

# OLD DOMINION UNIVERSITY

CS 495: INTRODUCTION TO WEB SCIENCE  
INSTRUCTOR: MICHAEL L. NELSON, PH.D  
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Assignment # 2

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Signed \_\_\_\_\_

September 25, 2014

George C. Micros

## Written Assignment 2

Fall 2014

CS 495: Introduction to Web Science

Dr. Michael Nelson

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# Chapter 1

## Written Assignment 2

## 1.1 Question 1

### 1.1.1 The Question

Write a Python program that extracts 1000 unique links from Twitter. You might want to take a look at:  
<http://thomassileo.com/blog/2013/01/25/using-twitter-rest-api-v1-dot-1-with-python/>

But there are many other similar resources available on the web. Note that only Twitter API 1.1 is currently available; version 1 code will no longer work. Also note that you need to verify that the final target URI (i.e., the one that responds with a 200) is unique. You could have different shortened URIs for [www.cnn.com](http://www.cnn.com). For example,

```
http://cnn.it/1cTNZ3V
http://t.co/BiYdsGotTd
```

Both ultimately redirect to [cnn.com](http://www.cnn.com), so they count as only 1 unique URI. Also note the second URI redirects twice – don't stop at the first redirect. You might want to use the search feature to find URIs, or you can pull them from the feed of someone famous (e.g., Tim O'Reilly).

Hold on to this collection – we'll use it later throughout the semester.

### 1.1.2 The Answer

The initial portion of this assignment required a Twitter account and access to the Twitter API access token. The process of gaining access to Twitter programmatically was achieved by using the authorization function given this link.

<http://thomassileo.com/blog/2013/01/25/using-twitter-rest-api-v1-dot-1-with-python/>

The Twitter API provides a variety of ways to access Tweets. Rather than attempt queries of keywords in an attempt to discover usable links I decided to access a user timeline, namely Tim O'Reilly's timeline. The Twitter API limits based on the type of query attempted. In this case no more than approximately 200 tweets could be extracted per request. In order to extract more tweets the ID of the last tweet was used in subsequent request. The `max_id` query retrieves tweets before and up to the specified tweet ID. This process was repeated until 1000 unique URLs were extracted.

Aside from the authorization functions the following code contains a function that performs a request. The request sends all the batch of tweets in a JSON formatted file with all contents of the tweets labeled. The JSON object is traversed to determine if there are URL entities and extracts them.

