

Part 1:

all the programs that will be uploaded are from a collaborated work from Kevin Clemmons and Gabriel Marquez

I chose <http://feeds.soundcloud.com/users/soundcloud:users:13178752/sounds.rss> and created four different categories which were: Movie, Directors, Entertainment, and Actors.

Part 2:

Training the fisher classifier:

This program helped in assigning each feed a category, the program read through all the categories, then it displayed the description in the entry and prompted me for a number linking to the category. After I saved it under the name 0.txt

```
atria:~/cs432/Assign9/src/make_training_data> python makeTrainingData.py
(0: 'Artist\r', 1: 'Movie\r', 2: 'Music\r', 3: 'Actors\r', 4: 'Entertainment')
Entry: http://feeds.soundcloud.com/stream/38901614-empiremagazine-empire-podcast-1
| For our inaugural episode, Paddy Considine visited for a chat about Tyrannosaur,
omethus, and we reviewed this week's releases

-----Stats-----
Classified 0 of 104 entries (0 %)
-----Categories-----
(0) Artist
(1) Movie
(2) Music
(3) Actors
(4) Entertainment
(-1) Exit
-----Choose a Category-----
> ^\Quit (core dumped)
atria:~/cs432/Assign9/src/make_training_data> python makeTrainingData.py
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(-1) Exit
-----Choose a Category-----
> ^[[A/
Traceback (most recent call last):
  File "makeTrainingData.py", line 107, in <module>
    createTrainingData(feedFileName,categoryList)
  File "makeTrainingData.py", line 69, in createTrainingData
    result = promptForCategory(e,categoryList,numClassified,size)
  File "makeTrainingData.py", line 41, in promptForCategory
    category = input("> ")
  File "<string>", line 1
    ^
SyntaxError: invalid syntax
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(-1) Exit
-----Choose a Category-----
```

After training the fisher classified, I used a program classifyFeed.py to look through the entries.

Title	Actual Category	Predicted Category	Fisher Price
#31: September 28, 2012 - Taken 2, Liberal Arts, David Thomson	Entertainment	Movie	0.84
#32: October 12, 2012 - Nicolas Winding Refn, Richard Coyle, Ruby Sparks, Pusher	Directors	Actors	0.35
#33: Oct 19, 2012 - Martin Short, Catherine O'Hara, Katie Featherston	Actors	Actors	0.61
#34: Oct 26, 2012 - Skyfall, Halloween, Jeffrey Combs	Entertainment	Movie	0.25
Skyfall Spoiler Podcast	Directors	Movie	0.41
Sir Roger Moore Special	Directors	Entertainment	0.55
#35: Nov 2, 2012 - Star Wars VII, Matt Smith, Jason Biggs, Argo	Actors	Movie	0.15
Bryan Cranston Breaking Bad Spoiler Special	Movie	Actors	0.81
Skyfall Writers Spoiler Podcast - Neal Purvis And Robert Wade	Actors	Entertainment	0.88
#36: Nov 9, 2012 - Mark Millar, Skyfall Writers, World War Z	Actors	Entertainment	0.18
#37: Nov 16, 2012 - Graham Linehan, Amour, The Master, Breaking Dawn Part 2	Movie	Movie	0.32
#38: Nov 23, 2012 - End Of Watch, Silver Linings Playbook, Frank Spotnitz	Movie	Movie	0.14
#39: Nov 30, 2012 - Jake Gyllenhaal, Ben Wheatley, Stephen Woolley	Actors	Actors	0.63
#40: Dec 7, 2012 - Sam Rockwell, Martin McDonagh, Warp Films	Actors	Actors	0.53
Eric Idle Special	Directors	Entertainment	0.83
#41: Dec 14, 2012 - Andy Serkis, Martin Freeman, Richard Armitage	Actors	Actors	0.87
Hobbit Spoiler Podcast #1 - Philippa Boyens	Movie	Directors	0.44
#42: Dec 21, 2012 - Christopher McQuarrie, Colin Trevorrow, Juan Antonio Bayona	Directors	Directors	0.74
Hobbit Spoiler Podcast #2	Movie	Movie	0.69
Empire Podcast Review Of The Year 2012	Entertainment	Movie	0.38
#43: Jan 11, 2013 - Tom Hooper, Toby Jones	Entertainment	Directors	0.72
#44: Jan 18, 2013 - Kathryn Bigelow, James Purefoy	Movie	Directors	0.37
#45: Jan 25, 2013 - Arnold Schwarzenegger, Mark Strong	Actors	Movie	0.41
Denzel Washington And Robert Zemeckis Flight Special	Actors	Actors	0.62
#46: Feb 1, 2013 - Denzel Washington, Robert Zemeckis, Rafe Spall	Actors	Entertainment	0.76
#47: Feb 8, 2013 - John C. Reilly, Nicholas Hoult	Entertainment	Movie	0.23
#48: Feb 15, 2013 - Jai Courtney, David Morrissey, David Oyelowo	Actors	Actors	0.44
#49: Feb 22, 2013 - Naomie Harris, Olga Kurylenko	Actors	Movie	0.64
Oscars 2013 Special	Directors	Entertainment	0.73
#50: Mar 1, 2013 - Mark Wahlberg, Paul Andrew Williams	Actors	Actors	0.86
#51: Sam Raimi, Zach Braff, Tim Roth - Mar 8, 2013	Actors	Entertainment	0.64
#52: Eli Roth, Mark Strong, Eran Creevy - Mar 15, 2013	Entertainment	Actors	0.22
Warwick Davis Special	Directors	Actors	0.71
#53: Ryan Reynolds, Jason Bateman, Melissa McCarthy - Mar 22, 2013	Actors	Movie	0.48
Danny Boyle Special	Actors	Entertainment	0.64
#54: Danny Boyle, Jonathan Pryce, David Holmes - Mar 29, 2013	Actors	Entertainment	0.83
#55: Rufus Sewell, Harmony Korine - Apr 5, 2013	Directors	Directors	0.45
John Boorman Special	Entertainment	Directors	0.64
#56: Aaron Eckhart, Sylvester McCoy - Apr 12, 2013	Entertainment	Actors	0.83
#57: Evil Dead, Olympus Has Fallen, Mathieu Kassovitz - Apr 19 2013	Movie	Actors	0.69
#58: Iron Man 3, Steve Coogan, Don Cheadle - Apr 26 2013	Actors	Entertainment	0.37
Iron Man 3 Spoiler Podcast - Shane Black And Drew Pearce	Actors	Directors	0.74
#59: David S. Goyer, Rian Johnson - May 3, 2013	Directors	Actors	0.76
#60: Star Trek Into Darkness, Damon Lindelof, Jeff Nichols - May 10, 2013	Actors	Movie	0.39
Star Trek Into Darkness Spoiler Special #1	Movie	Movie	0.74
British Board Of Film Classification Ratings Special	Entertainment	Movie	0.39
#61: Carey Mulligan, Tobey Maguire, Jeffrey Tambor - May 17, 2013	Actors	Entertainment	0.36
Star Trek Into Darkness Spoiler Special #2 - Damon Lindelof, Bryan Burk, Roberto Orci, Alex Kurtzman	Movie	Entertainment	0.46
#62: Alec Baldwin, Nicolas Winding Refn, Kristen Scott Thomas - May 24, 2013	Actors	Entertainment	0.88
#63: M. Night Shyamalan, Saoirse Ronan - May 31, 2013	Directors	Entertainment	0.51

