1. Choose a blog or a newsfeed (or something similar with an Atomor RSS feed). It should be on a topic or topics of which you are qualified to provide classification training data. Find somethingwith at least 100 entries.

Create between four and eight different categories for the entries in the feed: examples:

work, class, family, news, deals liberal, conservative, moderate, libertarian sports, local, financial, national, international, entertainment metal, electronic, ambient, folk, hip-hop, pop

Download and process the pages of the feed as per the week 12 class slides.

1A. Had difficulty finding a rss feed as I am not an avid rss/atom reader. The best feed I could find was the Reddit Subreddit XML feeds that have plenty of content.

I chose to utilize the subreddit /r/funny. I have been an avid reddit and imgur user for very longer. I've noticed a pattern in the content so much so that a majority of it can be predicted from the title and categorized:

- meme any sort of captioned text with an iconic picture.
- gif animated content, can be real or edited content
- animal anything related to animals can span media categories
- original undoctored pictures taken of content excluding animals
- edited doctored content by photo editing software excluding animals
- media content from tv, magazine, media, movies
- monty python it's a noteworthy category

2. Manually classify the first 50 entries, and then classify (using the fisher classifier) the remaining 50 entries. Report the cprob()values for the 50 titles as well. From the title or entry itself, specify the 1-, 2-, or 3-gram that you used for the string toclassify. Do not repeat strings; you will have 50 unique strings. For example, in these titles the string used is marked with \*s:

Create a table with the title, the string used for classification,cprob(), predicted category, and actual category.

2a. A table was created utilizing manually classification. Given this title, hopefully a trained model would be able to predict the content of the web. Commonly people utilize similar tags, titles, and nomenclatures when sharing content with a broad dataset in a short frame of time.

Here is Data[0], it is recognized as an animal gif of a sloth hilariously eating. I manually train the model that the title is indicative of an animal picture. The following was preformed for data 0-49. The subsequent 50-99 was then predicted by the model. Training the data:

cl.train(lines[0], 'animal')

Fig 1a. Data 0



Fig 1b. Data 50



Title: "Hungry... But opening mouth is too much work."

Link:

http://www.reddit.com/r/funny/comments/1squt0/hungry\_but\_opening\_mouth\_is\_too\_much\_work

The model had difficulty discerning from the initial training pattern good options. The model trained itself that the majority of pictures would be 'original' or 'animal' pictures which was generally not the case. Wishfully with the title "Macaulay Culkin... woof!", the model should classify it as animal. Given more data this may become the case.

## See figure 2: for results

3. Assess the performance of your classifier in each of your categories by computing precision and recall. Note that the definitions are slightly different in the context of classification; see:

http://en.wikipedia.org/wiki/Precision\_and\_recall#Definition\_.28classification\_context.29

Here is the analysis of the information from figure 2.

Prediction accuracy is the accuracy based off its prediction of that category vs the actual

Figure 3

0			
Category	predicted	actual	Prediction Accuracy
			•
meme	4	9	25.00%
gif	0	6	0.00%
animal	27	3	7.41%
original	17	16	35.29%
edited	1	8	0.00%
media	1	7	0.00%
monty_python	0	1	0.00%

num	title	cprob()	predicted category	actual category
	Macaulay Culkin			
	50 woof!	0	animal	gif
	How would you not			
	51 know?!	0	animal	media
	Does this make anyone			
	else happy? [GRUMPY			
	52 CAT]	0	animal	meme
	They see me bowling	0	animal	gif
	54 Grammar Matters		original	edited
	We did it. We made the			
	yahoo homepage	_		
	55 again.	0	animal	media
	56 Pretty much sums it up	0	animal	media
	57 Superb!	0	animal	animal
	58 30,000 Feet	0	original	edited
	59 This kid is going places	0	edited	original
	That guy with the			
	iPhone cookies in his			
	car seems to have			
	gotten a ticket	0	original	original
	A girl posted this to			
	instagram titled			
	'Breakfast Bear'. I didn't			
	have the heart to tell			
	61 her who it resembled.	0	original	original
	They sure are	0	original	meme
	That awkward moment			
	when you take fashion			
	advice from the public			
	63 trains	0	animal	original
	Death's list	0	original	edited
	Got this in the mail.	0	animal	meme
	66 Magic	0	original	meme
	67 Can I get you anything?	0	animal	meme
	68 Seems legit	0	animal	original
	lets talk about your			
	69 future	0	animal	meme
	70 Santacat and I	0	original	meme
	What's the ONE thing			
	you want more than			
	71 anything?	0	meme	edited
	First day of school,			
	72 1984.	0	animal	
	73 fuuu	0	original	media
	74 The Messiah's car	0	animal	edited
	Hey girl, feel my			
	75 sweater	0	media	meme
	76 Nice Day For A Cruise	0	animal	
	77 Ooooh Snap!	0	animal	
	78 Classic Futurama	0	original	media
	Eric, what did I say			
	79 about calling your	0	original	media

	sister the Devil?			
	New coworker has			
	this on her desk. She			
80	know's what's up!	0	animal	original
	And I will love it and			
81	squeeze it and hug it.	0	animal	original
	Why women make men			
82	productive [fixed]	0	meme	meme
	This Geese Tsunami is			
83	a shit storm	0	original	gif
	I was using a		J	
	calculator app on my			
	iPhone when I			
	remembered the			
	"8008135"			
	Upside-Down thing			
	people use to do in			
	school. I tried it and this			
84	happened. Mind Blown	0	animal	edited
85	Grumpy cat-doge	0	animal	edited
86	Can you cook?	0	animal	gif
87	Dog Sneeze	0	animal	animal
88	Mad Cat!	0	original	animal
	Seriously, I can't be the		_	
89	only one seeing this.	0	animal	media
	Every Lesbian Porno			
90	Ever	0	original	gif
	When my friend went			
	to the 22 concert in			
	Nashville fans kept			
	coming up to her			
	thinking she was			
91	actually Taylor Swift	0	original	original
	Follow Up To The			
92	iPhone Cookies	0	original	original
	I am not sure if she has			
	read the back of the			
93	shirt	0	meme	original
	This Just happened			
	faith in humanity			
94	restored!!	0	original	original
	I was quite photogenic			
95	as a child.	0	meme	original
	This preschool lets			
	their kids wrestle just	_		
96	follow a few rules.	0	original	original
	I found these in my			
	grandpa's house, can't	_		
97	really figure it out.	0	animal	original
	Apparently my math			
	teacher's having			
98	women problems.	0	edited	real
99	Time to walk funny.	0	animal	monty_python
	Wall off to an early	_		
100	lead	0	animal	original