RecalcFleschForSurvey

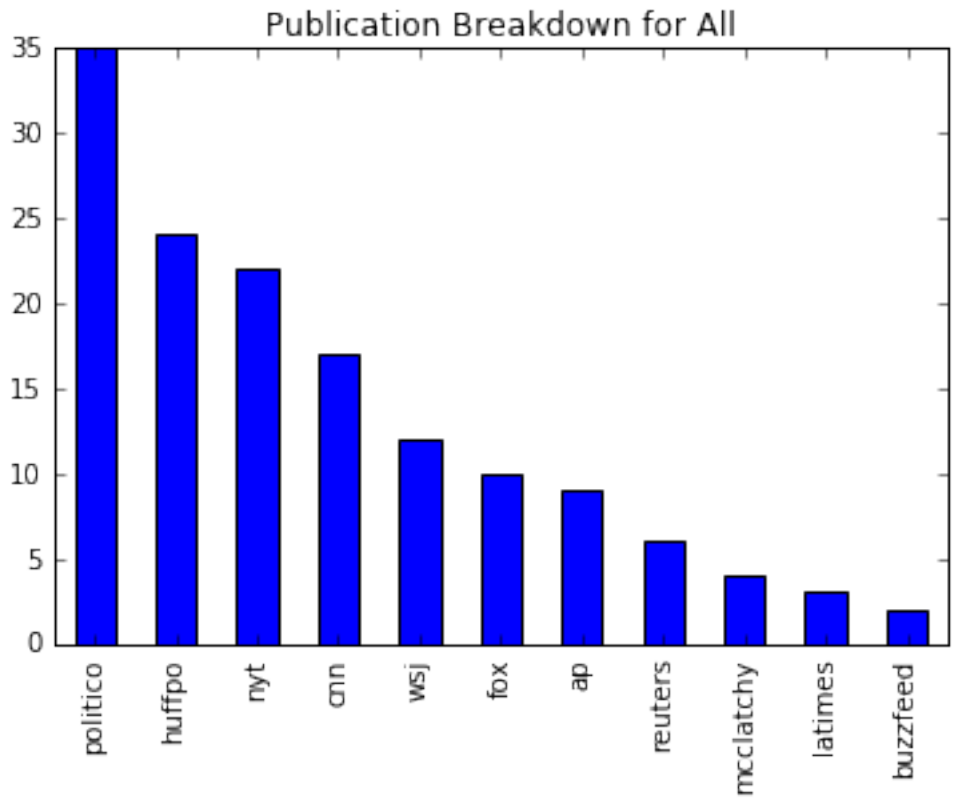
March 24, 2016

In [22]:
```
from textstat.textstat import textstat
import csv
import pandas
import matplotlib
#matplotlib.style.use('ggplot')
%matplotlib inline
import ast
pandas.options.display.max_colwidth = 10000
```

In [15]:
```
df = pandas.read_csv('data/SurveyReady/for_survey_cleaned_redacted_edited.csv')
print len(df)
df['org'].value_counts().plot(kind="bar", title="Publication Breakdown for All")
df.columns
```

```
144
```

Out[15]:
```
Index([u'Unnamed: 0', u'title', u'url', u'org', u'candidate', u'top_topic',
       u'flesch', u'body'],
      dtype='object')
```

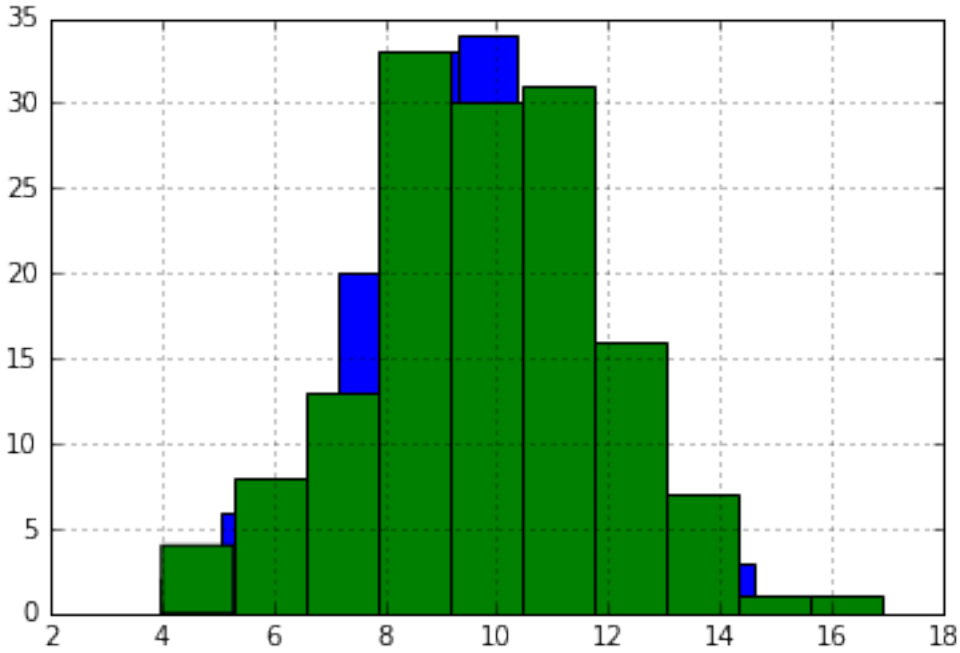


In [16]:
```
# recalculate Reading scores
df['gunning_fog'] = df['body'].apply(lambda x: textstat.gunning_fog(x) if type(x) == str else
df['flesch_new'] = df['body'].apply(lambda x: textstat.flesch_kincaid_grade(x) if type(x) == s
df['readability'] = df['body'].apply(lambda x: textstat.flesch_reading_ease(x) if type(x) == s
```

In [29]:
```
print "GREEN COLOR IS NEW"
df['flesch'].hist()
df['flesch_new'].hist()
```

```
GREEN COLOR IS NEW
```

Out[29]: <matplotlib.axes._subplots.AxesSubplot at 0x10a641490>



In [30]:
```
#df.to_csv('data/SurveyReady/for_survey_w_new_flesch.csv')
```

0.1 DATA CHECKS

1 Candidate & Topic Count

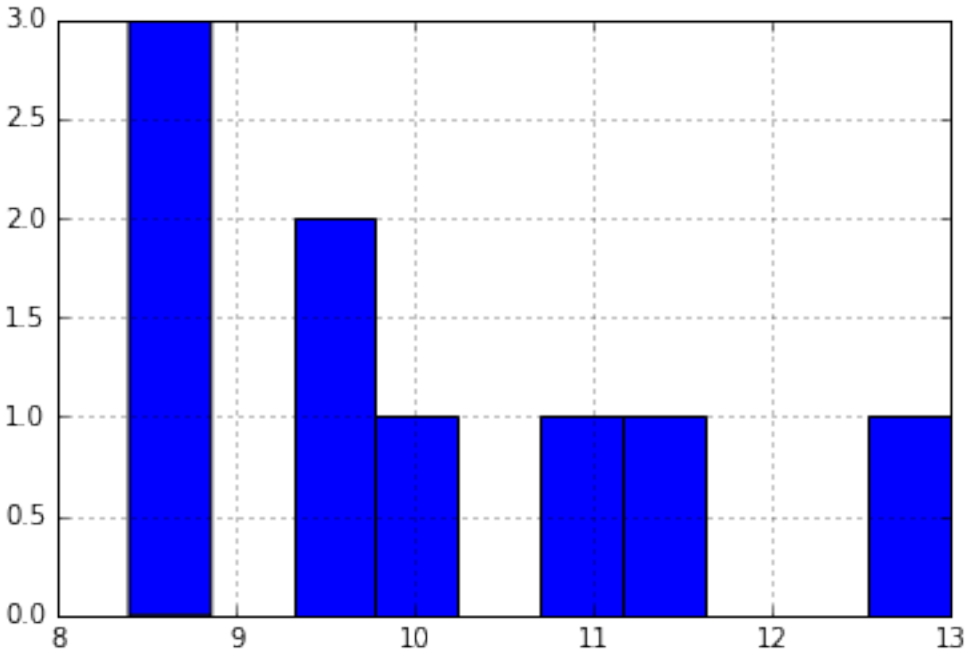
In [34]:
```
CANDIDATES = ['clinton', 'trump', 'cruz', 'sanders']
for c in CANDIDATES:
    print c, len(df[df['candidate'] == c])

print
TOPICS = ['Immigration', 'Campaign Finance', 'Foreign Policy/National Security','Abortion']
for t in TOPICS:
    print t, len(df[df['top_topic'] == t])
```

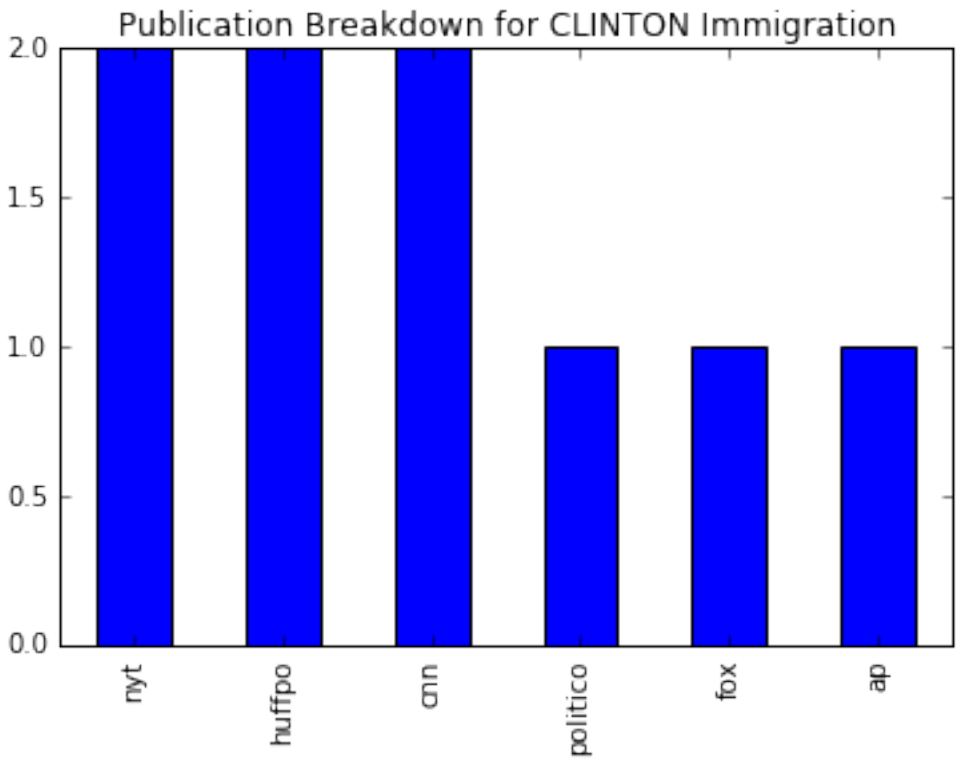
```
clinton 36
trump 36
cruz 36
sanders 36

Immigration 36
Campaign Finance 36
Foreign Policy/National Security 36
Abortion 36
```

