#### Question 1:

1. Download the 1000 URIs from assignment #2. .. using curl .. and then use something like lynx

Using PyCurl and Mozilla bleach to convert raw html to UTF-8 text.

#### Part 1:

urldump/ is a collection of all the files from "final\_uri\_list.txt" curled, and piped into a file. The file naming scheme is "rawHTML" + the line the URI occurs on the list and ".data"

```
🥝 🖨 □ ~/code/cs595/assignment3/cleanURL/q1.py (assignment3) - Sublime Text 2 (∪
                       final_uri_lis × clean.rawH × topten.txt × clean.ql.p) • ql.py ×
     clean.rawHtml
     clean.rawHtml
     clean.rawHtml
                                      pycurl
StringIO
     clean.rawHtm
                             import bleach
     clean rawHtml
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  Aa "" 🗗 🗅 gothamm
```

### Part 2:

```
🔊 🖨 🍙     -/code/cs595/assignment3/q1/cleanURL.sh • (assignment3) - Sublime Text 2 (UNREGISTERED)
       clean.rawHtml
                                           × clean.rawHtml300.data × topten.txt
                                                                                              × ql.py
                                                                                                                            cleanURL.sh
                         final uri list.txt
       clean.rawHtml
       clean.rawHtml
       clean.rawHtml
      clean.rawHtml
       clean.rawHtml
      clean.rawHtml
       clean.rawHtml
       clean.rawHtml
 .* Aa "" 🗗 🔁 🗀 gothamm
git branch: stanzheng, index: 2386+ 3?, working: 1≠ 1223× 3?, INSERT MODE, Line 5, Column 20
```

Using lynx and a shell script, remove some of the html text. After cleaned each URL was preappended with "clean." and saved to cleanURL/.

### Question 2:

2. Choose a query term (e.g., "shadow") that is not a stop words (see week 4 slides) and not HTML markup from step 1 (e.g., "http") that matches at least 10 documents (hint: use "grep" on the processed files). If the term is present in more than 10 documents, choose any 10 from your list. (If you do not end up with a list of 10 URIs, you've done something wrong).

Chosen Query term: "learning": many of the search queries are for various popular programming languages and frameworks that people use.

Code:

./find\_term\_program.sh > results.txt
head -11 results.txt > topten\_results.txt

Size of Bing = 2.3 Billion Number of hits for Learning = 230,000,000 results

TFIDF = TF × IDF

IF = total hits / total number of words

IDF =log2(total docs in corpus / docs with term)

IF-IDF	IF	IDF	URI
.00126	9/77430	10.83	http://www.amazon.com/Pyt hon-Cookbook-David-Beazle y/dp/1449340377
.00051	7/148193	10.83	http://hackaday.com/2013/09 /23/guest-rant-ham-radio-ha ckers-paradise/
.00239	7/31659	10.83	http://code.org/
.00015	7/51655	10.83	http://www.wired.com/opini on/2013/09/ap_code/
.00342	7/22118	10.83	http://www.vaporcouture.co m
.00113	6/57314	10.83	http://www.ijava2.com/pytho n-codingbat-answers-string- 2-doublechar/
.00662	5/8176	10.83	http://www.brightsurf.com/n ews/headlines/89384/Late_C retaceous_Period_was_likel y_ice-free.html
.00279	5/19348	10.83	https://managewp.com/word press-women-in-tech?utm_s ource=feedburner&utm_medi um=feed&utm_campaign=Fe ed%3A+managewp+%28Ma nageWP+Blog%29
.00999	5/19172	10.83	http://dailymothering.com/lear ning-resources-jumbo-magni fiers-review-giveaway/

# Question 3

PageRank	URI
.8	http://www.amazon.com
.6	http://hackaday.com
.4	http://code.org/
.8	http://www.wired.com/
.3	http://www.vaporcouture.com
.1	http://www.ijava2.com
.5	http://www.brightsurf.com
.6	https://managewp.com/
.3	http://dailymothering.com

## Question 4

Used this calculator to find out that I have a -.377168 Kendall Tau B Relationship. This shows there is negative correlation which means there is some likelyhood these indicators do not correlate with each other.

## http://calculator-fx.com/calculator/statistics/kendall-tau-correlation

IFIDF	PageRank	URI
.00126	.8	http://www.amazon.com
.00051	.6	http://hackaday.com
.00239	.4	http://code.org/
.00015	.8	http://www.wired.com/
.00342	.3	http://www.vaporcouture.com
.00113	.1	http://www.ijava2.com
.00662	.5	http://www.brightsurf.com
.00279	.6	https://managewp.com/
.00999	.3	http://dailymothering.com



