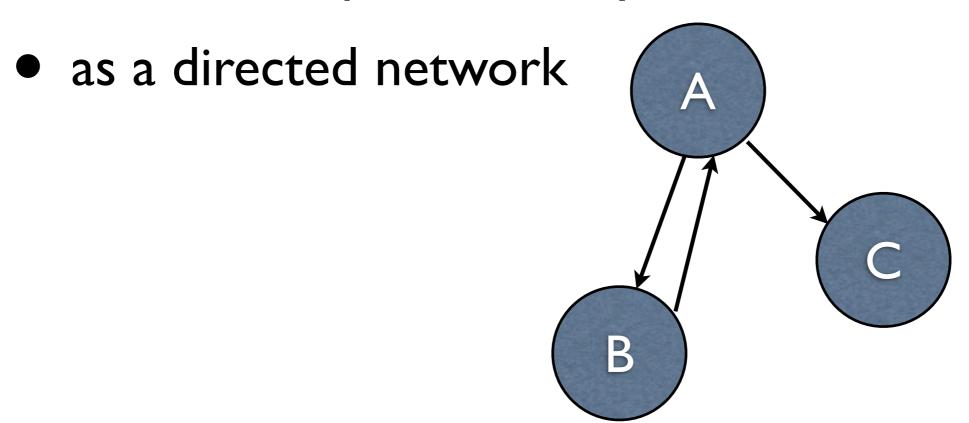
# Twitter followers network with Python

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@Elmos\_Buddy

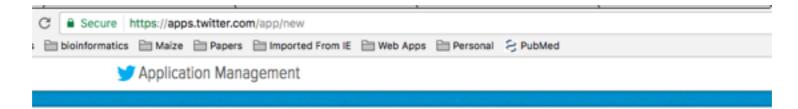
### Making a network of people I'm connected to

- I'm going to download my twitter connections
- and make a picture of my connections



# Step I: Create a Twitter App

- dev.twitter.com
- apps.twitter.com

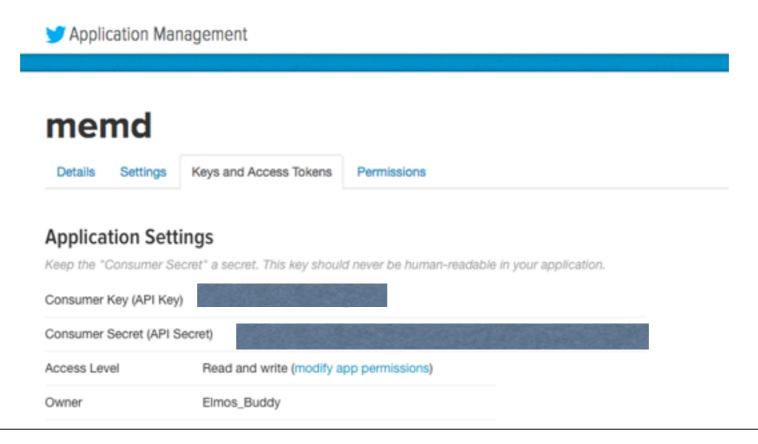


#### Create an application

Application Details
Name *
Your application name. This is used to attribute the source of a tweet and in user-facing authorization screens. 32 characters max.
Description *
Your application description, which will be shown in user-facing authorization screens. Between 10 and 200 characters max.
Website *
Your application's publicly accessible home page, where users can go to download, make use of, or find out more information about your applica
source attribution for tweets created by your application and will be shown in user-facing authorization screens.
(If you don't have a URL yet, just put a placeholder here but remember to change it later.)
Callback URL

#### Step 2: Get keys

- See <a href="https://python-twitter.readthedocs.io/">https://python-twitter.readthedocs.io/</a>
   en/latest/getting\_started.html
- i copied my keys to a file in json format just because :)



### Step 3: Install twitter and networkx

- pip install twitter
  - https://github.com/bear/python-twitter
  - https://python-twitter.readthedocs.io/en/ latest/
- pip install networkx
  - http://networkx.github.io/

# Step 4:Write some Python

import libraries and connect to the API

#### ....more python

Retrieve connections

```
# get who I'm following
friends = api.GetFriends()
fto = [item.screen_name for item in friends]

# get who is following me
followers = api.GetFollowers()
ffrom = [item.screen_name for item in followers]
```

#### ...and some more

 Make network connections. Here I'm creating a network of people I follow who follow me back