1.1 Check Distributions

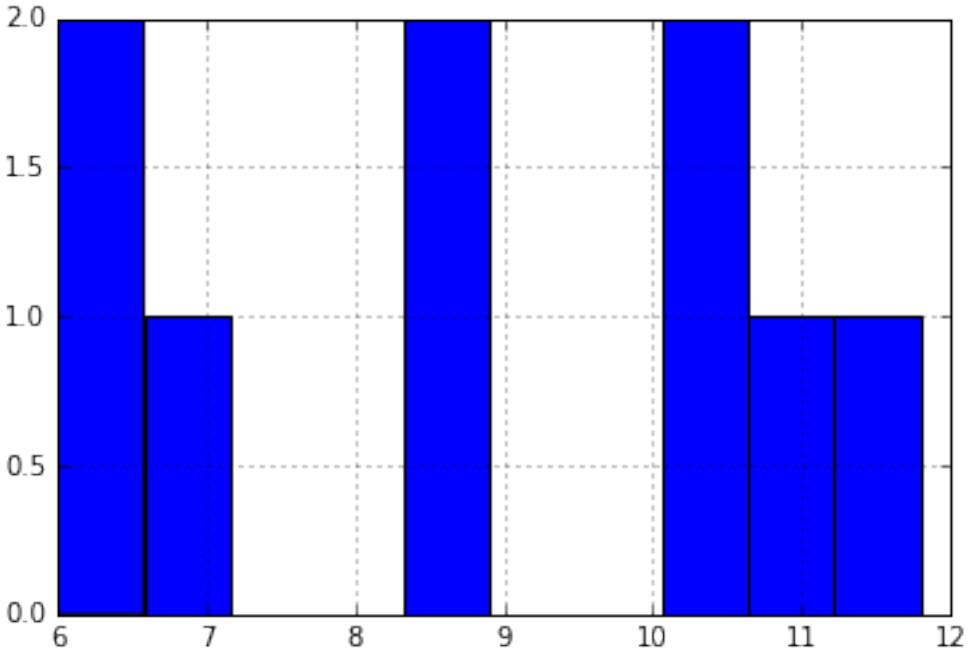
```
In [40]: for c in CANDIDATES:
             for t in TOPICS:
                 print "FLESCH FOR", c, t
                 df[(df['candidate'] == c) & (df['top_topic'] == t)]['flesch'].hist()
                 matplotlib.pyplot.show()
                 df[(df['candidate'] == c) & (df['top_topic'] == t)]['org'].value_counts().plot(kind="ba
                 matplotlib.pyplot.show()
```

