PublicationReadingLevelAnalysis

March 17, 2016

In [1]: from textstat.textstat import textstat

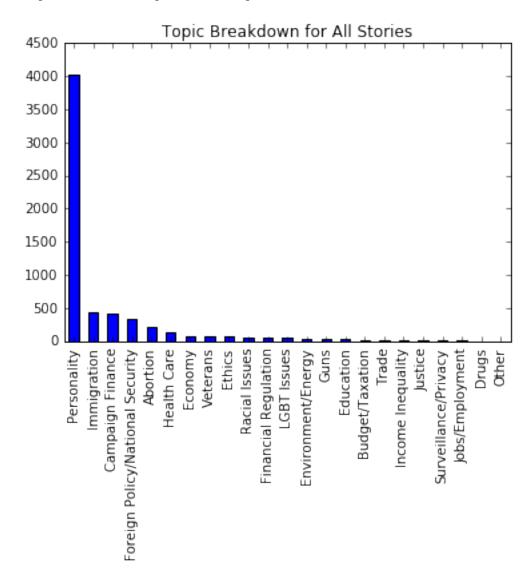
```
import csv
        import pandas
        import matplotlib
        #matplotlib.style.use('ggplot')
        %matplotlib inline
        import ast
In [2]: trump_df = pandas.read_csv('data/all_trump_w_topics.csv')
        trump_df['candidate'] = 'trump'
        clinton_df = pandas.read_csv('data/all_clinton_w_topics.csv')
        clinton_df['candidate'] = 'clinton'
        sanders_df = pandas.read_csv('data/all_sanders_w_topics.csv')
        sanders_df['candidate'] = 'sanders'
        cruz_df = pandas.read_csv('data/all_cruz_w_topics.csv')
        cruz_df['candidate'] = 'cruz'
        ORGS = ['nyt', 'wsj', 'cnn', 'fox', 'ap', 'reuters', 'politico', 'mcclatchy', 'buzzfeed', 'huff
In [3]: n = len(clinton_df)
        clinton_df.index = xrange(len(trump_df), (len(trump_df) + n))
        m = len(sanders_df)
        sanders_df.index = xrange(max(clinton_df.index), max(clinton_df.index) + m)
        c = len(cruz_df)
        cruz_df.index = xrange(max(sanders_df.index), max(sanders_df.index) + c)
In [4]: all_df = pandas.concat([trump_df,clinton_df, sanders_df, cruz_df])
        all_df['gunning_fog'] = all_df['body'].apply(lambda x: textstat.gunning_fog(x) if type(x) == st
        all_df['flesch'] = all_df['body'].apply(lambda x: textstat.flesch_kincaid_grade(x) if type(x) =
        all_df['readability'] = all_df['body'].apply(lambda x: textstat.flesch_reading_ease(x) if type(
    Convert topics to Dict and Filter by > 0.1
In [5]: all_df['topic_dict'] = all_df['topic'].apply(lambda d: ast.literal_eval(d))
        all_df['top_topics'] = all_df['topic_dict'].apply(lambda d: {k:v for k, v in d.iteritems() if v
        all_df['topic_list'] = all_df['top_topics'].apply(lambda d: d.keys())
        all_df['top_topic'] = all_df['topic_dict'].apply(lambda d: max(d, key=lambda i: d[i]))
    Breakdown of Story Topics
```

Health Care, Economy, Veterans, Ethics, Racial Issues

In [6]: all_df['top_topic'].value_counts().plot(kind="bar", title="Topic Breakdown for All Stories")

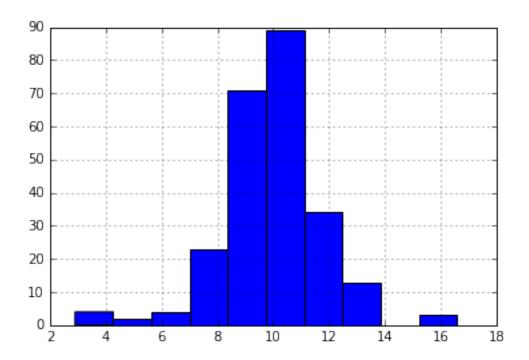
Top 10: Personality, Immigration, Campaign Finance, Foreign Policy/National Security, Abortio

