HiLowMidFleschSampling

March 28, 2016

```
In [1]: from textstat.textstat import textstat
        import csv
        import pandas
        import matplotlib
        #matplotlib.style.use('ggplot')
        %matplotlib inline
        import ast
        pandas.options.display.max_colwidth = 100000
```

0.1 Keep all topics

```
In [13]: all_df = pandas.read_csv('data/all_candidates_nop.csv')
         #TOPICS = ['Immigration', 'Campaign Finance', 'Foreign Policy/National Security','Abortion']
         #all_df = all_df[(all_df['top_topic'].isin(TOPICS))]
         deduped_title = all_df.drop_duplicates('title')
```

```
In [14]: re_all = 'hillary|clinton|bernie|sanders|marco|rubio|donald|trump|ted|cruz|john|kasich'
         clinton_only = deduped_title[(~deduped_title['title'].str.contains('bernie|sanders|marco|rubio
         trump_only = deduped_title[(~deduped_title['title'].str.contains('hillary|clinton|bernie|sande
         sanders_only = deduped_title[(~deduped_title['title'].str.contains('hillary|clinton|marco|rubi
         cruz_only = deduped_title[(~deduped_title['title'].str.contains('bernie|sanders|hillary|clinto
```

```
In [15]: print len(trump_only)
         print len(clinton_only)
         print len(sanders_only)
         print len(cruz_only)
```

```
666
181
135
177
```

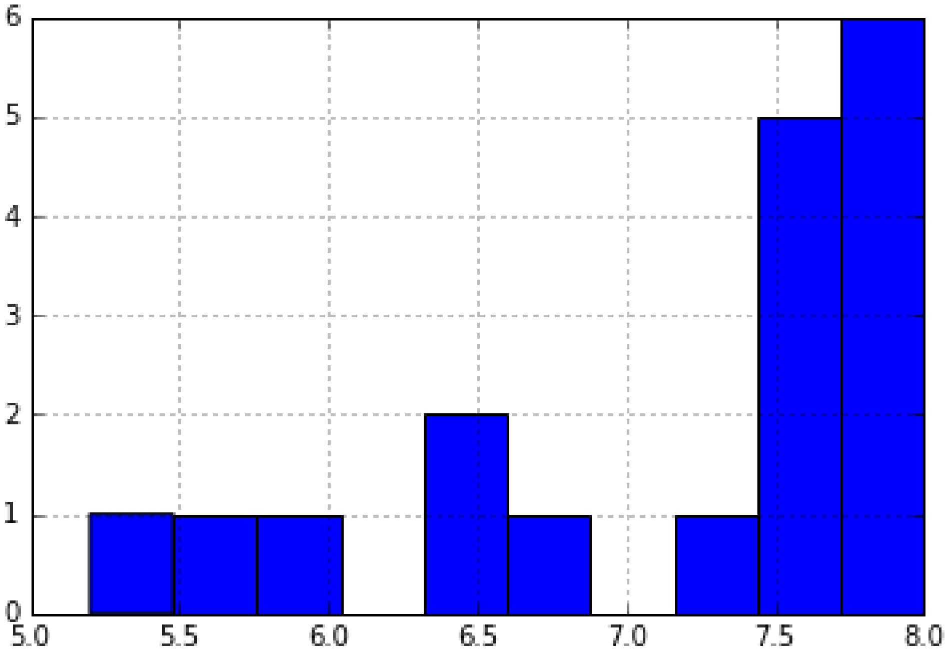
```
In [19]: all_df = pandas.concat([clinton_only, trump_only, sanders_only, cruz_only])
         all_df.to_csv('data/all_candidates_all_topics_single_candidate_stories.csv')
```