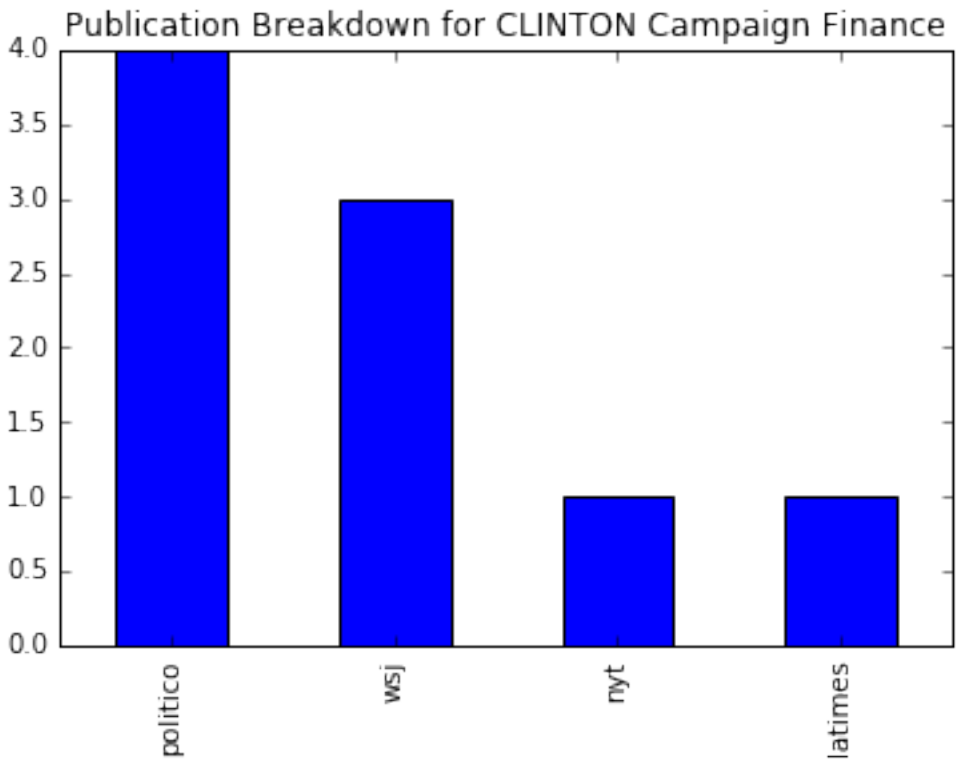
```
FLESCH FOR clinton Immigration
```



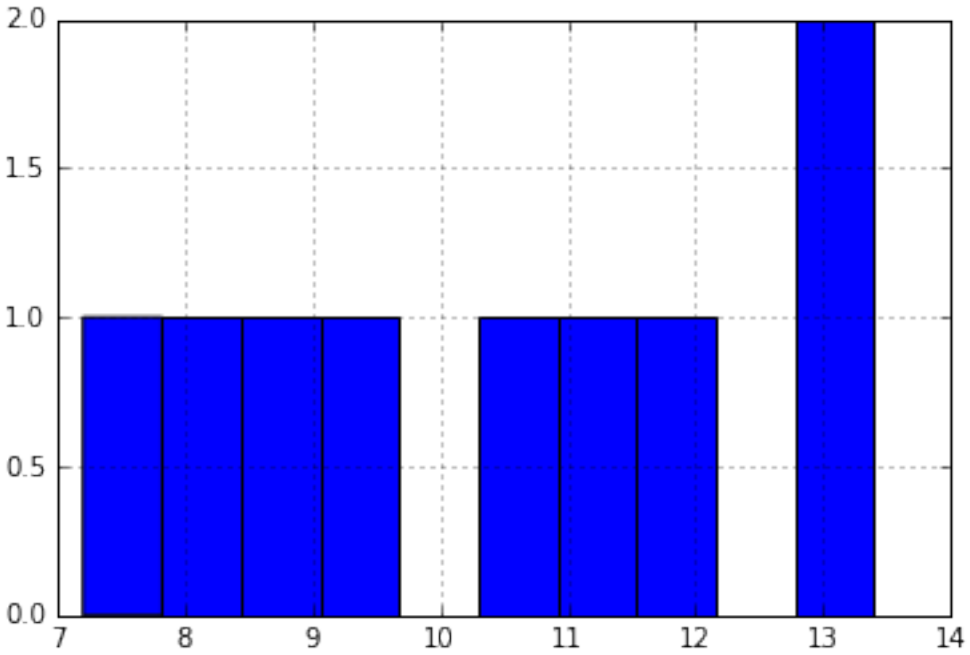


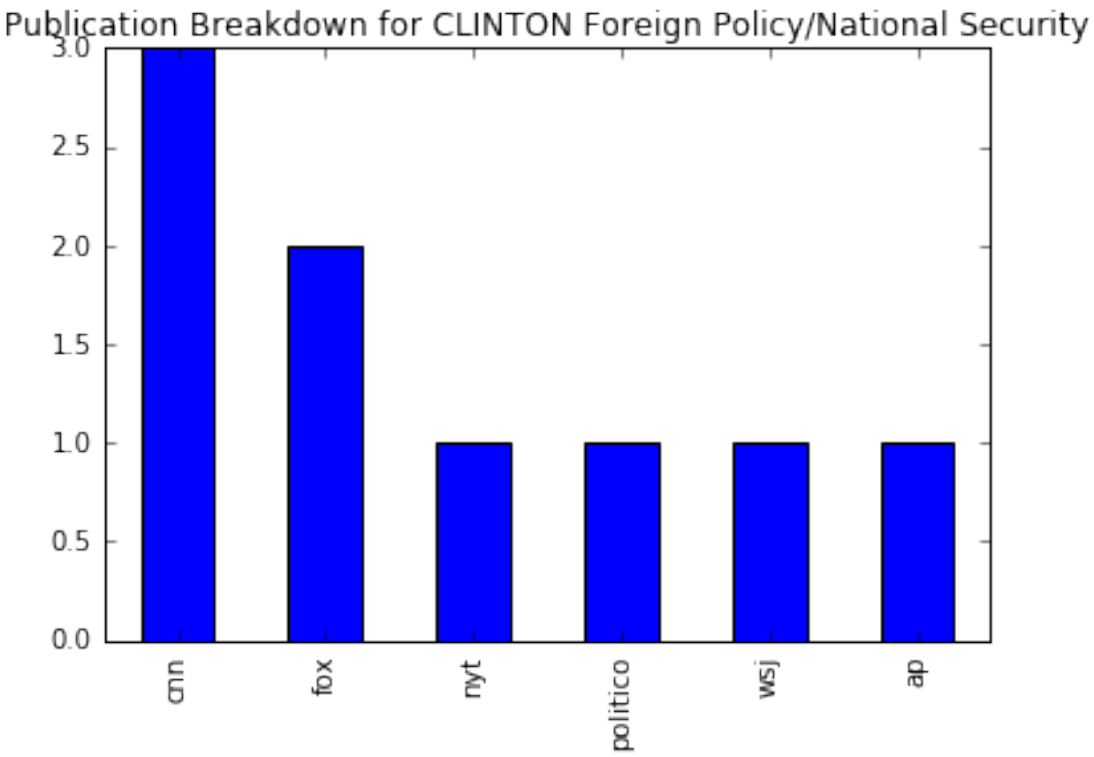
FLESCH FOR clinton Campaign Finance



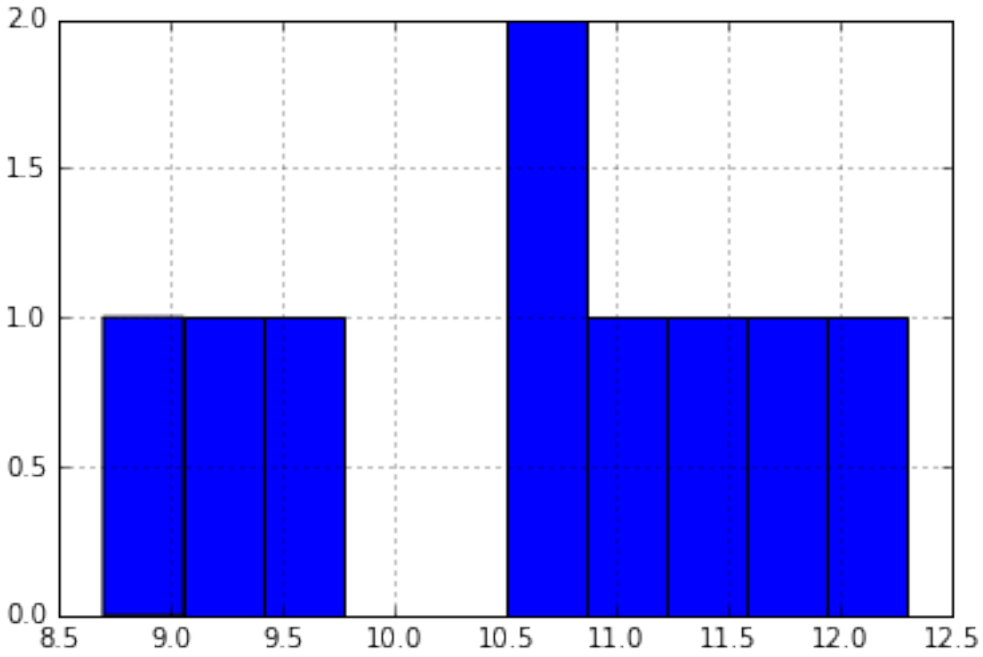


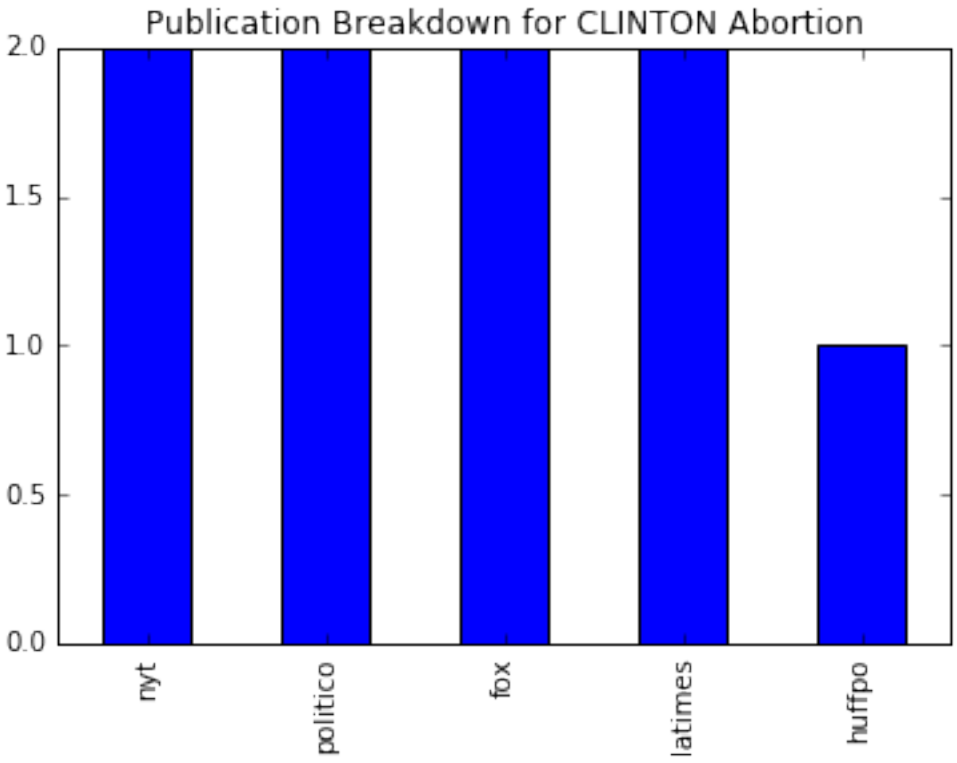
FLESCH FOR clinton Foreign Policy/National Security