Out[6]: <matplotlib.axes._subplots.AxesSubplot at 0x1041f2b10>

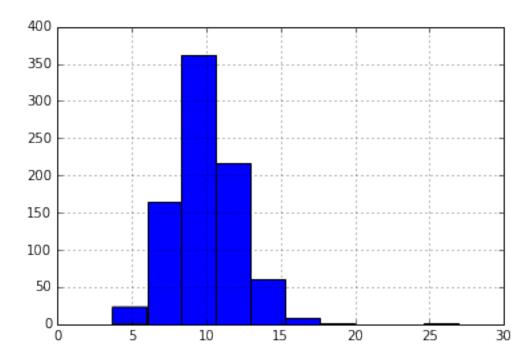


2.1 Average Reading Level Per Publication (Include All Stories)

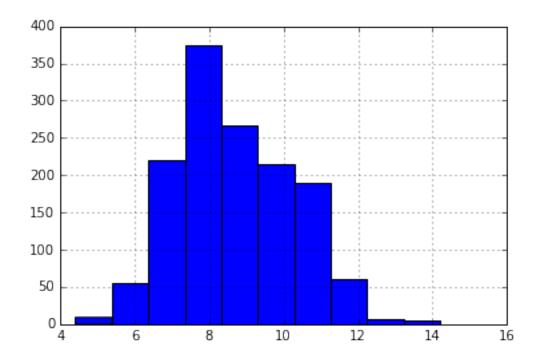
Flesch Score Dist for latimes Avg: 9.91



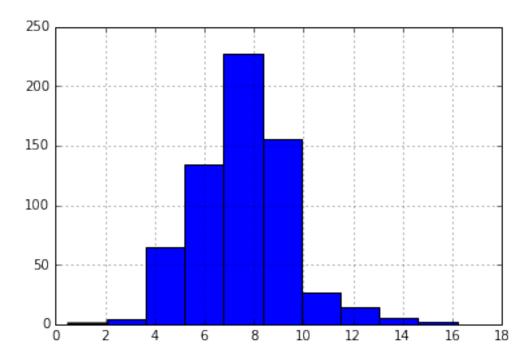
Flesch Score Dist for huffpo Avg: 9.83



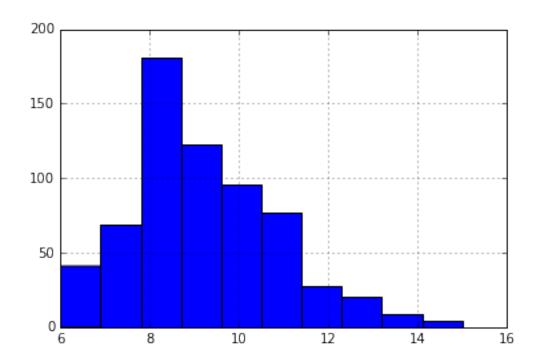
Flesch Score Dist for politico Avg: 8.69



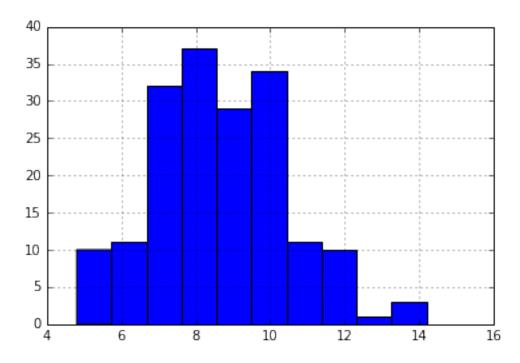
Flesch Score Dist for nyt Avg: 7.53



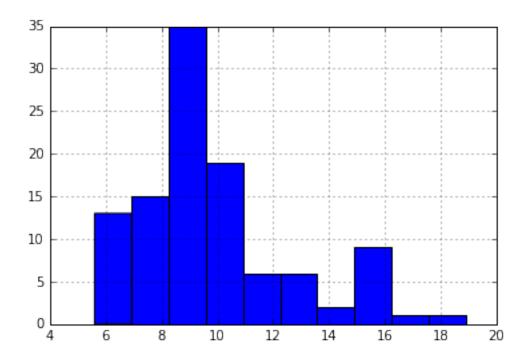
Flesch Score Dist for fox Avg: 9.25



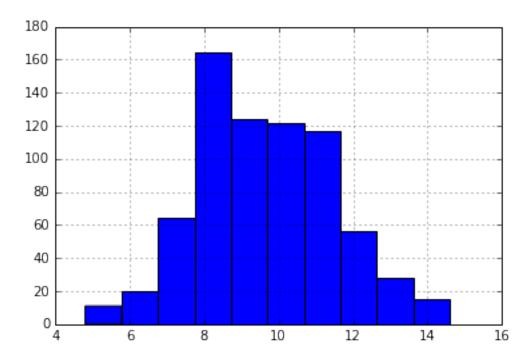
Flesch Score Dist for mcclatchy Avg: 8.64