1 Get top n % by {Flesch, G-F}

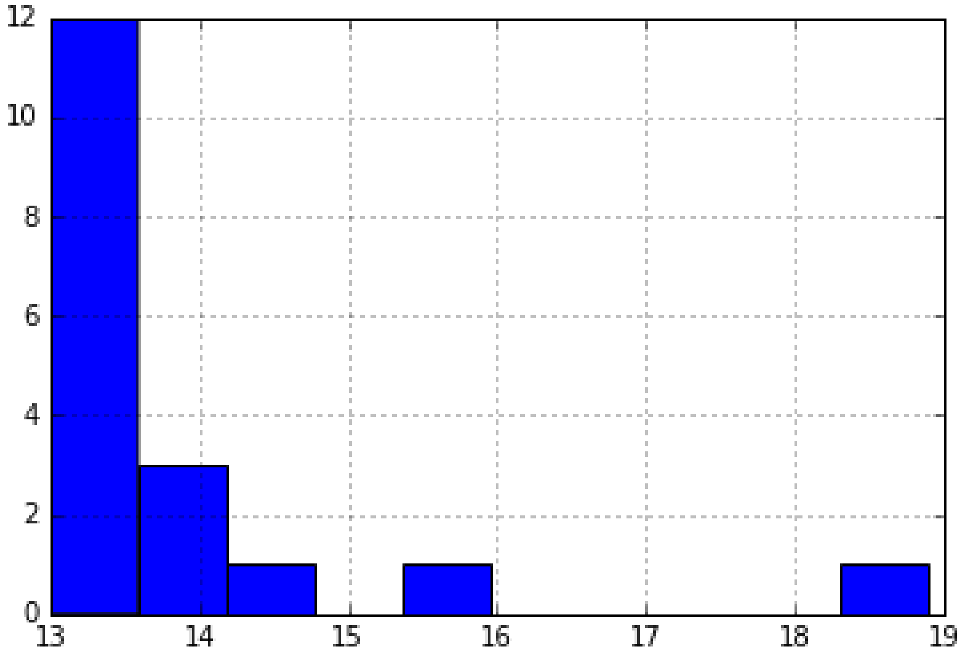
```
In [48]: CANDIDATES = ['clinton', 'trump', 'cruz', 'sanders']
         for c in CANDIDATES:
             print c.upper()
             print
             sorted_c = all_df[all_df['candidate'] == c].sort_values('flesch')
             n = len(sorted_c)
             head = sorted_c.head(int(n*.10))
```

```
tail = sorted_c.tail(int(n*.10))
print "HEAD"
head.flesch.hist()
matplotlib.pyplot.show()
print head.org.value_counts()
head.top_topic.value_counts()
head[['top_topic', 'org']]

print "TAIL"
tail.flesch.hist()
matplotlib.pyplot.show()
print tail.org.value_counts()
tail.top_topic.value_counts()
tail[['top_topic', 'org']]
```

