

Use either nlp or bertopic virtualenv

```
$ cd ~/projects/NLP
$ source bertopic/bin/activate
```

```
In [1]: 1 from textnets import Corpus, Textnet
```

```
In [2]: 1 from textnets import examples
```

```
In [3]: 1 corpus = Corpus(examples.moon_landing, lang="en_core_web_md")
```

```
In [4]: 1 corpus
```

Out[4]:

label

The Guardian

3:56 am: Man Steps On to the Moon

New York Times

Men Walk on Moon -- Astronauts Land on Plain, Collect Rocks, Plant Flag

Boston Globe

Man Walks on Moon

Houston Chronicle

Armstrong and Aldrich "Take One Small Step for Man" on the Moon

Washington Post

The Eagle Has Landed -- Two Men Walk on the Moon

Chicago Tribune

Giant Leap for Mankind -- Armstrong Takes 1st Step on Moon

Los Angeles Times

Walk on Moon -- That's One Small Step for Man, One Giant Leap for Mankind

Corpus

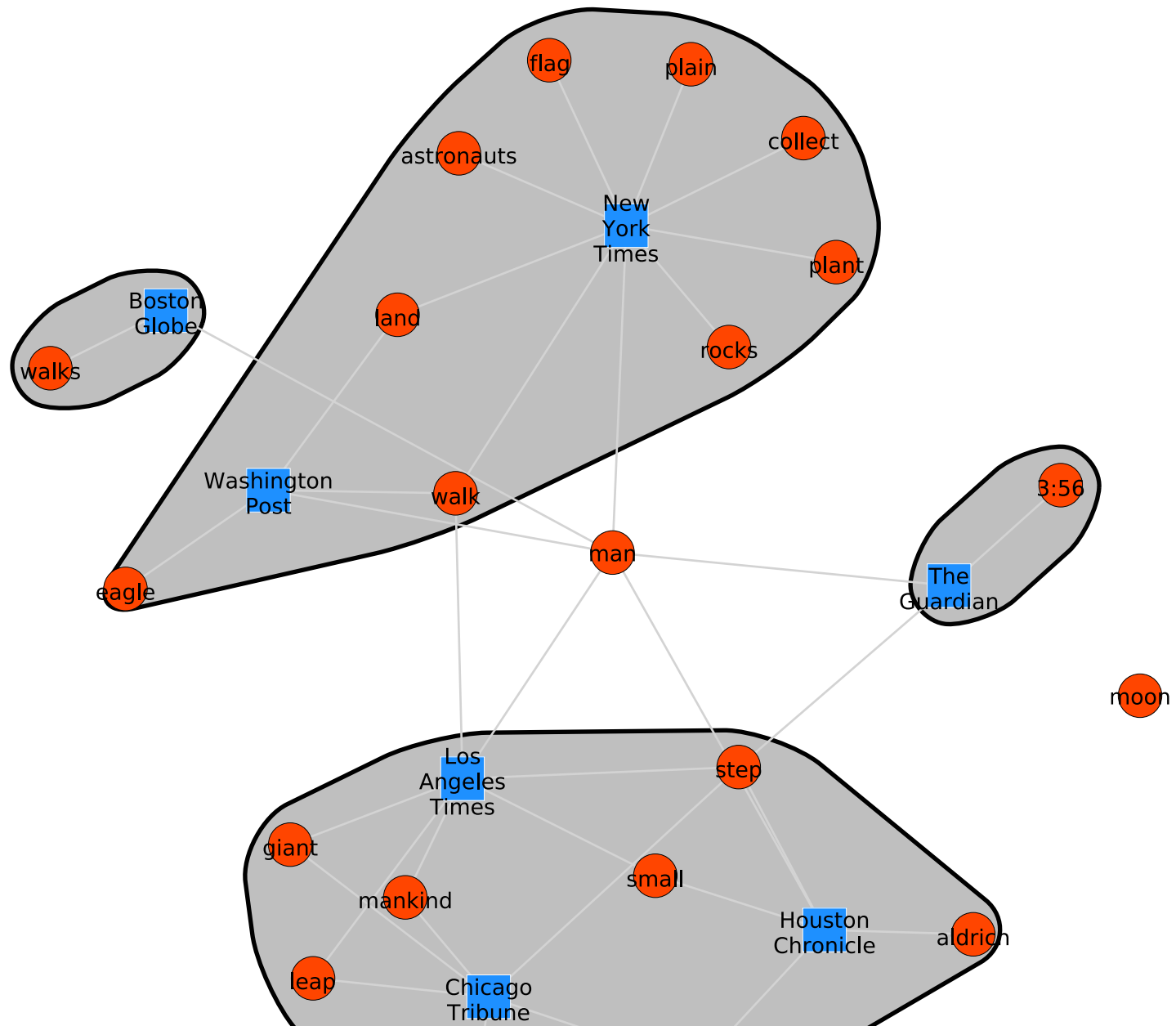
■ Docs: 7

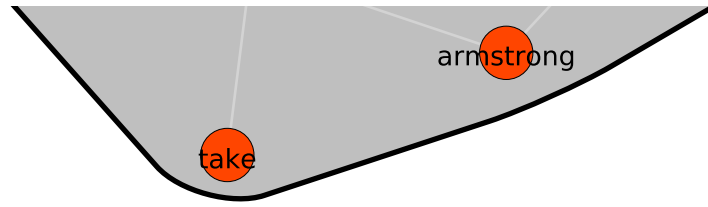
Lang: en_core_web_md

```
In [5]: 1 tn = Textnet(corpus.tokenized(), min_docs=1)
```

```
In [6]: 1 tn.plot(label_term_nodes=True,  
2           label_doc_nodes=True,  
3           show_clusters=True)
```

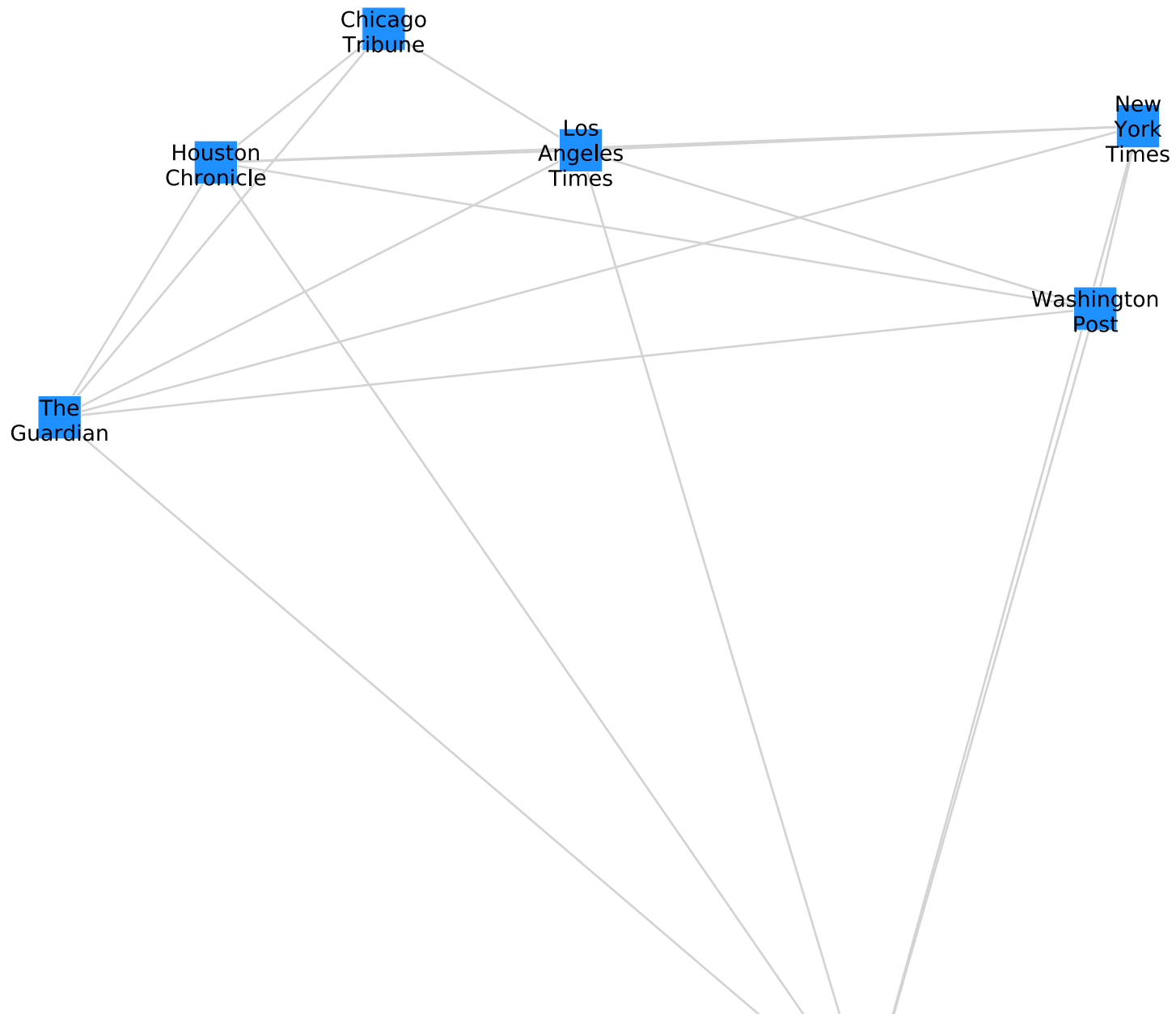
Out[6]:

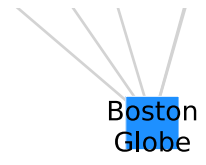




```
In [7]: 1 papers = tn.project(node_type='doc')
        2 papers.plot(label_nodes=True)
```

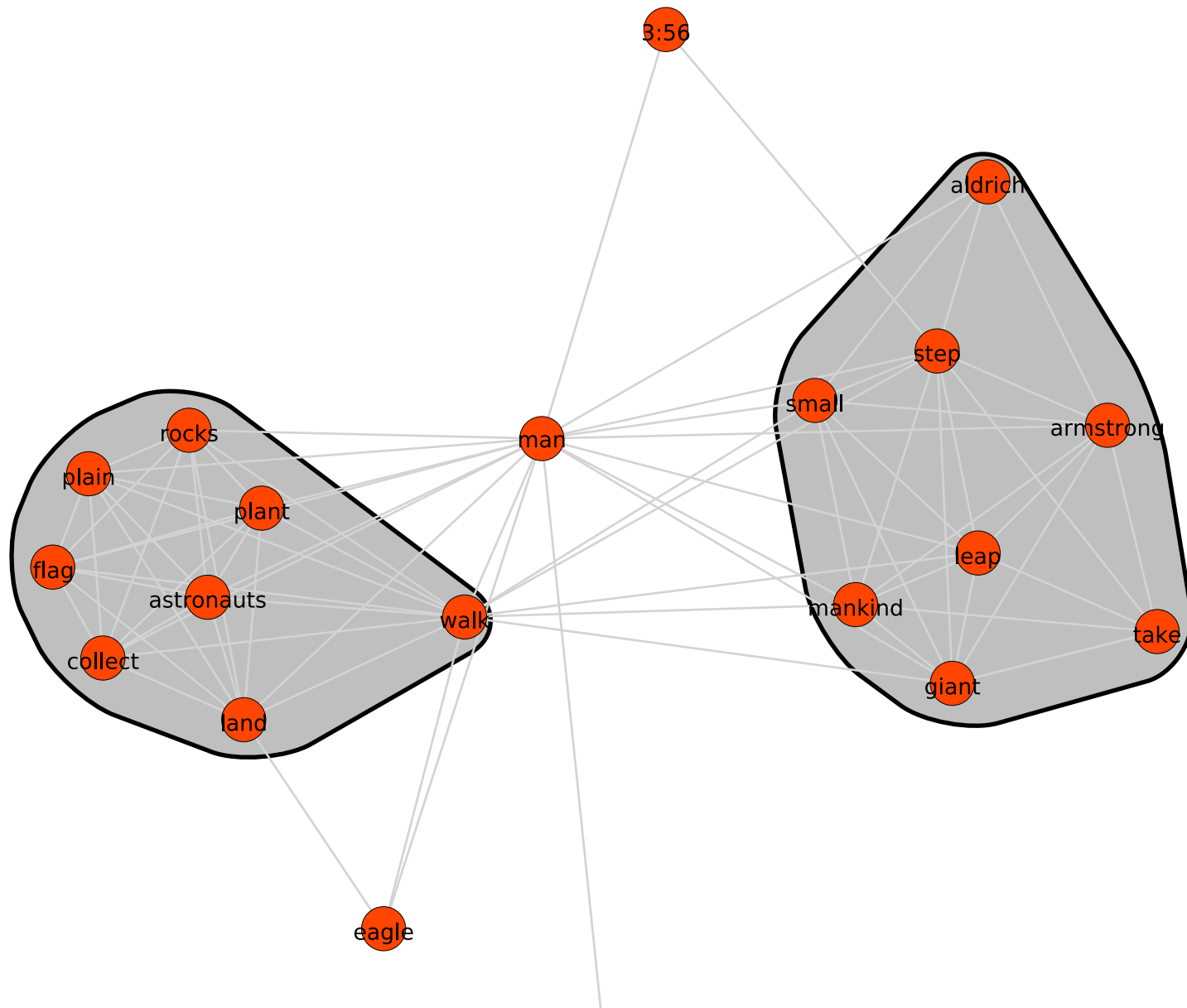
Out[7]:





```
In [8]: 1 words = tn.project(node_type='term')
        2 words.plot(label_nodes=True,
        3               show_clusters=True)
```

Out[8]:





walks

moon

```
In [9]: 1 papers.top_betweenness()
```

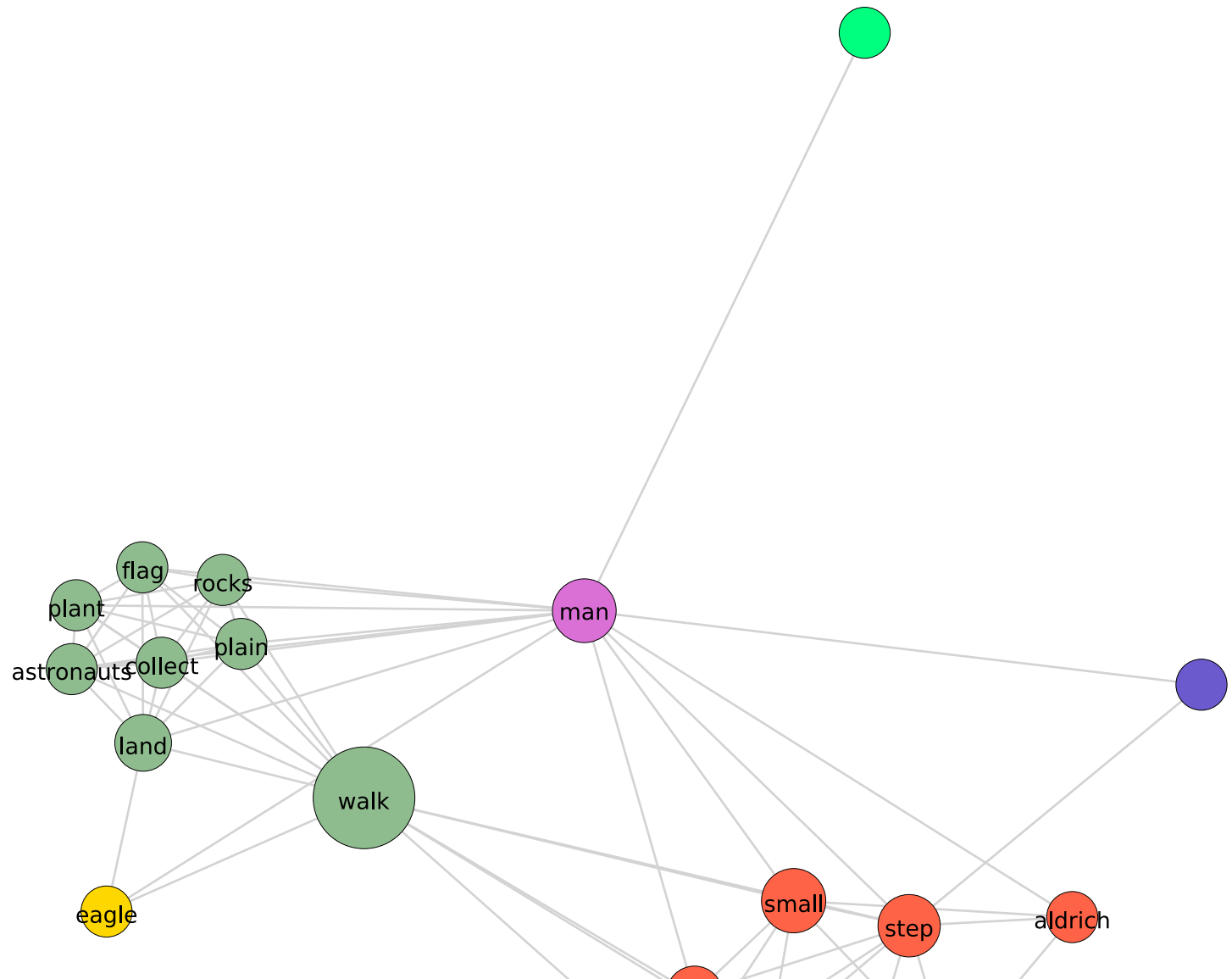
```
Out[9]: Los Angeles Times    7.0  
        Boston Globe        0.0  
        Chicago Tribune     0.0  
        Houston Chronicle    0.0  
        New York Times       0.0  
        The Guardian         0.0  
        Washington Post      0.0  
        dtype: float64
```

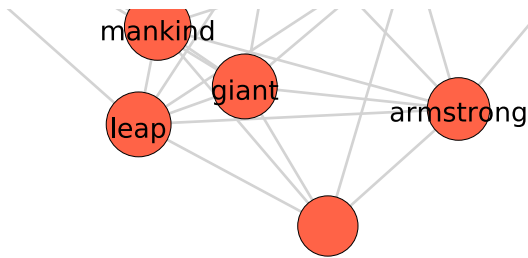
```
In [10]: 1 words.top_betweenness()
```

```
Out[10]: walk      72.00  
        man       18.00  
        step      16.00  
        small     12.75  
        land       6.00  
        giant      6.00  
        leap       6.00  
        mankind    6.00  
        armstrong  3.25  
        plain      0.00  
        dtype: float64
```

```
In [11]: 1 words.plot(label_nodes=True,  
2             scale_nodes_by='betweenness',  
3             color_clusters=True,  
4             alpha=0.5,  
5             node_label_filter=lambda n: n.betweenness() > words.betweenness.median())
```

Out[11]:





In []: 1

In []: 1