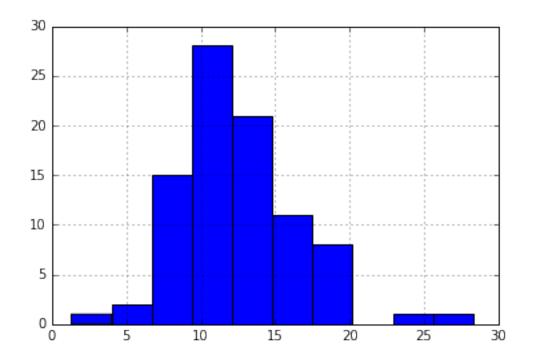
Flesch Score Dist for npr Avg: 9.87



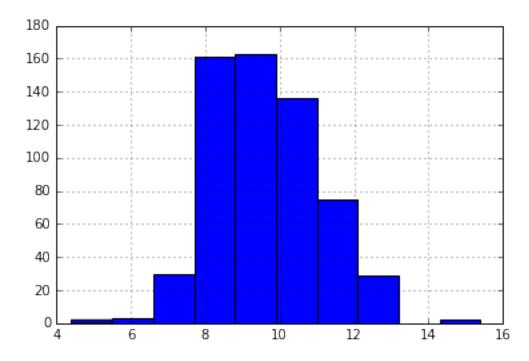
Flesch Score Dist for cnn Avg: 9.63



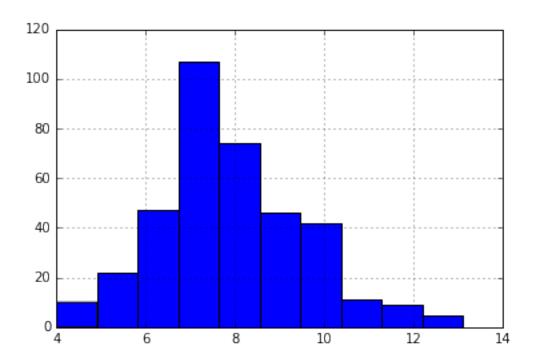
Flesch Score Dist for buzzfeed Avg: 12.35



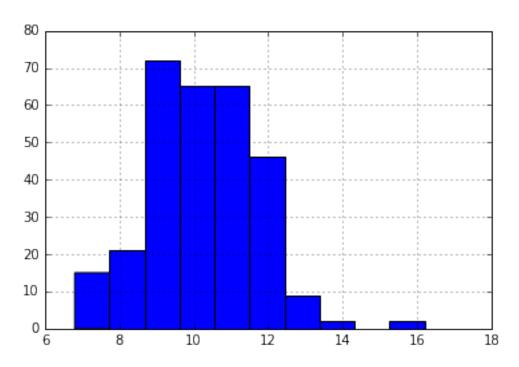
Flesch Score Dist for ap Avg: 9.62



Flesch Score Dist for wsj Avg: 7.90



Flesch Score Dist for reuters Avg: 10.17



2.2 Reading Level Per Publication Per Topic

```
In [23]: TOPICS = ['Immigration', 'Campaign Finance', 'Foreign Policy/National Security',
                  'Abortion', 'Health Care', 'Economy', 'Veterans', 'Ethics', 'Racial Issues', 'Financi
In [34]: for t in TOPICS:
            scores = []
            for o in ORGS:
                 scores.append((o, all_df[(all_df['top_topic'] == t) & (all_df['org'] == o)]['flesch'].
                               len(all_df[(all_df['org'] == o ) & (all_df['top_topic'] == t)])))
            scores.sort(key=lambda x: x[1], reverse=True)
            print "TOPIC", t
            for s in scores:
                print s[0], '%.2f' % s[1], "avg", "(", s[2], "stories )"
TOPIC Immigration
buzzfeed 12.39 avg (9 stories)
latimes 10.40 avg ( 27 stories )
reuters 10.22 avg (33 stories)
huffpo 10.04 avg (67 stories)
cnn 9.75 avg (63 stories)
ap 9.66 avg ( 33 stories )
fox 9.57 avg ( 56 stories )
npr 9.34 avg ( 7 stories )
mcclatchy 9.22 avg (23 stories)
politico 8.32 avg (35 stories)
wsj 7.69 avg ( 22 stories )
nyt 7.44 avg (70 stories)
TOPIC Campaign Finance
buzzfeed 16.62 avg (5 stories)
huffpo 10.74 avg ( 36 stories )
reuters 10.39 avg (17 stories)
cnn 10.09 avg ( 33 stories )
latimes 9.87 avg ( 16 stories )
fox 9.60 avg (32 stories)
npr 9.20 avg ( 2 stories )
ap 9.05 avg ( 33 stories )
politico 8.85 avg (125 stories)
mcclatchy 8.70 avg (7 stories)
wsj 7.73 avg ( 29 stories )
nyt 7.48 avg ( 87 stories )
TOPIC Foreign Policy/National Security
buzzfeed 13.52 avg (9 stories)
reuters 10.37 avg (6 stories)
npr 10.12 avg ( 4 stories )
cnn 9.95 avg (49 stories)
huffpo 9.90 avg (55 stories)
latimes 9.59 avg (7 stories)
ap 9.00 avg ( 33 stories )
```

