

In [521]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
from sklearn import tree
from sklearn.tree import DecisionTreeClassifier

from sklearn.datasets import load_iris
from sklearn import tree
from sklearn.tree import export_graphviz

import io
from scipy import misc

data = pd.read_csv("/Users/sonia/Downloads/BuzzFeed_Fake_1-Webpage-3.csv")
```

In [522]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
from sklearn import tree
from sklearn.tree import DecisionTreeClassifier

from sklearn.datasets import load_iris
from sklearn import tree
from sklearn.tree import export_graphviz
import io
from scipy import misc

polif= pd.read_csv("/Users/sonia/Downloads/PolitiFact_Fake_1-Webpage.csv")
```

In [523]:

```
np.random.seed(10)
```

In [524]: data

27		NaN	NaN	NaN		NaN	NaN
28	http://eaglerising.com/wp-content/uploads/2016...	After collapsing just before trying to step in...		View All Posts		NaN	Tony Elliott
29		NaN	NaN	NaN		NaN	NaN
...	...	...	...	...		...	...
2361		NaN	NaN	NaN		NaN	NaN
2362		NaN	NaN	NaN		NaN	NaN
2363		NaN	NaN	NaN		NaN	NaN
2364		NaN	NaN	NaN		NaN	NaN
2365		NaN	NaN	NaN		NaN	NaN
People							

In [525]: polif

2541		NaN	NaN	NaN
2542		NaN	NaN	NaN
2543		NaN	NaN	NaN
2544		NaN	NaN	NaN
2545	http://newsfeedpaper.press/wp-content/uploads/...	Libtard Democrat Al Franken will resign his se...		NaN
2546		NaN	NaN	NaN
2547		NaN	NaN	NaN
2548		NaN	NaN	NaN
2549		NaN	NaN	NaN
2550		NaN	NaN	NaN
2551		NaN	NaN	NaN

```
In [526]: data.sample(5)
```

```
Out[526]:
```

	top_img	text	authors__001	meta_data__publisher	authors__002	authors__003	authors__0
507	NaN	NaN	NaN	NaN	NaN	NaN	NaN
981	NaN	NaN	NaN	NaN	NaN	NaN	NaN
1269	NaN	NaN	NaN	NaN	NaN	NaN	NaN
56	NaN	NaN	NaN	NaN	NaN	NaN	NaN
1863	NaN	NaN	NaN	NaN	NaN	NaN	NaN

5 rows × 60 columns

```
In [530]: data
```

2374	NaN	NaN	NaN	NaN	NaN	NaN
2375	NaN	NaN	NaN	NaN	NaN	NaN
2376	NaN	NaN	NaN	NaN	NaN	NaN
2377	NaN	NaN	NaN	NaN	NaN	NaN
2378	NaN	NaN	NaN	NaN	NaN	NaN
2379	NaN	NaN	NaN	NaN	NaN	NaN
2380	NaN	NaN	NaN	NaN	NaN	NaN
2381	NaN	NaN	NaN	NaN	NaN	NaN
2382	NaN	NaN	NaN	NaN	NaN	NaN
2383	NaN	NaN	NaN	NaN	NaN	NaN
2384	NaN	NaN	NaN	NaN	NaN	NaN

```
In [531]: ns=['images','meta_data__apple-mobile-web-app-capable','meta_data__format-
```

In [532]: data

Out[532]:

	top_img	text	authors_001	meta_data_publisher	authors_002
0	http://eaglerising.com/wp-content/uploads/2016...	Former President Bill Clinton and his Clinton ...	View All Posts	NaN	NaN
1	NaN	NaN	NaN	NaN	NaN
2	NaN	NaN	NaN	NaN	NaN
3	NaN	NaN	NaN	NaN	NaN
4	NaN	NaN	NaN	NaN	NaN
5	NaN	NaN	NaN	NaN	NaN
6	NaN	NaN	NaN	NaN	NaN
7	NaN	NaN	NaN	NaN	NaN

In [533]: data=data.dropna(axis=0, how='all', thresh=None, subset=None, inplace=False)

In [534]: data

Out[534]:

	top_img	text	authors_001	meta_data_publisher
0	http://eaglerising.com/wp-content/uploads/2016...	Former President Bill Clinton and his Clinton ...	View All Posts	
28	http://eaglerising.com/wp-content/uploads/2016...	After collapsing just before trying to step in...	View All Posts	
55	http://addictinginfo.addictinginfoent.netdna-c...	Donald Trump is, well, deplorable. He's sugges...	John Prager	Addicting Knowledge
64		NaN	Website is Down For Maintenance	NaN
		When President		

```
In [535]: data=data.dropna(axis=1,how='all',thresh=None,subset=None,inplace=False)
```

```
In [536]: data #buzzfeed fake data
```

2214	http://conservativetribune.com/wp-content/uplo...	Advertisement - story continues below\n\nThe f...	Martin Lioll
2243	http://clashdaily.com/wp-content/uploads/2016/...	Well THAT'S Weird. If the Birther movement is ...	Rich Witmer
2260	http://assets.thepoliticalinsider.com.s3.amazo...	\n\nThere's a lot to be discussed about last n...	NaN
2366	http://rightwingnews.com/wp-content/uploads/20...	People Noticed Something Odd About Hillary's O...	Lisa Smith

90 rows x 55 columns

```
In [537]: data.loc[:, "title"]
```

```
Out[537]: 0      Charity: Clinton Foundation Distributed "Water...
28      A Hillary Clinton Administration May be Entire...
55      Trump's Latest Campaign Promise May Be His Mos...
64      Website is Down For Maintenance
65      Obama Pushes One World Government
83      Clinton Foundation Spent 5.7% on Charity; Rest...
111     WHOA! NEW DISTURBING VIDEO Shows HILLARY'S Cam...
143     Is it the Beginning of the End for Hillary Cli...
170     Californians Had Special Way to View the Eclip...
190     Obama Just DISGRACED The U.S. By Surrendering ...
193     Declassified Docs Show That Obama Admin Create...
196     A Hillary Clinton Administration May be Entire...
223     BREAKING: Did Hillary Clinton Have a Nervous B...
253     Hillary Denies She and Obama Founded ISIS...Then...
254     Trump Just Made A Campaign Promise So Ridiculo...
263     Top Army Chief of Staff General Has Had It Wit...
267     Congress MUST Act! Five Days Until Obama's Int...
285     Clemson BANS Memes Featuring Dead Gorilla Hara...
312     How Democrats are Going to Try to STEAL the El...
340     "If You Can't Run Your Own House, You Certainl...
368     CNN's Post-Debate Rigged Poll Busted...Here Are ...
369     Why is it "RACIST" to Question Someone's Birth...
```

```

396 Homosexual Thinks Muslims Will Accept Him, Ins...
397 REVEALED! Minnesota Mall Attacker ID'd As One ...
398 NYC Terrorist Ahmad Rahami Sued Police Departm...
462 Fast Food CEO Threatens To Fire Everyone If A ...
467 BREAKING: WikiLeaks Releases Proof Hillary Lie...
468 Angela Merkel Admits Bringing In Muslim Refuge...
480 DISGUSTING! Because Of Hillary & Obama, NY Ter...
545 DESPICABLE! Hillary Wants To Put Hero Cop Who ...

...

1664 Note In Arabic Found With NYC Bomb... Call Says ...
1685 Donald Trump Goes Off The Deep End—May Be Unfi...
1694 Secret Video Records MASSIVE Hillary Event Flop!
1715 CNN FURIOUS and Embarrassed After Trump Called...
1737 New York bomb Suspect SUED Police!
1759 Clinton Foundation Spent 5.7% on Charity; Rest...
1787 Obama's Speech In New York Shocks Americans Wh...
1808 Bill And Hillary Clinton Have A MAJOR AIDS Sca...
1828 Changing Your Baby's Diaper Is Now A Sex Crime...
1838 Michelle Obama NOT Leaving The White House — H...
1860 New Clinton Foundation SCANDAL Just Broke — Th...
1882 BREAKING: Judge DEMANDS Release Of Clinton's S...
1904 Networks Confirm They Will Not Be Fact-Checkin...
1913 Decades-Old Clinton Friend Comes Forward, Says...
1942 'We Don't Adapt To Your Culture, You Adapt To ...
1952 White Guy Walled In Car By BlackLivesMatter Pr...
1973 The Black Sphere with Kevin Jackson
2002 Obama: "I bet when I die you'll be happy to pe...
2012 SURPRISE! 70% Of Charlotte RIOTERS Are Not Fro...
2033 Hillary's DEAD!?!? Brand New Theory Has Seriou...
2084 EXPOSED: Soros Funding Fake Veterans' PAC To T...
2104 OUTRAGE! Obama Spends $770M Dollars In Tax Pay...
2125 BOOM! Marines Send TERRORISTS Scathing Message...
2147 BOOM! Charlotte Officials FINALLY Silence Riot...
2169 BREAKING: Steps to FORCE FBI Director Comey to...
2192 Hillary's TOP Donor Country Just Auctioned Off...
2214 Cavuto Just Exposed Lester Holt's Lies During ...
2243 The AP, In 2004, Said Your Boy Obama Was BORN ...
2260 People Noticed Something Odd About Hillary's O...
2366 People Noticed Something Odd About Hillary's O...
Name: title, Length: 90, dtype: object

```

```
In [615]: data.loc[:, "url"]
```

```

Out[615]: 0      http://eaglerising.com/36899/charity-clinton-f...
          (http://eaglerising.com/36899/charity-clinton-f...)
          28      http://eaglerising.com/36880/a-hillary-clinton...
          (http://eaglerising.com/36880/a-hillary-clinton...)
          55      http://www.addictinginfo.org/2016/09/19/trumps...
          (http://www.addictinginfo.org/2016/09/19/trumps...)
          64      http://www.proudcons.com/clinton-foundation-ca...