Once the URLs are extracted then must be validated. A request is made to the URL. The redirected URL is extracted and all links that return a 200 response code are stored. The list of URLs is stored in a set to remove redundant links. Finally the collection of 1000 unique URLs was stored in a file for the following portion of the assignment.

```
1 #!/usr/bin/python
2
3 # -*- encoding: utf-8 -*-
4 from __future__ import unicode_literals
5 import requests
6 from requests_oauthlib import OAuth1
7 from urlparse import parse_qs
8 from pprint import pprint
9 import urllib2
10 import httplib2
11
12 REQUEST_TOKEN_URL = "https://api.twitter.com/oauth/request_token"
13 AUTHORIZE_URL = "https://api.twitter.com/oauth/authorize?oauth_token="
14 ACCESS_TOKEN_URL = "https://api.twitter.com/oauth/access_token"
15 CONSUMER_KEY = "fZJV8Ab0SPvE3RbELyok0vjfa"
16 CONSUMER_SECRET = "HmjPCwt5ysI51pYtCGbmQKJU5IqUtIqI8sL2fGpvKhMIYFHaq6"
17 OAUTH_TOKEN = "2822206502-dN9QiytM0BKSRrirhmzGYHLcGypaGMOa9X3vZvv"
```

```

18 OAUTH_TOKEN_SECRET = "cR0B9TgqWaKG00h0eGsG8lEFi1BtQvKczlTGXBeggqAa0"
19
20 def setup_oauth():
21     """Authorize your app via identifier."""
22     # Request token
23     oauth = OAuth1(CONSUMER_KEY, client_secret=CONSUMER_SECRET)
24     r = requests.post(url=REQUEST_TOKEN_URL, auth=oauth)
25     credentials = parse_qs(r.content)
26     resource_owner_key = credentials.get('oauth_token')[0]
27     resource_owner_secret = credentials.get('oauth_token_secret')[0]
28     # Authorize
29     authorize_url = AUTHORIZE_URL + resource_owner_key
30     print 'Please go here and authorize: ' + authorize_url
31     verifier = raw_input('Please input the verifier: ')
32     oauth = OAuth1(CONSUMER_KEY,
33                    client_secret=CONSUMER_SECRET,
34                    resource_owner_key=resource_owner_key,
35                    resource_owner_secret=resource_owner_secret,
36                    verifier=verifier)
37     # Finally, Obtain the Access Token
38     r = requests.post(url=ACCESS_TOKEN_URL, auth=oauth)
39     credentials = parse_qs(r.content)
40     token = credentials.get('oauth_token')[0]
41     secret = credentials.get('oauth_token_secret')[0]
42     return token, secret
43
44 def get_oauth():
45     oauth = OAuth1(CONSUMER_KEY,
46                    client_secret=CONSUMER_SECRET,
47                    resource_owner_key=OAUTH_TOKEN,
48                    resource_owner_secret=OAUTH_TOKEN_SECRET)
49     return oauth
50 # returns id num and list of links
51 def getURL(r):
52     links = [];
53     # traverse json object of multiple tweets
54     for rs in r.json():
55         temp = rs.get('entities').get('urls');
56         num = rs.get('id');
57         # check if there were urls in tweet
58         if len(temp) != 0:
59             num = rs.get('id');
60             temp = str((temp[0])['url']);
61             # attempt to get the
62             try:
63                 h = urllib2.Http(".cache_httplib")
64                 h.follow_all_redirects = True
65                 h.force_exception_to_status_code = True
66                 resp = h.request(temp, "GET")[0]
67                 if resp['status'] == '200':
68                     # this is the final redirected url
69                     print resp['content-location']
70                     links.append(resp['content-location'])
71             except:
72                 pass
73     return num, links
74
75 if __name__ == "__main__":
76     if not OAUTH_TOKEN:
77         token, secret = setup_oauth()
78         print "OAUTH_TOKEN: " + token
79         print "OAUTH_TOKEN_SECRET: " + secret
80         print
81     else:
82         oauth = get_oauth()
83
84     # initial variables
85     numURLs = 1000;
86     site = "https://api.twitter.com/1.1/statuses/user_timeline.json?screen_name="
87     name = "timoreilly"
88     cnt = "&count=20"
89     filt = "&filter%3Alinks"
90     uniqs = [];
91     things = [];
92     # initial request with count
93     r = requests.get(url=site+name+cnt+filt, auth=oauth)
94     [num, temp] = getURL(r)
95
96     for i in temp:
97         things.append(i)
98

