

```
34 def getNextUri():
35     uri = "http://www.blogger.com/next-blog?navBar=true&blogID=5575603170524745026"
36
```

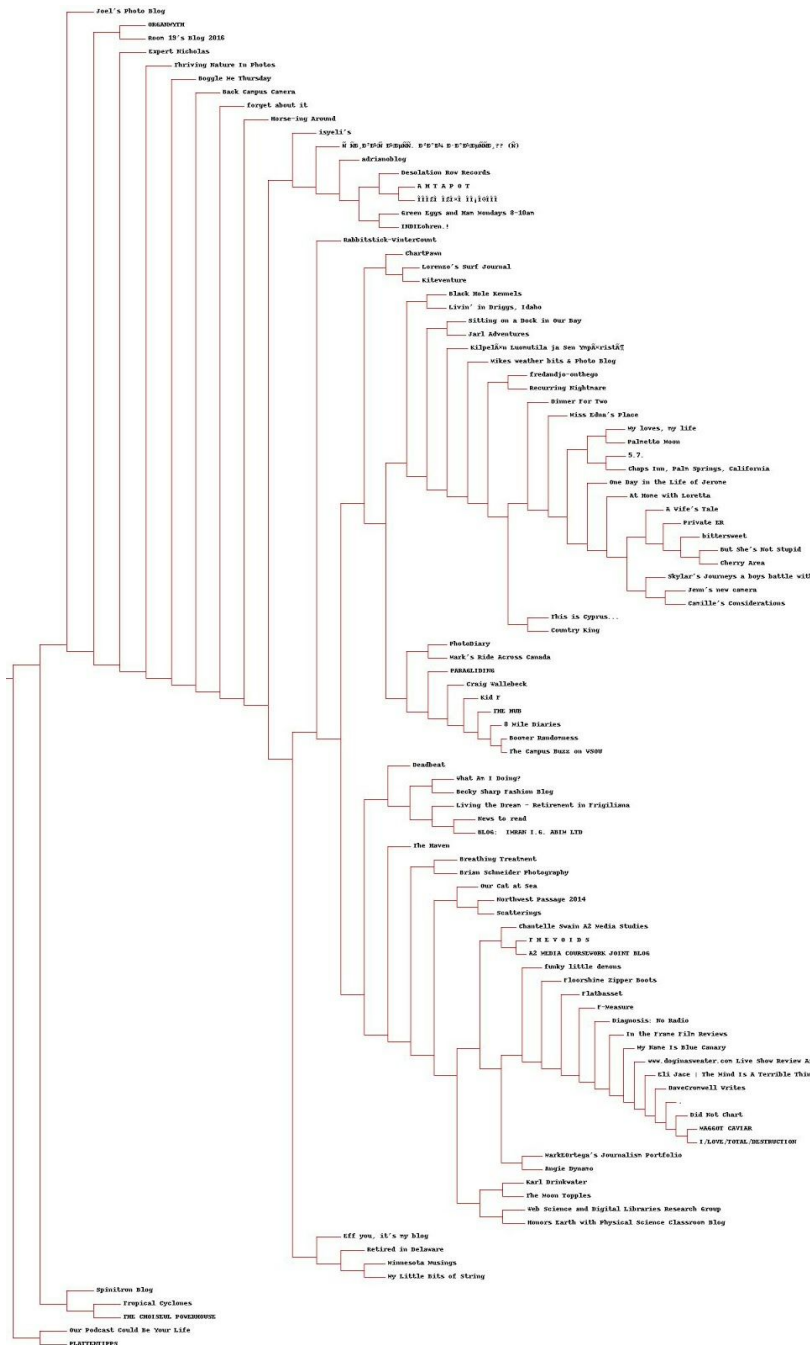
I then used the linux command `-u filename` to sort the list and get rid of duplicate URIs.

```
83 http://mylittletibetsofstring.blogspot.com/feeds/posts/default?max-results=1000
84 http://my-name-is-blue-canary.blogspot.com/feeds/posts/default?max-results=1000
85 http://ngaiol619.blogspot.com/feeds/posts/default?max-results=1000
86 http://noradiorecs.blogspot.com/feeds/posts/default?max-results=1000
87 http://northwestpassage2014.blogspot.com/feeds/posts/default?max-results=1000
88 http://organmyth.blogspot.com/feeds/posts/default?max-results=1000
89 http://ourcatatsea.blogspot.com/feeds/posts/default?max-results=1000
90 http://ourpodcastcouldbeyourlife.blogspot.com/feeds/posts/default?max-results=1000
91 http://out-of-the-swamp.blogspot.com/feeds/posts/default?max-results=1000
92 http://owling9michinoku.blogspot.com/feeds/posts/default?max-results=1000
93 http://palmetto-moon.blogspot.com/feeds/posts/default?max-results=1000
94 http://pavasorujubilado.blogspot.com/feeds/posts/default?max-results=1000
95 http://photodiarydps.blogspot.com/feeds/posts/default?max-results=1000
96 http://plattentipps.blogspot.com/feeds/posts/default?max-results=1000
97 http://punkndeanna.blogspot.com/feeds/posts/default?max-results=1000
98 http://rabbitstick-wintercountblog.blogspot.com/feeds/posts/default?max-results=1000
99 http://retiredin Delaware.blogspot.com/feeds/posts/default?max-results=1000
100 http://richardwhitten.blogspot.com/feeds/posts/default?max-results=1000
```

I then ended up with 143 URIs. I tried completing the whole assignment with 143 blogs locations but found it overloaded the generatefeedvector.py program. I chopped my list down to 100 and that cleared all my issues. (I relocated your two blogs to the top of the URL list to make them easier to find.)I was then able to generate all the proper data with generatefeedvector.py which outputted to blogdata.txt.

	departure	height	generation	success	threat	script	convinced	cleaned	seasons	font	dump	arm														
	finds	rip	rid	analysis	intense	wished	wishes	notes	leader	noted	metro	engine	apple													
	apply	proof	panic	bye	crash	practice	remove	accent	agency	centre	thousands	generations														
	closer	genius	closed	pants	safely	bbc	ski	branch	simply	junk	fell	percent	gap													
2	Flatbasset	0	3	0	0	0	4	3	7	0	16	3	2	1	1	1	4	4	0	0	1	5	0	7		
	1	38	1	4	6	2	4	10	2	2	2	0	0	2	3	2	3	0	0	6	6	1	1	41	0	5
	1	5	1	2	4	2	2	0	0	1	10	3	0	0	9	8	0	1	1	4	20	3	1	1	1	2
	1	5	4	0	0	0	3	48	10	3	1	3	0	0	1	8	2	0	1	0	1	1	0	1	15	22
	6	1	0	4	4	2	154	0	5	1	2	48	4	1	3	0	7	3	1	10	12	0	4	4	0	1
	0	5	6	2	1	9	8	0	9	3	0	1	326	7	1	0	1	0	2	1	4	1	2	0	2	0
	8	15	0	2	2	0	44	0	0	0	2	6	0	0	32	2	5	3	3	3	4	8	1	1	3	2

I used the script `makeDendrogram.py` which I ran with my `blogdata.txt` from q1. It took me a while to figure out how to get clusters to run properly. I found that putting the `clusters.py` inside all my folder that call it fixed the issues. I found this question to be difficult my first time around because my text file was formatted incorrectly due to 143 different blogs. After cutting down the list I was able to produce a working graph.



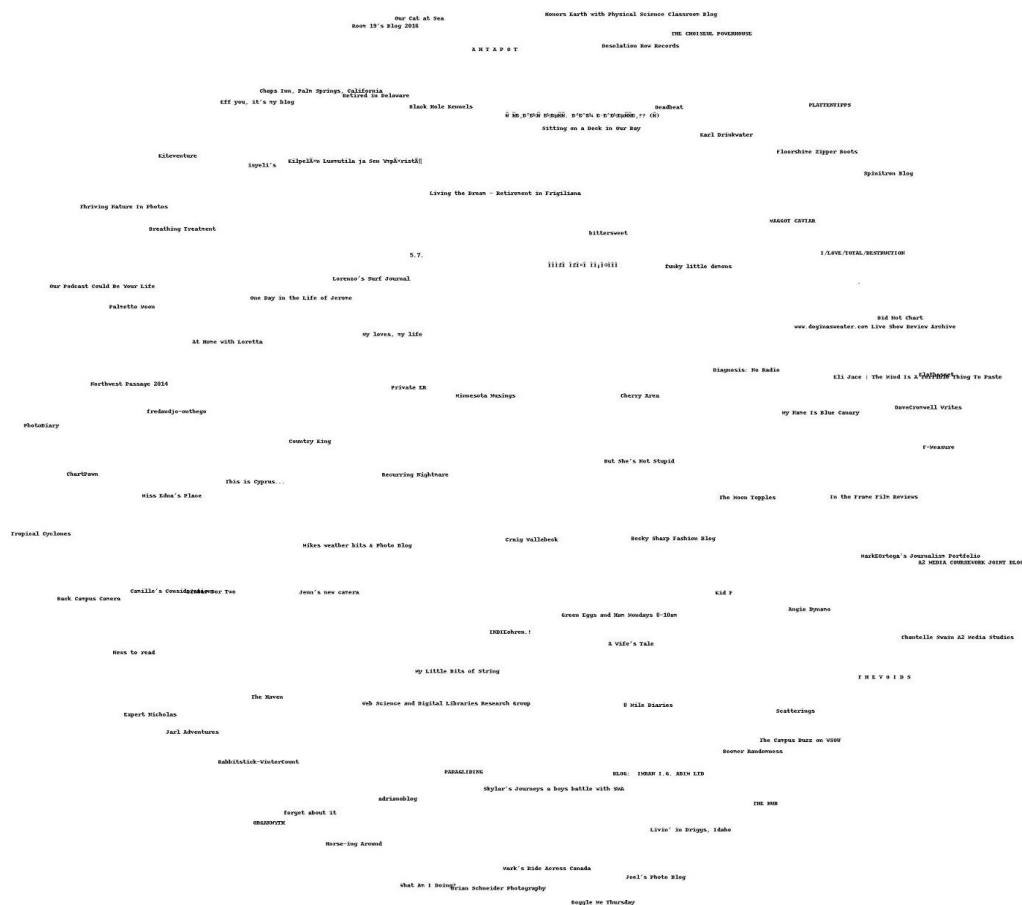
3) Cluster the blogs using K-Means, using $k=5,10,20$.

I made a separate folder for each question however in hindsight it would have been much easier to keep it all the files and data in the same folder, mainly because of clusters.py. I performed question three by running the script iterator.py. It produced $k=5$ got 4 iterations, $K=10$ we get 5 iterations, and $K=20$ I got 5 iterations.

```
1 For k=5
2 Iteration 0
3 Iteration 1
4 Iteration 2
5 Iteration 3
6
7 For k=10
8 Iteration 0
9 Iteration 1
10 Iteration 2
11 Iteration 3
12 Iteration 4
13
14 For k=20
15 Iteration 0
16 Iteration 1
17 Iteration 2
18 Iteration 3
19 Iteration 4
20
21
```

I created the blog space graph using multidimensional scaling (MDS) and the script MDS.py. The book offered a lot of clues as to how to approach this question. I was able to create a nice graph that was readable. To make the graph it required iter = 88.

```
84 3238.20382786
85 3238.10475451
86 3238.06429573
87 3238.01356246
88 3238.002912061
```



P.S. Some of my data is labeled incorrectly because I had to put it in 4 different folders and renamed it just about every time. I attempted the extra credit but was unable to produce a working graph.