wsj 8.75 avg (33 stories)

```
fox 8.64 avg (43 stories)
politico 8.53 avg (59 stories)
nyt 8.07 avg (30 stories)
mcclatchy 7.79 avg (9 stories)
TOPIC Abortion
buzzfeed 13.20 avg (6 stories)
latimes 10.97 avg (6 stories)
ap 10.70 avg ( 15 stories )
reuters 10.48 avg ( 9 stories )
cnn 10.07 avg ( 22 stories )
fox 9.88 avg (21 stories)
huffpo 9.75 avg ( 22 stories )
npr 9.10 avg ( 2 stories )
mcclatchy 9.05 avg (6 stories)
politico 8.42 avg (49 stories)
wsj 7.35 avg ( 18 stories )
nyt 7.19 avg (33 stories)
TOPIC Health Care
mcclatchy 12.23 avg ( 3 stories )
npr nan avg ( 0 stories )
buzzfeed 12.70 avg ( 1 stories )
ap 12.16 avg ( 7 stories )
latimes 11.17 avg (6 stories)
reuters 10.78 avg (5 stories)
fox 10.63 avg ( 19 stories )
politico 10.26 avg ( 15 stories )
huffpo 10.17 avg ( 26 stories )
wsj 9.22 avg (12 stories)
cnn 9.18 avg (21 stories)
nyt 7.96 avg (24 stories)
TOPIC Economy
mcclatchy nan avg ( 0 stories )
npr 18.90 avg (1 stories)
politico 10.70 avg (1 stories)
huffpo 10.50 avg ( 26 stories )
buzzfeed nan avg ( 0 stories )
ap 10.43 avg ( 6 stories )
reuters 10.12 avg ( 4 stories )
latimes 9.90 avg ( 2 stories )
cnn 9.10 avg (1 stories)
fox 8.83 avg ( 10 stories )
nyt 8.50 avg ( 8 stories )
wsj 8.45 avg ( 12 stories )
TOPIC Veterans
politico nan avg ( 0 stories )
buzzfeed 11.45 avg ( 2 stories )
reuters 10.88 avg (6 stories)
cnn 9.59 avg (14 stories)
ap 9.42 avg ( 10 stories )
mcclatchy 9.28 avg (5 stories)
```

```
latimes 9.10 avg (1 stories)
huffpo 9.07 avg (8 stories)
npr 8.55 avg (2 stories)
fox 8.12 avg ( 12 stories )
nyt 7.51 avg (8 stories)
wsj 7.20 avg (2 stories)
TOPIC Ethics
buzzfeed 18.10 avg ( 2 stories )
latimes 12.65 avg ( 2 stories )
cnn 11.63 avg ( 3 stories )
fox 11.55 avg ( 19 stories )
npr 11.27 avg ( 3 stories )
politico 10.71 avg ( 14 stories )
huffpo 10.64 avg ( 5 stories )
ap 10.06 avg ( 5 stories )
wsj 10.01 avg ( 9 stories )
mcclatchy 9.15 avg ( 2 stories )
reuters 8.70 avg (1 stories)
nyt 6.93 avg (3 stories)
TOPIC Racial Issues
fox 10.70 avg ( 4 stories )
huffpo 10.58 avg ( 26 stories )
npr nan avg ( 0 stories )
buzzfeed nan avg ( 0 stories )
reuters 11.10 avg ( 1 stories )
ap 10.30 avg ( 1 stories )
cnn 10.25 avg (11 stories)
politico 9.50 avg ( 4 stories )
latimes 9.35 avg ( 2 stories )
wsj 9.10 avg (1 stories)
nyt 7.91 avg (8 stories)
mcclatchy 7.20 avg ( 2 stories )
TOPIC Financial Regulation
latimes nan avg ( 0 stories )
huffpo 11.17 avg ( 10 stories )
fox 11.10 avg ( 1 stories )
mcclatchy 9.98 avg (5 stories)
npr nan avg ( 0 stories )
cnn 10.70 avg (2 stories)
nyt 9.53 avg (3 stories)
politico 9.20 avg (24 stories)
buzzfeed nan avg ( 0 stories )
ap nan avg ( 0 stories )
reuters 11.90 avg ( 4 stories )
wsj 8.48 avg ( 11 stories )
     Average Reading Level per Publication per Candidate Per Topic
In [46]: CANDIDATES = ['clinton', 'sanders', 'trump', 'cruz']
        for t in TOPICS:
```

print "TOPIC", t

```
for o in ORGS:
   print "ORG", o
   scores = []
   for c in CANDIDATES:
       scores.append((c,\
                    all_df[(all_df['top_topic'] == t) & \
                   (all_df['candidate'] == c) & \
                   (all_df['org'] == o)]['flesch'].mean(),\
                   len(all_df[(all_df['top_topic'] == t) & \
                   (all_df['candidate'] == c) & \
                   (all_df['org'] == o)])))
   scores.sort(key=lambda x: x[1], reverse=True)
   for s in scores:
       print s[0], 'AVG:','%.2f' % s[1], "COUNT:", s[2]
   print
```

```
TOPIC Immigration
ORG latimes
trump AVG: 10.58 COUNT: 22
clinton AVG: 10.30 COUNT: 1
sanders AVG: 10.30 COUNT: 1
cruz AVG: 9.13 COUNT: 3
ORG huffpo
sanders AVG: 10.63 COUNT: 6
clinton AVG: 10.62 COUNT: 4
cruz AVG: 9.94 COUNT: 9
trump AVG: 9.94 COUNT: 48
ORG politico
clinton AVG: 9.90 COUNT: 2
trump AVG: 8.24 COUNT: 19
cruz AVG: 8.23 COUNT: 13
sanders AVG: 7.90 COUNT: 1
ORG nyt
sanders AVG: 9.98 COUNT: 5
clinton AVG: 9.60 COUNT: 5
trump AVG: 7.30 COUNT: 40
```

cruz AVG: 6.55 COUNT: 20

ORG fox

clinton AVG: 9.50 COUNT: 2 sanders AVG: nan COUNT: 0 trump AVG: 9.76 COUNT: 37 cruz AVG: 9.17 COUNT: 17