```

```

(http://www.proudcons.com/clinton-foundation-ca...)
65      http://allenwestrepublic.com/2016/09/20/obama-...
(http://allenwestrepublic.com/2016/09/20/obama-...)
83      http://eaglerising.com/36847/clinton-foundatio...
(http://eaglerising.com/36847/clinton-foundatio...)
111     http://100percentfedup.com/new-disturbing-vide...
(http://100percentfedup.com/new-disturbing-vide...)
143     http://eaglerising.com/36912/is-it-the-beginni...
(http://eaglerising.com/36912/is-it-the-beginni...)
170     http://conservativebyte.com/2016/09/hillary-ba...
(http://conservativebyte.com/2016/09/hillary-ba...)
190     https://goo.gl/aRYFof
(https://goo.gl/aRYFof)
193     http://usherald.com/breaking-declassified-docs...
(http://usherald.com/breaking-declassified-docs...)
196     http://eaglerising.com/36880/a-hillary-clinton...
(http://eaglerising.com/36880/a-hillary-clinton...)
223     http://theblacksphere.net/2016/09/breaking-did...
(http://theblacksphere.net/2016/09/breaking-did...)
253     missing
254     http://winningdemocrats.com/trump-just-made-a-...
(http://winningdemocrats.com/trump-just-made-a-...)
263     http://usherald.com/top-army-chief-of-staff-ge...
(http://usherald.com/top-army-chief-of-staff-ge...)
267     http://allenwestrepublic.com/2016/09/25/congre...
(http://allenwestrepublic.com/2016/09/25/congre...)
285     http://eaglerising.com/37061/clemson-bans-meme...
(http://eaglerising.com/37061/clemson-bans-meme...)
312     http://eaglerising.com/37044/how-democrats-are...
(http://eaglerising.com/37044/how-democrats-are...)
340     http://eaglerising.com/37040/michelle-obama-at...
(http://eaglerising.com/37040/michelle-obama-at...)
368     missing
369     http://eaglerising.com/36841/why-is-it-racist-...
(http://eaglerising.com/36841/why-is-it-racist-...)
396     missing
397     missing
398     http://freedomdaily.com/nyc-terrorist-ahmad-ra...
(http://freedomdaily.com/nyc-terrorist-ahmad-ra...)
462     http://author.groopspeak.com/fast-food-ceo-thr...
(http://author.groopspeak.com/fast-food-ceo-thr...)
467     missing
468     https://goo.gl/aKyOlG
(https://goo.gl/aKyOlG)
480     http://freedomdaily.com/disgusting-because-of-...
(http://freedomdaily.com/disgusting-because-of-...)
545     http://freedomdaily.com/despicable-hillary-wan...
(http://freedomdaily.com/despicable-hillary-wan...)
...
1664    http://rightwingnews.com/top-news/note-arabic-...

```

(<http://rightwingnews.com/top-news/note-arabic-...>)  
1685 <http://winningdemocrats.com/donald-trump-goes-...>  
(<http://winningdemocrats.com/donald-trump-goes-...>)  
1694 <http://rightwingnews.com/hillary-clinton-2/sec...>  
(<http://rightwingnews.com/hillary-clinton-2/sec...>)  
1715 <http://rightwingnews.com/donald-trump/cnn-furi...>  
(<http://rightwingnews.com/donald-trump/cnn-furi...>)  
1737 <http://rightwingnews.com/top-news/new-york-bom...>  
(<http://rightwingnews.com/top-news/new-york-bom...>)  
1759 <http://eaglerising.com/36847/clinton-foundatio...>  
(<http://eaglerising.com/36847/clinton-foundatio...>)  
1787 <http://rightwingnews.com/top-news/obamas-speec...>  
(<http://rightwingnews.com/top-news/obamas-speec...>)  
1808 <http://www.thepoliticalinsider.com/clinton-aid...>  
(<http://www.thepoliticalinsider.com/clinton-aid...>)  
1828 <http://www.chicksontheright.com/changing-your-...>  
(<http://www.chicksontheright.com/changing-your-...>)  
1838 <http://rightwingnews.com/top-news/michelle-oba...>  
(<http://rightwingnews.com/top-news/michelle-oba...>)  
1860 <http://rightwingnews.com/hillary-clinton-2/new...>  
(<http://rightwingnews.com/hillary-clinton-2/new...>)  
1882 <http://rightwingnews.com/hillary-clinton-2/bre...>  
(<http://rightwingnews.com/hillary-clinton-2/bre...>)  
1904 <http://addictinginfo.org/2016/09/26/networks-c...>  
(<http://addictinginfo.org/2016/09/26/networks-c...>)  
1913 <http://conservativetribune.com/clinton-friend-...>  
(<http://conservativetribune.com/clinton-friend-...>)  
1942 <https://ihavethetruth.com/2016/03/27/162167/>  
(<https://ihavethetruth.com/2016/03/27/162167/>)  
1952 <http://rightwingnews.com/top-news/white-guy-wa...>  
(<http://rightwingnews.com/top-news/white-guy-wa...>)  
1973 <http://theblacksphere.net/2016/09/chicago-envi...>  
(<http://theblacksphere.net/2016/09/chicago-envi...>)  
2002 <https://ihavethetruth.com/2016/01/30/obama-i-b...>  
(<https://ihavethetruth.com/2016/01/30/obama-i-b...>)  
2012 <http://rightwingnews.com/black-lives-matter/su...>  
(<http://rightwingnews.com/black-lives-matter/su...>)  
2033 <http://www.thepoliticalinsider.com/hillary-hea...>  
(<http://www.thepoliticalinsider.com/hillary-hea...>)  
2084 <http://rightwingnews.com/top-news/exposed-soro...>  
(<http://rightwingnews.com/top-news/exposed-soro...>)  
2104 <http://rightwingnews.com/barack-obama/outrage-...>  
(<http://rightwingnews.com/barack-obama/outrage-...>)  
2125 <http://rightwingnews.com/military/boom-marines...>  
(<http://rightwingnews.com/military/boom-marines...>)  
2147 <http://rightwingnews.com/black-lives-matter/bo...>  
(<http://rightwingnews.com/black-lives-matter/bo...>)  
2169 <http://rightwingnews.com/hillary-clinton-2/bre...>  
(<http://rightwingnews.com/hillary-clinton-2/bre...>)  
2192 <http://rightwingnews.com/hillary-clinton-2/hil...>



```
(http://rightwingnews.com/hillary-clinton-2/hil...)
2214 http://conservativetribune.com/lester-holt-lie...
(http://conservativetribune.com/lester-holt-lie...)
2243 http://clashdaily.com/2016/09/dear-cnn-ap-2004...
(http://clashdaily.com/2016/09/dear-cnn-ap-2004...)
2260 http://www.thepoliticalinsider.com/first-presi...
(http://www.thepoliticalinsider.com/first-presi...)
2366 http://rightwingnews.com/top-news/people-notic...
(http://rightwingnews.com/top-news/people-notic...)
Name: url, Length: 90, dtype: object
```

```
In [614]: data.loc[:, "source"]
```

```
Out[614]: 0 http://eaglerising.com (http://eaglerising.com)
28 http://eaglerising.com (http://eaglerising.com)
55 http://www.addictinginfo.org
(http://www.addictinginfo.org)
64 http://www.proudcons.com (http://www.proudcons.com)
65 http://allenwestrepublic.com
(http://allenwestrepublic.com)
83 http://eaglerising.com (http://eaglerising.com)
111 http://100percentfedup.com
(http://100percentfedup.com)
143 http://eaglerising.com (http://eaglerising.com)
170 http://conservativebyte.com
(http://conservativebyte.com)
190 https://goo.gl (https://goo.gl)
193 http://usherald.com (http://usherald.com)
196 http://eaglerising.com (http://eaglerising.com)
223 http://theblacksphere.net (http://theblacksphere.net)
253 missing
254 http://winningdemocrats.com
(http://winningdemocrats.com)
263 http://usherald.com (http://usherald.com)
267 http://allenwestrepublic.com
(http://allenwestrepublic.com)
285 http://eaglerising.com (http://eaglerising.com)
312 http://eaglerising.com (http://eaglerising.com)
340 http://eaglerising.com (http://eaglerising.com)
368 missing
369 http://eaglerising.com (http://eaglerising.com)
396 missing
397 missing
398 http://freedomdaily.com (http://freedomdaily.com)
462 http://author.groopspeak.com
(http://author.groopspeak.com)
467 missing
468 https://goo.gl (https://goo.gl)
480 http://freedomdaily.com (http://freedomdaily.com)
545 http://freedomdaily.com (http://freedomdaily.com)
```

```

...
1664      http://rightwingnews.com (http://rightwingnews.com)
1685      http://winningdemocrats.com
(http://winningdemocrats.com)
1694      http://rightwingnews.com (http://rightwingnews.com)
1715      http://rightwingnews.com (http://rightwingnews.com)
1737      http://rightwingnews.com (http://rightwingnews.com)
1759      http://eaglerising.com (http://eaglerising.com)
1787      http://rightwingnews.com (http://rightwingnews.com)
1808      http://www.thepoliticalinsider.com
(http://www.thepoliticalinsider.com)
1828      http://www.chicksontheright.com
(http://www.chicksontheright.com)
1838      http://rightwingnews.com (http://rightwingnews.com)
1860      http://rightwingnews.com (http://rightwingnews.com)
1882      http://rightwingnews.com (http://rightwingnews.com)
1904      http://addictinginfo.org (http://addictinginfo.org)
1913      http://conservativetribune.com
(http://conservativetribune.com)
1942      https://ihavethetruth.com (https://ihavethetruth.com)
1952      http://rightwingnews.com (http://rightwingnews.com)
1973      http://theblacksphere.net (http://theblacksphere.net)
2002      https://ihavethetruth.com (https://ihavethetruth.com)
2012      http://rightwingnews.com (http://rightwingnews.com)
2033      http://www.thepoliticalinsider.com
(http://www.thepoliticalinsider.com)
2084      http://rightwingnews.com (http://rightwingnews.com)
2104      http://rightwingnews.com (http://rightwingnews.com)
2125      http://rightwingnews.com (http://rightwingnews.com)
2147      http://rightwingnews.com (http://rightwingnews.com)
2169      http://rightwingnews.com (http://rightwingnews.com)
2192      http://rightwingnews.com (http://rightwingnews.com)
2214      http://conservativetribune.com
(http://conservativetribune.com)
2243      http://clashdaily.com (http://clashdaily.com)
2260      http://www.thepoliticalinsider.com
(http://www.thepoliticalinsider.com)
2366      http://rightwingnews.com (http://rightwingnews.com)
Name: source, Length: 90, dtype: object

```

```
In [613]: data.loc[:, "canonical_link"]
```

```

Out[613]: 0      http://eaglerising.com/36899/charity-clinton-f...
(http://eaglerising.com/36899/charity-clinton-f...)
28      http://eaglerising.com/36880/a-hillary-clinton...
(http://eaglerising.com/36880/a-hillary-clinton...)
55      http://addictinginfo.com/2016/09/19/trumps-lat...
(http://addictinginfo.com/2016/09/19/trumps-lat...)
64                                           missing
65      http://allenwestrepublic.com/obama-pushes-one-...