```

```

99     while len(uniqs) < numURLs:
100         # request with max id
101         max_id = "&max_id="+str(num-1)
102         r = requests.get(url=site+name+cnt+max_id+filt , auth=oauth)
103         [num, temp] = getURL(r)
104         # tack those onto the end
105         for i in temp:
106             things.append(i)
107
108         # get the unique ones
109         uniqs = set(things)
110
111     for i in uniqs:
112         print i;
113
114 #####
115 #####
116 ## ORIGINAL DIRTY-WAY-OF-DOING-THINGS CODE
117 #####
118 #####
119     # things = [];
120     # more_things = [];
121     # num = 0;
122     while(len(things) < 5):
123         # if len(things) != 0:
124         #     max_id = "&max_id="+str(num-1)
125         #     r = requests.get(url=site+name+cnt+max_id , auth=oauth)
126         #     for rs in r.json():
127         #         num = rs.get('id');
128         #         i = rs.get('entities').get('urls')
129         #         if len(i) != 0:
130         #             i = i[0]
131         #             temp = i['url'];
132         #             # print temp;
133         #             try:
134         #                 h = httplib2.Http(".cache_httplib")
135         #                 h.follow_all_redirects = True
136         #                 h.force_exception_to_status_code = True
137         #                 resp = h.request(temp, "GET")[0]
138         #                 if resp['status'] == '200':
139         #                     loc = resp['content-location']
140         #                     more_things.append(loc);
141         #                     if not(loc in things):
142         #                         things.append(loc);
143         #                 elif resp['status'] == '200':
144         #                     loc = resp['location']
145         #                     more_things.append(loc);
146         #                     if not(loc in things):
147         #                         things.append(loc);
148         #                 else:
149         #                     loc = resp['status'];
150         #                     #req = urllib2.Request(temp, headers=hdr)
151         #                     #res = urllib2.urlopen(req);
152         #                     #print loc
153         #                     except ValueError:
154         #                         pass;
155         #                 #pprint(rs)
156         # print len(more_things), len(things)
157         # for thing in things:
158         #     print thing;

```

Listing 1: Python script to retrieve unique URLs



## 1.2 Question 2

### 1.2.1 The Question

Download the TimeMaps for each of the target URIs. We'll use the mementoweb.org Aggregator, so for example:

URI-R = `http://www.cs.odu.edu/`

URI-T = `http://mementoweb.org/timemap/link/http://www.cs.odu.edu/`

You could use the cs.odu.edu aggregator:

URI-T = `http://mementoproxy.cs.odu.edu/aggr/timemap/link/1/http://www.cs.odu.edu/`

But be sure to say which aggregator you use – they are likely to give different answers. Create a histogram of URIs vs. number of Mementos (as computed from the TimeMaps). For example, 100 URIs with 0 Mementos, 300 URIs with 1 Memento, 400 URIs with 2 Mementos, etc (see: <http://en.wikipedia.org/wiki/Histogram>).

Note that the TimeMaps can span multiple pages. Look for links like:

`http://mementoweb.org/timemap/link/1000/http://www.cnn.com/;rel="timemap";type="application/link-format";from="Sun, 08 Jul 2001 21:30:54 GMT"`

This indicates another page of the TimeMap is available. There can be many pages to a TimeMap.

### 1.2.2 The Answer

The TimeMaps of the URLs were requested and the number of achieved versions of the webpage was counted and stored in a file. This portion of the assignment was executed using a BASH script. Each the file containing the 1000 URLs was read and the beginning of every URL the memento URL was appended.

`http://mementoproxy.cs.odu.edu/aggr/timemap/link/1/`

The file containing the amended URL was read in line by line and a GET request was made using cURL. The number of `http*` occurrence was counted minus the original URLm that is the number of archived versions of the webpage. All this information was stored in a comma separated file to be read into R easily.

```
1 #!/bin/bash
2
3 grep http* temp > urls.txt
4 awk '{print "http://mementoweb.org/timemap/link/"$0}' urls.txt > mement.txt
5
6 echo "WORKING ON THIS FOR YOU"
7
8 rm -f cnt.csv
9 echo "num , site" >> cnt.csv
10 while read -r line
11 do
12     line=$line
13     new=$(echo $line | sed 's/http\?:\\\/\\\/mementoweb.org\\\/timemap\\\/link\\\/\\\/')
14     num=$(curl -X GET $line | grep http* | wc -l)
15     if [ $num -gt 0 ]; then
16         echo "$(($num-1)) , \"$new\" " >> cnt.csv
17     fi
18 done < mement.txt
19
20 rm mement.txt urls.txt
```