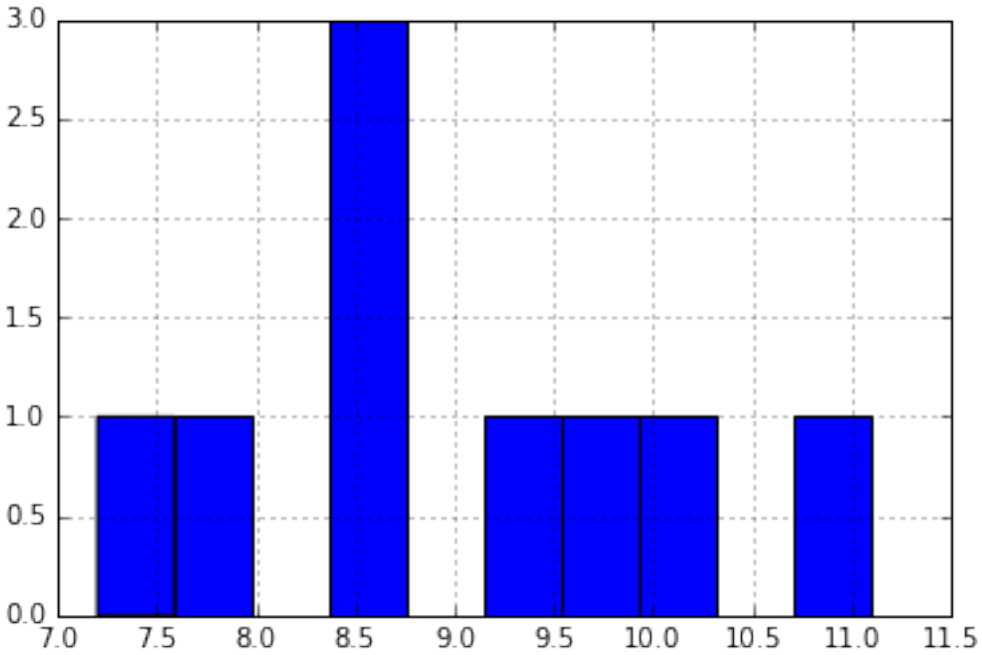


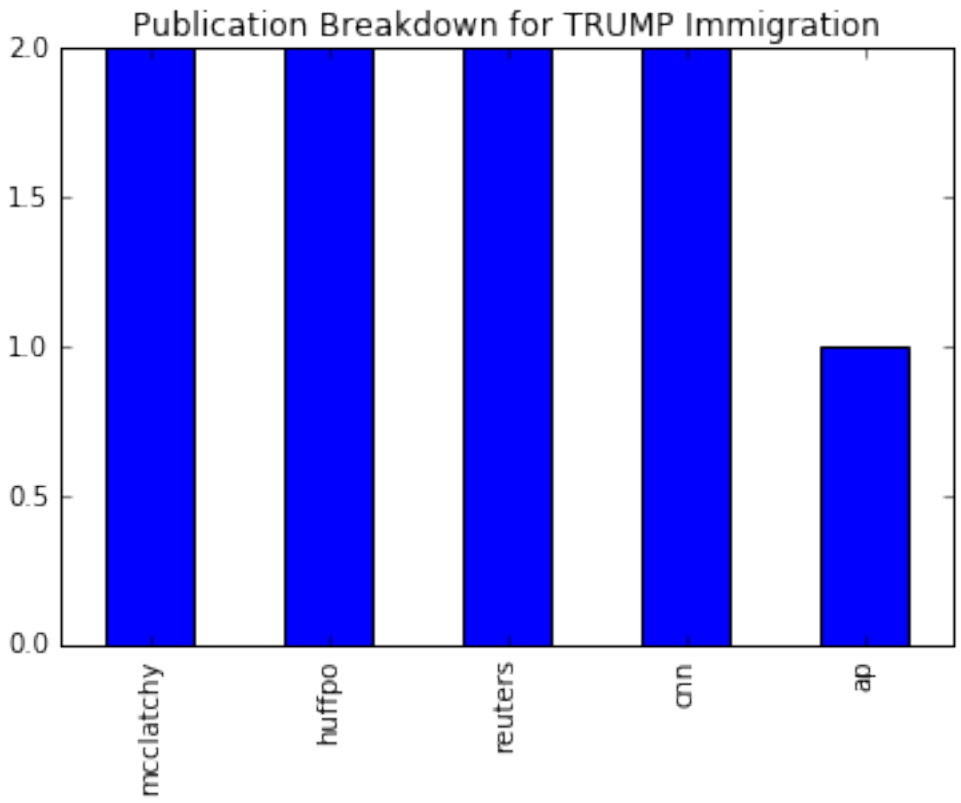
FLESCH FOR clinton Abortion



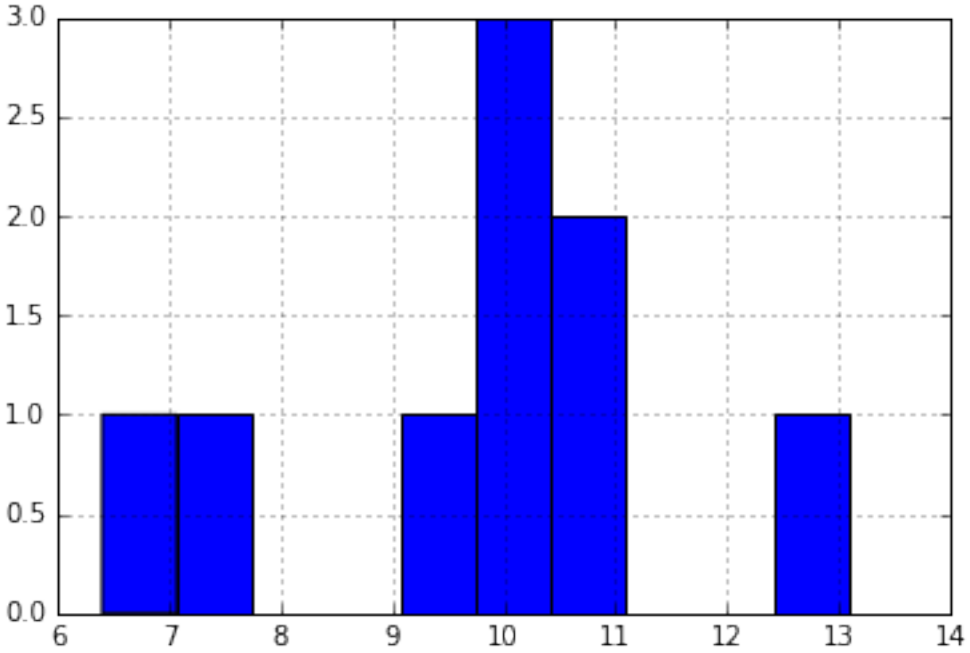


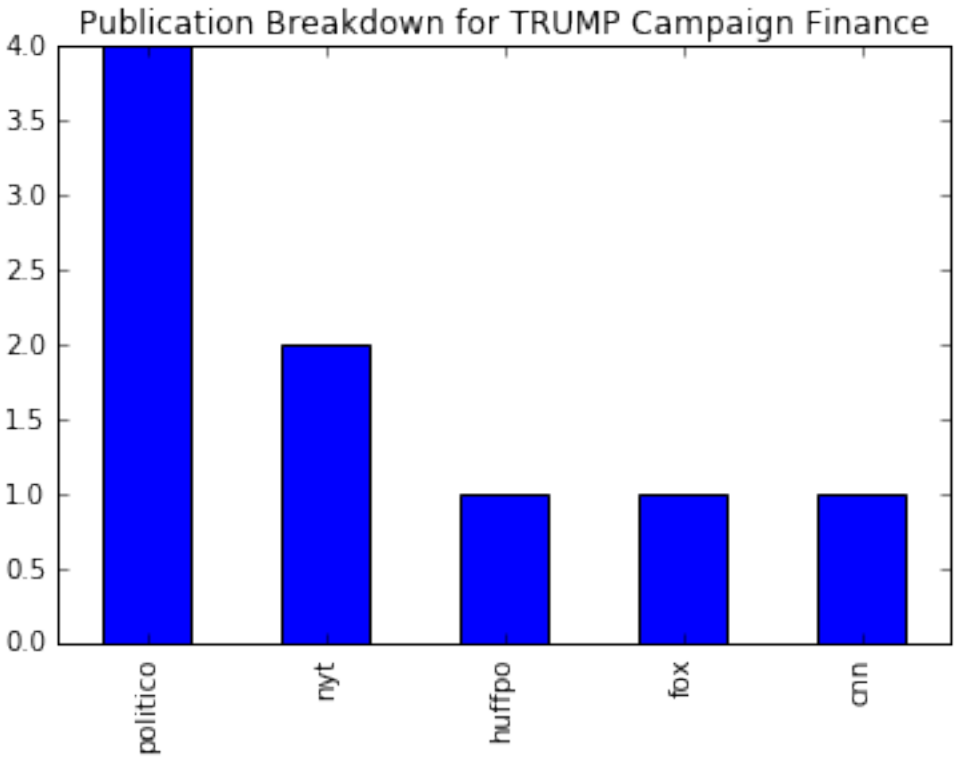
FLESCH FOR trump Immigration