```

```

(http://allenwestrepublic.com/obama-pushes-one-...)
83      http://eaglerising.com/36847/clinton-foundatio...
(http://eaglerising.com/36847/clinton-foundatio...)
111     http://100percentfedup.com/whoa-new-disturbing...
(http://100percentfedup.com/whoa-new-disturbing...)
143     http://eaglerising.com/36912/is-it-the-beginni...
(http://eaglerising.com/36912/is-it-the-beginni...)
170                                           missing
190     http://usherald.com/breaking-obama-just-disgra...
(http://usherald.com/breaking-obama-just-disgra...)
193     http://usherald.com/breaking-declassified-docs...
(http://usherald.com/breaking-declassified-docs...)
196     http://eaglerising.com/36880/a-hillary-clinton...
(http://eaglerising.com/36880/a-hillary-clinton...)
223     http://theblacksphere.net/2016/09/breaking-did...
(http://theblacksphere.net/2016/09/breaking-did...)
253                                           missing
254     http://oppositionreport.com/trump-just-made-a-...
(http://oppositionreport.com/trump-just-made-a-...)
263     http://usherald.com/top-army-chief-of-staff-ge...
(http://usherald.com/top-army-chief-of-staff-ge...)
267     http://allenwestrepublic.com/congress-must-act...
(http://allenwestrepublic.com/congress-must-act...)
285     http://eaglerising.com/37061/clemson-bans-meme...
(http://eaglerising.com/37061/clemson-bans-meme...)
312     http://eaglerising.com/37044/how-democrats-are...
(http://eaglerising.com/37044/how-democrats-are...)
340     http://eaglerising.com/37040/michelle-obama-at...
(http://eaglerising.com/37040/michelle-obama-at...)
368                                           missing
369     http://eaglerising.com/36841/why-is-it-racist-...
(http://eaglerising.com/36841/why-is-it-racist-...)
396                                           missing
397                                           missing
398     http://freedomdaily.com/nyc-terrorist-ahmad-ra...
(http://freedomdaily.com/nyc-terrorist-ahmad-ra...)
462     http://news.groopspeak.com/fast-food-ceo-threa...
(http://news.groopspeak.com/fast-food-ceo-threa...)
467                                           missing
468     http://www.yesimright.com/angela-merkel-admits...
(http://www.yesimright.com/angela-merkel-admits...)
480     http://freedomdaily.com/disgusting-because-of-...
(http://freedomdaily.com/disgusting-because-of-...)
545     http://freedomdaily.com/despicable-hillary-wan...
(http://freedomdaily.com/despicable-hillary-wan...)
...
1664    http://rightwingnews.com/top-news/note-arabic-...
(http://rightwingnews.com/top-news/note-arabic-...)
1685    http://oppositionreport.com/donald-trump-goes-...
(http://oppositionreport.com/donald-trump-goes-...)

```

1694 <http://rightwingnews.com/hillary-clinton-2/sec...>  
(<http://rightwingnews.com/hillary-clinton-2/sec...>)  
1715 <http://rightwingnews.com/donald-trump/cnn-furi...>  
(<http://rightwingnews.com/donald-trump/cnn-furi...>)  
1737 <http://rightwingnews.com/top-news/new-york-bom...>  
(<http://rightwingnews.com/top-news/new-york-bom...>)  
1759 <http://eaglerising.com/36847/clinton-foundatio...>  
(<http://eaglerising.com/36847/clinton-foundatio...>)  
1787 <http://rightwingnews.com/top-news/obamas-speec...>  
(<http://rightwingnews.com/top-news/obamas-speec...>)  
1808 <http://thepoliticalinsider.com/clinton-aids-bi...>  
(<http://thepoliticalinsider.com/clinton-aids-bi...>)  
1828 <https://www.chicksontheright.com/2016/09/19/ch...>  
(<https://www.chicksontheright.com/2016/09/19/ch...>)  
1838 <http://rightwingnews.com/top-news/michelle-oba...>  
(<http://rightwingnews.com/top-news/michelle-oba...>)  
1860 <http://rightwingnews.com/hillary-clinton-2/new...>  
(<http://rightwingnews.com/hillary-clinton-2/new...>)  
1882 <http://rightwingnews.com/hillary-clinton-2/bre...>  
(<http://rightwingnews.com/hillary-clinton-2/bre...>)  
1904 <http://addictinginfo.com/2016/09/26/networks-c...>  
(<http://addictinginfo.com/2016/09/26/networks-c...>)  
1913 <http://conservativetribune.com/clinton-friend-...>  
(<http://conservativetribune.com/clinton-friend-...>)  
1942 <http://ihavethetruth.com/2017/07/01/mayor-tells-mus...>  
1952 <http://rightwingnews.com/top-news/white-guy-wa...>  
(<http://rightwingnews.com/top-news/white-guy-wa...>)  
1973 <http://theblacksphere.net/2016/09/chicago-envi...>  
(<http://theblacksphere.net/2016/09/chicago-envi...>)  
2002 <http://ihavethetruth.com/2016/01/30/obama-i-bet-whe...>  
2012 <http://rightwingnews.com/black-lives-matter/su...>  
(<http://rightwingnews.com/black-lives-matter/su...>)  
2033 <http://thepoliticalinsider.com/hillary-health-...>  
(<http://thepoliticalinsider.com/hillary-health-...>)  
2084 <http://rightwingnews.com/top-news/exposed-soro...>  
(<http://rightwingnews.com/top-news/exposed-soro...>)  
2104 <http://rightwingnews.com/barack-obama/outrage-...>  
(<http://rightwingnews.com/barack-obama/outrage-...>)  
2125 <http://rightwingnews.com/military/boom-marines...>  
(<http://rightwingnews.com/military/boom-marines...>)  
2147 <http://rightwingnews.com/black-lives-matter/bo...>  
(<http://rightwingnews.com/black-lives-matter/bo...>)  
2169 <http://rightwingnews.com/hillary-clinton-2/bre...>  
(<http://rightwingnews.com/hillary-clinton-2/bre...>)  
2192 <http://rightwingnews.com/hillary-clinton-2/hil...>  
(<http://rightwingnews.com/hillary-clinton-2/hil...>)  
2214 <http://conservativetribune.com/lester-holt-lie...>  
(<http://conservativetribune.com/lester-holt-lie...>)  
2243 <http://clashdaily.com/2016/09/dear-cnn-ap-2004...>  
(<http://clashdaily.com/2016/09/dear-cnn-ap-2004...>)

```

2260    http://thepoliticalinsider.com/first-president...
(http://thepoliticalinsider.com/first-president...)
2366    http://rightwingnews.com/top-news/people-notic...
(http://rightwingnews.com/top-news/people-notic...)
Name: canonical_link, Length: 90, dtype: object

```

```
In [541]: data.loc[:, "text"]
```

```

Out[541]: 0      Former President Bill Clinton and his Clinton ...
28      After collapsing just before trying to step in...
55      Donald Trump is, well, deplorable. He's sugges...
64      Website is Down For Maintenance
65      When President Obama spoke at the United Natio...
83      Back when the news first broke about the pay-t...
111     On September 15, Hillary "apparently" held a r...
143     I can't wait for "Weekend at Chelsea's" to hit...
170     Olympic Committee Buckles to LGBT Groups... Ma...
190     Obama made a real fool out of himself during w...
193     Thanks in part to the declassification of Defe...
196     After collapsing just before trying to step in...
223     BREAKING: Did Hillary Clinton Have a Nervous B...
253     It was late one night in the White House when ...
254     \n\nPosted by Frank Wilkenmeyer on 19 Sep 2016...
263     With the growing threat of terrorism around th...
267     What would possess anyone to take control of t...
285     Clemson University freshmen may no longer publ...
312     In every state there is a law governing the me...
340     A Daisy of a Rerun\n\nI am of an age which inc...
368     We're shocked – SHOCKED – to learn that CNN's ...
369     The Democrats are using an intimidation tactic...
396     Once again, the "religion of peace" has proven...
397     A man wearing a security uniform entered a mal...
398     196 SHARES Facebook Twitter\n\nFor a little ov...
462     For decades, employers have been holding Ameri...
467     The FBI has issued a letter stating they are i...
468     Germany's chancellor Angela Merkel has been th...
480     8.1k SHARES Facebook Twitter\n\nWhat a sign of...
545     5.2k SHARES Facebook Twitter\n\nJason Falconer...
...
1664    Note In Arabic Found With NYC Bomb... Call Says ...
1685    \n\nPosted by Frank Wilkenmeyer on 25 Sep 2016...
1694    Secret Video Records MASSIVE Hillary Event Flo...
1715    CNN FURIOUS and Embarrassed After Trump Called...
1737    New York bomb Suspect SUED Police!\n\nNow we f...
1759    Back when the news first broke about the pay-t...
1787    Obama's Speech In New York Shocks Americans Wh...
1808    Over the past several months, the American pub...
1828    According to this, the Arizona state legislatu...
1838    Michelle Obama NOT Leaving The White House – H...
1860    New Clinton Foundation SCANDAL Just Broke – Th...