ORG mcclatchy

clinton AVG: 10.70 COUNT: 1 sanders AVG: 10.70 COUNT: 1 trump AVG: 9.23 COUNT: 12 cruz AVG: 8.87 COUNT: 9

ORG npr

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
cruz AVG: 10.30 COUNT: 1
trump AVG: 9.18 COUNT: 6

ORG cnn

clinton AVG: 12.05 COUNT: 2 sanders AVG: 10.90 COUNT: 2 cruz AVG: 10.20 COUNT: 23 trump AVG: 9.28 COUNT: 36

ORG buzzfeed

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 13.50 COUNT: 6
cruz AVG: 10.17 COUNT: 3

ORG ap

sanders AVG: 10.10 COUNT: 2 cruz AVG: 9.89 COUNT: 12 trump AVG: 9.53 COUNT: 17 clinton AVG: 8.90 COUNT: 2

ORG wsj

sanders AVG: 9.10 COUNT: 1 clinton AVG: 8.40 COUNT: 1 cruz AVG: 7.80 COUNT: 6 trump AVG: 7.49 COUNT: 14

ORG reuters

clinton AVG: 10.70 COUNT: 2
sanders AVG: nan COUNT: 0
trump AVG: 10.29 COUNT: 27
cruz AVG: 9.53 COUNT: 4

TOPIC Campaign Finance

ORG latimes

cruz AVG: 10.90 COUNT: 4

sanders AVG: 10.12 COUNT: 4
clinton AVG: 9.84 COUNT: 5
trump AVG: 8.20 COUNT: 3

ORG huffpo

sanders AVG: 11.40 COUNT: 14 trump AVG: 10.97 COUNT: 11 clinton AVG: 10.31 COUNT: 7 cruz AVG: 8.53 COUNT: 4

ORG politico

trump AVG: 9.05 COUNT: 56 cruz AVG: 8.91 COUNT: 29 clinton AVG: 8.69 COUNT: 24 sanders AVG: 8.29 COUNT: 16

ORG nyt

clinton AVG: 8.73 COUNT: 15 sanders AVG: 8.19 COUNT: 16 cruz AVG: 7.09 COUNT: 20 trump AVG: 6.87 COUNT: 36

ORG fox

sanders AVG: 10.20 COUNT: 10 clinton AVG: 10.10 COUNT: 11 cruz AVG: 9.05 COUNT: 4 trump AVG: 8.29 COUNT: 7

ORG mcclatchy

clinton AVG: 9.15 COUNT: 4 sanders AVG: nan COUNT: 0 cruz AVG: 8.55 COUNT: 2 trump AVG: 7.20 COUNT: 1

ORG npr

clinton AVG: 9.20 COUNT: 1 sanders AVG: 9.20 COUNT: 1 trump AVG: nan COUNT: 0 cruz AVG: nan COUNT: 0

ORG cnn

sanders AVG: 10.60 COUNT: 5
cruz AVG: 10.30 COUNT: 12
trump AVG: 9.92 COUNT: 13
clinton AVG: 9.13 COUNT: 3

ORG buzzfeed

clinton AVG: 15.00 COUNT: 1
sanders AVG: nan COUNT: 0
trump AVG: 17.07 COUNT: 3
cruz AVG: 16.90 COUNT: 1

 $\mathtt{ORG}\ \mathtt{ap}$

clinton AVG: 10.40 COUNT: 7

sanders AVG: 9.38 COUNT: 6
trump AVG: 8.72 COUNT: 12
cruz AVG: 8.12 COUNT: 8

ORG wsj

sanders AVG: 8.07 COUNT: 9
clinton AVG: 8.03 COUNT: 8
cruz AVG: 7.57 COUNT: 8
trump AVG: 6.70 COUNT: 4

ORG reuters

clinton AVG: 10.90 COUNT: 4 sanders AVG: 10.83 COUNT: 3 cruz AVG: 10.83 COUNT: 3 trump AVG: 9.73 COUNT: 7

TOPIC Foreign Policy/National Security

ORG latimes

clinton AVG: 10.70 COUNT: 1
sanders AVG: 10.70 COUNT: 1
trump AVG: 9.14 COUNT: 5
cruz AVG: nan COUNT: 0

ORG huffpo

clinton AVG: 11.63 COUNT: 3 sanders AVG: 11.13 COUNT: 11 cruz AVG: 10.13 COUNT: 11 trump AVG: 9.19 COUNT: 30

ORG politico

cruz AVG: 8.83 COUNT: 15 clinton AVG: 8.79 COUNT: 12 sanders AVG: 8.53 COUNT: 11 trump AVG: 8.17 COUNT: 21

ORG nyt

trump AVG: 8.37 COUNT: 18 clinton AVG: 8.25 COUNT: 4 sanders AVG: 7.40 COUNT: 2 cruz AVG: 7.30 COUNT: 6

ORG fox

clinton AVG: 11.76 COUNT: 5 sanders AVG: 9.30 COUNT: 2 cruz AVG: 8.40 COUNT: 14 trump AVG: 8.02 COUNT: 22

ORG mcclatchy

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
cruz AVG: 8.75 COUNT: 4
trump AVG: 7.02 COUNT: 5

ORG npr

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 10.12 COUNT: 4
cruz AVG: nan COUNT: 0

ORG cnn

clinton AVG: 11.31 COUNT: 11 sanders AVG: 10.90 COUNT: 6 trump AVG: 9.48 COUNT: 21 cruz AVG: 8.98 COUNT: 11

ORG buzzfeed

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 13.73 COUNT: 8
cruz AVG: 11.90 COUNT: 1

ORG ap

clinton AVG: 9.62 COUNT: 4 sanders AVG: 9.25 COUNT: 4 cruz AVG: 9.03 COUNT: 7 trump AVG: 8.80 COUNT: 18

ORG wsj

clinton AVG: 10.16 COUNT: 5 sanders AVG: 9.40 COUNT: 3 cruz AVG: 8.55 COUNT: 6 trump AVG: 8.34 COUNT: 19

ORG reuters

clinton AVG: 10.70 COUNT: 1
sanders AVG: nan COUNT: 0
trump AVG: 10.40 COUNT: 4
cruz AVG: 9.90 COUNT: 1

TOPIC Abortion ORG latimes

sanders AVG: nan COUNT: 0
cruz AVG: 11.90 COUNT: 1
clinton AVG: 11.23 COUNT: 3
trump AVG: 10.10 COUNT: 2

ORG huffpo

clinton AVG: 11.10 COUNT: 4 sanders AVG: 10.57 COUNT: 3 trump AVG: 9.37 COUNT: 10 cruz AVG: 8.92 COUNT: 5

ORG politico

sanders AVG: 9.12 COUNT: 8 clinton AVG: 8.89 COUNT: 8 cruz AVG: 8.25 COUNT: 10

trump AVG: 8.08 COUNT: 23

ORG nyt

sanders AVG: 9.90 COUNT: 1 clinton AVG: 9.66 COUNT: 5 trump AVG: 6.83 COUNT: 18 cruz AVG: 6.22 COUNT: 9

ORG fox

clinton AVG: 11.10 COUNT: 2 sanders AVG: nan COUNT: 0 cruz AVG: 9.87 COUNT: 9 trump AVG: 9.64 COUNT: 10

ORG mcclatchy

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 9.10 COUNT: 2
cruz AVG: 9.03 COUNT: 4

ORG npr

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 9.10 COUNT: 2
cruz AVG: nan COUNT: 0

ORG cnn

clinton AVG: 12.90 COUNT: 3 sanders AVG: nan COUNT: 0 cruz AVG: 9.66 COUNT: 8 trump AVG: 9.59 COUNT: 11

ORG buzzfeed

clinton AVG: nan COUNT: 0 sanders AVG: nan COUNT: 0 cruz AVG: 13.33 COUNT: 3 trump AVG: 13.07 COUNT: 3

 $\mathtt{ORG}\ \mathtt{ap}$

trump AVG: 11.18 COUNT: 5 clinton AVG: 10.70 COUNT: 2 sanders AVG: 10.50 COUNT: 2 cruz AVG: 10.37 COUNT: 6

ORG wsj

clinton AVG: 7.80 COUNT: 2 sanders AVG: 7.80 COUNT: 2 trump AVG: 7.31 COUNT: 7 cruz AVG: 7.13 COUNT: 7

ORG reuters

clinton AVG: nan COUNT: 0 sanders AVG: nan COUNT: 0 trump AVG: 10.83 COUNT: 6

cruz AVG: 9.77 COUNT: 3

TOPIC Health Care

ORG latimes

clinton AVG: 13.10 COUNT: 1 trump AVG: 11.50 COUNT: 3 sanders AVG: 9.90 COUNT: 1 cruz AVG: 9.50 COUNT: 1

ORG huffpo

sanders AVG: 11.19 COUNT: 11
cruz AVG: 10.50 COUNT: 2
clinton AVG: 9.76 COUNT: 7
trump AVG: 8.67 COUNT: 6

ORG politico

clinton AVG: 10.52 COUNT: 5 sanders AVG: 10.34 COUNT: 7 cruz AVG: 9.70 COUNT: 2 trump AVG: 9.50 COUNT: 1

ORG nyt

sanders AVG: 8.51 COUNT: 7 trump AVG: 7.92 COUNT: 10 clinton AVG: 7.63 COUNT: 6 cruz AVG: 6.40 COUNT: 1