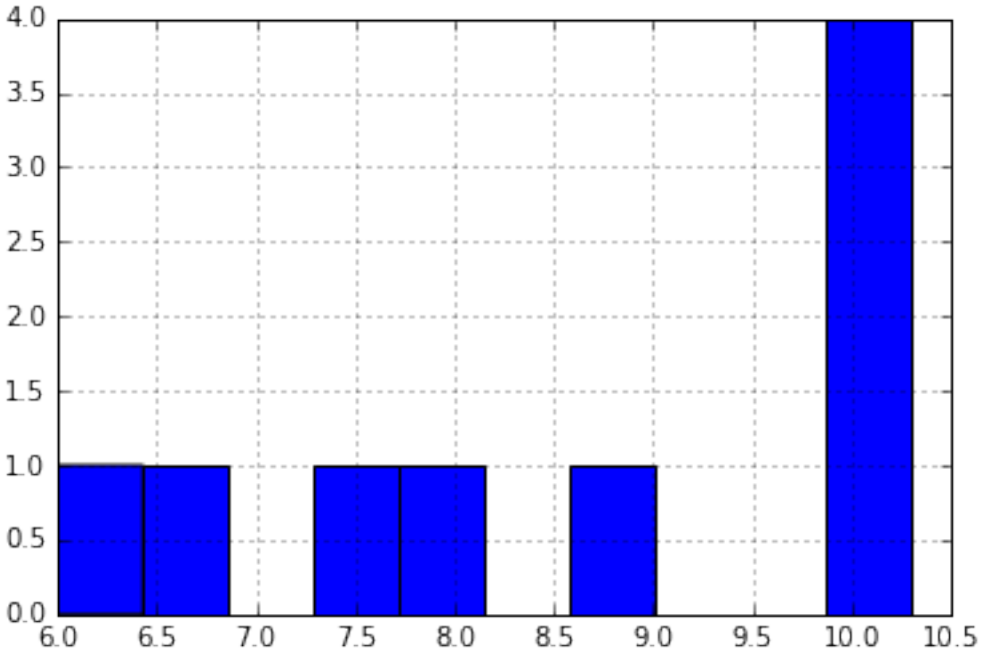


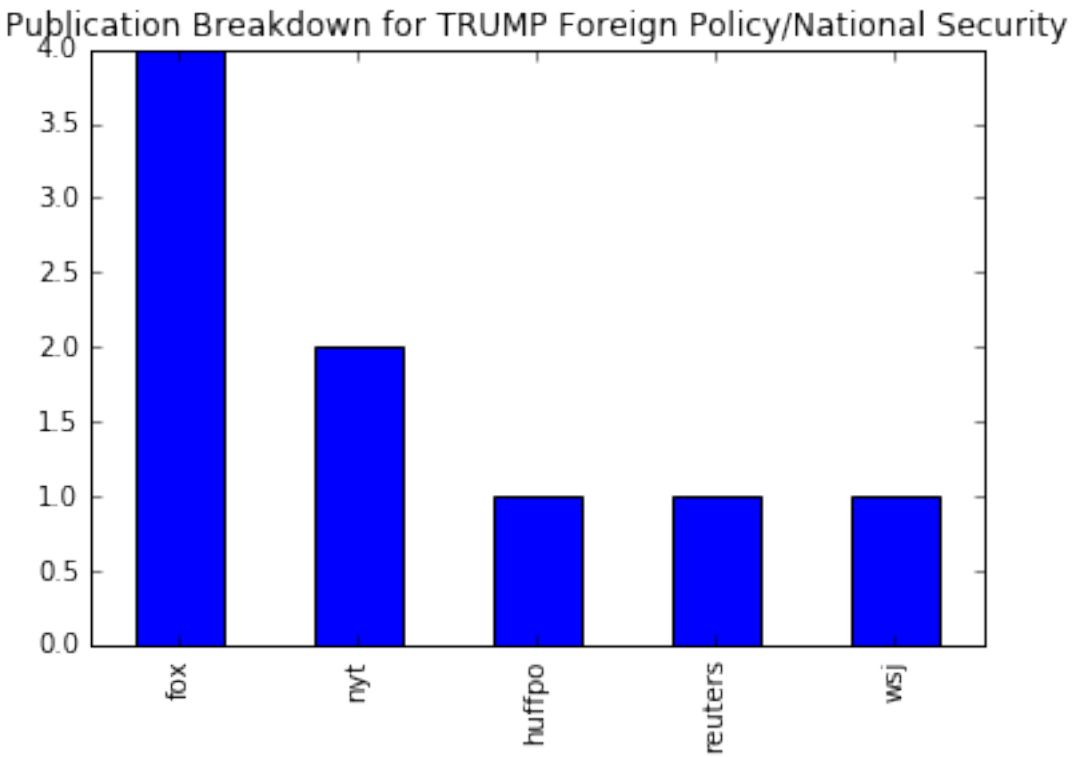
FLESCH FOR trump Campaign Finance



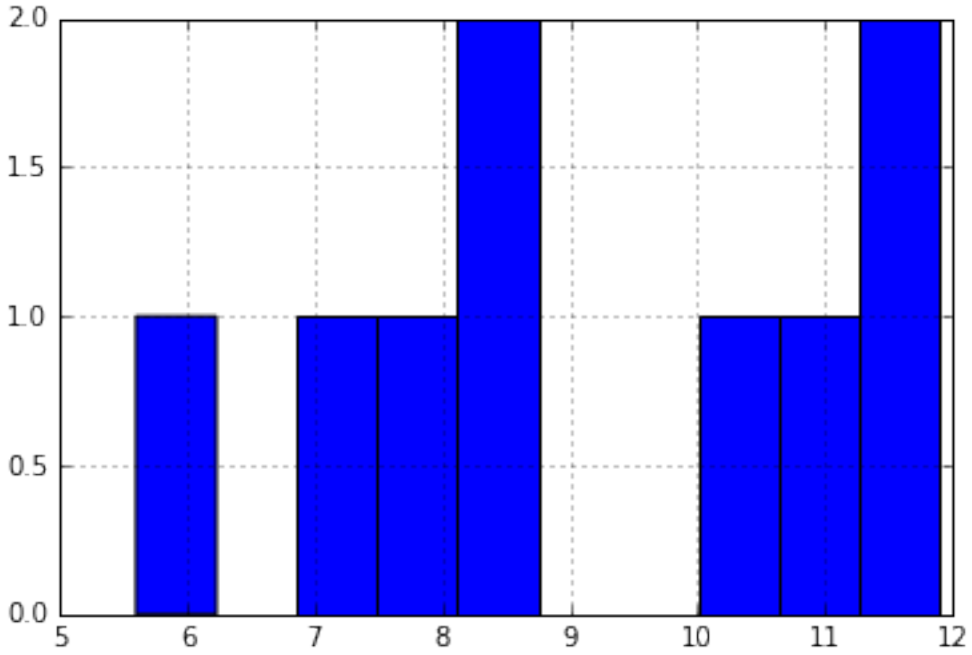


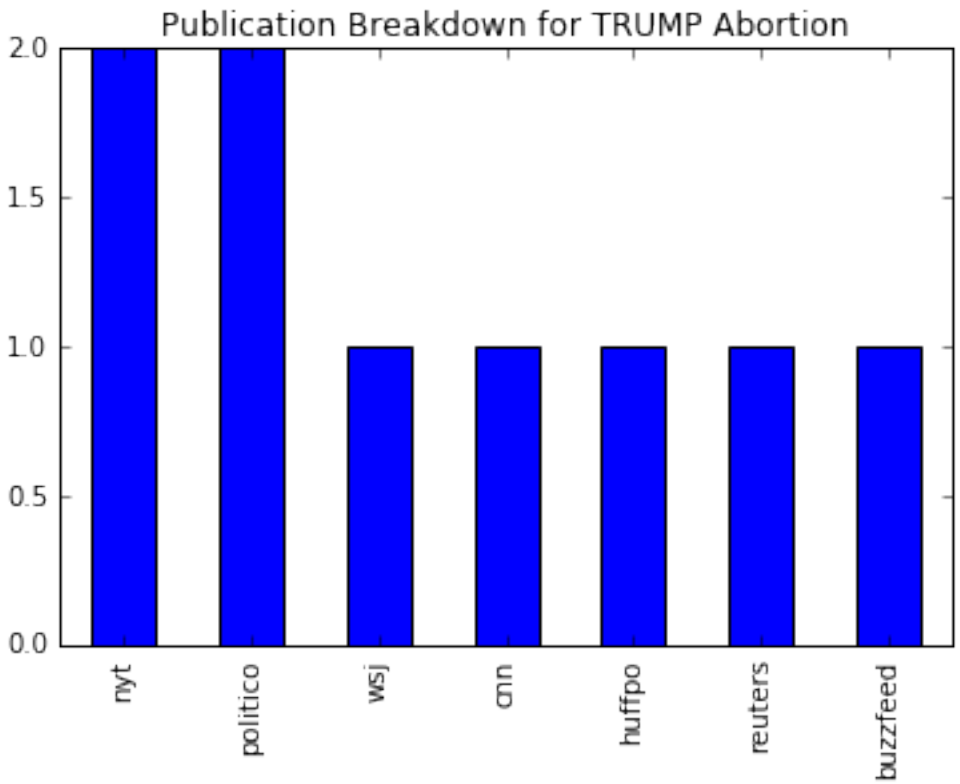
FLESCH FOR trump Foreign Policy/National Security