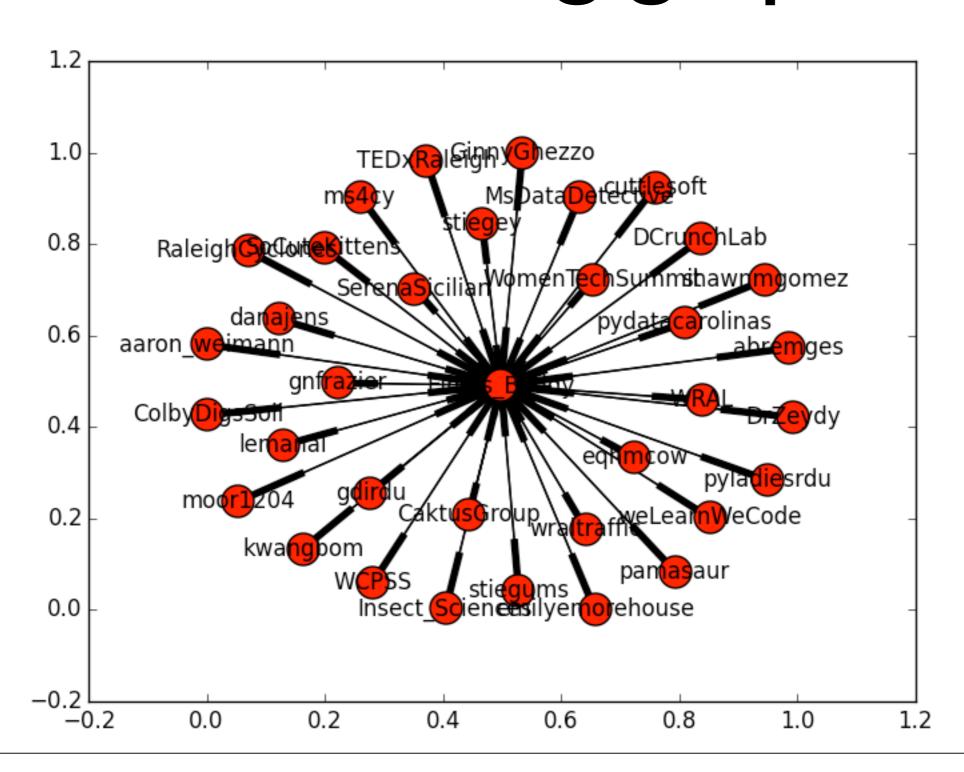
```
# make a directed graph
g = networkx.DiGraph()

for f in ffrom:
    if f in fto:
        g.add_edge("Elmos_Buddy",f)
        g.add_edge(f, "Elmos_Buddy")
```

Draw it with matplotlib and/or save it

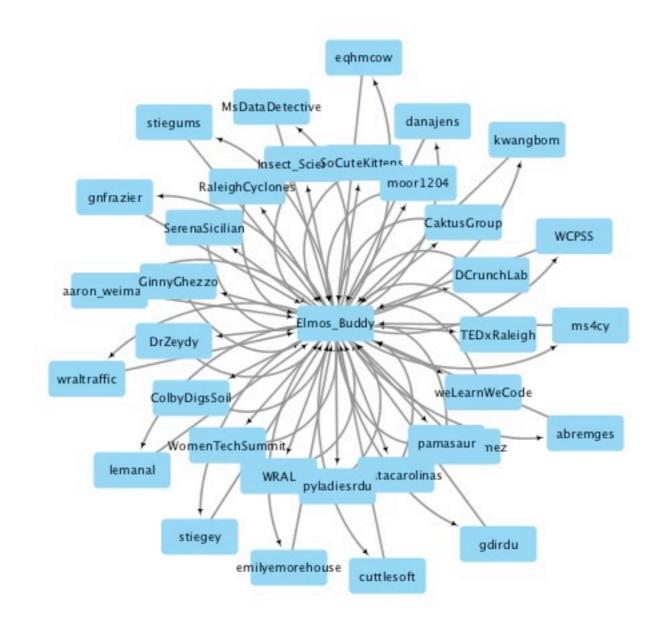
```
networkx.draw_networkx(g)
matplotlib.pyplot.savefig("blah.png")
networkx.write_gml(g,"blah.gml")
```

## Networkx is not the best for visualizing graphs



# Visualize with something else

• Drawn with cytoscape, <u>www.cytoscape.org</u>



### What else can you do with networkx?

- Save attributes to nodes and edges
- Many standard graph algorithms
- Find paths between nodes
- ....
- Active open source project, <a href="http://">http://</a>

   networkx.github.io/