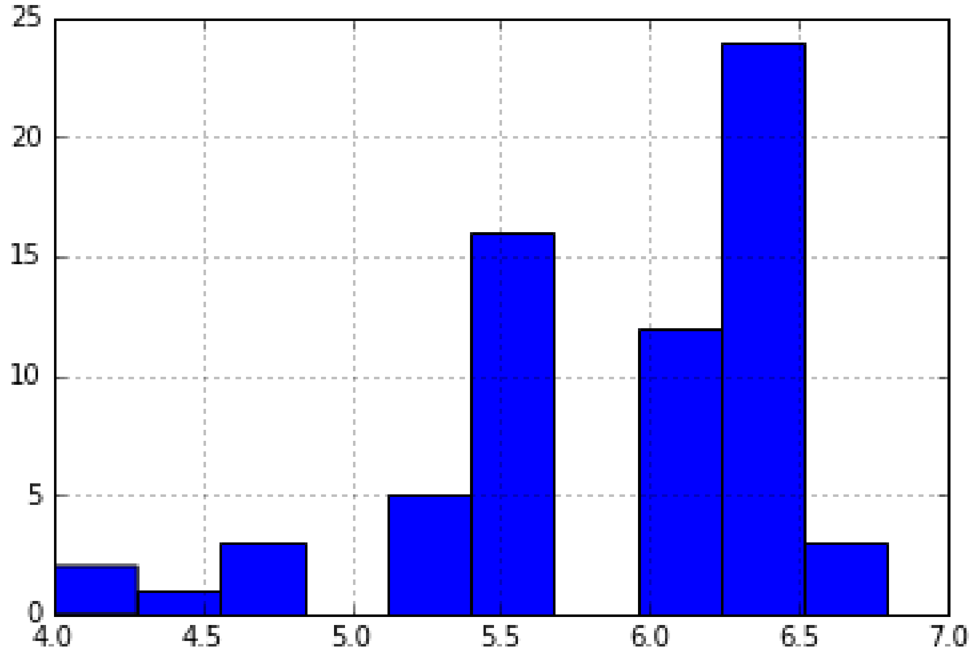
```
CLINTON

HEAD
```



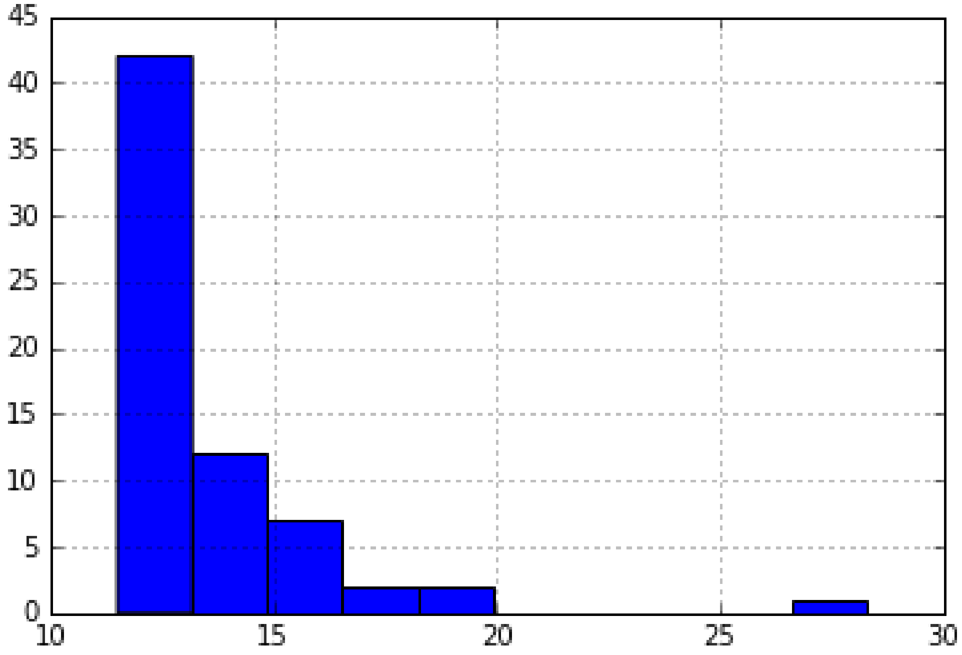
```
nyt          7
politico     4
wsj          2
npr          1
mcclatchy    1
latimes      1
cnn          1
huffpo       1
Name: org, dtype: int64
TAIL
```



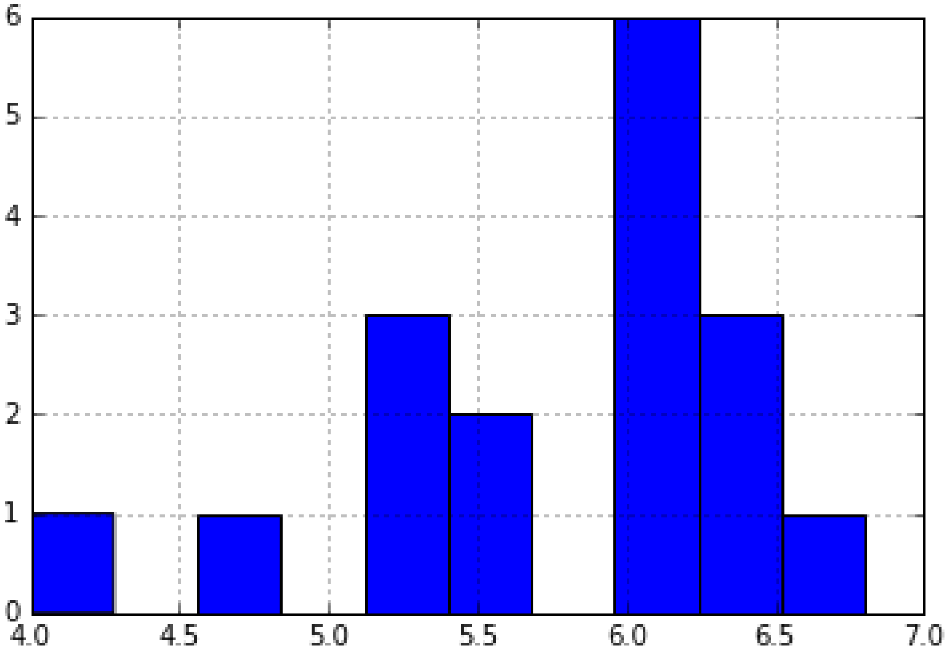
```
fox          6
cnn          4
npr          2
latimes      2
wsj          1
politico     1
huffpo       1
ap           1
Name: org, dtype: int64
TRUMP

HEAD
```