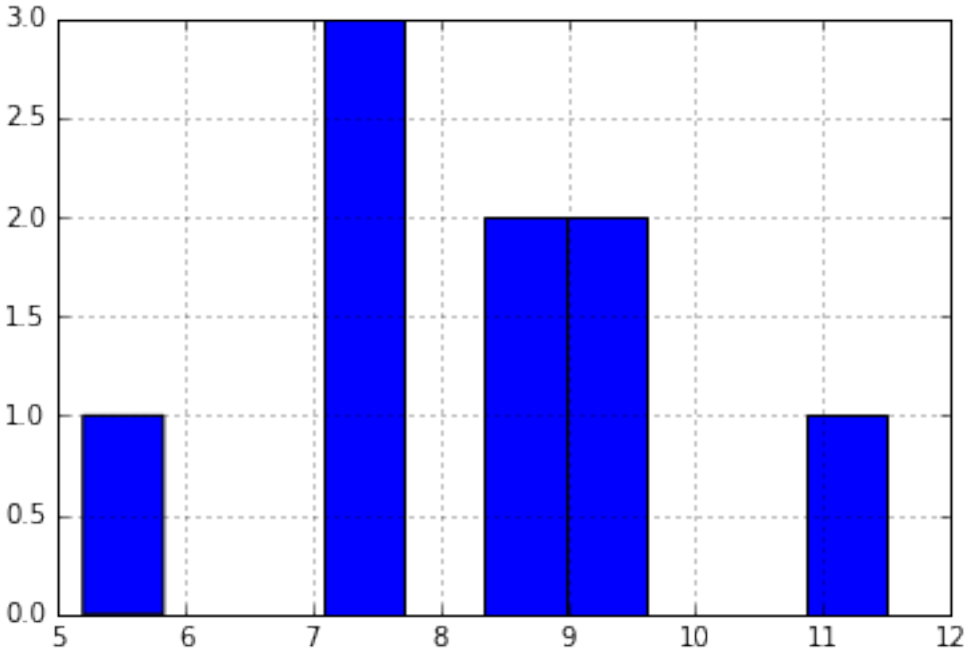


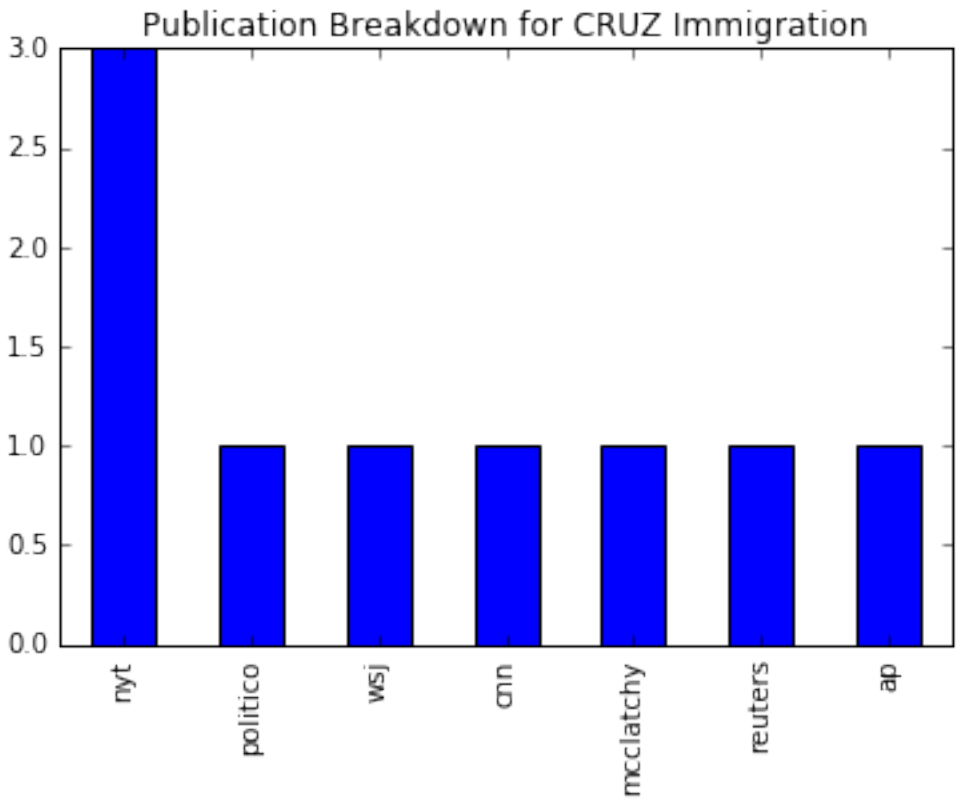
FLESCH FOR trump Abortion



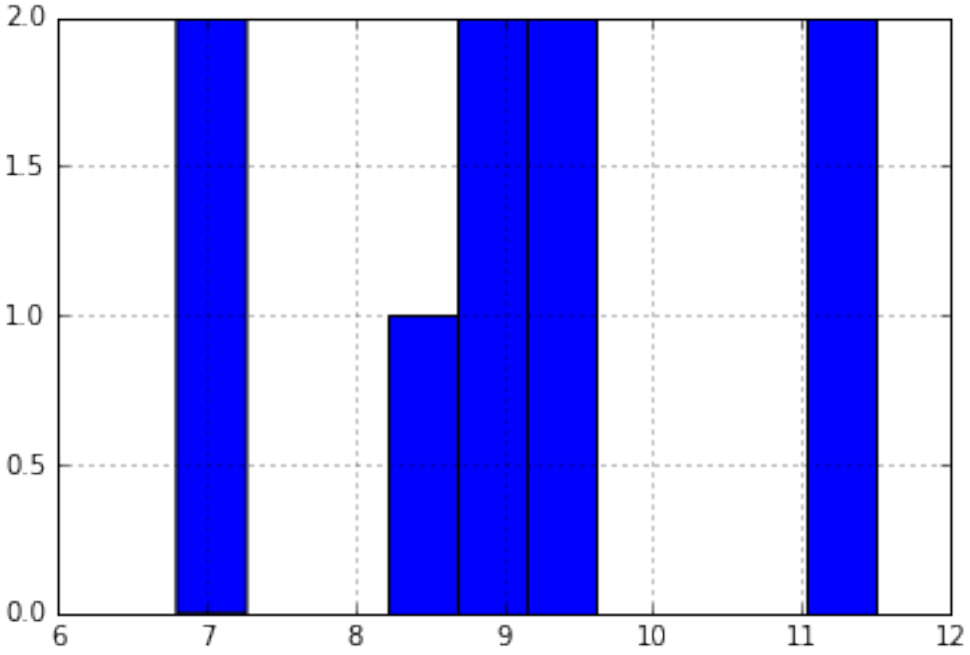


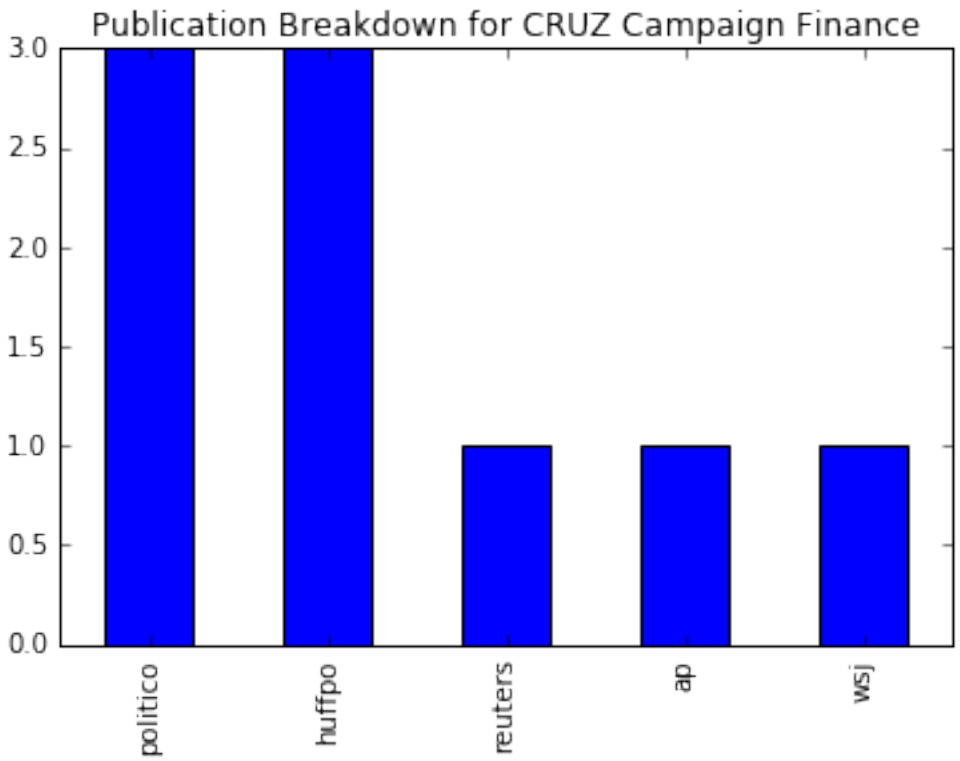
FLESCH FOR cruz Immigration