```

```

1882    BREAKING: Judge DEMANDS Release Of Clinton's S...
1904    There's already been hints from NBC News that ...
1913    Advertisement - story continues below\n\nOne o...
1942    America needs to get with the program when it ...
1952    White Guy Walled In Car By BlackLivesMatter Pr...
1973    Chicago Environmentalist Scumbags\n\nLeftists ...
2002    This is a true story. General Stanley McChryst...
2012    SURPRISE! 70% Of Charlotte RIOTERS Are Not Fro...
2033    Hillary Clinton's health is the top issue in t...
2084    EXPOSED: Soros Funding Fake Veterans' PAC To T...
2104    OUTRAGE! Obama Spends $770M Dollars In Tax Pay...
2125    BOOM! Marines Send TERRORISTS Scathing Message...
2147    BOOM! Charlotte Officials FINALLY Silence Riot...
2169    BREAKING: Steps to FORCE FBI Director Comey to...
2192    Hillary's TOP Donor Country Just Auctioned Off...
2214    Advertisement - story continues below\n\nThe f...
2243    Well THAT'S Weird. If the Birther movement is ...
2260    \n\nThere's a lot to be discussed about last n...
2366    People Noticed Something Odd About Hillary's O...
Name: text, Length: 90, dtype: object

```

```
In [542]: data.info()
```

```

<class 'pandas.core.frame.DataFrame'>
Int64Index: 90 entries, 0 to 2366
Data columns (total 55 columns):
top_img                80 non-null object
text                   90 non-null object
authors__001           56 non-null object
meta_data__publisher   5 non-null object
authors__002           20 non-null object
authors__003           9 non-null object
authors__004           5 non-null object
authors__005           2 non-null object
authors__006           2 non-null object
authors__007           2 non-null object
meta_data__description 32 non-null object
meta_data__generator   39 non-null object
meta_data__author       12 non-null object
meta_data__og__site_name 81 non-null object
meta_data__og__description 81 non-null object
meta_data__og__title    81 non-null object
meta_data__og__locale   76 non-null object
meta_data__og__image__width 59 non-null float64
meta_data__og__image__identifier 59 non-null object
meta_data__og__image__height 59 non-null float64
meta_data__og__image    20 non-null object
meta_data__og__updated_time 46 non-null object
meta_data__og__url      81 non-null object
meta_data__og__type     81 non-null object

```

meta_data__referrer	17 non-null object
meta_data__twitter__description	42 non-null object
meta_data__twitter__creator	34 non-null object
meta_data__twitter__url	8 non-null object
meta_data__twitter__image	44 non-null object
meta_data__twitter__title	45 non-null object
meta_data__fb__admins	9 non-null object
meta_data__twitter__site	31 non-null object
meta_data__twitter__card	47 non-null object
meta_data__robots	54 non-null object
meta_data__DC.date.issued	21 non-null object
meta_data__fb__app_id	73 non-null float64
meta_data__msapplication-TileImage	38 non-null object
meta_data__fb__pages	60 non-null float64
meta_data__article__publisher	40 non-null object
meta_data__article__author	22 non-null object
meta_data__keywords	4 non-null object
meta_data__google-site-verification	42 non-null object
meta_data__article__section	72 non-null object
meta_data__article__tag	40 non-null object
meta_data__article__published_time	72 non-null object
meta_data__article__modified_time	46 non-null object
meta_data__viewport	82 non-null object
meta_data__googlebot	52 non-null object
canonical_link	79 non-null object
title	90 non-null object
url	82 non-null object
movies__001	21 non-null object
movies__002	2 non-null object
publish_date__\$date	76 non-null float64
source	82 non-null object

dtypes: float64(5), object(50)  
memory usage: 39.4+ KB

In [618]: data

Out[618]:

	top_img	text	authors_001	meta_data
0	http://eaglerising.com/wp-content/uploads/2016...	Former President Bill Clinton and his Clinton ...	View All Posts	
28	http://eaglerising.com/wp-content/uploads/2016...	After collapsing just before trying to step in...	View All Posts	
55	http://addictinginfo.addictinginfoent.netdna-c...	Donald Trump is, well, deplorable. He's sugges...	John Prager	Addicting Knowledge
64	missing	Website is Down For Maintenance	missing	

In [619]: *# Adding label to the data*  
data['fakeness'] = 1

In [620]: *# Saving it for the future use*  
data.to\_csv("/Users/sonia/Downloads/finalyearproject/FakeNews\_Clean\_All\_B

In [545]: *#politifact fake news*  
np.random.seed(0)

In [546]: polif.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2556 entries, 0 to 2555
Columns: 103 entries, top_img to source
dtypes: float64(10), object(93)
memory usage: 2.0+ MB
```



In [550]: `polif`

14	NaN	NaN	NaN
15	NaN	NaN	NaN
16	NaN	NaN	NaN
17	NaN	NaN	NaN
18	NaN	NaN	NaN
19	NaN	NaN	NaN
20	NaN	NaN	NaN
21	NaN	NaN	NaN
22	NaN	NaN	NaN
23	NaN	NaN	NaN
24	NaN	NaN	NaN
25	NaN	NaN	NaN

In [551]: `polif=polif.drop(columns="images")`

In [552]: `polif`

Out[552]:

	top_img	text	meta_data_shareaholic_site_name	n
0	<a href="http://usasnich.com/wp-content/uploads/2016/12...">http://usasnich.com/wp-content/uploads/2016/12...</a>	BREAKING!\n\nLiberal rag Huffington Post is re...	NaN	
1	NaN	NaN	NaN	
2	<a href="http://freedomjunkshun.com/wp-content/uploads/...">http://freedomjunkshun.com/wp-content/uploads/...</a>	Three women who all went missing in the mid-19...	NaN	
3	NaN	NaN	NaN	
4	NaN	NaN	NaN	
5	NaN	NaN	NaN	
6	NaN	NaN	NaN	

In [553]: `polif=polif.dropna(axis=0, how='all', thresh=None, subset=None, inplace=F`

In [554]: `polif`

Out[554]:

	top_img	text	meta_data__shareahol
0	http://usasnich.com/wp-content/uploads/2016/12...	BREAKING!\n\nLiberal rag Huffington Post is re...	
2	http://freedomjunkshun.com/wp-content/uploads/...	Three women who all went missing in the mid-19...	
8	NaN	On Monday, Bumble Bee Foods and 2 employees we...	
9	NaN	Republican Rep. Trey Gowdy, who sits on the Ho...	

In [555]: `polif=polif.dropna(axis=1, how='all', thresh=None, subset=None, inplace=F`

In [556]: `polif`

Out[556]:

	top_img	text	meta_data__shareahol
0	http://usasnich.com/wp-content/uploads/2016/12...	BREAKING!\n\nLiberal rag Huffington Post is re...	
2	http://freedomjunkshun.com/wp-content/uploads/...	Three women who all went missing in the mid-19...	
8	NaN	On Monday, Bumble Bee Foods and 2 employees we...	
9	NaN	Republican Rep. Trey Gowdy, who sits on	

In [557]: `polif.loc[:, "title"]`

Out[557]: 0 PUTIN INTERFERENCE COULD GIVE COURTS LEGAL RIG...

2 Barrels Removed From Clinton Property Containe...  
 8 Massive Bumble Bee Recall After 2 Employees Ad...  
 9 JUST IN TODAY Trey Gowdy Is The NEW DIRECTOR O...  
 10 BREAKING: Johnny Depp Taken Into Custody By Se...  
 11 State Of Minnesota Has Just Handed Over FULL C...  
 66 Manager killed 10 employees at checkers on 183...  
 70 Paul Ryan: "Donald Trump Plans To Resign From ...  
 124 Australia Becomes First Country To Begin Micro...  
 129 "Trump Has The Legal Right To Cancel SCOTUS Be...  
 143 The Democrat James Comey Has Been Having An Af...  
 150 War on Christmas Obama orders ban on Christmas...  
 151 "White People Have Suffered More In The Last 8...  
 165 Paul Ryan: "22 Million Americans Choose To Be ...  
 175 Obama Goes To G20 Summit  
 180 CNN Host Fareed Zakaria Calls For Jihad Rape O...  
 181 White House Chef Quits Because Trump Has Only ...  
 196 Oscar Pistorious commits suicide in Prison - C...  
 207 "The 2nd Amendment Was Written Before Guns Wer...  
 208 A Hollywood Star Is Moving To Canada Because O...  
 217 Russian Mansions Obama Seized Were Meant To Be...  
 236 Barack Obama Tweets SICK Attack On John McCain...  
 248 Breaking Crew Of Air Force One Refuses To Fly ...  
 249 Wasserman Schultz Going To Mental Hospital Aft...  
 253 ELECTORAL COLLEGE ELECTOR COMMITS SUICIDE TO A...  
 259 Donald Trump Dead From A Fatal HEART ATTACK!  
 264 "Koran And Holy Bible Are The Same"  
 266 Mom applies a remedy to her baby, moments late...  
 274 Bill Murray Had This to Say About Rochester, N...  
 276 WE WILL RIOT Michelle Obama's Mom Will Receive...  
 ...  
 1432 Donald Trump to issue an executive order to ba...  
 1433 BREAKING NEWS Sarah Palin In A Coma After Hit ...  
 1434 Conservative Icon Ted Nugent Killed In Hunting...  
 1444 Lindsey Graham threatens to convert to Democra...  
 1445 Bill O'Reilly In Critical Condition After Bein...  
 1468 BREAKING Clinton Foundation Ordered To Cease O...  
 1469 BREAKING NEWS: Road racing cyclist Lance Armst...  
 1474 Fox Star Tucker Carlson In Critical Condition ...  
 1503 Pence: "Michelle Obama Is The Most Vulgar Firs...  
 1513 FBI Uncovers Evidence That 62 Million Trump Vo...  
 1519 JEFFERSON DAVIS STATUE TO BE REPLACED WITH OBA...  
 1583 Family's private investigator: There is eviden...  
 1588 Donald Trump Praises Colonel Sanders for His S...  
 1634 NASA Will Pay You \$18,000 To Stay In Bed And S...  
 2083 COMEY KNEW MURDERED DNC STAFFER, SETH RICH, WA...  
 2097 Obama Canceled It, Trump Reinstated It - A Ver...  
 2099 Trump Gives Chaffetz The Thumbs Up For Investi...  
 2107 "Rape Victims Should Be In Custody If There Is...  
 2121 Monica Lewinsky Found Dead In Roslindale - Fre...  
 2127 Sarah Palin Calls To Boycott Mall Of America B...

```

2137             Trump Removing Marines From the Navy
2151     Edward Snowden: Osama Bin Laden is Still Alive...
2152     Keanu Reeves Shock The World With Another Powe...
2165     The DEA Just Raided A United States Senator-De...
2183     NASA Confirms Earth Will Experience 15 Days Of...
2184     Democrat Maxine Waters Has Shown Up To Only 10...
2198     Liberal Women Hate Me Because Of My "Striking ...
2538     Cannibals Arrested in Florida Claim Eating Hum...
2545     Libtard Hero Al Franken Forced To Resign In Di...
2555     Chinese Lunar Rover Finds No Evidence Of Ameri...
Name: title, Length: 119, dtype: object

```

```
In [558]: polif.loc[:, "url"]
```

```

Out[558]: 0      http://usasnich.com/breaking-putin-interferenc...
           (http://usasnich.com/breaking-putin-interferenc...)
2      http://freedomcrossroads.us/breaking-barrels-r...
           (http://freedomcrossroads.us/breaking-barrels-r...)
8                                             NaN
9                                             NaN
10     http://snoopack.com/2017/06/24/breaking-johnny...
           (http://snoopack.com/2017/06/24/breaking-johnny...)
11     https://politicalmayhem.news/state-minnesota-j...
           (https://politicalmayhem.news/state-minnesota-j...)
66     http://channel24news.com/2017/06/manager-kille...
           (http://channel24news.com/2017/06/manager-kille...)
70     http://stgeorgegazette.com/trump-plans-to-resi...
           (http://stgeorgegazette.com/trump-plans-to-resi...)
124    http://nativestuff.us/2017/06/australia-become...
           (http://nativestuff.us/2017/06/australia-become...)
129    http://uspoln.com/2017/06/21/spicer-trump-lega...
           (http://uspoln.com/2017/06/21/spicer-trump-lega...)
143    http://freedomcrossroads.us/james-comey-affair...
           (http://freedomcrossroads.us/james-comey-affair...)
150                                             NaN
151    http://uspoln.com/2017/07/07/bachmann-white-pe...
           (http://uspoln.com/2017/07/07/bachmann-white-pe...)
165    http://politicot.com/paul-ryan-22-million-amer...
           (http://politicot.com/paul-ryan-22-million-amer...)
175    https://world-politicus.com/2017/07/08/obama-g...
           (https://world-politicus.com/2017/07/08/obama-g...)
180    http://teoinfo.com/2017/06/30/cnn-host-fareed-...
           (http://teoinfo.com/2017/06/30/cnn-host-fareed-...)
181    https://halfwaypost.com/2017/07/06/white-house...
           (https://halfwaypost.com/2017/07/06/white-house...)
196                                http://fb.me/4u3Pw8xq8
           (http://fb.me/4u3Pw8xq8)
207    http://redherald.com/gretchen-carlson-2nd-amen...
           (http://redherald.com/gretchen-carlson-2nd-amen...)
208    http://conservativearmy88.com/breaking-hollywo...

```

```

(http://conservativearmy88.com/breaking-hollywo...)
217      http://breaking.newsfeedhunter.com/russian-man...
(http://breaking.newsfeedhunter.com/russian-man...)
236      http://dailythings.world/2017/07/20/barack-oba...
(http://dailythings.world/2017/07/20/barack-oba...)
248                                             NaN
249      http://usadailynews24.com/wasserman-schultz-go...
(http://usadailynews24.com/wasserman-schultz-go...)
253      http://universepolitics.com/2016/12/19/elector...
(http://universepolitics.com/2016/12/19/elector...)
259      http://thenewyorkevening.com/index.php/2016/12...
(http://thenewyorkevening.com/index.php/2016/12...)
264      http://usasnich.com/pope-francis-to-followers-...
(http://usasnich.com/pope-francis-to-followers-...)
266      http://smag31.com/mom-applies-remedy-baby-mome...
(http://smag31.com/mom-applies-remedy-baby-mome...)
274      http://newsdaily12.com/rochester-new-hampshire...
(http://newsdaily12.com/rochester-new-hampshire...)
276                                             NaN
...
1432                                             NaN
1433                                             NaN
1434      http://thelastlineofdefense.org/ted-nugent-sho...
(http://thelastlineofdefense.org/ted-nugent-sho...)
1444                                             NaN
1445      http://newsfeedhunter.com/bill-oreilly-in-crit...
(http://newsfeedhunter.com/bill-oreilly-in-crit...)
1468                                             NaN
1469      http://fox-news24.com/breaking-news-road-racin... (http://fox-news24.com/breaking-news-road-racin...)
1474      http://weconservative.com/breaking/breaking-fo...
(http://weconservative.com/breaking/breaking-fo...)
1503      http://politicono.com/pence-michelle-obama-vul...
(http://politicono.com/pence-michelle-obama-vul...)
1513      https://uspoliticsinfo.com/2017/05/15/fbi-unco...
(https://uspoliticsinfo.com/2017/05/15/fbi-unco...)
1519      https://www.tdtalliance.com/jefferson-davis-st...
(https://www.tdtalliance.com/jefferson-davis-st...)
1583      http://www.fox5dc.com/news/local-news/25485233...
(http://www.fox5dc.com/news/local-news/25485233...)
1588      https://theredshtick.com/2017/05/02/donald-tru...
(https://theredshtick.com/2017/05/02/donald-tru...)
1634      http://thesoexchange.com/nasa-will-pay-you-18...
(http://thesoexchange.com/nasa-will-pay-you-18...)
2083      http://patriotcrier.com/1-6kk-0/
(http://patriotcrier.com/1-6kk-0/)
2097      http://theexaminer.site/2017/05/08/obama-cance...
(http://theexaminer.site/2017/05/08/obama-cance...)
2099      https://www.federalisttribune.com/2017/05/10/t...
(https://www.federalisttribune.com/2017/05/10/t...)

```

```

2107    http://uspoln.com/2017/05/23/rubio-rape-victim...
      (http://uspoln.com/2017/05/23/rubio-rape-victim...)
2121    http://freedomcrossroads.us/breaking-monica-le...
      (http://freedomcrossroads.us/breaking-monica-le...)
2127    http://politicono.com/palin-calls-boycott-mall...
      (http://politicono.com/palin-calls-boycott-mall...)
2137    http://blog.veterantv.net/trump-removing-marin...
      (http://blog.veterantv.net/trump-removing-marin...)
2151    http://www.antinews.in/edward-snowden-osama-bi...
      (http://www.antinews.in/edward-snowden-osama-bi...)
2152    http://bestthings.us/keanu-reeves-shock-the-wo...
      (http://bestthings.us/keanu-reeves-shock-the-wo...)
2165    http://newsfeedhunter.com/the-dea-just-raided-...
      (http://newsfeedhunter.com/the-dea-just-raided-...)
2183                                         NaN
2184    https://teddystick.com/democrat-maxine-waters-...
      (https://teddystick.com/democrat-maxine-waters-...)
2198    http://londonwebnews.com/2017/06/01/liberal-wo...
      (http://londonwebnews.com/2017/06/01/liberal-wo...)
2538    http://themiamigazette.com/cannibals-arrested-...
      (http://themiamigazette.com/cannibals-arrested-...)
2545    http://breakingtop.world/2017/06/15/libtard-he...
      (http://breakingtop.world/2017/06/15/libtard-he...)
2555    http://www.antinews.in/chinese-lunar-rover-fin...
      (http://www.antinews.in/chinese-lunar-rover-fin...)

```

Name: url, Length: 119, dtype: object

```

In [575]: pd.crosstab(index=polif["url"],      # Make a crosstab
                      columns="count")

```

Out[575]:

	col_0	count
	url	
	http://alternativemediasyndicate.com/2017/04/07/evangelical-leader-says-oppose-trump-punished-gay-child-2/	1
	http://amposts.com/starbucks-just-placed-trumps-photo-floor-every-customer-step/	1
	http://bestthings.us/keanu-reeves-shock-the-world-with-another-powerful-message/	1
	http://blog.veterantv.net/trump-removing-marines-from-the-navy	1
	http://breaking.newsfeedhunter.com/russian-mansions-obama-seized-were-meant-to-be-illegal-gifts-to-sasha-and-malia/	1
	http://breakingtop.world/2017/06/15/libtard-hero-al-franken-forced-resign-disgrace/	1
	http://channel24news.com/2017/06/manager-killed-10-employees-at-checkers-on-183st-and-27ave/	1
	http://cnnews3.com/hiv-virus-detected-walmart-bananas-10-year-old-boy-contracts-virus/	1

```
In [559]: polif.loc[:, "text"]
```

```
Out[559]: 0      BREAKING!\n\nLiberal rag Huffington Post is re...
2      Three women who all went missing in the mid-19...
8      On Monday, Bumble Bee Foods and 2 employees we...
9      Republican Rep. Trey Gowdy, who sits on the Ho...
10     Johnny Depp made a big mistake when he threate...
11     There is not a day that goes by that we don't ...
66     10:30 pm last night police received a call abo...
70     WASHINGTON, D.C. (AP) — At a press conference ...
124    Australia Becomes First Country To Begin Micro...
129    During a Monday press conference that media ou...
143    As we promised, Freedom Crossroads has just le...
150    Obama's military command will prevent delivery...
151    On Sunday, ex-Rep. Michelle Bachmann spoke wit...
165    House Speaker Paul Ryan (R-WI) this week dispu...
175    62.1k SHARES Share\n\nObama is a shadow presid...
180    Fareed Zakaria, CNN host of 'Foreign Affairs,'...
181    Following the recent resignation of Director o...
196    PRETORIA — South African Paralympic gold medal...
207    Gretchen Carlson is renewing her push for an A...
208    Many Hollywood celebrities announced that they...
217    Well, well, well...it looks like Obummer wasn't ...
236    Barack Obama is a sick human being unfit for a...
248    After eight years of flying to Chicago for Whi...
249    The biggest story this week was the arrest of ...
253    Detroit, MI | A Michigan elector, in a surge o...
259    Donald Trump was pronounced dead this morning ...
264    On Monday the Bishop Of Rome addressed Catholi...
266    It might be hard to believe, after all, many o...
274    ROCHESTER, New Hampshire — During a radio inte...
276    \r\nThis amount of corruption is a next level ...