Part 3:

Precision = Relevant links (obtained)/ Relevant Links

Recall = Relevant links (obtained)/ Relevant Links (Total)

Relevant Links Total = Relevant links (obtained) + Relevant Links in whole set

Obtained from Gabriel Marquez

```

1  import argparse
2
3  if __name__ == '__main__':
4      parser = argparse.ArgumentParser()
5
6      total_count = 100
7      sample_size = 50
8
9
10     parser.add_argument('-p',action='store',dest='predictions',nargs=1,help='Specified the number of blogs
11     parser.add_argument('-c',action='store',dest='category',nargs=1,help='File to save to list.')
12
13     args = parser.parse_args()
14     if args.predictions:
15         predictions = str(args.predictions[0])
16     if args.category:
17         category = str(args.category[0])
18
19
20
21     with open(predictions , "r") as ins1:
22         arrayInput = []
23         for line in ins1:
24             arrayInput.append(line)
25
26     with open(category , "r") as ins2:
27         arrayTopic = []
28         for line in ins2:
29             arrayTopic.append(line)
30
31     #print arrayInput[1]
32     #print arrayTopic[1]
33
34
35     #while i < len(arrayInput):
36     #    print arrayInput[i]
37     #    i = i + 1
38     #print len(arrayInput)
39
40     #while j < len(arrayTopic):
41     #    print arrayTopic[j]
42     #    j = j + 1
43     #print len(arrayTopic)
44
45     #Calculate Precision
46
47     i = 0
48
49     while i < len(arrayTopic):
50
51
52         j = 0
53         nprediction = len(arrayInput)
54         pcorrect = 0
55         pcorrect = float(pcorrect)
56         precision = 0
57         precision = float(precision)
58         recall = 0
59         recall = float(recall)

```

	Actors	Movie	Entertainment	Directors
nPrediction	49	49	49	49
fPrecision	0	0	0	0
nCategory	3	6	2	0
fMeasure	0.084	0.156	0	0
correct	0	2	5	0
recall	0.741	0.562	0	0