Listing 2: Bash script to retrieve the number of Mementos for each URL

```
1 library(plotrix)
2
3 a = read.csv("cnt.csv", sep=",", nrow=1000);
```

```

4 b = a[,1];
5 print(b);
6 hist(b, breaks=1000);
7 c = table(a$num);
8 print(c)
9
10 barplot(c)
11 plot(log(c), log="x")

```

Listing 3: R script to generate a histogram

Plotting the histogram of the number of URLs with a specific number of mementos reveals a pattern in the data. There seems to be a power law relationship between URLs and mementos. It is clear from the histogram that the bulk of the URLs have very few or no mementos while there are very few URLs with many mementos. URLs that exceed 1000 mementos were ceiled to a value of 1000 to limit extreme outliers.

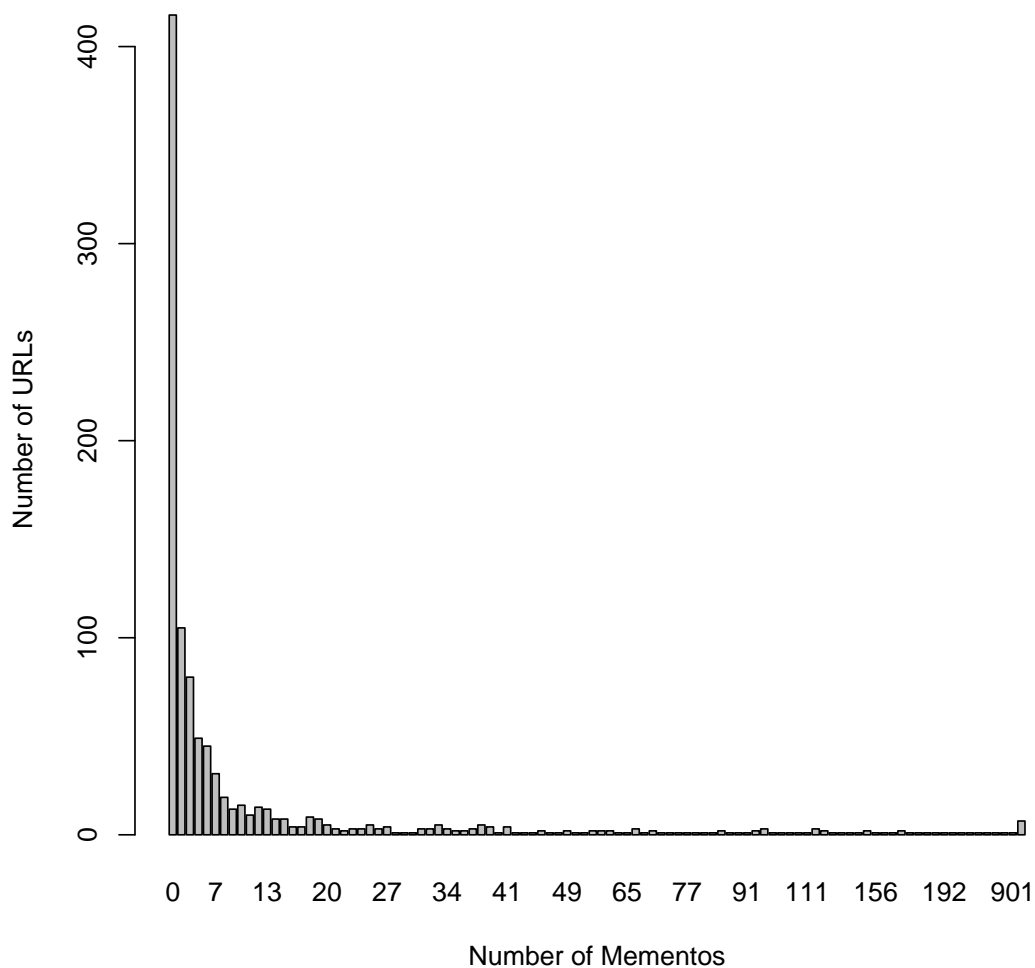


Fig. 1.1: Histogram of mementos

## 1.3 Question 3

### 1.3.1 The Question

Estimate the age of each of the 1000 URIs using the "Carbon Date" tool:

<http://ws-dl.blogspot.com/2013/04/2013-04-19-carbon-dating-web.html>

Note: you'll have better luck downloading and installing the tool rather than using the web service (which will run slowly and likely be unreliable).