...

1432   Year 2017 does not seem to be going well for t...
1433   It seems as though there may be more than the ...
1434   Join America's Last Line of Defense And Share ...
1444   During a time when the Republican Party's pres...
1445   Bill O'Reilly was reportedly minding his own b...
1468   As we know, Clinton Foundation has been given ...
1469   American former professional road racing cycli...
1474   1.1k SHARES Share Tweet\n\nAccording to Americ...
1503   Mike Pence said he didn't understand why Miche...
1513   \n\nAnonymous sources within the FBI have reve...
1519   Workers in New Orleans dismantled the city's J...
1583   Seth Rich Seth Rich\n\n- EDITOR'S NOTE (5/17/1...
1588   Fresh off his gaffe involving President Andrew...
1634   We all get lazy from time to time and just wan...
2083   HERE Is WHAT WILL HAPPEN If The DEEP STATE TAK...
2097   According to guerilla:\n\nObama Canceled It, T...
2099   President Donald Trump has finally given Congr...
```

```

2107 At a campaign town hall event at St. Anselm Co...
2121 Monica Lewinsky was having a visit with a frie...
2127 The announcement that Mall of America was welc...
2137 {% set baseFontFamily = "Open Sans" %} /* Add ...
2151 Edward Snowden: Osama Bin Laden is Still Alive...
2152 Other than acting, Keanu's wisdom towards life...
2165 The DEA just raided the vacation ranch of Demo...
2183 There have been many reports about the changes...
2184 Maxine Waters (D-CA) is one of the most unplea...
2198 Kellyanne Conway, counselor to President Trump...
2538 Police in Vernal Heights, Florida, arrested 3-...
2545 Libtard Democrat Al Franken will resign his se...
2555 Chinese Lunar Rover Finds No Evidence Of Ameri...
Name: text, Length: 119, dtype: object

```

```
In [560]: polif.loc[:, "source"]
```

```

Out[560]: 0          http://usasnich.com (http://usasnich.com)
          2          http://freedomcrossroads.us
          (http://freedomcrossroads.us)
          8          NaN
          9          NaN
          10         http://snoopack.com (http://snoopack.com)
          11         https://politicalmayhem.news
          (https://politicalmayhem.news)
          66         http://channel24news.com (http://channel24news.com)
          70         http://stgeorgegazette.com
          (http://stgeorgegazette.com)
          124        http://nativestuff.us (http://nativestuff.us)
          129        http://uspoln.com (http://uspoln.com)
          143        http://freedomcrossroads.us
          (http://freedomcrossroads.us)
          150        NaN
          151        http://uspoln.com (http://uspoln.com)
          165        http://politicot.com (http://politicot.com)
          175        https://world-politicus.com (https://world-politicus.co
          m)
          180        http://teoinfo.com (http://teoinfo.com)
          181        https://halfwaypost.com (https://halfwaypost.com)
          196        http://fb.me (http://fb.me)
          207        http://redherald.com (http://redherald.com)
          208        http://conservativearmy88.com
          (http://conservativearmy88.com)
          217        http://breaking.newsfeedhunter.com
          (http://breaking.newsfeedhunter.com)
          236        http://dailythings.world (http://dailythings.world)
          248        NaN
          249        http://usadailynews24.com (http://usadailynews24.com)
          253        http://universepolitics.com
          (http://universepolitics.com)

```



```

259          http://thenewyorkevening.com
(http://thenewyorkevening.com)
264          http://usasnich.com (http://usasnich.com)
266          http://smag31.com (http://smag31.com)
274          http://newsdaily12.com (http://newsdaily12.com)
276          NaN
...
1432          NaN
1433          NaN
1434          http://thelastlineofdefense.org
(http://thelastlineofdefense.org)
1444          NaN
1445          http://newsfeedhunter.com (http://newsfeedhunter.com)
1468          NaN
1469          http://fox-news24.com (http://fox-news24.com)
1474          http://weconservative.com (http://weconservative.com)
1503          http://politicono.com (http://politicono.com)
1513          https://uspoliticsinfo.com
(https://uspoliticsinfo.com)
1519          https://www.tdtalliance.com
(https://www.tdtalliance.com)
1583          http://www.fox5dc.com (http://www.fox5dc.com)
1588          https://theredshtick.com (https://theredshtick.com)
1634          http://thesolexchange.com (http://thesolexchange.com)
2083          http://patriotcrier.com (http://patriotcrier.com)
2097          http://theexaminer.site (http://theexaminer.site)
2099          https://www.federalisttribune.com
(https://www.federalisttribune.com)
2107          http://uspoln.com (http://uspoln.com)
2121          http://freedomcrossroads.us
(http://freedomcrossroads.us)
2127          http://politicono.com (http://politicono.com)
2137          http://blog.veterantv.net (http://blog.veterantv.net)
2151          http://www.antinews.in (http://www.antinews.in)
2152          http://bestthings.us (http://bestthings.us)
2165          http://newsfeedhunter.com (http://newsfeedhunter.com)
2183          NaN
2184          https://teddystick.com (https://teddystick.com)
2198          http://londonwebnews.com (http://londonwebnews.com)
2538          http://themiamigazette.com
(http://themiamigazette.com)
2545          http://breakingtop.world (http://breakingtop.world)
2555          http://www.antinews.in (http://www.antinews.in)
Name: source, Length: 119, dtype: object

```

```

In [564]: pd.crosstab(index=polif["source"],          # Make a crosstab
                      columns="count")

```

Out[564]:

```
col_0  count
```

source	
<a href="http://alternativemediasyndicate.com">http://alternativemediasyndicate.com</a>	1
<a href="http://amposts.com">http://amposts.com</a>	1
<a href="http://bestthings.us">http://bestthings.us</a>	1
<a href="http://blog.veterantv.net">http://blog.veterantv.net</a>	1
<a href="http://breaking.newsfeedhunter.com">http://breaking.newsfeedhunter.com</a>	1
<a href="http://breakingtop.world">http://breakingtop.world</a>	1
<a href="http://channel24news.com">http://channel24news.com</a>	1
<a href="http://cnnews3.com">http://cnnews3.com</a>	1
<a href="http://conservative-headlines.com">http://conservative-headlines.com</a>	1
<a href="http://conservativearmy88.com">http://conservativearmy88.com</a>	1
<a href="http://dailysnark.com">http://dailysnark.com</a>	1
<a href="http://dailythings.world">http://dailythings.world</a>	1
<a href="http://departedmedia.com">http://departedmedia.com</a>	2
<a href="http://donaldtrumppotus45.com">http://donaldtrumppotus45.com</a>	1
<a href="http://fb.me">http://fb.me</a>	1
<a href="http://fox-news24.com">http://fox-news24.com</a>	1
<a href="http://freedomcrossroads.us">http://freedomcrossroads.us</a>	3
<a href="http://ilovenativeamericans.us">http://ilovenativeamericans.us</a>	1
<a href="http://ladylibertysnews.com">http://ladylibertysnews.com</a>	1
<a href="http://londonwebnews.com">http://londonwebnews.com</a>	1
<a href="http://nativestuff.us">http://nativestuff.us</a>	1
<a href="http://news4everyday.com">http://news4everyday.com</a>	1
<a href="http://newsdaily12.com">http://newsdaily12.com</a>	1
<a href="http://newsfeedhunter.com">http://newsfeedhunter.com</a>	2
<a href="http://now8news.com">http://now8news.com</a>	1
<a href="http://patriotcrier.com">http://patriotcrier.com</a>	1
<a href="http://politicono.com">http://politicono.com</a>	2
<a href="http://politicot.com">http://politicot.com</a>	2
<a href="http://proudleader.com">http://proudleader.com</a>	1
<a href="http://realnewsrightnow.com">http://realnewsrightnow.com</a>	1

...	...
<a href="http://universepolitics.com">http://universepolitics.com</a>	1
<a href="http://usa-radio.com">http://usa-radio.com</a>	1
<a href="http://usadailynews24.com">http://usadailynews24.com</a>	1
<a href="http://usadailytime.com">http://usadailytime.com</a>	1
<a href="http://usasnich.com">http://usasnich.com</a>	2
<a href="http://uspoln.com">http://uspoln.com</a>	6
<a href="http://uspostman.com">http://uspostman.com</a>	1
<a href="http://viraldevil.com">http://viraldevil.com</a>	1
<a href="http://walkwithher.com">http://walkwithher.com</a>	1
<a href="http://wbn12.com">http://wbn12.com</a>	1
<a href="http://weconservative.com">http://weconservative.com</a>	1
<a href="http://www.americanpoliticnews.com">http://www.americanpoliticnews.com</a>	1
<a href="http://www.antinews.in">http://www.antinews.in</a>	2
<a href="http://www.blackinsurancenews.com">http://www.blackinsurancenews.com</a>	1
<a href="http://www.empiresports.co">http://www.empiresports.co</a>	1
<a href="http://www.floridasunpost.com">http://www.floridasunpost.com</a>	1
<a href="http://www.fox5dc.com">http://www.fox5dc.com</a>	1
<a href="http://www.learnprogress.org">http://www.learnprogress.org</a>	1
<a href="http://www.neonnettle.com">http://www.neonnettle.com</a>	1
<a href="http://www.theverge.com">http://www.theverge.com</a>	1
<a href="http://www.usafirstinformation.com">http://www.usafirstinformation.com</a>	1
<a href="https://halfwaypost.com">https://halfwaypost.com</a>	1
<a href="https://obnoxiousstelevision.com">https://obnoxiousstelevision.com</a>	1
<a href="https://politicalmayhem.news">https://politicalmayhem.news</a>	1
<a href="https://teddystick.com">https://teddystick.com</a>	1
<a href="https://theredshtick.com">https://theredshtick.com</a>	1
<a href="https://uspoliticsinfo.com">https://uspoliticsinfo.com</a>	1
<a href="https://world-politicus.com">https://world-politicus.com</a>	1
<a href="https://www.federalisttribune.com">https://www.federalisttribune.com</a>	1
<a href="https://www.tdtalliance.com">https://www.tdtalliance.com</a>	1

72 rows × 1 columns

In [561]: `polif.loc[:, "canonical_link"]`