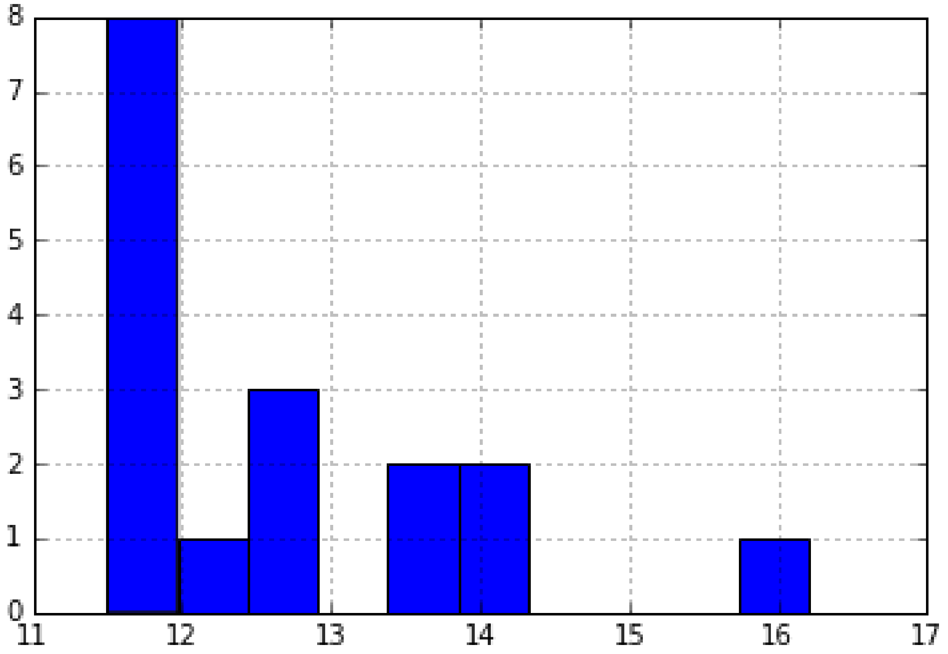
```
nyt          29
politico     13
huffpo        6
wsj           5
fox           4
mcclatchy     3
npr           2
cnn           2
ap            2
Name: org, dtype: int64
TAIL
```