ORG fox

sanders AVG: 10.84 COUNT: 8 clinton AVG: 10.74 COUNT: 7 cruz AVG: 10.30 COUNT: 1 trump AVG: 9.93 COUNT: 3

ORG mcclatchy

clinton AVG: 13.40 COUNT: 1
sanders AVG: nan COUNT: 0
trump AVG: 11.65 COUNT: 2
cruz AVG: nan COUNT: 0

ORG npr

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG cnn

sanders AVG: 10.16 COUNT: 5 cruz AVG: 9.75 COUNT: 2 clinton AVG: 9.15 COUNT: 6 trump AVG: 8.44 COUNT: 8

ORG buzzfeed

clinton AVG: nan COUNT: 0

sanders AVG: 12.70 COUNT: 1
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG ap

clinton AVG: 12.65 COUNT: 2 sanders AVG: 12.53 COUNT: 3 trump AVG: 11.10 COUNT: 1 cruz AVG: 11.10 COUNT: 1

ORG wsj

sanders AVG: 9.50 COUNT: 2
trump AVG: 9.35 COUNT: 2
clinton AVG: 9.20 COUNT: 5
cruz AVG: 9.00 COUNT: 3

ORG reuters

sanders AVG: 12.30 COUNT: 1
trump AVG: 11.30 COUNT: 2
clinton AVG: 9.50 COUNT: 2
cruz AVG: nan COUNT: 0

TOPIC Economy ORG latimes

clinton AVG: nan COUNT: 0
sanders AVG: 9.90 COUNT: 1
trump AVG: 9.90 COUNT: 1
cruz AVG: nan COUNT: 0

ORG huffpo

sanders AVG: 11.03 COUNT: 10 clinton AVG: 10.70 COUNT: 5 trump AVG: 9.93 COUNT: 11 cruz AVG: nan COUNT: 0

ORG politico

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 10.70 COUNT: 1
cruz AVG: nan COUNT: 0

ORG nyt

sanders AVG: 10.70 COUNT: 1
trump AVG: 8.65 COUNT: 4
clinton AVG: 8.35 COUNT: 2
cruz AVG: 6.00 COUNT: 1

ORG fox

cruz AVG: 9.90 COUNT: 1 trump AVG: 8.84 COUNT: 5 clinton AVG: 8.55 COUNT: 2 sanders AVG: 8.55 COUNT: 2 ORG mcclatchy

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG npr

clinton AVG: 18.90 COUNT: 1
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG cnn

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 9.10 COUNT: 1
cruz AVG: nan COUNT: 0

ORG buzzfeed

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG ap

trump AVG: 11.10 COUNT: 1 cruz AVG: 11.10 COUNT: 1 clinton AVG: 10.30 COUNT: 1 sanders AVG: 10.03 COUNT: 3

ORG wsj

trump AVG: 9.43 COUNT: 4 clinton AVG: 8.35 COUNT: 2 sanders AVG: 7.88 COUNT: 4 cruz AVG: 7.75 COUNT: 2

ORG reuters

clinton AVG: 12.70 COUNT: 1
sanders AVG: 9.90 COUNT: 1
trump AVG: 8.95 COUNT: 2
cruz AVG: nan COUNT: 0

TOPIC Veterans ORG latimes

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 9.10 COUNT: 1
cruz AVG: nan COUNT: 0

ORG huffpo

clinton AVG: nan COUNT: 0 trump AVG: 9.33 COUNT: 6 sanders AVG: 8.30 COUNT: 2 cruz AVG: nan COUNT: 0

ORG politico

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG nyt

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 7.51 COUNT: 8
cruz AVG: nan COUNT: 0

ORG fox

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 8.23 COUNT: 10
cruz AVG: 7.60 COUNT: 2

ORG mcclatchy

clinton AVG: nan COUNT: 0 sanders AVG: nan COUNT: 0 cruz AVG: 9.50 COUNT: 1 trump AVG: 9.22 COUNT: 4

ORG npr

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 8.55 COUNT: 2
cruz AVG: nan COUNT: 0

ORG cnn

clinton AVG: nan COUNT: 0 sanders AVG: nan COUNT: 0 cruz AVG: 10.38 COUNT: 4 trump AVG: 9.28 COUNT: 10

ORG buzzfeed

clinton AVG: nan COUNT: 0 sanders AVG: nan COUNT: 0 trump AVG: 11.45 COUNT: 2 cruz AVG: nan COUNT: 0

ORG ap

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 9.76 COUNT: 9
cruz AVG: 6.40 COUNT: 1

ORG wsj

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 7.20 COUNT: 2

cruz AVG: nan COUNT: 0

ORG reuters

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 10.88 COUNT: 6
cruz AVG: nan COUNT: 0

TOPIC Ethics ORG latimes

clinton AVG: 12.65 COUNT: 2
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG huffpo

trump AVG: 12.70 COUNT: 1 sanders AVG: 11.90 COUNT: 1 clinton AVG: 9.53 COUNT: 3 cruz AVG: nan COUNT: 0

ORG politico

clinton AVG: 10.71 COUNT: 14
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG nyt

sanders AVG: 7.60 COUNT: 1
clinton AVG: 6.60 COUNT: 2
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG fox

sanders AVG: 11.70 COUNT: 4
clinton AVG: 11.69 COUNT: 14
trump AVG: nan COUNT: 0
cruz AVG: 9.10 COUNT: 1

ORG mcclatchy

clinton AVG: 9.15 COUNT: 2
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG npr

clinton AVG: 11.27 COUNT: 3
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG cnn

clinton AVG: 11.70 COUNT: 2

sanders AVG: 11.50 COUNT: 1
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG buzzfeed

clinton AVG: 18.10 COUNT: 1
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: 18.10 COUNT: 1

ORG ap

clinton AVG: 9.90 COUNT: 2
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: 10.17 COUNT: 3

ORG wsj

sanders AVG: 11.10 COUNT: 1
clinton AVG: 10.32 COUNT: 6
trump AVG: 9.50 COUNT: 1
cruz AVG: 7.60 COUNT: 1

ORG reuters

clinton AVG: 8.70 COUNT: 1
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

TOPIC Racial Issues

ORG latimes

clinton AVG: nan COUNT: 0
sanders AVG: 10.30 COUNT: 1
trump AVG: 8.40 COUNT: 1
cruz AVG: nan COUNT: 0

ORG huffpo

sanders AVG: 12.01 COUNT: 9 clinton AVG: 11.63 COUNT: 3 trump AVG: 9.49 COUNT: 13 cruz AVG: 8.70 COUNT: 1

ORG politico

clinton AVG: 10.50 COUNT: 2
sanders AVG: nan COUNT: 0
trump AVG: 8.50 COUNT: 2
cruz AVG: nan COUNT: 0

ORG nyt

cruz AVG: 8.35 COUNT: 2 trump AVG: 8.20 COUNT: 3 clinton AVG: 7.60 COUNT: 1 sanders AVG: 7.20 COUNT: 2 ORG fox

clinton AVG: nan COUNT: 0
sanders AVG: 11.90 COUNT: 2
trump AVG: 9.50 COUNT: 1
cruz AVG: 9.50 COUNT: 1

ORG mcclatchy

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 7.20 COUNT: 2
cruz AVG: nan COUNT: 0

ORG npr

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG cnn

clinton AVG: 11.10 COUNT: 3
sanders AVG: 10.33 COUNT: 3
trump AVG: 10.00 COUNT: 4
cruz AVG: 8.40 COUNT: 1

ORG buzzfeed

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG ap

clinton AVG: nan COUNT: 0
sanders AVG: 10.30 COUNT: 1
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG wsj

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: 9.10 COUNT: 1
cruz AVG: nan COUNT: 0

ORG reuters

clinton AVG: nan COUNT: 0 sanders AVG: nan COUNT: 0 trump AVG: 11.10 COUNT: 1 cruz AVG: nan COUNT: 0

TOPIC Financial Regulation

ORG latimes

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0

cruz AVG: nan COUNT: 0

ORG huffpo

clinton AVG: 11.67 COUNT: 4 sanders AVG: 10.86 COUNT: 5 trump AVG: 10.70 COUNT: 1 cruz AVG: nan COUNT: 0

ORG politico

sanders AVG: 10.80 COUNT: 4 clinton AVG: 9.44 COUNT: 5 cruz AVG: 9.23 COUNT: 7 trump AVG: 8.24 COUNT: 8

ORG nyt

clinton AVG: 9.53 COUNT: 3 sanders AVG: nan COUNT: 0 trump AVG: nan COUNT: 0 cruz AVG: nan COUNT: 0

ORG fox

clinton AVG: nan COUNT: 0
sanders AVG: 11.10 COUNT: 1
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG mcclatchy

clinton AVG: 10.30 COUNT: 2
sanders AVG: 9.90 COUNT: 2
trump AVG: 9.50 COUNT: 1
cruz AVG: nan COUNT: 0

ORG npr

clinton AVG: nan COUNT: 0 sanders AVG: nan COUNT: 0 trump AVG: nan COUNT: 0 cruz AVG: nan COUNT: 0

ORG cnn

clinton AVG: 10.70 COUNT: 1
sanders AVG: 10.70 COUNT: 1
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG buzzfeed

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG ap

clinton AVG: nan COUNT: 0
sanders AVG: nan COUNT: 0
trump AVG: nan COUNT: 0

cruz AVG: nan COUNT: 0

ORG wsj

sanders AVG: 8.57 COUNT: 6
clinton AVG: 8.38 COUNT: 5
trump AVG: nan COUNT: 0
cruz AVG: nan COUNT: 0

ORG reuters

clinton AVG: 12.30 COUNT: 1 sanders AVG: 11.77 COUNT: 3 trump AVG: nan COUNT: 0 cruz AVG: nan COUNT: 0

2.4