American Revolution

January 22, 2018

1 Imports

```
In [1]: import networkx as nx
    import matplotlib.pyplot as plt
    import numpy as np
```

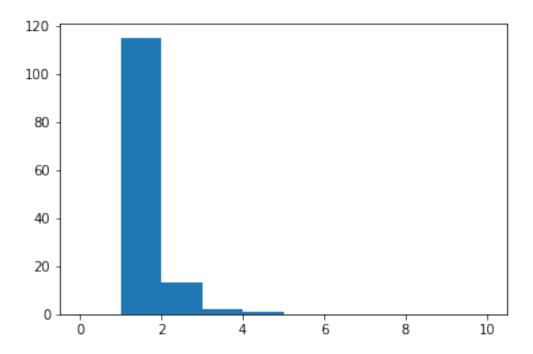
2 Read tsv

2.0.1 Open the tsv

2.0.2 Cleans the data

3 Converting edge pairs to NetworkX graph

4 Degree Distribution



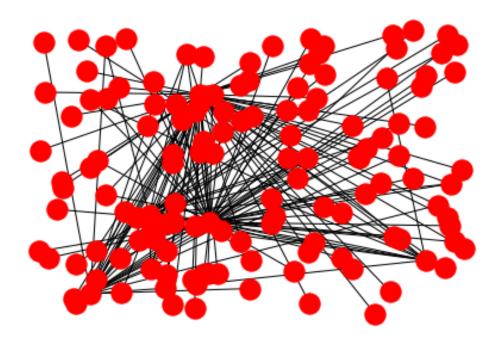
Conclusions:

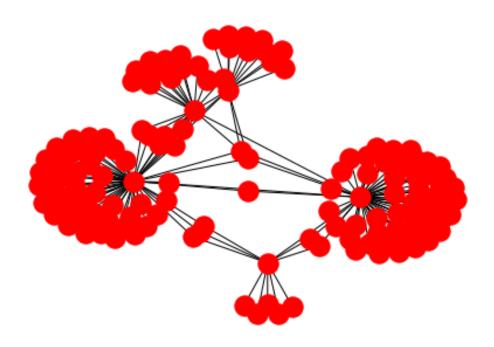
The graph is connected (no zero degree nodes), and all nodes have degree >= 3

All values for

A few outliers have up to 10 roads

In [6]: nx.draw_random(G)





In [9]: # This graph should be bipartite according to http://konect.cc/networks/brunson_revolutionx.bipartite.color(G)

```
NetworkXError Traceback (most recent call last)
<ipython-input-9-18447f0ff4b7> in <module>()
----> 1 nx.bipartite.color(G)
```

NetworkXError: Graph is not bipartite.