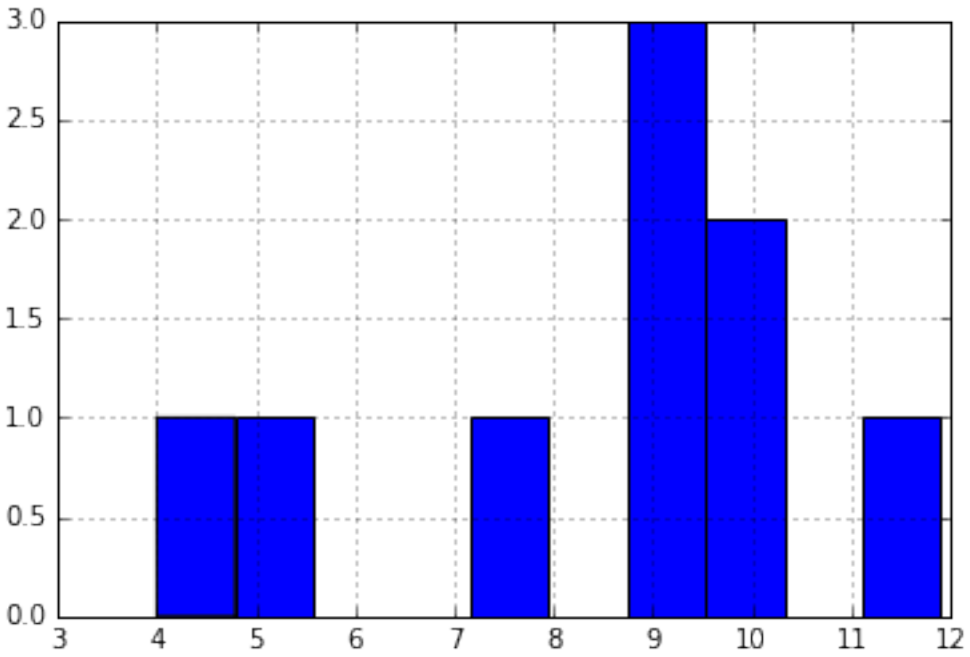


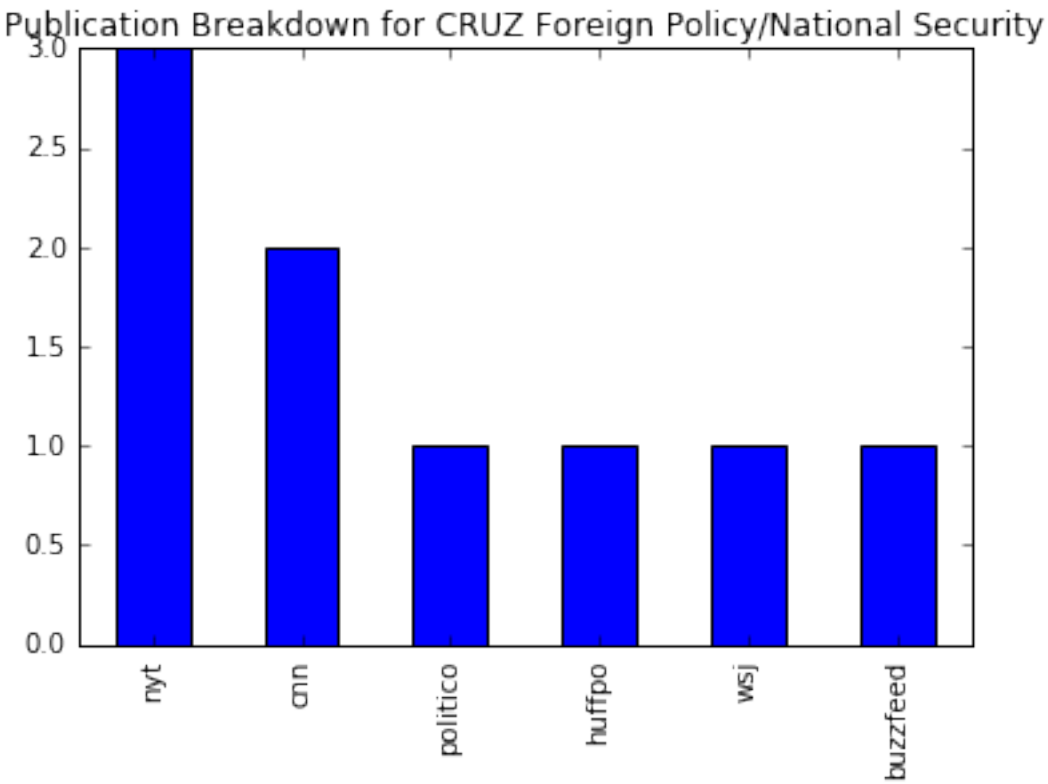
FLESCH FOR cruz Campaign Finance



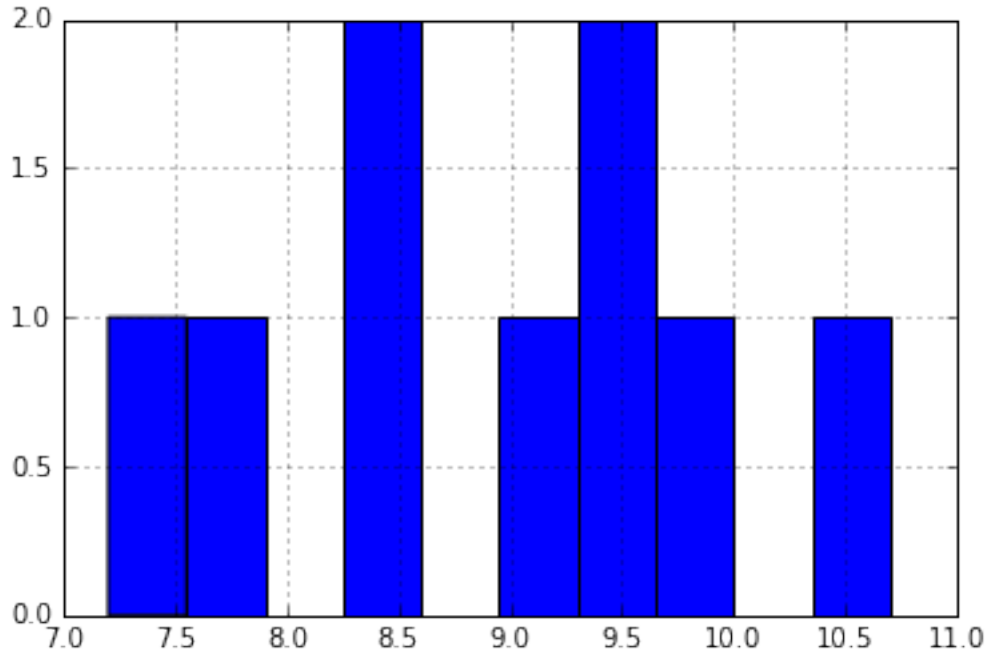


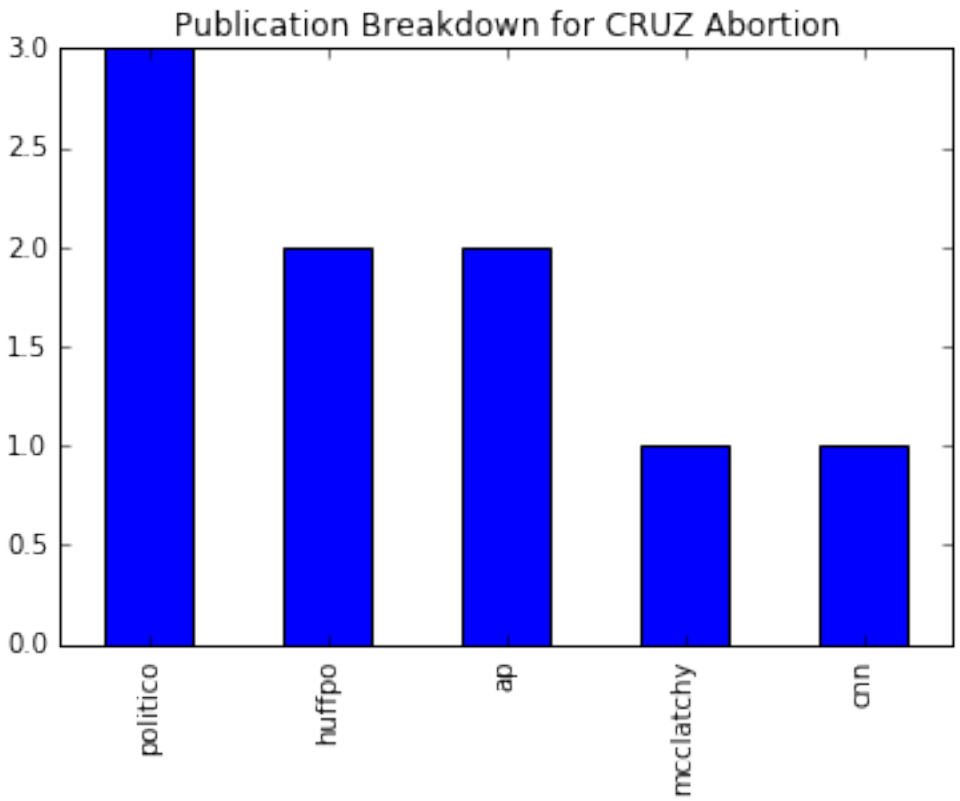
FLESCH FOR cruz Foreign Policy/National Security