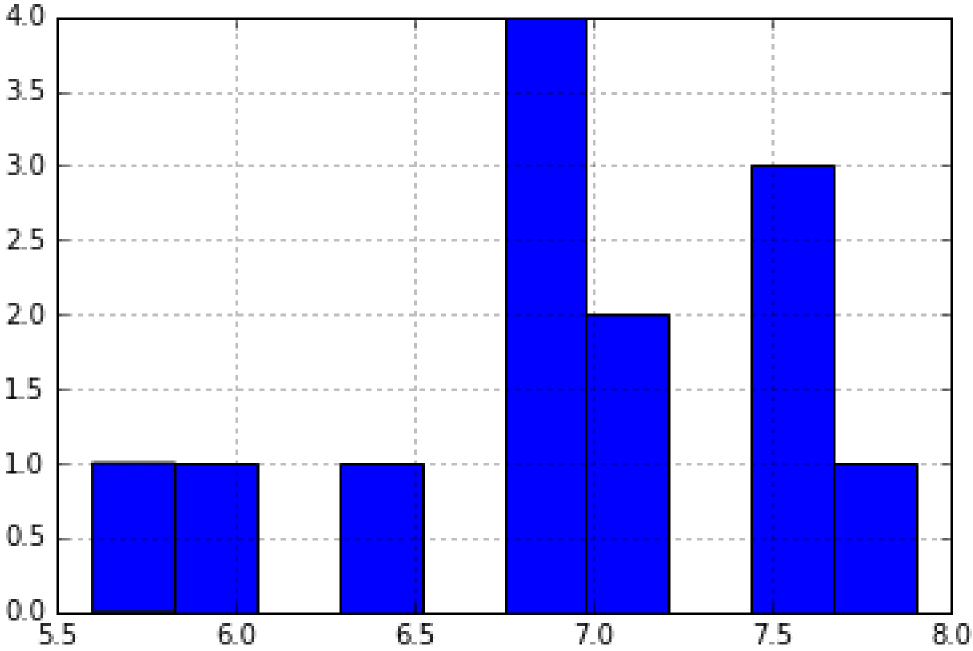
```
huffpo       17
buzzfeed     12
cnn           8
reuters       8
latimes       7
fox           4
nyt           2
politico      2
ap            2
wsj           2
mcclatchy     1
npr           1
Name: org, dtype: int64
CRUZ

HEAD
```



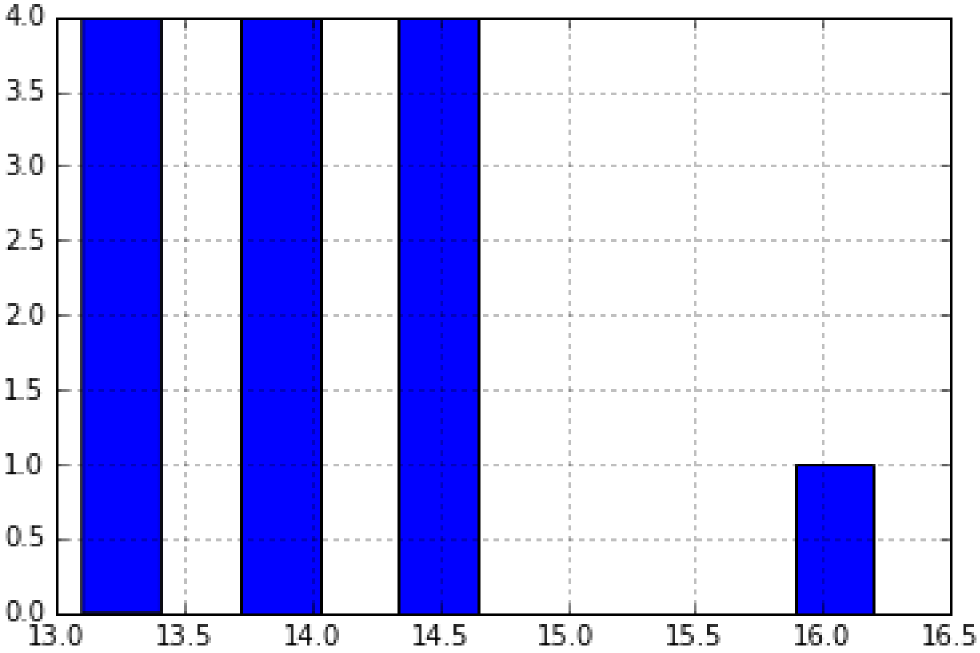
```
nyt          8
wsj          4
cnn          2
politico     1
huffpo       1
ap           1
Name: org, dtype: int64
TAIL
```



```
cnn         4
huffpo      4
politico    3
buzzfeed    2
nyt         1
reuters     1
ap          1
wsj         1
Name: org, dtype: int64
SANDERS

HEAD
```



```
politico    6
nyt         4
wsj         3
Name: org, dtype: int64
TAIL
```



```
huffpo      11
cnn          1
politico     1
Name: org, dtype: int64
```

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In [ ]:
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In [ ]:
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In [ ]:
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In [ ]:
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