For URIs that have more than 0 Mementos and an estimated creation date, create a graph with age (in days) on one axis and number of mementos on the other.

### 1.3.2 The Answer

```

1 #!/bin/bash
2
3 tail -n +2 cnt.csv | grep  "[^0]" > A1
4
5 # | grep -o '"[^"]\+"' | grep -o '[^"]*"[^"]'> temp
6
7 rm ageMemLink
8 c=0
9
10 echo "days, mement, link" > ageMemLink
11 while read -r line
12 do
13     t=$(echo $line | grep -o '"[^"]\+"' | grep -o '[^"]*"[^"]')
14     c=$((c+1))
15     echo $c
16     s=$(python local.py $t | tail -n +7 | ./code.py)
17     #echo $s, $line
18     echo $s, $line >> ageMemLink
19 done < A1

```

Listing 4: Bash script to run CarbonDate and store results

```

1 #!/usr/bin/python
2
3 import json
4 from StringIO import StringIO
5 from datetime import datetime
6 import sys;
7
8 data = sys.stdin.read();
9
10 n = datetime.now();
11 a = data
12 b = a;
13 b = StringIO(b);
14 c = json.load(b);
15 m = c.get("Estimated Creation Date");
16 if m != '':
17     print (n - datetime.strptime(m, "%Y-%m-%dT%H:%M:%S")).days;
18 else:
19     print -1
20 #print datetime.strptime(c.get("Estimated Creation Date"), - n

```

Listing 5: Python script to find "Estimated Creation Date" in JSON file

The results from part 2 were used in this section. Initially all entries with zero mementos were discarded. Then for each of the links the CarbonDate script was run to generate and "Estimated Creation Date". Finally this data was stored in a comma separated file to be used later in R. A Bash script parsed the results from part 2, removing all zero memento entries, and storing the result to a temporary file. This file was read

line by line. The URL was extracted and run through local.py of CarbonDate. The resulting JSON was read by a Python script that read the estimated creation data and determined the URLs age in days. Finally, the age in days, number of mementos were stored in a csv file. All URLs that had more than 1000 achieved versions were bound to 1000 mementos to avoid extreme outliers in the data.

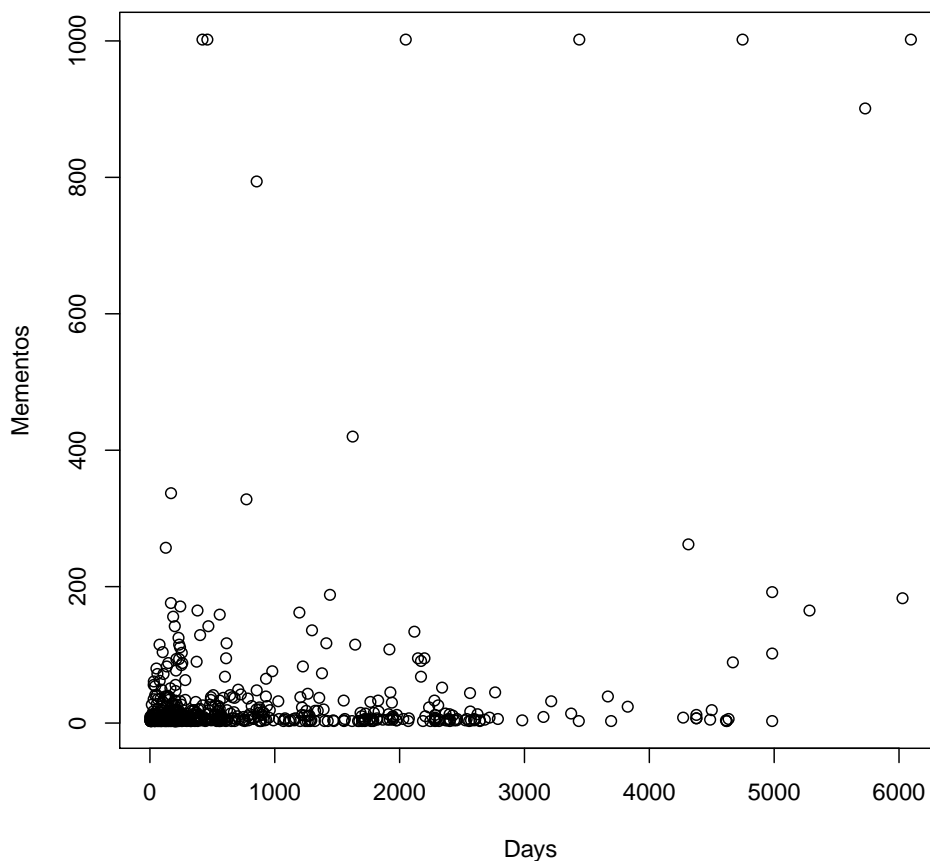
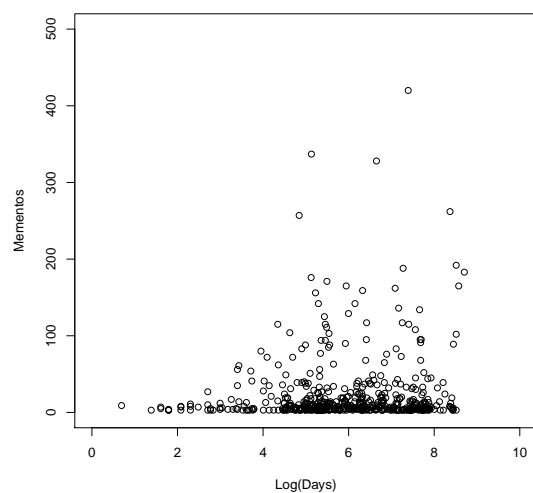
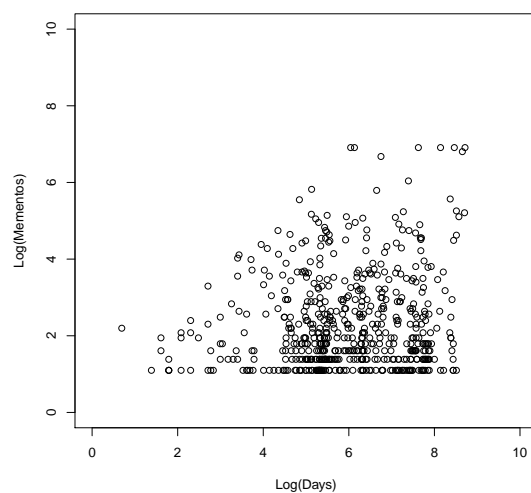


Fig. 1.2: Number of Mementos as a function of age

The results do not seem to reveal a clear relationship between age and number of mementos. The majority of the data is concentrated in fairly recent URLs with few mementos. Perhaps a larger data set would better sample older ages and show a more distinct relationship. In order to better portray in the information so that inference is easier semilog and log-log plot of the data was plotted. Again the resulting graphs do not seem to contain any striking information about the data. Finally, in an attempt to better understand the dataset histograms of the URL age and number of mementos were plotted. These two graphs are very similar and show an underlying power law relationship. The bulk of the data is fairly young and has few archived version.

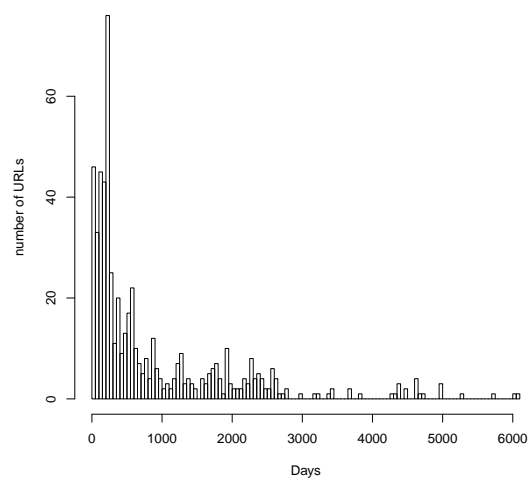


(a) Mementos as a function of the logarithm of age

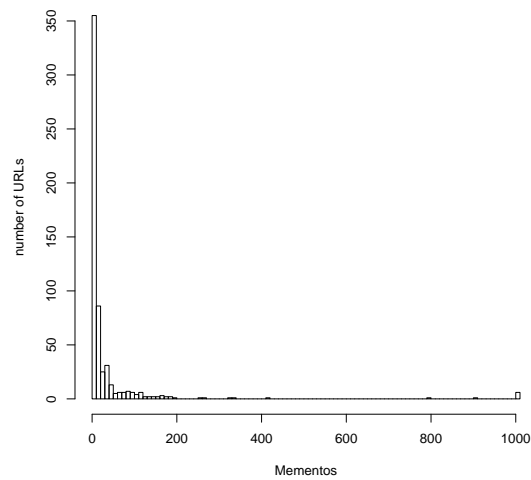


(b) Log Mementos as a function of the logarithm of age

Fig. 1.3: Mementos as a function of days



(a) Histogram of URL age



(b) Histogram of Mementos

Fig. 1.4: Histograms



# References

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3. <http://curl.haxx.se/docs/httpscripting.html>
4. <http://www.crummy.com/software/BeautifulSoup/bs4/doc/>
5. <http://www.rmi.net/~lutz/>
6. <http://www.cs.cornell.edu/home/kleinber/networks-book/>
7. <http://thomassileo.com/blog/2013/01/25/using-twitter-rest-api-v1-dot-1-with-python/>
8. <http://www.cs.odu.edu/~mklein/cs796/lecture/>





# Chapter 2

## List

### 2.1 1000 Unique URLs

```
1 num , site
2 11 , "http://pando.com/2014/02/25/revenge-of-the-nerds-how-tech-geeks-found-a-secret-weapon-in-
   their-fight-against-big-hollywood/"
3 3 , "http://reinventors.net/roundtables/reinvent-government-procurement/#sthash.VM0qiNqe.uxfs"
4 0 , "http://blog.makespace.com/posts/tim-oreilly-features-makespace-at-the-2014-solid-conference"
5 3 , "http://reconnectingamerica.org/laequityatlas/index.php"
6 0 , "http://www.theatlantic.com/features/archive/2014/09/why-i-hope-to-die-at-75/379329/?curator=
   MediaREDEF&utm_content=buffer7728c&utm_medium=social&utm_source=twitter.com&utm_campaign=
   buffer"
7 1002 , "http://radar.oreilly.com/"
8 0 , "https://www.facebook.com/photo.php?fbid=10153693595190611&set=a
   .10150288648675611.533974.718610610&type=1&theater&notif_t=like"
9 0 , "http://app.nationalproduction.wgbh.org/e/es?s=2531&e=217949&elq=
   d3a9df845141467dae17b22b397d467b"
10 19 , "https://www.aclu.org/blog/national-security-technology-and-liberty/edward-snowden-talk-
   privacy-tech-community-sxsw"
11 41 , "http://techcrunch.com/2014/01/23/pch-acquires-shoplocket/"
12 18 , "http://violentmetaphors.com/2014/03/25/parents-you-are-being-lied-to/"
13 5 , "http://radar.oreilly.com/2014/03/podcast-thinking-with-data.html"
14 7 , "http://www.theguardian.com/commentisfree/2014/feb/14/family-first-world-war-experiences-these-
   are-mine"
15 42 , "http://www.oreilly.com/dataweek/"
16 0 , "http://blog.peerj.com/post/75497385626/ask-me-anything-correcting-the-scientific-record"
17 0 , "http://www.quora.com/What-did-Sundar-Pichai-do-that-his-peers-didnt-do-that-got-him-promoted-
   up-to-the-highest-ranks-at-Google"
18 0 , "http://www.siliconrepublic.com/business/item/36808-google-makes-largest/"
19 6 , "http://www.cbsnews.com/videos/new-technology-makes-customers-better-tippers/"
20 63 , "http://www.brainpickings.org/index.php/2013/12/16/writers-wakeup-times-literary-productivity-
   visualization/"
21 18 , "http://qz.com/206705/the-us-lawyer-bubble-has-conclusively-popped/"
22 52 , "http://qpdf.sourceforge.net"
23 0 , "https://blog.squareup.com/townsquare/posts/together-square-sellers-are-the-13th-largest-
   retailer-in-the-country"
24 0 , "http://solidcon.com/solid2014/public/schedule/speakers?cmp=tw-na-confreg-home-sld14_solid_
   twitter_posts"
25 5 , "http://blog.unglue.it/2014/04/30/thanks-for-ungluing-launches/"
26 7 , "http://www.slate.com/articles/health_and_science/medical_examiner/2014/09/why_ebola_is_
   terrifying_and_dangerous_it_preys_on_family_caregiving_and.html"
27 5 , "http://www.moore.org/programs/science/data-driven-discovery/ddd-investigators"
28 0 , "https://medium.com/@mkramer/what-does-it-mean-to-be-a-member-of-a-public-media-station-and-
   what-could-it-mean-59b0d3c90204?utm_content=buffer8944d&utm_medium=social&utm_source=twitter.
   com&utm_campaign=buffer"
29 0 , "http://www.virgin.com/richard-branson/the-who-joins-the-battle-for-drug-decriminalisation"
30 4 , "http://www.parley.tv/thevortexproject#vortex1"
31 6 , "http://www.scientificamerican.com/article/strange-but-true-cats-cannot-taste-sweets/"
32 30 , "http://www.slideshare.net/timoreilly/government-for-the-people-by-the-people-in-the-21st-
   century"
33 142 , "https://mayday.us/"
34 3 , "http://solidcon.com/solid2014/public/schedule/list"
35 4 , "http://radar.oreilly.com/2014/02/oobleck-security.html"
36 0 , "http://2014.oshwa.org/2014/08/07/annual-open-hardware-ada-fellowship-call-is-open/"
37 3 , "http://pando.com/2014/02/14/bulletproof-yourself-how-dave-asprey-is-teaching-valley-insiders-
   to-hack-their-biology/"
38 5 , "http://www.sciencefriday.com/segment/01/24/2014/is-coding-the-language-of-the-digital-age.html"
   "
```

```

39 3 , "http://edge.org/conversation/whats-new-in-the-universe"
40 0 , "http://www.brainpickings.org/2014/08/28/the-price-of-admission-dan-savage/?utm_content=
    buffer784b1&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer"
41 0 , "http://civildesigncamp.org/"
42 1002 , "http://www.whitehouse.gov/"
43 0 , "http://www.vox.com/2014/9/18/6399999/childhood-mortality-map"
44 0 , "http://fluentconf.com/fluent2014/public/content/exhibit-hall-only"
45 0 , "http://www.thefiscaltimes.com/Columns/2014/03/02/Health-Care-Savings-Come-Unlikely-Places"
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Listing 6: Python script to retrieve unique URLs

## 2.2 Age of URLs

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Listing 7: Python script to retrieve unique URLs