```

Out[561]: 0      http://usasnich.com/breaking-putin-interferenc...
           (http://usasnich.com/breaking-putin-interferenc...)
2      http://freedomjunkshun.com/breaking-barrels-re...
           (http://freedomjunkshun.com/breaking-barrels-re...)
8                                             NaN
9                                             NaN
10     http://snoopack.com/2017/06/24/breaking-johnny...
           (http://snoopack.com/2017/06/24/breaking-johnny...)
11     https://politicalmayhem.news/state-minnesota-j...
           (https://politicalmayhem.news/state-minnesota-j...)
66     http://channel24news.com/2017/06/manager-kille...
           (http://channel24news.com/2017/06/manager-kille...)
70     http://stgeorgegazette.com/trump-plans-to-resi...
           (http://stgeorgegazette.com/trump-plans-to-resi...)
124    http://nativestuff.us/2017/06/australia-become...
           (http://nativestuff.us/2017/06/australia-become...)
129    http://uspoln.com/2017/06/21/spicer-trump-lega...
           (http://uspoln.com/2017/06/21/spicer-trump-lega...)
143    http://freedomjunkshun.com/james-comey-affair-...
           (http://freedomjunkshun.com/james-comey-affair-...)
150                                             NaN
151    http://uspoln.com/2017/07/07/bachmann-white-pe...
           (http://uspoln.com/2017/07/07/bachmann-white-pe...)
165    http://politicot.com/paul-ryan-22-million-amer...
           (http://politicot.com/paul-ryan-22-million-amer...)
175    https://world-politicus.com/2017/07/08/obama-g...
           (https://world-politicus.com/2017/07/08/obama-g...)
180    http://teoinfo.com/2017/06/30/cnn-host-fareed-...
           (http://teoinfo.com/2017/06/30/cnn-host-fareed-...)
181    https://halfwaypost.com/2017/07/06/white-house...
           (https://halfwaypost.com/2017/07/06/white-house...)
196    http://city-herald.com/breaking-news-oscar-pis...
           (http://city-herald.com/breaking-news-oscar-pis...)
207    http://redherald.com/gretchen-carlson-2nd-amen...
           (http://redherald.com/gretchen-carlson-2nd-amen...)
208    http://conservativearmy88.com/breaking-hollywo...
           (http://conservativearmy88.com/breaking-hollywo...)
217    http://breaking.newsfeedhunter.com/russian-man...
           (http://breaking.newsfeedhunter.com/russian-man...)
236    http://dailythings.world/2017/07/20/barack-oba...
           (http://dailythings.world/2017/07/20/barack-oba...)
248                                             NaN
249    http://usadailynews24.com/wasserman-schultz-go...
           (http://usadailynews24.com/wasserman-schultz-go...)
253    http://universepolitics.com/2016/12/19/elector...
           (http://universepolitics.com/2016/12/19/elector...)

```

```

259      http://thenewyorkevening.com/2016/12/19/donald...
(http://thenewyorkevening.com/2016/12/19/donald...)
264      http://usasnich.com/pope-francis-to-followers-...
(http://usasnich.com/pope-francis-to-followers-...)
266      http://smag31.com/mom-applies-remedy-baby-mome...
(http://smag31.com/mom-applies-remedy-baby-mome...)
274      http://newsdaily12.com/rochester-new-hampshire...
(http://newsdaily12.com/rochester-new-hampshire...)
276                                             NaN

...
1432                                             NaN
1433                                             NaN
1434      http://thelastlineofdefense.org/ted-nugent-sho...
(http://thelastlineofdefense.org/ted-nugent-sho...)
1444                                             NaN
1445      http://newsfeedhunter.com/bill-oreilly-in-crit...
(http://newsfeedhunter.com/bill-oreilly-in-crit...)
1468                                             NaN
1469      http://fox-news24.com/breaking-news-road-racin... (http://fox-
news24.com/breaking-news-road-racin...)
1474      http://weconservative.com/breaking/breaking-fo...
(http://weconservative.com/breaking/breaking-fo...)
1503      http://politicono.com/pence-michelle-obama-vul...
(http://politicono.com/pence-michelle-obama-vul...)
1513      https://uspoliticsinfo.com/2017/05/15/fbi-unco...
(https://uspoliticsinfo.com/2017/05/15/fbi-unco...)
1519      https://www.tdtalliance.com/jefferson-davis-st...
(https://www.tdtalliance.com/jefferson-davis-st...)
1583      http://www.fox5dc.com/news/local-news/25485233...
(http://www.fox5dc.com/news/local-news/25485233...)
1588      https://theredshtick.com/2017/05/02/donald-tru...
(https://theredshtick.com/2017/05/02/donald-tru...)
1634      http://thesolexchange.com/nasa-will-pay-you-18...
(http://thesolexchange.com/nasa-will-pay-you-18...)
2083      http://patriotcrier.com/1-6kk-0/
(http://patriotcrier.com/1-6kk-0/)
2097      http://theexaminer.site/2017/05/08/obama-cance...
(http://theexaminer.site/2017/05/08/obama-cance...)
2099      https://www.federalisttribune.com/2017/05/10/t...
(https://www.federalisttribune.com/2017/05/10/t...)
2107      http://uspoln.com/2017/05/23/rubio-rape-victim...
(http://uspoln.com/2017/05/23/rubio-rape-victim...)
2121      http://freedomjunkshun.com/breaking-monica-lew...
(http://freedomjunkshun.com/breaking-monica-lew...)
2127      http://politicono.com/palin-calls-boycott-mall...
(http://politicono.com/palin-calls-boycott-mall...)
2137      http://blog.veterantv.net/trump-removing-marin...
(http://blog.veterantv.net/trump-removing-marin...)
2151      http://www.antinews.in/edward-snowden-osama-bi...
(http://www.antinews.in/edward-snowden-osama-bi...)

```

```

2152    http://bestthings.us/keanu-reeves-shock-the-wo...
(http://bestthings.us/keanu-reeves-shock-the-wo...)
2165    http://newsfeedhunter.com/the-dea-just-raided-...
(http://newsfeedhunter.com/the-dea-just-raided-...)
2183                                         NaN
2184    https://teddystick.com/democrat-maxine-waters-...
(https://teddystick.com/democrat-maxine-waters-...)
2198    http://londonwebnews.com/2017/06/01/liberal-wo...
(http://londonwebnews.com/2017/06/01/liberal-wo...)
2538    http://themiamigazette.com/cannibals-arrested-...
(http://themiamigazette.com/cannibals-arrested-...)
2545    http://newsfeedpaper.press/2017/06/15/libtard-...
(http://newsfeedpaper.press/2017/06/15/libtard-...)
2555    http://www.antinews.in/chinese-lunar-rover-fin...
(http://www.antinews.in/chinese-lunar-rover-fin...)
Name: canonical_link, Length: 119, dtype: object

```

```

In [574]: pd.crosstab(index=polif["canonical_link"],      # Make a crosstab
                      columns="count")

```

Out[574]:

	col_0	count
canonical_link		
http://alternativemediasyndicate.org/2017/04/07/evangelical-leader-says-oppose-trump-punished-gay-child-2/		1
http://bestthings.us/keanu-reeves-shock-the-world-with-another-powerful-message/		1
http://blog.veterantv.net/trump-removing-marines-from-the-navy		1
http://breaking.newsfeedhunter.com/russian-mansions-obama-seized-were-meant-to-be-illegal-gifts-to-sasha-and-malia/		1
http://channel24news.com/2017/06/manager-killed-10-employees-at-checkers-on-183st-and-27ave/		1
http://city-herald.com/breaking-news-oscar-pistorious-commits-suicide-in-prison/		1
http://conservative-headlines.com/2015/03/south-african-firm-ordered-to-lay-off-3389-white-employees/		1
http://conservativearmy88.com/breaking-hollywood-star-moving-canada-president-trump/		1

```
In [562]: polif.info()
meta_data__generator
78 non-null object
meta_data__application-name
1 non-null object
meta_data__author
14 non-null object
meta_data__viewport
88 non-null object
canonical_link
88 non-null object
images__-
7 non-null object
title
119 non-null object
url
90 non-null object
movies__-
7 non-null object
publish_date__$date
82 non-null float64
```

```
In [563]: polif.loc[:, "meta_data__twitter__title"]
```

```
Out[563]: 0      BREAKING: PUTIN INTERFERENCE COULD GIVE COURTS...
2      BREAKING: Barrels Removed From Clinton Propert...
8                                             NaN
9                                             NaN
10     BREAKING: Johnny Depp Taken Into Custody By Se...
11     State Of Minnesota Has Just Handed Over FULL C...
66     Manager killed 10 employees at checkers on 183...
70                                             NaN
124     Australia Becomes First Country To Begin Micro...
129     Spicer: "Trump Has The Legal Right To Cancel S...
143     BREAKING: The Democrat James Comey Has Been Ha...
150                                             NaN
151     Bachmann: "White People Have Suffered More In ...
165                                             NaN
175     Obama Goes To G20 Summit
180                                             NaN
181                                             NaN
196                                             NaN
207     Gretchen Carlson: "The 2nd Amendment Was Writt...
208     BREAKING: A Hollywood Star Is Moving To Canada...
217     BUSTED: Russian Mansions Obama Seized Were Mea...
236     Barack Obama Tweets SICK Attack On John McCain...
248                                             NaN
249     Wasserman Schultz Going To Mental Hospital Aft...
253     ELECTORAL COLLEGE ELECTOR COMMITS SUICIDE TO A...
```

```

259         Donald Trump Dead From A Fatal HEART ATTACK!
264     Pope Francis To Followers: "Koran And Holy Bib...
266     Mom applies a remedy to her baby, moments late...
274     Bill Murray Had This to Say About Rochester, N...
276                                         NaN

...

1432                                         NaN
1433                                         NaN
1434                                         NaN
1444                                         NaN
1445     BREAKING: Bill O'Reilly In Critical Condition ...
1468                                         NaN
1469     BREAKING NEWS: Road racing cyclist Lance Armst...
1474     BREAKING: Fox Star Tucker Carlson In Critical ...
1503                                         NaN
1513     FBI Uncovers Evidence That 62 Million Trump Vo...
1519     JEFFERSON DAVIS STATUE TO BE REPLACED WITH OBA...
1583     Family's private investigator: There is eviden...
1588     Donald Trump Praises Colonel Sanders for His S...
1634                                         NaN
2083     BOMBSHELL: COMEY KNEW MURDERED DNC STAFFER, SE...
2097     Obama Canceled It, Trump Reinstated It – A Ver...
2099     Trump Gives Chaffetz The Thumbs Up For Investi...
2107     Rubio: "Rape Victims Should Be In Custody If T...
2121     BREAKING: Monica Lewinsky Found Dead In Roslin...
2127                                         NaN
2137         Trump Removing Marines From the Navy
2151     Edward Snowden: Osama Bin Laden is Still Alive...
2152                                         NaN
2165     The DEA Just Raided A United States Senator–De...
2183                                         NaN
2184     Democrat Maxine Waters Has Shown Up To Only 10...
2198     Liberal Women Hate Me Because Of My "Striking ...
2538     Cannibals Arrested in Florida Claim Eating Hum...
2545     Libtard Hero Al Franken Forced To Resign In Di...
2555     Chinese Lunar Rover Finds No Evidence Of Ameri...
Name: meta_data__twitter__title, Length: 119, dtype: object

```



In [603]: `polif.info()`

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 119 entries, 0 to 2555
Data columns (total 100 columns):
top_img
119 non-null object
text
119 non-null object
meta_data__shareaholic__site_name
119 non-null object
meta_data__shareaholic__language
119 non-null object
meta_data__shareaholic__url
119 non-null object
meta_data__shareaholic__article_author_name
119 non-null object
meta_data__shareaholic__image
119 non-null object
meta_data__shareaholic__site_id
119 non-null object
...
```

In [604]: *# Adding label to the data*  
`polif['fakeness'] = 1`

In [605]: `polif`

...ck.com/2017/06/24/breaking-johnny...	missing	1.49826e+12	
...ticalmayhem.news/state-minnesota-j...	missing	1.49836e+12	https:
...l24news.com/2017/06/manager-kille...	missing	1.49817e+12	htt
...rgegazette.com/trump-plans-to-resi...	missing	1.50138e+12	http

In [606]: `polif.info()`

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 119 entries, 0 to 2555
Columns: 101 entries, top_img to fakeness
dtypes: int64(1), object(100)
memory usage: 94.8+ KB
```

In [607]: `polif=polif.fillna('missing')`

In [608]: `polif`

Out[608]:

		top_img	text	meta_data__shareahol
0	http://usasnich.com/wp-content/uploads/2016/12...		BREAKING!\n\nLiberal rag Huffington Post is re...	
2	http://freedomjunkshun.com/wp-content/uploads/...		Three women who all went missing in the mid-19...	
8		missing	On Monday, Bumble Bee Foods and 2 employees we...	
9		missing	Republican Rep. Trey Gowdy, who sits on the Ho...	

In [616]: `#title feature of politifact`  
`polif.loc[:, 'title']`

```
Out[616]: 0      PUTIN INTERFERENCE COULD GIVE COURTS LEGAL RIG...
2      Barrels Removed From Clinton Property Containe...
8      Massive Bumble Bee Recall After 2 Employees Ad...
9      JUST IN TODAY Trey Gowdy Is The NEW DIRECTOR O...
10     BREAKING: Johnny Depp Taken Into Custody By Se...
11     State Of Minnesota Has Just Handed Over FULL C...
66     Manager killed 10 employees at checkers on 183...
70     Paul Ryan: "Donald Trump Plans To Resign From ...
124    Australia Becomes First Country To Begin Micro...
129    "Trump Has The Legal Right To Cancel SCOTUS Be...
143    The Democrat James Comey Has Been Having An Af...
150    War on Christmas Obama orders ban on Christmas...
151    "White People Have Suffered More In The Last 8...
```

165 Paul Ryan: "22 Million Americans Choose To Be ...  
 175 Obama Goes To G20 Summit  
 180 CNN Host Fareed Zakaria Calls For Jihad Rape O...  
 181 White House Chef Quits Because Trump Has Only ...  
 196 Oscar Pistorious commits suicide in Prison – C...  
 207 "The 2nd Amendment Was Written Before Guns Wer...  
 208 A Hollywood Star Is Moving To Canada Because O...  
 217 Russian Mansions Obama Seized Were Meant To Be...  
 236 Barack Obama Tweets SICK Attack On John McCain...  
 248 Breaking Crew Of Air Force One Refuses To Fly ...  
 249 Wasserman Schultz Going To Mental Hospital Aft...  
 253 ELECTORAL COLLEGE ELECTOR COMMITS SUICIDE TO A...  
 259 Donald Trump Dead From A Fatal HEART ATTACK!  
 264 "Koran And Holy Bible Are The Same"  
 266 Mom applies a remedy to her baby, moments late...  
 274 Bill Murray Had This to Say About Rochester, N...  
 276 WE WILL RIOT Michelle Obama's Mom Will Receive...  
 ...  
 1432 Donald Trump to issue an executive order to ba...  
 1433 BREAKING NEWS Sarah Palin In A Coma After Hit ...  
 1434 Conservative Icon Ted Nugent Killed In Hunting...  
 1444 Lindsey Graham threatens to convert to Democra...  
 1445 Bill O'Reilly In Critical Condition After Bein...  
 1468 BREAKING Clinton Foundation Ordered To Cease O...  
 1469 BREAKING NEWS: Road racing cyclist Lance Armst...  
 1474 Fox Star Tucker Carlson In Critical Condition ...  
 1503 Pence: "Michelle Obama Is The Most Vulgar Firs...  
 1513 FBI Uncovers Evidence That 62 Million Trump Vo...  
 1519 JEFFERSON DAVIS STATUE TO BE REPLACED WITH OBA...  
 1583 Family's private investigator: There is eviden...  
 1588 Donald Trump Praises Colonel Sanders for His S...  
 1634 NASA Will Pay You \$18,000 To Stay In Bed And S...  
 2083 COMEY KNEW MURDERED DNC STAFFER, SETH RICH, WA...  
 2097 Obama Canceled It, Trump Reinstated It – A Ver...  
 2099 Trump Gives Chaffetz The Thumbs Up For Investi...  
 2107 "Rape Victims Should Be In Custody If There Is...  
 2121 Monica Lewinsky Found Dead In Roslindale – Fre...  
 2127 Sarah Palin Calls To Boycott Mall Of America B...  
 2137 Trump Removing Marines From the Navy  
 2151 Edward Snowden: Osama Bin Laden is Still Alive...  
 2152 Keanu Reeves Shock The World With Another Powe...  
 2165 The DEA Just Raided A United States Senator-De...  
 2183 NASA Confirms Earth Will Experience 15 Days Of...  
 2184 Democrat Maxine Waters Has Shown Up To Only 10...  
 2198 Liberal Women Hate Me Because Of My "Striking ...  
 2538 Cannibals Arrested in Florida Claim Eating Hum...  
 2545 Libtard Hero Al Franken Forced To Resign In Di...  
 2555 Chinese Lunar Rover Finds No Evidence Of Ameri...  
 Name: title, Length: 119, dtype: object

```
In [617]: # Saving it for the future use
polif.to_csv("/Users/sonia/Downloads/finalyearproject/FakeNews_Clean_All_
```

```
In [621]: data
```

```
Out[621]:
```

	top_img	text	authors__001	meta_data
0	http://eaglerising.com/wp-content/uploads/2016...	Former President Bill Clinton and his Clinton ...	View All Posts	
28	http://eaglerising.com/wp-content/uploads/2016...	After collapsing just before trying to step in...	View All Posts	
55	http://addictinginfo.addictinginfoent.netdna-c...	Donald Trump is, well, deplorable. He's sugges...	John Prager	Addicting Knowledge
64	missing	Website is Down For Maintenance	missing	

```
In [622]: polif
```

url	movies__	publish_date__\$date	
ich.com/breaking-putin-interferenc...	missing	1.48148e+12	
mcrossroads.us/breaking-barrels-r...	missing	1.49799e+12	http://
missing	missing	missing	
missing	missing	missing	

In [ ]: