.0,0.0,0.000481347773767,0.0  
additional 3.0,0.0,0.000361010830325,0.0  
1980 2.0,0.0,0.000240673886883,0.0  
commission 1.0,2.0,0.000120336943442,0.000159923236846  
texaco 6.0,0.0,0.00072202166065,0.0  
transfer 0.0,10.0,0.0,0.000799616184232  
rightly 0.0,1.0,0.0,7.99616184232e-05  
secret 0.0,6.0,0.0,0.000479769710539  
noticed 0.0,1.0,0.0,7.99616184232e-05  
spread 1.0,0.0,0.000120336943442,0.0  
much 4.0,13.0,0.000481347773767,0.0010395010395  
try 2.0,5.0,0.000240673886883,0.000399808092116  
biggest 0.0,1.0,0.0,7.99616184232e-05  
ssmb 1.0,0.0,0.000120336943442,0.0  
chunk 1.0,0.0,0.000120336943442,0.0

jason 1.0,0.0,0.000120336943442,0.0  
function 3.0,0.0,0.000361010830325,0.0  
njwa 1.0,0.0,0.000120336943442,0.0  
buy 2.0,0.0,0.000240673886883,0.0  
north 4.0,3.0,0.000481347773767,0.000239884855269  
560 1.0,0.0,0.000120336943442,0.0  
bus 2.0,2.0,0.000240673886883,0.000159923236846  
brand 0.0,5.0,0.0,0.000399808092116  
strengths 2.0,0.0,0.000240673886883,0.0  
but 12.0,25.0,0.0014440433213,0.00199904046058  
delivery 6.0,3.0,0.00072202166065,0.000239884855269  
expected 1.0,0.0,0.000120336943442,0.0  
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bannersgomlm 0.0,6.0,0.0,0.000479769710539  
automated 0.0,2.0,0.0,0.000159923236846  
hc 2.0,0.0,0.000240673886883,0.0  
eat 0.0,2.0,0.0,0.000159923236846  
assets 1.0,0.0,0.000120336943442,0.0  
embargo 1.0,0.0,0.000120336943442,0.0  
challenges 1.0,0.0,0.000120336943442,0.0  
sending 0.0,1.0,0.0,7.99616184232e-05  
made 5.0,4.0,0.000601684717208,0.000319846473693  
places 0.0,1.0,0.0,7.99616184232e-05  
switch 1.0,0.0,0.000120336943442,0.0  
dangerous 0.0,1.0,0.0,7.99616184232e-05  
j 14.0,0.0,0.00168471720818,0.0  
flip 1.0,0.0,0.000120336943442,0.0  
signed 0.0,3.0,0.0,0.000239884855269  
record 2.0,0.0,0.000240673886883,0.0  
below 5.0,7.0,0.000601684717208,0.000559731328962  
convince 0.0,1.0,0.0,7.99616184232e-05  
stories 0.0,2.0,0.0,0.000159923236846  
ruling 2.0,0.0,0.000240673886883,0.0  
demonstrate 2.0,0.0,0.000240673886883,0.0  
distribution 3.0,0.0,0.000361010830325,0.0  
piece 0.0,1.0,0.0,7.99616184232e-05  
minutes 0.0,1.0,0.0,7.99616184232e-05  
what 9.0,27.0,0.00108303249097,0.00215896369743  
firm 2.0,2.0,0.000240673886883,0.000159923236846  
irish 0.0,1.0,0.0,7.99616184232e-05

replying 1.0,0.0,0.000120336943442,0.0  
measure 0.0,1.0,0.0,7.99616184232e-05  
generating 2.0,0.0,0.000240673886883,0.0  
dissemination 1.0,0.0,0.000120336943442,0.0  
0007 2.0,1.0,0.000240673886883,7.99616184232e-05  
sempra 1.0,0.0,0.000120336943442,0.0  
pavluk 1.0,0.0,0.000120336943442,0.0  
nrg 1.0,0.0,0.000120336943442,0.0  
sneak 0.0,2.0,0.0,0.000159923236846  
happen 1.0,0.0,0.000120336943442,0.0  
worse 0.0,1.0,0.0,7.99616184232e-05  
champion 0.0,3.0,0.0,0.000239884855269  
functions 3.0,0.0,0.000361010830325,0.0  
123395 1.0,0.0,0.000120336943442,0.0  
azepam 0.0,2.0,0.0,0.000159923236846  
incredible 0.0,1.0,0.0,7.99616184232e-05  
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corporation 0.0,2.0,0.0,0.000159923236846  
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0003 3.0,0.0,0.000361010830325,0.0  
overgaard 1.0,0.0,0.000120336943442,0.0  
43 1.0,1.0,0.000120336943442,7.99616184232e-05  
40 1.0,5.0,0.000120336943442,0.000399808092116  
41 1.0,0.0,0.000120336943442,0.0  
book 2.0,2.0,0.000240673886883,0.000159923236846  
details 0.0,2.0,0.0,0.000159923236846  
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ashburton 0.0,3.0,0.0,0.000239884855269  
gonzalez 1.0,0.0,0.000120336943442,0.0  
74949 1.0,0.0,0.000120336943442,0.0  
delainey 8.0,0.0,0.000962695547533,0.0  
kinds 0.0,2.0,0.0,0.000159923236846  
monday 9.0,2.0,0.00108303249097,0.000159923236846  
gas 25.0,0.0,0.00300842358604,0.0  
june 0.0,3.0,0.0,0.000239884855269  
inherently 0.0,1.0,0.0,7.99616184232e-05  
stay 0.0,1.0,0.0,7.99616184232e-05

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throughout 0.0,3.0,0.0,0.000239884855269  
agonizing 0.0,1.0,0.0,7.99616184232e-05  
friends 0.0,2.0,0.0,0.000159923236846  
incurred 0.0,3.0,0.0,0.000239884855269  
exposure 0.0,2.0,0.0,0.000159923236846  
prez 1.0,0.0,0.0,0.000120336943442,0.0  
txuenergy 3.0,0.0,0.0,0.000361010830325,0.0  
using 2.0,11.0,0.000240673886883,0.000879577802655  
fund 0.0,3.0,0.0,0.000239884855269  
ranks 0.0,2.0,0.0,0.000159923236846  
starting 0.0,1.0,0.0,7.99616184232e-05  
heathman 1.0,0.0,0.0,0.000120336943442,0.0  
lehr 1.0,0.0,0.0,0.000120336943442,0.0  
morne 0.0,1.0,0.0,7.99616184232e-05  
portion 1.0,0.0,0.0,0.000120336943442,0.0  
write 0.0,3.0,0.0,0.000239884855269  
compete 0.0,1.0,0.0,7.99616184232e-05  
volumes 1.0,0.0,0.0,0.000120336943442,0.0  
runkel 1.0,0.0,0.0,0.000120336943442,0.0  
smoker 0.0,1.0,0.0,7.99616184232e-05  
thompson 1.0,0.0,0.0,0.000120336943442,0.0  
commencement 0.0,1.0,0.0,7.99616184232e-05  
dynamic c0 is 0.000120  
dynamic c1 is 0.000000  
dynamic c0 is 0.000120  
dynamic c1 is 0.000000  
Pr(HAM|0001.2000-06-06.lokay) -3192.56418535  
Pr(HAM|0003.2000-01-17.beck) -1158.90948169  
Pr(HAM|0003.2003-12-18.GP) -644.125165095  
Pr(HAM|0003.2004-08-01.BG) -486.276279123  
Pr(HAM|0005.2001-06-23.SA\_and\_HP) -138.490398987  
Pr(HAM|0006.1999-12-13.kaminski) -380.454632117  
Pr(HAM|0007.1999-12-14.farmer) -510.379400205  
Pr(HAM|0009.1999-12-13.kaminski) -4890.20314048  
Pr(HAM|0011.2004-08-01.BG) -477.361803233

```
Pr(HAM|0012.2000-06-08.lokay) -721.544072526
Pr(HAM|0013.1999-12-14.kaminski) -1252.83856522
Pr(HAM|0015.1999-12-14.kaminski) -529.120006477
Pr(HAM|0016.1999-12-15.farmer) -677.50930702
Pr(HAM|0017.2004-08-02.BG) -2077.49652727
Pr(HAM|0018.1999-12-14.kaminski) -916.938249333
Pr(SPAM|0001.2000-06-06.lokay) -3374.44625138
Pr(SPAM|0003.2000-01-17.beck) -1360.43446049
Pr(SPAM|0003.2003-12-18.GP) -608.569414034
Pr(SPAM|0003.2004-08-01.BG) -456.869459194
Pr(SPAM|0005.2001-06-23.SA_and_HP) -131.243756294
Pr(SPAM|0006.1999-12-13.kaminski) -377.226098171
Pr(SPAM|0007.1999-12-14.farmer) -560.197337924
Pr(SPAM|0009.1999-12-13.kaminski) -6722.3163742
Pr(SPAM|0011.2004-08-01.BG) -438.313686912
Pr(SPAM|0012.2000-06-08.lokay) -690.930748585
Pr(SPAM|0013.1999-12-14.kaminski) -1579.32014995
Pr(SPAM|0015.1999-12-14.kaminski) -568.806232452
Pr(SPAM|0016.1999-12-15.farmer) -683.602484635
Pr(SPAM|0017.2004-08-02.BG) -2007.5518818
Pr(SPAM|0018.1999-12-14.kaminski) -904.702672344
errorRate 3
newWords 556
totalDocs 15
zeroProbs 1011
```

## HW1.5: Remove words with frequency of less than three (3) in the training set

Repeat HW1.4. This time when modeling and classification ignore tokens with a frequency of less than three (3) in the training set. How does it affect the misclassification error of learnt naive multinomial Bayesian Classifier on the training dataset. Report the error and the change in error. HINT: ignore tokens with a frequency of less than three (3). Think of this as a preprocessing step. How many new mapreduce jobs do you need to solve thus homework?

In [25]:

```
#HW1.5
%%writefile MRNaiveBayesClassifierEN_ignore3.py

from mrjob.job import MRJob

import math, re, string, numpy

class MRNaiveBayesClassifierEN_ignore3(MRJob):
    def __init__(self, *args, **kwargs):
        super(MRNaiveBayesClassifierEN_ignore3, self).__init__(*args, **kwargs)
        self.modelStats = {}
        self.prC0 = self.prC1 = 0
    def mapper_init(self):
        recordStrs = [s.split('\n')[0].split('\t') for s in open("/Users/z013hnv/Homework1/ENmodel.txt").readlines()]
        for word, statsStr in recordStrs:
            self.modelStats[word] = map(float, statsStr.split(","))
        if word=="MarksPriors":
            self.prC0 = math.log(self.modelStats[word][0])
            self.prC1 = math.log(self.modelStats[word][1])
            #print "show me prC0: ", (self.prC0)
            #print "show me prC1: ", (self.prC1)

    def mapper(self, _, line):
        docID, docClass, text = line.split("\t",2)
        regex = re.compile('[%s]' % re.escape(string.punctuation))
        line = regex.sub(' ', str(text).lower())
        line = re.sub( '\s+', ' ', line )

        words = line.split()
        pC0 = self.prC0
        pC1 = self.prC1

        for word in words:
            if words.count(word)>=3:
                if word in self.modelStats:
                    if self.modelStats[word][2]!=0:
                        #print "P(word|class0): %f" % (self.modelStats[word][2])
                        pC0 += math.log(self.modelStats[word][2]) #we can just add each one since log(ab)=log(a)+log(b) AND log(x^n)=n(log(x))
```

```

        else:
            pC0 += math.log(6.82500682501e-05) #add something small to account fo
r the zeroes
            yield ('zeroProbs', 1)
        if self.modelStats[word][3]!=0:
            #print "P(word|class1): %f" % (self.modelStats[word][3])
            pC1 += math.log(self.modelStats[word][3])
        else:
            pC1 += math.log(6.82500682501e-05) #add something small to account fo
r the zeroes
            yield ('zeroProbs', 1)
        else:
            yield ('newWords', 1)
    else:
        yield ('skipped_words<3', 1)
yield ("Pr(HAM|%s)" % (docID), pC0)
yield ("Pr(SPAM|%s)" % (docID), pC1)
#check which probability is greater, and compare to the flag
if numpy.argmax([pC0, pC1]):
    #our model says this is most likely SPAM
    if docClass == "0":
        yield ('errorRate', 1)
        yield ('totalDocs', 1)
    else:
        #our model says this is most likely HAM
        if docClass == "1":
            yield ('errorRate', 1)
        yield ('totalDocs', 1)

def reducer(self, word, values):
    #sum the corrects, incorrects from the data
    yield (word, sum(values))

if __name__ == '__main__':
    MRNaiveBayesClassifierEN_ignore3.run()

```

Overwriting MRNaiveBayesClassifierEN\_ignore3.py

In [26]:

```
#HW1.5
%reload_ext autoreload
%autoreload 2

from numpy import random
from MRNaiveBayesTrainerEN import MRNaiveBayesTrainerEN
from MRNaiveBayesClassifierEN_ignore3 import MRNaiveBayesClassifierEN_ignore3

# STEP 1: Train a multinomial Naive Bayes

mr_job = MRNaiveBayesTrainerEN(args=['enronemail_1h.txt'])
modelStats={}
with mr_job.make_runner() as runner:
    runner.run()
    # stream_output: get access of the output
    for line in runner.stream_output():
        key,value = mr_job.parse_output_line(line)
        #print key, value
        modelStats[key] = value

    # Create the model txt file
    with open('/Users/z013hnv/Homework1/ENmodel.txt', 'w') as f:
        for k in modelStats.keys():
            f.writelines( k + "\t" + str(modelStats[k]) + "\n")

# STEP 2: Classify data with newly trained model

mr_job = MRNaiveBayesClassifierEN_ignore3(args=['enronemail_1h.txt',
                                                '--file=/Users/z013hnv/Homework1/ENmodel.txt'])
classifierResults={}
with mr_job.make_runner() as runner:
    runner.run()
    # stream_output: get access of the output
    for line in runner.stream_output():
        key,value = mr_job.parse_output_line(line)
        print key, value
        classifierResults[key] = value

    with open('ENSPAMoutput.txt', 'w') as f:
        for k in classifierResults.keys():
```

```
if k.find('SPAM') == 3:  
    f.writelines(str(classifierResults[k]) + "\n")  
with open('ENHAMoutput.txt', 'w') as g:  
    for k in classifierResults.keys():  
        if k.find('HAM') == 3:  
            g.writelines(str(classifierResults[k]) + "\n")
```



Pr(HAM|0001.1999-12-10.farmer) 4.02535169074  
Pr(HAM|0001.1999-12-10.kaminski) 4.02535169074  
Pr(HAM|0001.2000-01-17.beck) -1533.18456456  
Pr(HAM|0001.2000-06-06.lokay) -1954.85782756  
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```
errorRate 13
skipped_words<3 15491
totalDocs 100
zeroProbs 3685
```

HW1.5 - Error rate jumped from 2% to 13% after skipping words with less than 3 occurrences

## HW1.6 Benchmark your code with the Python SciKit-Learn implementation of the multinomial Naive Bayes algorithm

HW1.6.0: Multinomial Naive Bayes using SciKit-Learn

It always a good idea to benchmark your solutions against publicly available libraries such as SciKit-Learn, The Machine Learning toolkit available in Python. In this exercise, we benchmark ourselves against the SciKit-Learn implementation of multinomial Naive Bayes. For more information on this implementation see: [http://scikit-learn.org/stable/modules/naive\\_bayes.html](http://scikit-learn.org/stable/modules/naive_bayes.html) ([http://scikit-learn.org/stable/modules/naive\\_bayes.html](http://scikit-learn.org/stable/modules/naive_bayes.html)) more

In this exercise, please complete the following:

- Run the Multinomial Naive Bayes algorithm (using default settings) from SciKit-Learn over the same training data used in HW1.4.2 and report the misclassification error (please note some data preparation might be needed to get the Multinomial Naive Bayes algorithm from SciKit-Learn to run over this dataset)
- Prepare a table to present your results, where rows correspond to approach used (SciKit-Learn versus your Hadoop implementation) and the column presents the misclassification error rates (train, validation, testing) — Explain/justify any differences in terms of training error rates over the dataset in HW1.5 between your Multinomial Naive Bayes implementation (in Map Reduce) versus the Multinomial Naive Bayes implementation in SciKit-Learn

HW1.6 - Didn't quite figure it out

## HW 1.6.1: OPTIONAL (note this exercise is a stretch HW and optional)

- Bernoulli Naive Bayes using SciKit-Learn — Run the Bernoulli Naive Bayes algorithm from SciKit-Learn (using default settings) over the same training data used in HW1.6 and report the misclassification error
- Discuss the performance differences in terms of misclassification error rates over the dataset in HW1.5 between the Multinomial Naive Bayes implementation in SciKit-Learn with the Bernoulli Naive Bayes implementation in SciKit-Learn. Why such big differences. Explain.

Which approach to Naive Bayes would you recommend for SPAM detection? Justify your selection.

## HW1.7: OPTIONAL Preprocess the Entire Spam Dataset

The Enron SPAM data in the following folder enron1-Training-Data-RAW (<https://www.dropbox.com/sh/hemnvr0422nr36g/AAAPoK-aYxkFGxGjzaeRNEwSa?dl=0>) is in raw text form (with subfolders for SPAM and HAM that contain raw email messages in the following form:

--- Line 1 contains the subject --- The remaining lines contain the body of the email message.

In Python (or MrJob) write a script to produce a TSV file called train-Enron-1.txt that has a similar format as the enronemail\_1h.txt that you have been using so far. Please pay attend to funky characters and tabs. Check your resulting formated email data in Excel and in Python (e.g., count up the number of fields in each row; the number of SPAM mails and the number of HAM emails). Does each row correspond to an email record with four values? Note: use "NA" to denote empty field values.

## HW1.8: OPTIONAL Build and evaluate a NB classifier on the Entire Spam Dataset

Using Hadoop Map-Reduce write job(s) to perform the following: -- Train a multinomial Naive Bayes Classifier with Laplace plus one smoothing using the data extracted in HW1.7 (i.e., train-Enron-1.txt). Use all white-space delimited tokens as independent input variables (assume spaces, fullstops, commas as delimiters). Drop tokens with a frequency of less than three (3). -- Test the learnt classifier using enronemail\_1h.txt and report the misclassification error rate. Remember to use all white-space delimited tokens as independent input variables (assume spaces, fullstops, commas as delimiters). How do we treat tokens in the test set that do not appear in the training set?

### HW1.8.1: OPTIONAL

— Run both the Multinomial Naive Bayes and the Bernoulli Naive Bayes algorithms from SciKit-Learn (using default settings) over the same training data used in HW1.8 and report the misclassification error on both the training set and the testing set

- Prepare a table to present your results, where rows correspond to approach used (SciKit-Learn Multinomial NB; SciKit-Learn Bernoulli NB; Your Hadoop implementation) and the columns presents the training misclassification error, and the misclassification error on the test data set
- Discuss the performance differences in terms of misclassification error rates over the test and training datasets by the different implementations. Which approach (Bernoulli versus Multinomial) would you recommend for SPAM detection? Justify your selection.

In [ ]: