# IR Group

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## 1 60% Task 2

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#### 1.1 Introduction

This jupiter notebook deals with the first part of the task given, that being:

- 1. Processing the emails
- 2. Calculating term weights using TF/IDF
- 3. Extracting the highest-weighted n of the terms for each correspondent.
- 4. Clustering the Users
- 5. Clustering the Terms
- 6. Exportation

For the second part, a folder named 'Flask Server' shall be provided with a text file instructing on how to set up the server through command line.

```
[]: import os
from email.parser import Parser
from tqdm import tqdm
from nltk.tokenize import RegexpTokenizer #used to tokenize into words and
→remove punctuation
from nltk.corpus import stopwords
import numpy as np #matrix
from collections import Counter
import pandas as pd
import random
import json
import pickle

from tqdm import tqdm #extra function to monitor lengthy calls
import time
```

### 1.1.1 Processing the emails

In order to process each email a class was created that would store each emails individual body paragraph, the sender and each receiver.

The following goes through each email contained in the given 'maildir' folder with all the emails and starts parsing each email.

Emails are parsed using the 'email.parser' packaged to recieve the 'to', 'from' and body from each email, a list is maintained that will be used later on that houses each unique email address from a sender.

```
[5]: rootDir = "maildir"
     allEmailAddresses = []
     allEmails = []
     seen = set()
     for directory, subdirectory, files in os.walk(rootDir):
         for file in files:
             with open(os.path.join(directory, file), "r") as f:
                 contents = f.read()
             parse = Parser().parsestr(contents)
             send = parse['from']
             if parse['to']:
                 recieve = parse['to']
                 recieve = "".join(recieve.split())
                 recieve = recieve.split(",")
             else:
                 recieve = "empty"
             body = parse.get_payload()
             if recieve!= "empty":
                 mail = Emails(send,recieve,body)
                 if send not in seen: #storing unique emails
                     seen.add(send)
                     allEmailAddresses.append(send)
                 #for email in recieve:
                     if email not in seen:
                          seen.add(email)
                          allEmailAddresses.append(email)
                 allEmails.append(mail)
```

The following is the creation of each TWO distinct sender/reciever documents. A loop will go

through every email and create a dictionary that for each receiver in a email will create a pair with there respective email. As an example lets say we an email which has as a sender 'x', recievers 'y' 'z' with some body 'b'. These will be divided into a dict: (x,y)(b) and (x,z)(b) If the same pair where to be present again throughout any other email then that email will be appended to the document.

```
[4]: documents = {}
for mail in allEmails:
    for recieve in mail.toReceiver:
        firstType = (mail.fromSender, recieve)
        secondType = (recieve, mail.fromSender)
        if(firstType in documents.keys()):
            documents[mail.fromSender, recieve] += mail.body
        elif(secondType in documents.keys()):
            documents[recieve, mail.fromSender] += mail.body
        else:
            documents[mail.fromSender, recieve] = mail.body
```

#### 1.1.2 Tokenization

The following functions where used in the 40% IR project and are reused to tokenise, case fold, stemm and perform stop word removal on every document created.

Due to the size of 'mirdir' being that of ~250k emails, after the process was finished the 'pickle' package was used to save the tokenised documents in an Intermidiate file 'AllEmails.json'.

```
[5]: tokenizer = RegexpTokenizer(r'\w+')

def tokenise(string):
   tokens_document = tokenizer.tokenize(string)
   return tokens_document
```

```
[6]: def caseFold (list): #function which handles casefolding
    casefoldedList = [word.casefold() for word in list]
    return casefoldedList
```

```
[8]: from nltk.stem import PorterStemmer
def stemm(list): #function which handles a documents stemming
   Stem = PorterStemmer()
   stemmList = [Stem.stem(word) for word in list]
   return stemmList
```

Skip this step to the next for the already processed documents.

```
[9]: LENGTH = len(documents)
    pbar = tqdm(total=LENGTH) # Number of iterations required to fill pbar

for document in documents:
    documents[document] = tokenise(documents[document])
    documents[document] = caseFold(documents[document])
    documents[document] = stopWordRemoval(documents[document])
    documents[document] = stemm(documents[document])
    pbar.update(n=1) # Increments counter
```

100%| 251686/251699 [3:40:36<00:00, 129.53it/s]

Saving all the unique emails externally so the functions before dont need to be reran.

```
[12]:  #with open('AllEmails.json', 'w') as outfile:  # json.dump(allEmailAddresses, outfile)
```

```
[2]: with open('AllEmails.json') as json_file:
    AllEmails = json.load(json_file)
    print(AllEmails)
```

```
['heather.dunton@enron.com', 'anchordesk_daily@anchordesk.zdlists.com',
'subscriptions@intelligencepress.com', 'prizemachine@feedback.iwon.com',
'louise.kitchen@enron.com', 'arsystem@mailman.enron.com',
'exclusive_offers@sportsline.com', 'hunter.williams@grandecom.com',
'richard.morgan@austinenergy.com', 'jsmith@austintx.com',
'wise.counsel@lpl.com', 'renee.ratcliff@enron.com', 'msimpkins@winstead.com',
'gthorse@keyad.com', 'monica.l.brown@accenture.com', 'david.port@enron.com',
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'iwon@info.iwon.com', 'mondohed@gte.net', 'enron_update@concureworkplace.com',
'steven.matthews@ubspw.com', 'kirk.mcdaniel@enron.com',
'mery.l.brown@accenture.com', 'gthorse@about-cis.com',
"ryan.o'rourke@enron.com", 'leanne@integrityrs.com',
'melissaspears@open2win.oi3.net', 'jwills3@swbell.net',
'michelle.akers@enron.com', 'greg.whalley@enron.com',
'software@mail02.unitedmarketingstrategies.com', 'pallen70@hotmail.com',
'david.oxley@enron.com', 'gift@amazon.com',
'unsubscribe-i@networkpromotion.com', '1.11913372.-2@multexinvestornetwork.com',
'aod@newsdata.com', 'critical.notice@enron.com', 'market-
```

```
reply@listserv.dowjones.com', 'rebecca.cantrell@enron.com',
'paul.kaufman@enron.com', 'yild@zdemail.zdlists.com', 'bounce-
news-932653@lists.autoweb.com', 'phillip.allen@enron.com',
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'bobregon@bga.com', 'rob_tom@freenet.carleton.ca', 'calxa@aol.com',
'billc@greenbuilder.com', 'matt@fastpacket.net', 'jfreeman@ssm.net',
'grensheltr@aol.com', 'colleen.koenig@enron.com', 'jeff.leath@enron.com',
'tracy.ramsey@enron.com', 'jeff.youngflesh@enron.com', 'larry.ciscon@enron.com',
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'john.arnold@enron.com', 'credit <.williams@enron.com>', 'ltaylor@heidrick.com',
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aimr2001@bbh1.viamedialing.com', 'admin.enron@enron.com',
'great_steaks@offer.omahasteaks.com', 'tammie.schoppe@enron.com',
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'eblastoff@rocketball.com', 'breakingnews@mail.cnn.com',
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'hotdeals@mail.hotelresnetwork.com', 'infrastructure.ubsw@enron.com',
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'continentalvacations@lists.coolvacations.com',
'administration.enron@enron.com', 'partner-news@amazon.com',
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'events@eyeforenergy.com', 'hot-farealert@hotwire.m0.net',
'jr..legal@enron.com', 'coo.jeff@enron.com', 'xxenergy@ix.netcom.com',
'lists.coolvacations.com@lists.coolvacations.com', 'account-update@amazon.com',
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'david.fisher@enron.com', 'emma.vine@gvsi.com', 'mark.paling@accenture.com',
'rbhattacharya@velaw.com', 'lebend@tdbank.ca', 'carol.moline@powerpool.ab.ca',
'edwardc38@hotmail.com', 'ingjald@shaw.ca']
```

To avoid overwriting the saving of the document file has been commented out.

```
[16]: #with open('tokenIntermediary.pkl', 'wb') as f: # pickle.dump(documents, f)
```

```
[3]: with open('tokenIntermediary.pkl', 'rb') as f:
    loaded_dict = pickle.load(f)
```

The following displays the content of the first document in the dict to give a better representation of how its stored.

```
[4]: dict_pairs = loaded_dict.items()
    pairs_iterator = iter(dict_pairs)
    first_pair = next(pairs_iterator)
    print(first_pair)
```

```
(('heather.dunton@enron.com', 'k..allen@enron.com'), ['pleas', 'let', 'know',
'still', 'need', 'curv', 'shift', 'thank', 'heather', 'origin', 'messag',
'allen', 'phillip', 'k', 'sent', 'friday', 'decemb', '07', '2001', '5', '14',
'dunton', 'heather', 'subject', 'west', 'posit', 'heather', 'attach', 'file',
'email', 'origin', 'messag', 'dunton', 'heather', 'sent', 'wednesday', 'decemb',
'05', '2001', '1', '43', 'pm', 'allen', 'phillip', 'k', 'belden', 'tim',
'subject', 'fw', 'west', 'posit', 'attach', 'delta', 'posit', '1', '16', '1',
'30', '6', '19', '7', '13', '9', '21', 'origin', 'messag', 'allen', 'phillip',
'k', 'sent', 'wednesday', 'decemb', '05', '2001', '6', '41', 'dunton',
```

'heather', 'subject', 'west', 'posit', 'heather', 'exactli', 'need', 'would', 'possibl', 'add', 'prior', 'day', 'date', 'pivot', 'tabl', 'order', 'valid', 'curv', 'shift', 'date', 'also', 'need', 'prior', 'day', 'end', 'posit', 'thank', 'phillip', 'allen', 'origin', 'messag', 'dunton', 'heather', 'sent', 'tuesday', 'decemb', '04', '2001', '3', '12', 'pm', 'belden', 'tim', 'allen', 'phillip', 'k', 'cc', 'driscol', 'michael', 'subject', 'west', 'posit', 'attach', 'delta', 'posit', '1', '18', '1', '31', '6', '20', '7', '16', '9', '24', 'file', 'west\_delta\_po', 'xl', 'let', 'know', 'question', 'heatherheath', 'exactli', 'need', 'would', 'possibl', 'add', 'prior', 'day', 'date', 'pivot', 'tabl', 'order', 'valid', 'curv', 'shift', 'date', 'also', 'need', 'prior', 'day', 'end', 'posit', 'thank', 'phillip', 'allen', 'origin', 'messag', 'dunton', 'heather', 'sent', 'tuesday', 'decemb', '04', '2001', '3', '12', 'pm', 'belden', 'tim', 'allen', 'phillip', 'k', 'cc', 'driscol', 'michael', 'subject', 'west', 'posit', 'attach', 'delta', 'posit', '1', '18', '1', '31', '6', '20', '7', '16', '9', '24', 'file', 'west\_delta\_po', 'xl', 'let', 'know', 'question', 'heatherheath', 'attach', 'file', 'email', 'origin', 'messag', 'dunton', 'heather', 'sent', 'wednesday', 'decemb', '05', '2001', '1', '43', 'pm', 'allen', 'phillip', 'k', 'belden', 'tim', 'subject', 'fw', 'west', 'posit', 'attach', 'delta', 'posit', '1', '16', '1', '30', '6', '19', '7', '13', '9', '21', 'origin', 'messag', 'allen', 'phillip', 'k', 'sent', 'wednesday', 'decemb', '05', '2001', '6', '41', 'dunton', 'heather', 'subject', 'west', 'posit', 'heather', 'exactli', 'need', 'would', 'possibl', 'add', 'prior', 'day', 'date', 'pivot', 'tabl', 'order', 'valid', 'curv', 'shift', 'date', 'also', 'need', 'prior', 'day', 'end', 'posit', 'thank', 'phillip', 'allen', 'origin', 'messag', 'dunton', 'heather', 'sent', 'tuesday', 'decemb', '04', '2001', '3', '12', 'pm', 'belden', 'tim', 'allen', 'phillip', 'k', 'cc', 'driscol', 'michael', 'subject', 'west', 'posit', 'attach', 'delta', 'posit', '1', '18', '1', '31', '6', '20', '7', '16', '9', '24', 'file', 'west\_delta\_po', 'xl', 'let', 'know', 'question', 'heather'])

## 1.1.3 TFIDF

Major Note: The following implementation was done on a system that has 32gb of memory and all of it was utilized for tokenisation, optimizations for how this process manages memory could be done but due to time restrictions this could not be met to it is recommended for the Tfidf intermidiary file, a system with at least 32gb is used any less will end up running out of memory.

The TFIDF function first gets all the DF values for each document present, thereafter calculates the subsequent tf values and finally the TF/IDF Values which is stored in a dict as follows (user, word)(tfidf value).

```
except:
                      DF_Vals[w] = \{i\}
          for i in DF_Vals:
              DF_Vals[i] = len(DF_Vals[i])
          return(DF_Vals)
 [5]: LENGTH = len(loaded_dict)
      AllValues = list(loaded_dict.values())
      AllKeys = list(loaded_dict.keys())
      loaded dict.clear() #clearning old dict to save memory
      DF_Values = DFValues(AllValues) #Getting the all the DF values.
 [6]: tfidf = {}
      pbar2 = tqdm(total=LENGTH) # Number of iterations required to fill pbar
      for i in range(LENGTH):
          pbar2.update(n=1) # Increments counter
          tokens = AllValues[i]
          count = Counter(tokens)
          for token in np.unique(tokens):
              tf = count[token]/len(token) #TF = (Number of times term t appears in au
       \rightarrow document) / (Total number of terms in the document).
              df = DF_Values[token]
              idf = np.log(LENGTH/(df)) #IDF: (Total number of documents)/(Number of L
       → documents containing the word)
              tfidf[AllKeys[i], token] = tf*idf
      AllValues.clear()
      AllKeys.clear()
      DF Values.clear()
     100%
     251699/251699 [14:08<00:00, 1786.94it/s]
     Saving the TFIDF dict externally (commented out so no accidental rewrittens occur)
 [8]: #import pickle
      #with open('data.pickle', 'wb') as f:
           # Pickle the 'data' dictionary using the highest protocol available.
           pickle.dump(tfidf, f, pickle.HIGHEST_PROTOCOL)
     Loading TFIDF dict (warning: large memory storage needed)
[10]: with open('data.pickle', 'rb') as f:
          loaded_tf = pickle.load(f)
```

Filterning every unique email to only get the employee emails:

```
[58]: import re
      regex = r' b[A-Za-z0-9...%+-]+0enron.com'
      EnronUsers = []
      for user in AllEmails:
           if(re.fullmatch(regex, user)):
              EnronUsers.append(user)
[60]: print(len(EnronUsers))
      print(EnronUsers)
     5779
     ['heather.dunton@enron.com', 'louise.kitchen@enron.com',
     'renee.ratcliff@enron.com', 'david.port@enron.com', 'james.bruce@enron.com',
     'kathryn.sheppard@enron.com', 'c..gossett@enron.com', 'kirk.mcdaniel@enron.com',
     'michelle.akers@enron.com', 'greg.whalley@enron.com', 'david.oxley@enron.com',
     'critical.notice@enron.com', 'rebecca.cantrell@enron.com',
     'paul.kaufman@enron.com', 'phillip.allen@enron.com',
     'public.relations@enron.com', 'stephanie.miller@enron.com',
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     'alyse.herasimchuk@enron.com', 'lisa.jacobson@enron.com',
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     'jeanie.slone@enron.com', 'john.arnold@enron.com', 'rick.wurlitzer@enron.com',
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'tobias.munk@enron.com', 'office.chairman@enron.com', 'erequest@enron.com',
'eileen.buerkert@enron.com', 'jeff.bartlett@enron.com', 'amy.spoede@enron.com',
'kristi.demaiolo@enron.com', 'paula.hix@enron.com', 'dan.bruce@enron.com',
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'leonardo.pacheco@enron.com', 'philippe.bibi@enron.com',
'vanessa.carranza@enron.com', 'zachary.streight@enron.com',
'sanjay.bhatnagar@enron.com', 'lisa.shoemake@enron.com',
'lee.jackson@enron.com', 'jeff.dasovich@enron.com', 'susan.mara@enron.com',
'tom.delaney@enron.com', 'mona.petrochko@enron.com', 'mary.hain@enron.com',
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## 1.1.4 Extracting the highest-weighted n of the terms for each correspondent.

The following sets to achieves two goals, i) Representing each user as vector of features ii) Creating a keyword cloud for each user

A subset of users are taken of around 150 users from the total amount of users, which would be a sample of users from the company, changing the 'LENGTH' size will correctly go through and process more users keyword clouds/vectorisations but for simplification purposes only a subset are taken. (Also works with all users).

The unique list created before hand of each enron employee is now utilised and for every employee, if a user is found to be a sender or reciever then a each word is retrieved and maintained inside a dict, every time a word is repeated the value is added to the same word dict and after 'avgDict' is used to go through each word and the average weight value is computed and stored.

A keyword cloud is created using the top 50 most frequently used words by a user (depending on a sorted weight value) and a vectorized dict is used with all the words.

```
[62]: import collections
LENGTH=150
pbar3 = tqdm(total=LENGTH)

counter = 0
keyWordCloud = collections.defaultdict(list)
Vectorize = collections.defaultdict(list)
```

```
for user in EnronUsers:
   pbar3.update(n=1) # Increments counter
    counter+= 1
   dict_user = collections.defaultdict(list)
   for key,value in loaded_tf.items():
        if (key[0][0]==user or key[0][1]==user):
            dict_user[key].append(value)
   avgDict = {}
   for key,value in dict_user.items():
       User_Word = [user, key[1]]
       q = tuple(User_Word)
        avgDict[q] = (sum(value)/ float(len(value)))
   MostFreq = sorted(avgDict.items(), key=lambda x:x[1], reverse=True)[:50]
   MostFreqAll = sorted(avgDict.items(), key=lambda x:x[1], reverse=True)
   for key,value in MostFreqAll:
       Vectorize[user].append([key[1],value])
   for key,value in MostFreq:
       keyWordCloud[user].append([key[1],value])
   dict_user.clear() #Cleared to maintain memory
   MostFreq.clear()
   avgDict.clear()
   if(counter==LENGTH):
       break
loaded_tf.clear() #frees most of the memory used
```

```
4%|
| 2/50 [00:51<20:31, 25.66s/it]

1%|
| 2/150 [00:23<28:48, 11.68s/it]
2%|
| 3/150 [00:48<41:57, 17.12s/it]
3%|
| 4/150 [01:11<47:23, 19.47s/it]
3%|
| 5/150 [01:34<50:13, 20.78s/it]
```

```
4%1
| 6/150 [01:58<51:54, 21.63s/it]
 5%|
| 7/150 [02:20<51:59, 21.82s/it]
 5%1
| 8/150 [02:43<52:38, 22.24s/it]
  6%1
| 9/150 [03:05<52:19, 22.26s/it]
 7%|
| 10/150 [03:28<52:31, 22.51s/it]
 7%|
| 11/150 [03:51<52:29, 22.66s/it]
 8%1
| 12/150 [04:14<52:17, 22.74s/it]
  9%1
| 13/150 [04:36<51:30, 22.55s/it]
 9%1
| 14/150 [04:59<50:52, 22.45s/it]
10%|
| 15/150 [05:22<51:10, 22.74s/it]
11%|
| 16/150 [05:46<51:36, 23.11s/it]
| 17/150 [06:08<50:31, 22.80s/it]
12%|
| 18/150 [06:30<49:50, 22.66s/it]
13%|
| 19/150 [06:54<49:52, 22.84s/it]
13%|
| 20/150 [07:18<50:13, 23.18s/it]
14%|
| 21/150 [07:40<49:26, 22.99s/it]
15% l
| 22/150 [08:03<49:13, 23.07s/it]
15%|
| 23/150 [08:26<48:49, 23.07s/it]
16%|
| 24/150 [08:51<49:36, 23.62s/it]
17%|
| 25/150 [09:18<51:01, 24.49s/it]
17%|
| 26/150 [09:41<49:42, 24.05s/it]
18%|
| 27/150 [10:06<49:36, 24.20s/it]
19%|
| 28/150 [10:28<48:27, 23.83s/it]
19%|
| 29/150 [10:51<47:02, 23.33s/it]
```

```
20%
| 30/150 [11:14<46:55, 23.47s/it]
21%|
| 31/150 [11:37<45:54, 23.14s/it]
21%|
| 32/150 [12:00<45:41, 23.24s/it]
22%|
| 33/150 [12:22<44:37, 22.88s/it]
23%|
| 34/150 [12:46<44:27, 23.00s/it]
23%|
| 35/150 [13:08<43:34, 22.73s/it]
24%|
| 36/150 [13:30<42:54, 22.59s/it]
25%|
| 37/150 [13:52<42:12, 22.41s/it]
25%|
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30%|
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31%|
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60% I
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67%|
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69% l
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['8', 9.623915724593711], ['n', 9.375301332654855], ['6', 9.34403054526346],
['06', 9.185609572485001], ['2001', 9.093580595954776], ['tj',
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['02', 8.425146626275659], ['product', 8.34677229688642], ['minut',
8.297754097483873], ['class', 8.219874333034438], ['earth', 7.922444715375657],
['sent', 7.502661975596279], ['anim', 7.222926181940314], ['symm',
```

```
7.128234145368056], ['imai', 6.9445064074322485], ['august', 6.823131406158662],
['bodi', 6.758299454282765], ['fun', 6.732812547743768]]
jeremy.buss@enron.com
[['monk', 5.207195823593441], ['214', 4.578121648800002], ['2532',
3.6159912605275046], ['213', 2.9697317510344896], ['egm', 2.794962466802363],
['4', 2.731558214099792], ['3851', 2.53335102878444], ['h', 2.4867637639218225],
['timesheet', 2.451252312836943], ['962', 2.3859581829670953], ['5561',
2.3600642336444535], ['dalla', 2.260882284258272], ['30', 2.1095572213362406],
['2820', 2.0468734915206115], ['373', 2.0295333328252645], ['babi',
2.0096397776469446], ['3198', 1.998334487910372], ['kim', 1.9844544032213023],
['e', 1.9560327125511128], ['8268', 1.933877210584847], ['buss',
1.7527597976626004], ['unit', 1.6056994895097172], ['75225',
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['go', 1.4594465197918733], ['role', 1.4382007040228428], ['eb',
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['5', 1.2696327813622699], ['700', 1.266945073027334], ['6th',
1.2583473510236234], ['sap', 1.2430559615797245], ['7th', 1.228066105118747],
['prc', 1.2172246194097156], ['35614', 1.2108346381451414], ['speak',
1.1934577108801974], ['enjoy', 1.174597140179136], ['join', 1.1674610482063703],
['sit', 1.1625977082731878], ['msn', 1.1443883771947108], ['scoop',
1.13581136377685], ['hook', 1.1340234712480186], ['take', 1.130073574259057]]
nick.hiemstra@enron.com
[['20', 77.14988186970575], ['qb', 45.140005934374514], ['park',
42.82758872055099], ['spp', 41.10035285298926], ['lex', 41.074847912599104],
['vacat', 38.33380748000808], ['amir', 33.85500445078088], ['exot',
29.706298726107608], ['cow', 25.701439819846648], ['modul', 23.272554926188338],
['6711', 23.26110163032093], ['ercot', 22.27759706857159], ['hoskin',
21.95554809394982], ['delay', 20.047571900665496], ['competit',
18.86386012506958], ['6pm', 18.679984514896518], ['ahanchian',
17.396639179696873], ['99', 17.253484262085824], ['laptop', 17.13516476908007],
['shulklapp', 16.357367539773282], ['sjbc', 16.07409012132518], ['ymca',
15.751060792625163], ['vs', 15.583444181732284], ['elev', 15.50134318578439],
['jefco', 15.157171813976783], ['egsi', 14.926623837515706], ['commiss',
14.921841007593097], ['carrol', 14.725643565387612], ['icf',
14.721630785795954], ['rep', 14.702144647266131], ['card', 14.599449456395593],
['retail', 14.574759290819086], ['94', 14.358674747021022], ['ring',
14.282132595073596], ['flag', 14.134386910349079], ['saturn',
13.89005766557408], ['gossett', 13.859166084264796], ['serc',
13.064908398062299], ['neal', 13.00377923848982], ['allen', 12.79197847380011],
['5426attach', 12.727118234325566], ['non', 12.41403569285912], ['erici',
12.211383997998492], ['log', 12.183990031670183], ['30c', 11.744862463858839],
['folder', 11.701689745363522], ['elig', 11.66887691824736], ['midwest',
11.525022957672139], ['na', 11.467983399333045], ['winfre', 11.406470892405952]]
```

## 1.1.5 Storing the keyword cloud results and users used for part 2

A dataframe is created to represent each user as vector of features and words as vectors

```
[94]: seen2 = set()
      allWords = []
      LENGTH = len(Vectorize.values())
      for i in range(LENGTH):
          for j in range(len(list(Vectorize.values())[i])):
              if (list(Vectorize.values())[i][j][0]) not in seen2:
                  seen2.add(list(Vectorize.values())[i][j][0])
                  allWords.append(list(Vectorize.values())[i][j][0])
      WordTfs = []
      for i in range(LENGTH):
          WordTf={}
          for j in range(len(list(Vectorize.values())[i])):
              WordTf[list(Vectorize.values())[i][j][0]] = list(Vectorize.
       →values())[i][j][1]
          WordTfs.append(WordTf)
      UserVector = pd.DataFrame(data=WordTfs, index = Vectorize.keys(), columns = __
       →allWords).fillna(0) #any missing values are correctly set to 0
```

```
[96]: \begin{tabular}{l} \# \textit{UserVector.to\_json('UserIntermidiary.json')} \end{tabular}
```

The final intermidiary file was created and used repeatedly easily loop and find a fitting value of K for the K-means algorithm

```
[3]: UserVector = pd.read_json('UserIntermidiary.json')
```

```
[4]: UserVector
```

```
[4]:
                                                                         z \
                                     stwr
                                                ltsw
                                                            gmc
     heather.dunton@enron.com
                                           51.397207 51.358656 45.951852
                                60.317955
     louise.kitchen@enron.com
                                                       0.000000
                                 0.000000
                                            0.000000
                                                                  3.829321
     renee.ratcliff@enron.com
                                 0.000000
                                            0.000000
                                                       0.000000
                                                                  0.000000
                                 0.000000
     david.port@enron.com
                                            0.000000
                                                       0.000000
                                                                  3.829321
     james.bruce@enron.com
                                 0.000000
                                            0.000000
                                                       0.000000
                                                                  0.000000
```

```
0.000000
                                         0.000000
                                                    0.000000
garrett.tripp@enron.com
                                                              15.317284
d..baughman@enron.com
                             0.000000
                                         0.000000
                                                    0.000000
                                                               11.487963
andrew.kandolha@enron.com
                             0.000000
                                         0.000000
                                                    0.000000
                                                                0.000000
jeremy.buss@enron.com
                             0.000000
                                         0.000000
                                                    0.000000
                                                                0.000000
nick.hiemstra@enron.com
                                         0.000000
                                                    0.000000
                             0.000000
                                                                0.000000
                                 1861
                                                                          \
                                                         owa
                                                                    comw
heather.dunton@enron.com
                            44.619393
                                       44.514329
                                                   43.347865
                                                              41.972438
louise.kitchen@enron.com
                             1.394356
                                        12.718380
                                                    0.000000
                                                                1.353950
renee.ratcliff@enron.com
                             0.000000
                                         0.000000
                                                    0.000000
                                                                0.000000
david.port@enron.com
                                        16.957840
                                                    0.000000
                            44.619393
                                                                1.353950
james.bruce@enron.com
                             0.000000
                                         2.119730
                                                    0.000000
                                                                0.000000
                                         2.119730
                                                    0.000000
                                                              41.972438
garrett.tripp@enron.com
                            44.619393
d..baughman@enron.com
                             0.000000
                                         2.119730
                                                    0.000000
                                                                0.000000
andrew.kandolha@enron.com
                                         2.119730
                                                    0.000000
                             0.000000
                                                                0.000000
jeremy.buss@enron.com
                             0.000000
                                         0.000000
                                                    0.000000
                                                                0.000000
nick.hiemstra@enron.com
                             0.000000
                                         2.119730
                                                    0.000000
                                                                0.000000
                                 kate
                                             1100
                                                      rorschachher
heather.dunton@enron.com
                                        39.150206
                            40.738856
                                                          0.00000
louise.kitchen@enron.com
                                         1.223444
                                                          0.000000
                             2.089172
renee.ratcliff@enron.com
                             0.000000
                                         0.000000
                                                          0.00000
david.port@enron.com
                             1.044586
                                        39.150206
                                                          0.000000
james.bruce@enron.com
                             1.044586
                                         0.000000
                                                          0.00000
                                                          0.000000
garrett.tripp@enron.com
                             0.000000
                                        39.150206
d..baughman@enron.com
                             2.089172
                                         0.000000
                                                          0.000000
andrew.kandolha@enron.com
                             0.000000
                                         0.000000
                                                          0.000000
jeremy.buss@enron.com
                             0.000000
                                         0.000000
                                                          0.00000
nick.hiemstra@enron.com
                             0.000000
                                         0.000000
                                                          0.920808
                            newyorklif
                                        republicga
                                                     atmbroadband
                                                                    michael_beav
heather.dunton@enron.com
                              0.000000
                                           0.000000
                                                                        0.00000
                                                         0.000000
louise.kitchen@enron.com
                              0.000000
                                           0.000000
                                                         0.000000
                                                                        0.000000
renee.ratcliff@enron.com
                              0.000000
                                           0.000000
                                                         0.000000
                                                                        0.000000
david.port@enron.com
                              0.000000
                                           0.000000
                                                         0.000000
                                                                        0.000000
james.bruce@enron.com
                              0.000000
                                           0.000000
                                                         0.000000
                                                                        0.000000
garrett.tripp@enron.com
                              0.000000
                                           0.000000
                                                         0.00000
                                                                        0.000000
d..baughman@enron.com
                              0.000000
                                           0.000000
                                                         0.000000
                                                                        0.000000
andrew.kandolha@enron.com
                              0.000000
                                           0.000000
                                                         0.000000
                                                                        0.000000
jeremy.buss@enron.com
                                           0.000000
                                                         0.000000
                                                                        0.000000
                              0.000000
nick.hiemstra@enron.com
                              0.917789
                                           0.910378
                                                         0.902213
                                                                        0.902213
```

paternoimport kevin\_flack westwindlogist \

heather.dunton@enron.com	0.000000	0.000000	0.000000
louise.kitchen@enron.com	0.000000	0.000000	0.000000
renee.ratcliff@enron.com	0.000000	0.000000	0.000000
david.port@enron.com	0.000000	0.000000	0.000000
james.bruce@enron.com	0.000000	0.000000	0.000000
	•••	•••	•••
garrett.tripp@enron.com	0.000000	0.000000	0.000000
${\tt dbaughman@enron.com}$	0.000000	0.000000	0.000000
$\verb"andrew.kandolha@enron.com"$	0.000000	0.000000	0.000000
jeremy.buss@enron.com	0.000000	0.000000	0.000000
nick.hiemstra@enron.com	0.832812	0.827617	0.773325
	perriergroup	${\tt mmmarcantel}$	
heather.dunton@enron.com	0.000000	0.000000	
louise.kitchen@enron.com	0.000000	0.000000	
renee.ratcliff@enron.com	0.000000	0.000000	
david.port@enron.com	0.000000	0.000000	
james.bruce@enron.com	0.000000	0.000000	
	•••	•••	
garrett.tripp@enron.com	0.000000	0.000000	
dbaughman@enron.com	0.000000	0.000000	
andrew.kandolha@enron.com	0.000000	0.000000	
jeremy.buss@enron.com		0 000000	
	0.000000	0.000000	
nick.hiemstra@enron.com	0.000000	0.000000	

[150 rows x 101909 columns]

## 1.1.6 Clustoring

The K chosen are based on reapeated tests determining what each clustor percentage is and chosing the most appropriate result. The Dataframe was converted into a a vector of values and the cosine similarity function was used as a distance metric.

```
[20]: DataUV = UserVector.to_numpy()
print(DataUV)
```

```
[[60.31795459 51.39720715 51.35865639 ...
                                                             0.
   0.
              ]
[ 0.
                 0.
                               0.
                                              0.
                                                             0.
   0.
              ]
[ 0.
                               0.
                                           ... 0.
                 0.
                                                             0.
   0.
              ]
[ 0.
                               0.
                                               0.
                                                             0.
                 0.
              ]
   0.
[ 0.
                 0.
                               0.
                                               0.
                                                             0.
              ]
   0.
[ 0.
                 0.
                               0.
                                               0.77332509
                                                            0.76809278
```

## 0.72883169]]

Step 1: Select k random points from the data as centroids.

This is done by taking three values at random from list of values and setting the points as those values.

```
[22]: iniUserVect = random.sample(range(0, len(DataUV)), 3)
iniUserVect
```

```
[22]: [136, 59, 33]
```

```
[23]: centroidsUV = []
for i in iniUserVect:
          centroidsUV.append(DataUV[i])
centroidsUV = np.array(centroidsUV)
centroidsUV
len(centroidsUV)
```

## [23]: 3

Step 2: Assign all the points to the closest cluster centroid using cosine sim.

```
[24]: def findClosestCentroids(cent, data):
    closestCent = []
    for i in data:
        dist = []
        for j in cent:
            dist.append(cosSim(i,j))
        closestCent.append(np.argmin(dist))
    return closestCent
```

Step 3: Recompute the centroids of newly formed clusters.

```
newCent.append(clustMean)
return newCent
```

Step 4: Step 2 and 3 are repeated a number of times to ensure proper placements.

```
[26]: pbar3 = tqdm(total=200, position=0, leave=True)
     for i in range(200):
         getUVCent = findClosestCentroids(centroidsUV, DataUV)
         UVCent = calc_centroids(getUVCent, DataUV)
         pbar3.update(n=1) # Increments counter
     UVCent
     print(len(UVCent))
     print(UVCent)
     100%|
        | 200/200 [14:07<00:00, 4.24s/it]
     100%|
        | 200/200 [06:40<00:00, 1.98s/it]
     3
     ΓΟ
                1.884936
     1
               1.606163
     2
               1.604958
     3
               1.914661
     4
               1.437930
     101904
               0.000000
               0.000000
     101905
     101906
               0.000000
     101907
               0.000000
     101908
               0.000000
     Length: 101909, dtype: float64, 0 0.000000
     1
               0.000000
     2
               0.000000
     3
               1.515773
               0.145245
     101904
               0.017350
     101905
               0.017242
     101906
               0.016111
     101907
               0.016002
     101908
               0.015184
     Length: 101909, dtype: float64, 0 0.000000
     1
               0.033375
     2
                0.978260
     3
               16.301967
     4
               16.552998
```

```
101904
                 0.000000
     101905
                 0.000000
     101906
                 0.000000
     101907
                 0.000000
     101908
                 0.000000
     Length: 101909, dtype: float64]
[27]: print(getUVCent)
      len(getUVCent)
     [0, 2, 0, 2, 1, 1, 2, 1, 1, 2, 2, 1, 1, 2, 1, 0, 2, 0, 2, 2, 2, 1, 1, 2, 0, 2,
     1, 1, 1, 2, 2, 1, 1, 1, 1, 0, 1, 0, 0, 0, 1, 1, 0, 0, 2, 0, 1, 0, 0, 1, 0, 0,
     2, 0, 0, 2, 2, 2, 2, 2, 0, 1, 2, 1, 1, 2, 1, 1, 2, 2, 2, 2, 2, 2, 2, 1, 2, 2, 2,
     2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 1, 0, 2, 1, 1, 0, 2, 0, 2, 1, 0, 1, 1, 2, 1, 1, 1,
     2, 2, 2, 1, 0, 0, 1, 0, 0, 1, 1, 1, 0, 2, 2, 2, 2, 1, 2, 2, 2, 1, 2, 0, 2, 2, 2,
     2, 1, 2, 2, 2, 2, 2, 1, 2, 0, 1, 2, 2, 1, 0, 1]
[27]: 150
[28]: ClustorUV_df = pd.DataFrame({"Clustors": getUVCent}, index = UserVector.index)
     The following are the final user clusters with K=3
[29]: ClustorUV_df
[29]:
                                  Clustors
      heather.dunton@enron.com
                                         2
      louise.kitchen@enron.com
      renee.ratcliff@enron.com
                                         0
                                         2
      david.port@enron.com
      james.bruce@enron.com
                                         1
                                         2
      garrett.tripp@enron.com
      d..baughman@enron.com
                                         2
      andrew.kandolha@enron.com
                                         1
      jeremy.buss@enron.com
                                         0
      nick.hiemstra@enron.com
                                         1
      [150 rows x 1 columns]
     Transposing the dataframe to represent the users as vectors and the terms as features:
     The same algorithm was used and k=2 was chosen for this step.
[30]: UserFeature = UserVector.T
      UserFeature
```

heather.dunton@enron.com louise.kitchen@enron.com

0.00000

60.317955

[30]:

stwr

3.	E4 007007	0.000000
ltsw	51.397207	0.000000
gmc	51.358656	0.000000
Z	45.951852	3.829321
1861	44.619393	1.394356
•••	•••	<b></b>
paternoimport	0.000000	0.000000
kevin_flack	0.000000	0.00000
westwindlogist	0.000000	0.00000
perriergroup	0.000000	0.00000
mmmarcantel	0.000000	0.000000
mmmar carroor	0.00000	0.00000
	renee.ratcliff@enron.com	david.port@enron.com \
stwr	0.0	0.000000
ltsw	0.0	0.00000
gmc	0.0	0.00000
Z	0.0	3.829321
1861	0.0	44.619393
•••	***	•••
paternoimport	0.0	0.00000
kevin_flack	0.0	0.00000
westwindlogist	0.0	0.00000
perriergroup	0.0	0.00000
mmmarcantel	0.0	0.00000
	james.bruce@enron.com ka	thryn.sheppard@enron.com \
stwr	_	thryn.sheppard@enron.com \
stwr ltsw	0.0	0.0
ltsw	0.0	0.0
ltsw gmc	0.0 0.0 0.0	0.0 0.0 0.0
ltsw gmc z	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
ltsw gmc	0.0 0.0 0.0	0.0 0.0 0.0
ltsw gmc z 1861	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
ltsw gmc z 1861  paternoimport	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
<pre>ltsw gmc z 1861 paternoimport kevin_flack</pre>	0.0 0.0 0.0 0.0 0.0 	0.0 0.0 0.0 0.0 0.0 
<pre>ltsw gmc z 1861 paternoimport kevin_flack westwindlogist</pre>	0.0 0.0 0.0 0.0 0.0  0.0 0.0	0.0 0.0 0.0 0.0 0.0 
<pre>ltsw gmc z 1861 paternoimport kevin_flack</pre>	0.0 0.0 0.0 0.0 0.0 	0.0 0.0 0.0 0.0 0.0 
<pre>ltsw gmc z 1861 paternoimport kevin_flack westwindlogist</pre>	0.0 0.0 0.0 0.0 0.0  0.0 0.0	0.0 0.0 0.0 0.0 0.0 
<pre>ltsw gmc z 1861 paternoimport kevin_flack westwindlogist perriergroup</pre>	0.0 0.0 0.0 0.0 0.0  0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0  0.0 0.0 0.0
<pre>ltsw gmc z 1861 paternoimport kevin_flack westwindlogist perriergroup</pre>	0.0 0.0 0.0 0.0 0.0  0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0  0.0 0.0 0.0
<pre>ltsw gmc z 1861 paternoimport kevin_flack westwindlogist perriergroup</pre>	0.0 0.0 0.0 0.0 0.0  0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 
ltsw gmc z 1861  paternoimport kevin_flack westwindlogist perriergroup mmmarcantel	0.0 0.0 0.0 0.0 0.0  0.0 0.0	0.0 0.0 0.0 0.0 0.0  0.0 0.0 0.0 0.0
ltsw gmc z 1861 paternoimport kevin_flack westwindlogist perriergroup mmmarcantel stwr ltsw	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0  0.0 0.0
ltsw gmc z 1861 paternoimport kevin_flack westwindlogist perriergroup mmmarcantel  stwr ltsw gmc	0.0 0.0 0.0 0.0 0.0  0.0 0.0	0.0 0.0 0.0 0.0 0.0  0.0 0.0
ltsw gmc z 1861 paternoimport kevin_flack westwindlogist perriergroup mmmarcantel  stwr ltsw gmc z	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
ltsw gmc z 1861 paternoimport kevin_flack westwindlogist perriergroup mmmarcantel  stwr ltsw gmc z 1861	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
ltsw gmc z 1861 paternoimport kevin_flack westwindlogist perriergroup mmmarcantel  stwr ltsw gmc z 1861	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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      [101909 rows x 150 columns]
[38]: DataUF = UserFeature.to_numpy()
      iniUserFeat = random.sample(range(0, len(DataUF)), 2)
      iniUserFeat
[38]: [61685, 13487]
[39]: centroidsUF = []
      for i in iniUserFeat:
          centroidsUF.append(DataUF[i])
      centroidsUF = np.array(centroidsUF)
      centroidsUF
```

```
len(centroidsUF)
[39]: 2
[40]: pbar4 = tqdm(total=200, position=0, leave=True)
     for i in range(200):
        getUFCent = findClosestCentroids(centroidsUF, DataUF)
        UFCent = calc_centroids(getUFCent, DataUF)
        pbar4.update(n=1) # Increments counter
     UFCent
     print(len(UFCent))
     print(UFCent)
    100%|
      | 200/200 [57:26<00:00, 17.23s/it]
    100%|
      | 200/200 [34:03<00:00, 7.42s/it]
    2
    [0
           0.135992
    1
          0.981397
    2
          0.006258
    3
          0.230150
          0.057840
    145
          0.132954
    146
          0.293791
    147
          0.025146
    148
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    149
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    Length: 150, dtype: float64, 0 0.033413
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    146
          0.077363
          0.004798
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    148
          0.000281
    149
          0.010380
    Length: 150, dtype: float64]
[41]: print(getUFCent)
    len(getUFCent)
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0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
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1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 0, 1, 1, 0, 1,
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1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 0,
1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1,
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0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[41]: 101909
ClustorUF df = pd.DataFrame({"Clustors": getUFCent}, index = UserFeature.index)
ClustorUF_df
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[43]:
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stwr
   0
ltsw
   0
   0
gmc
z
   0
1861
   0
   0
paternoimport
kevin flack
   0
westwindlogist
   0
perriergroup
   0
mmmarcantel
```

## [101909 rows x 1 columns]

Exporting clustors to be used for part 2:

```
[44]: ClustorUF_df.to_json('WordClustor.json')

[45]: ClustorUV_df.to_json('userClustor.json')
```