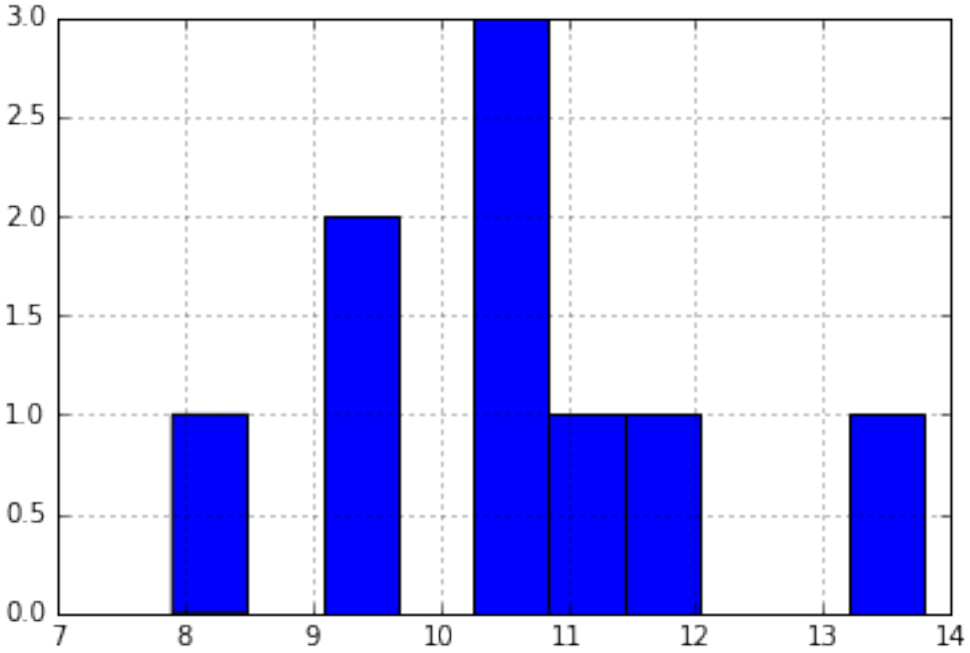


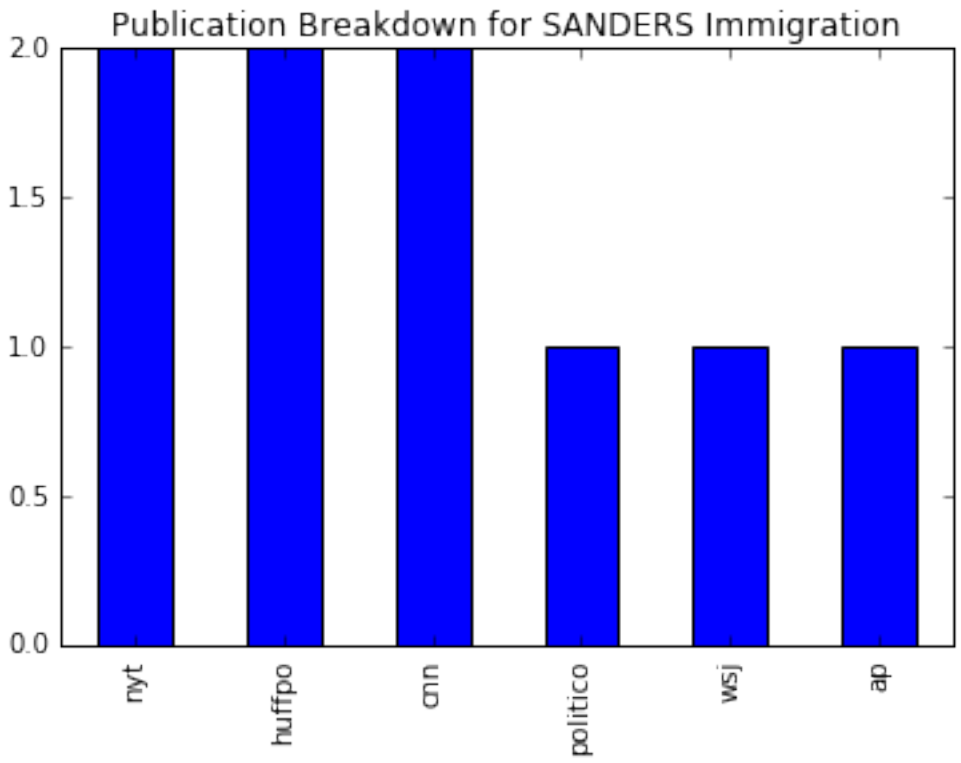
FLESCH FOR cruz Abortion



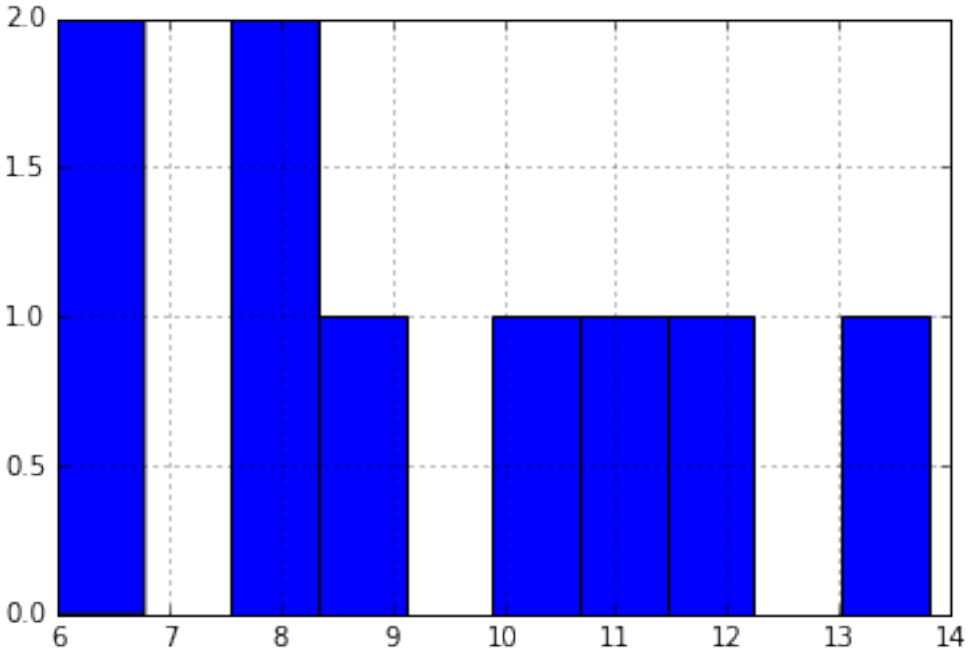


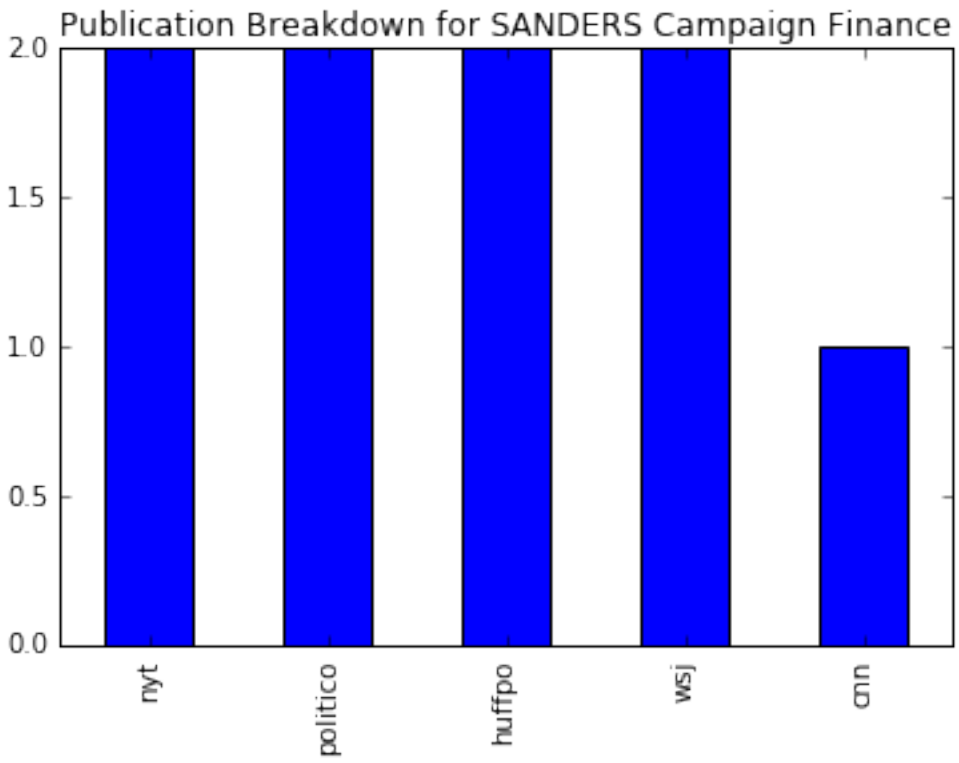
FLESCH FOR sanders Immigration



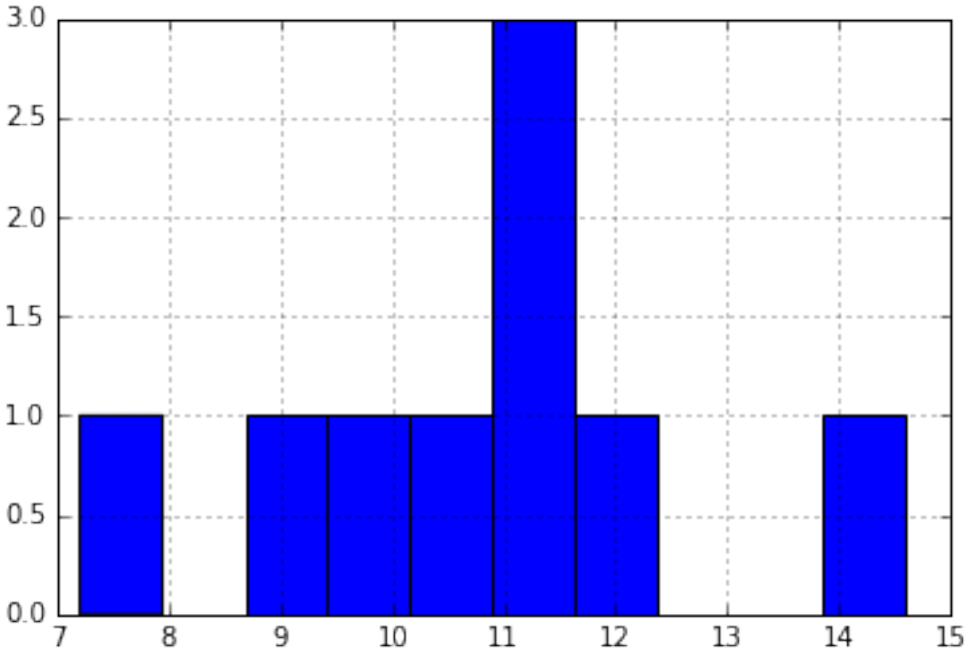


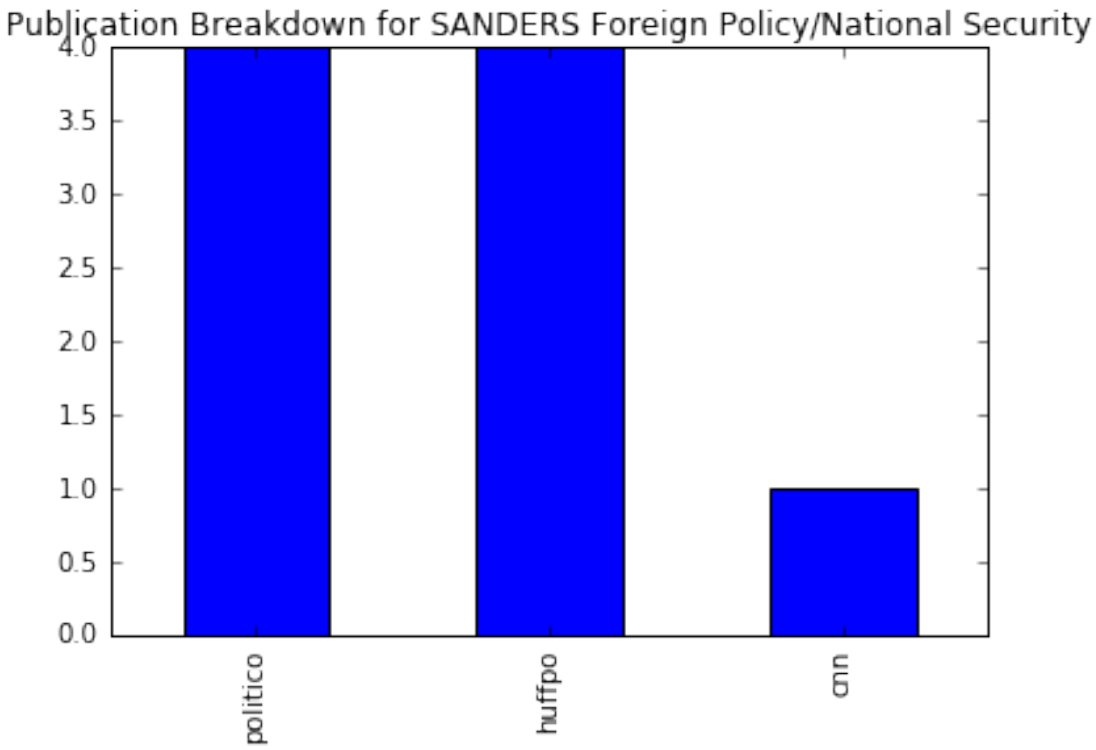
FLESCH FOR sanders Campaign Finance



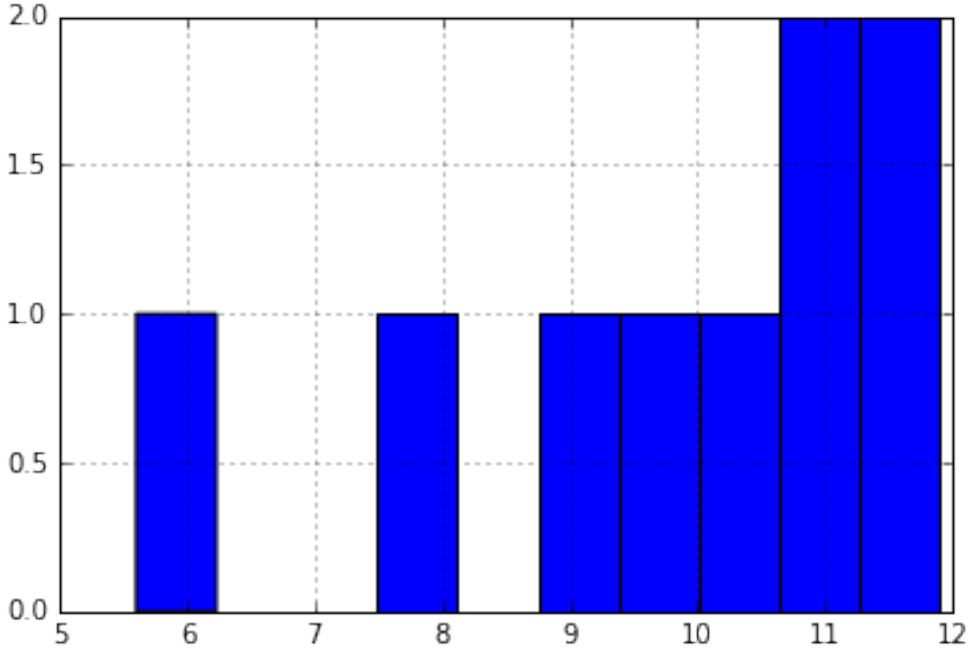


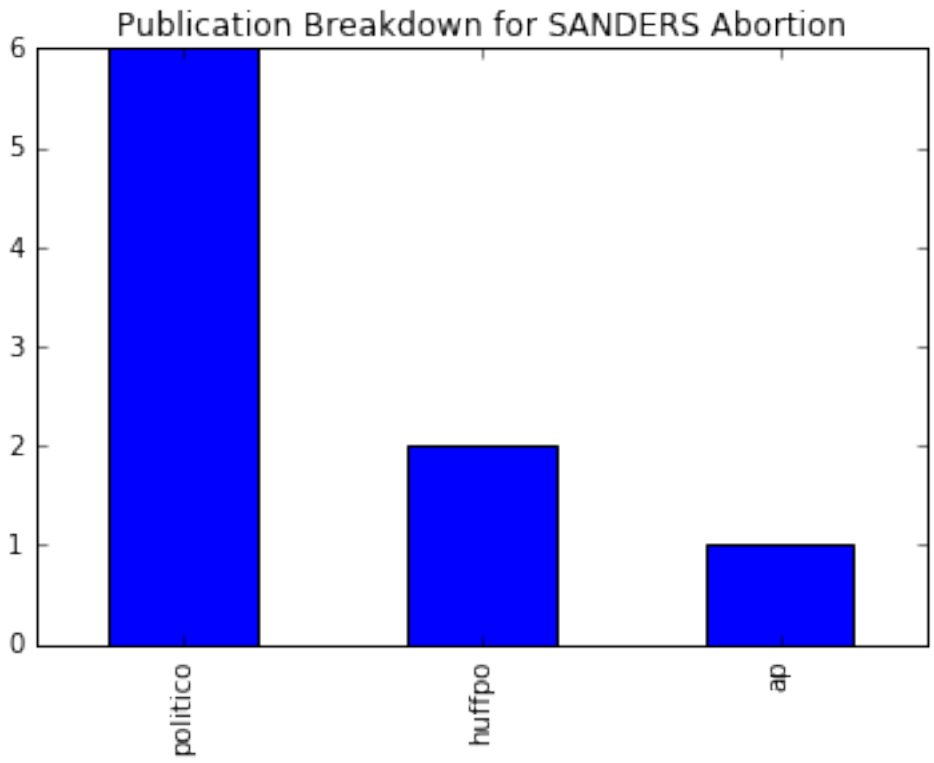
FLESCH FOR sanders Foreign Policy/National Security





FLESCH FOR sanders Abortion




Publication Breakdown for SANDERS Abortion
6
5
4
3
2
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politico
huffpo
ap

In [ ]: