Introduction to Network Analysis Methodologies and Tools

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Overview

- Data practices
- Discussion of network terms and concepts
  - Software deomnstration (Gephi, Cytoscape, and Python oh my!)
  - Python is live!

Basic Idea

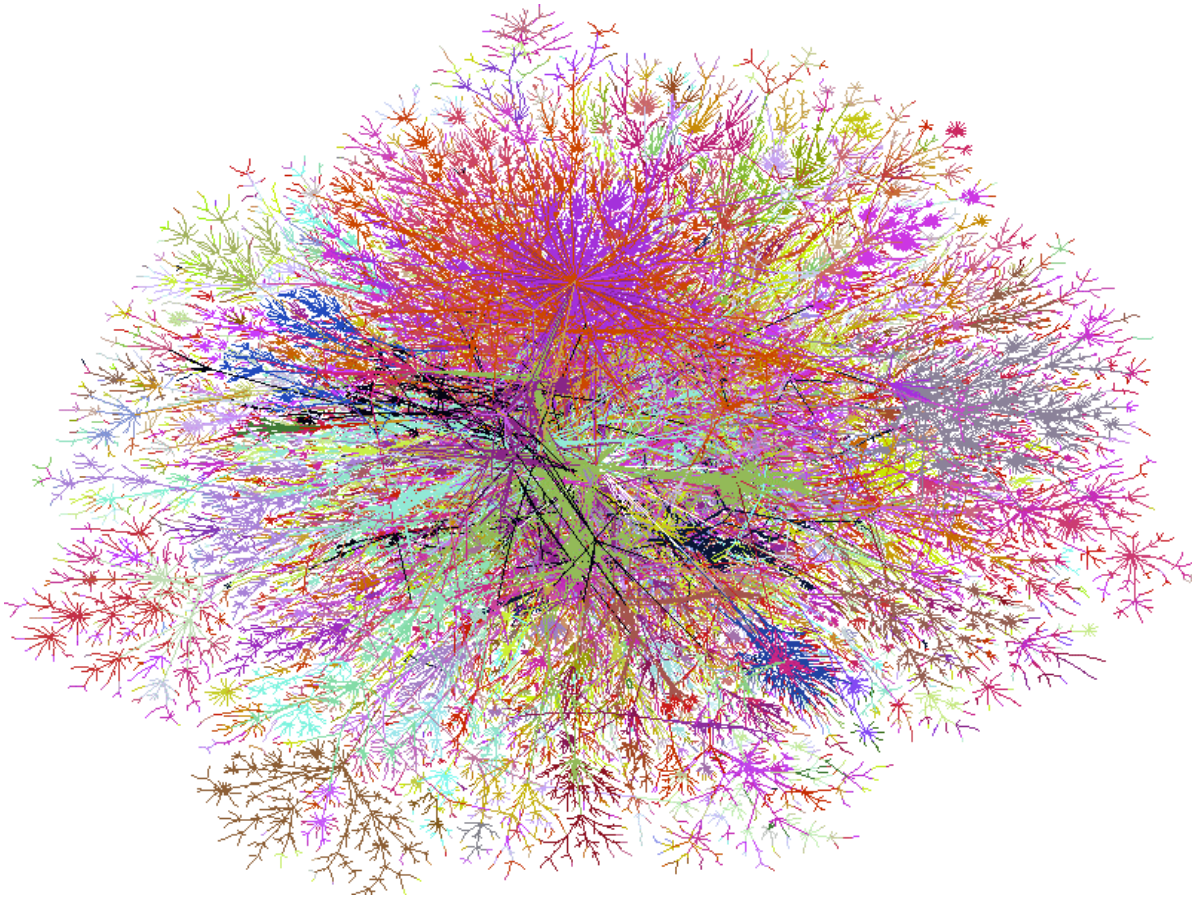
- Networks are a collection of entities
- At least some are *linked*
- All kinds of subject domains
- Very flexible definition

What is SNA?

- Method to perform visual and mathematical analysis of relationships
- Analysis has to be visually interesting / useful and mathematically rigorous
- Fundamental point: We are looking at networks
- Connections, connections, connections
- Networks are all over the place

What is SNA Used For?

- People
- Concepts
- Literature
- Biological Systems
- Electronic Systems



facebook
December 2010

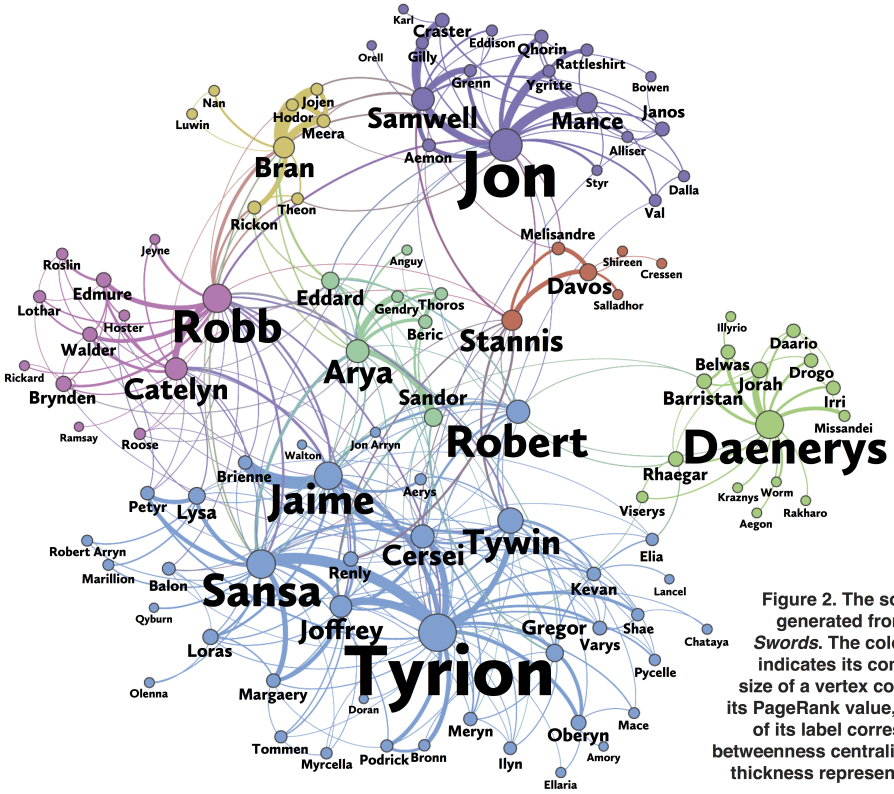
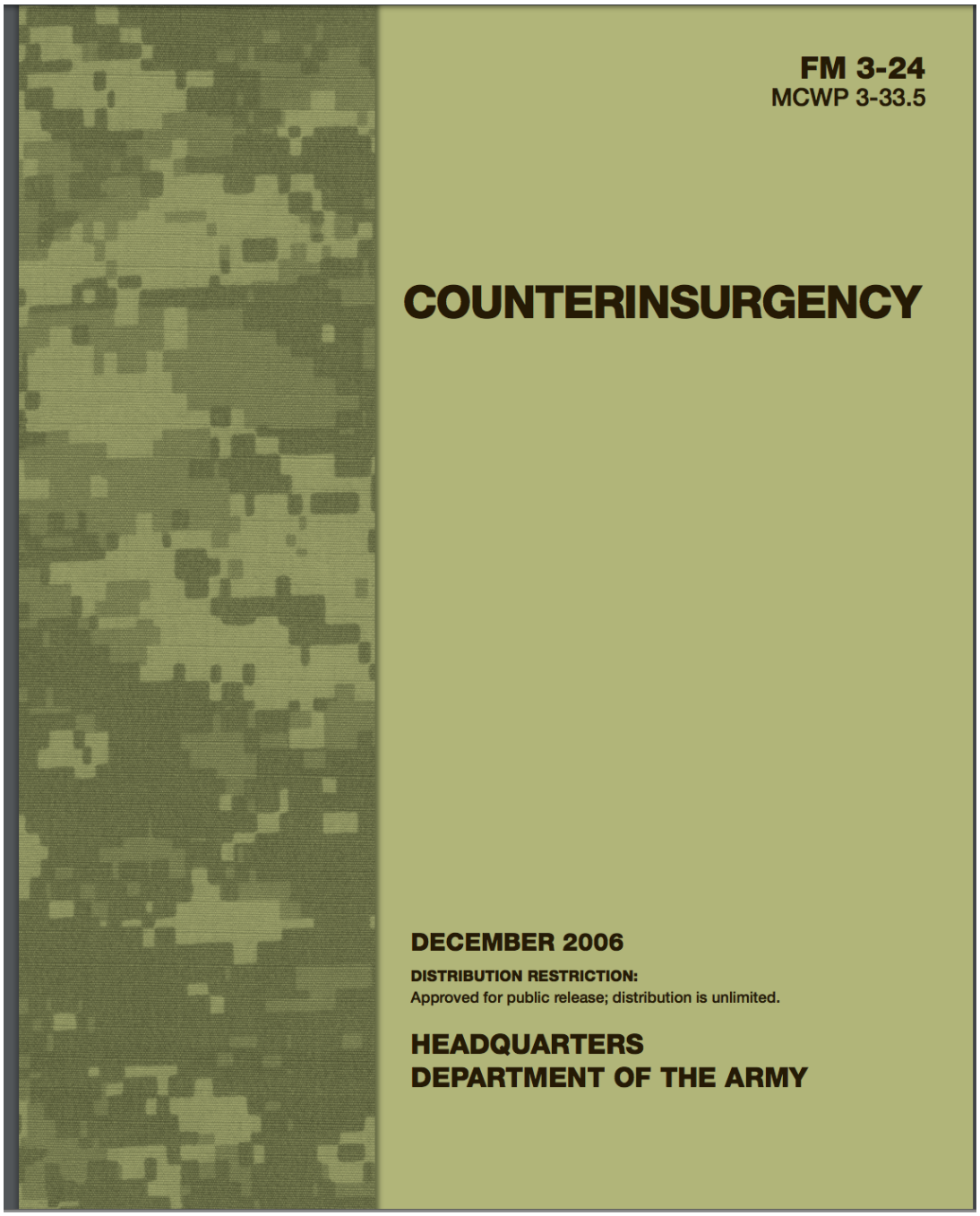


Figure 2. The social network generated from *A Storm of Swords*. The color of a vertex indicates its community. The size of a vertex corresponds to its PageRank value, and the size of its label corresponds to its betweenness centrality. An edge's thickness represents its weight.


FM 3-24
MCWP 3-33.5
COUNTERINSURGENCY
DECEMBER 2006
DISTRIBUTION RESTRICTION:
Approved for public release; distribution is unlimited.
HEADQUARTERS
DEPARTMENT OF THE ARMY

Events

B-26. Events are routine, cyclical, planned, or spontaneous activities that significantly affect organizations, people, and military operations. They are often symbols, as described in paragraph 3-51. Examples include the following:

- National and religious holidays.
- Agricultural crop, livestock, and market cycles.
- Elections.
- Civil disturbances.
- Celebrations.

B-27. Other events include disasters from natural, manmade, or technological sources. These create hardships and require emergency responses. Examples of events precipitated by military forces include combat operations, deployments, redeployments, and paydays. Once significant events are determined, it is important to template the events and analyze them for their political, economic, psychological, environmental, and legal implications.

EVALUATE THE THREAT

B-28. Evaluating the threat involves analyzing insurgent organizations, capabilities, and tactics to identify vulnerabilities to exploit. Tools like social network analysis, link diagrams, and association matrices help analysts do this. Other tools such as historical time lines and pattern analysis tools assist in developing event and doctrinal templates to depict enemy tactics.

SOCIAL NETWORK ANALYSIS

B-29. Social network analysis (SNA) is a tool for understanding the organizational dynamics of an insurgency and how best to attack or exploit it. It allows analysts to identify and portray the details of a network structure. Its shows how an insurgency's networked organization behaves and how that connectivity affects its behavior. SNA allows analysts to assess the network's design, how its member may or may not act autonomously, where the leadership resides or how it is distributed among members, and how hierarchical dynamics may mix or not mix with network dynamics.

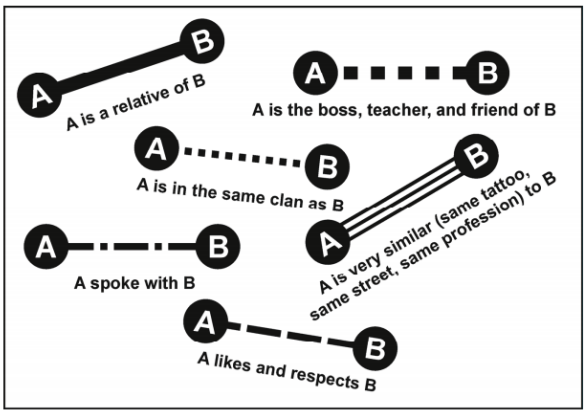


Figure B-5. Examples of dyads

Basic Terms

Nodes

Edges

Graph

Nodes

- The “stuff” you are looking at
- Any attributes you want!
- Traditionally represented by circles on a graph
- May see “actors” used

Edges

- What links your *nodes*
  - Sometimes called links
  - Up to us to define what this means
- Think of this workshop
- Can have *weight*
- Lines on a *graph*

Graph

- Mathematical models of network structures
- There are rules!

Undirected Graph

- Direction of the relationship does not matter
- No arrows are needed
- "Default" for many SNA discussions

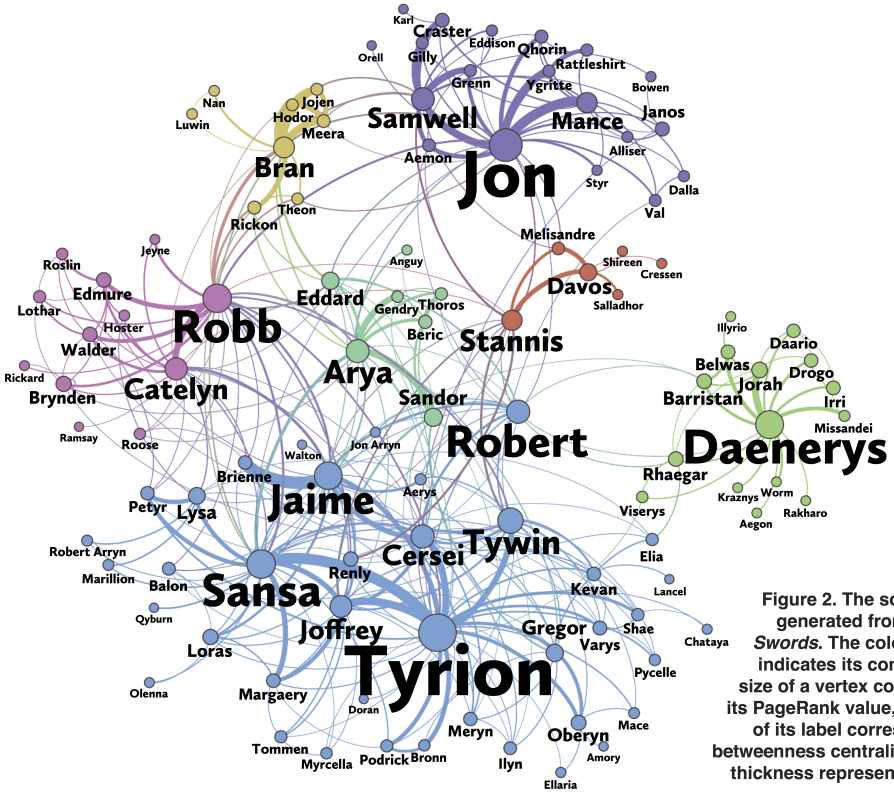
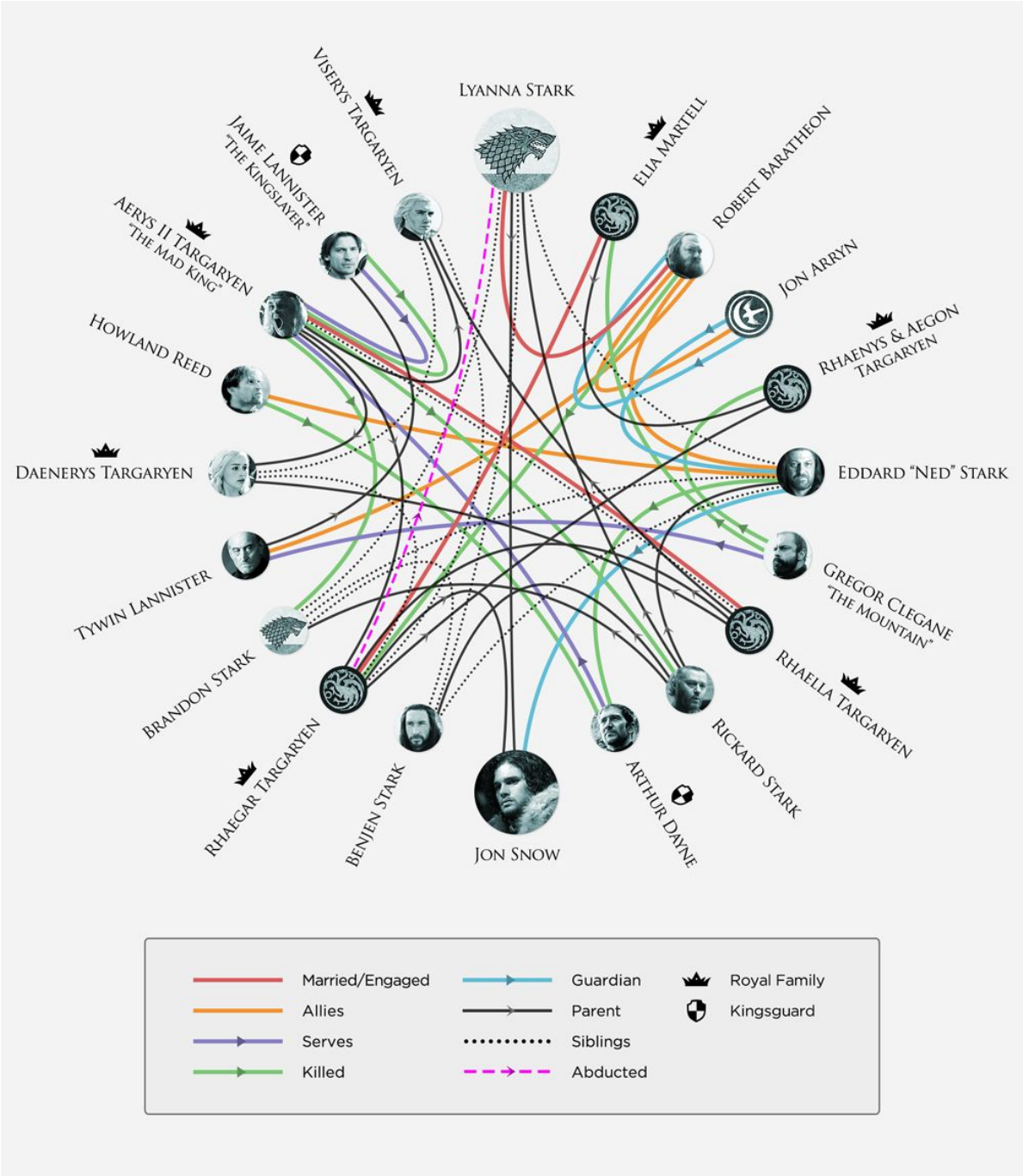


Figure 2. The social network generated from *A Storm of Swords*. The color of a vertex indicates its community. The size of a vertex corresponds to its PageRank value, and the size of its label corresponds to its betweenness centrality. An edge's thickness represents its weight.

Symmetrical and Asymmetrical Edges

- Sometimes not enough to simply show a connection
- A $\rightarrow$ B but not the other way around
- Directed graph: Directed nodes and directed edges

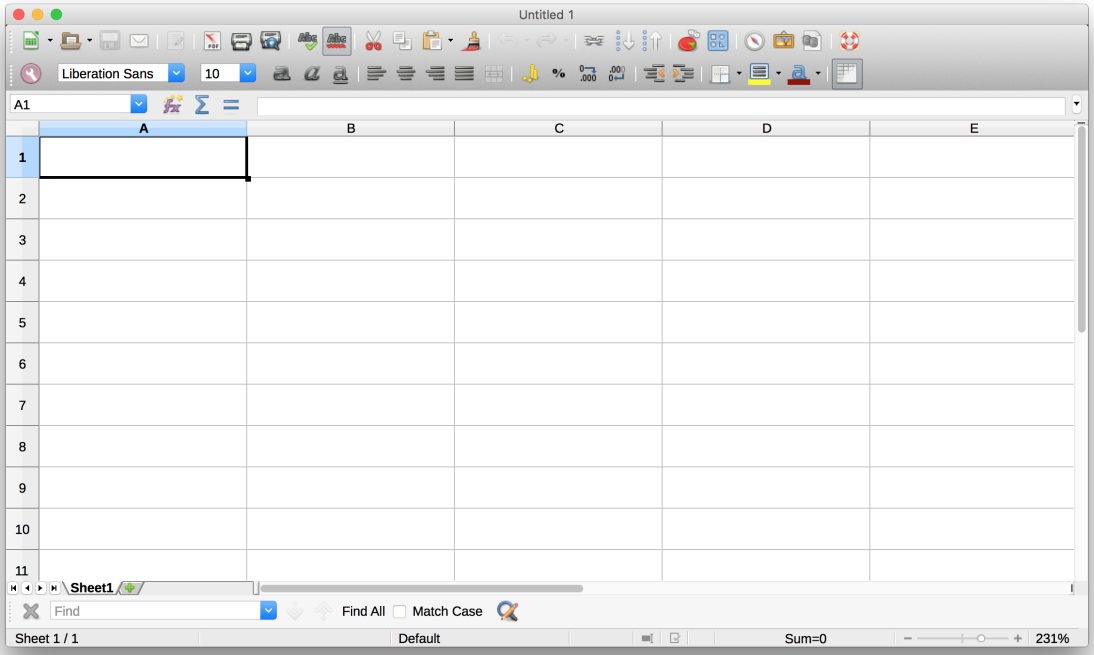

Lyanna Stark
Viserys Targaryen
Elia Martell
Robert Baratheon
Jaime Lannister "The Kingslayer"
Aerys II Targaryen "The Mad King"
Jon Arryn
Howland Reed
Rhaenys & Aegon Targaryen
Daenerys Targaryen
Eddard "Ned" Stark
Tywin Lannister
Gregor Clegane "The Mountain"
Brandon Stark
Rhaella Targaryen
Rickard Stark
Rhaegar Targaryen
Benjen Stark
Jon Snow
Arthur Dayne
Married/Engaged
Allies
Serves
Killed
Guardian
Parent
Siblings
Abducted
Royal Family
Kingsguard

What About Data?

Some Things to Consider

- What is your data?
- What are you trying to show?
- How are you going to organize your data?
  - Are there standards in your field?
- In short: Think a lot about database design!

Data Tools: The Basics



Basics

- Most basic level: Spreadsheet with two columns
- Entries need to be in the same format AND have the same spellings, etc
- AT MOST two different *types* of entities
- More information is good!

Some Best Practices

- Create a unique identifier
- Each column contains the same category of data in every row in the column
- Each row in the spreadsheet contains all of the fields of data for one entity
- The first row of the spreadsheet must contain a unique name at the top of each column
- No blank rows
- Think about attributes!

More Best Practices

- Do not be afraid to make multiple spreadsheets!
  - These can translate into multiple tables in a database
- Think about the minimum work needed to maintain and update your data
- Document!

Modes vs Types

- Modes tell you what is in the graph
  - People, people and things, etc
- Types tell you what kind of graph it is
  - Are we looking at an individual? Group? Text?

One Mode / Unipartite Networks

- Relationships among a single set of similar nodes
- Same type of nodes
- Same type of edges
  - Some differentiation allowed; i.e. parent / child relationships

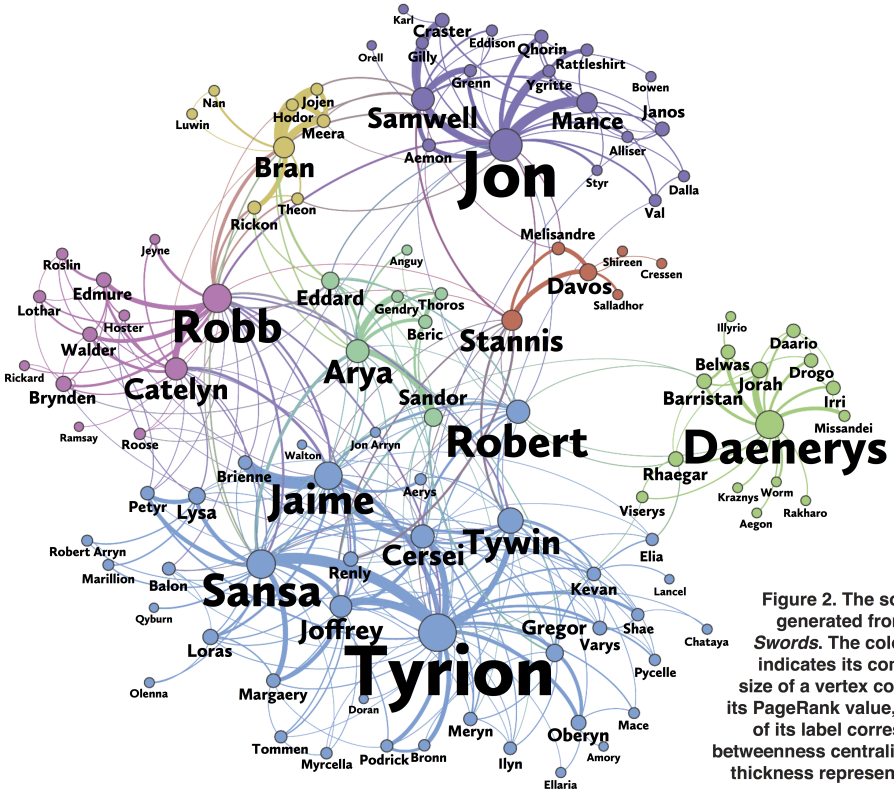
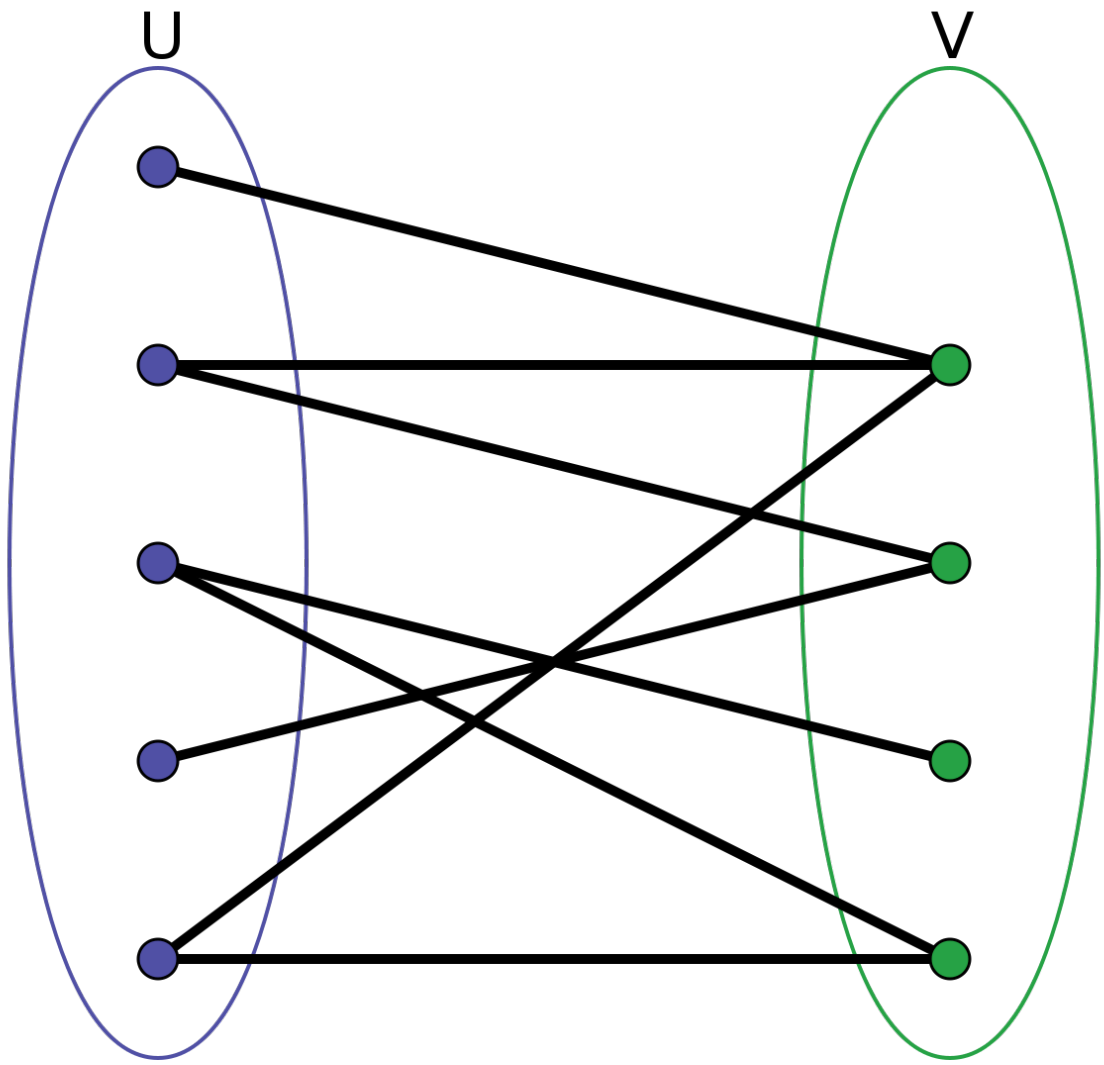


Figure 2. The social network generated from *A Storm of Swords*. The color of a vertex indicates its community. The size of a vertex corresponds to its PageRank value, and the size of its label corresponds to its betweenness centrality. An edge's thickness represents its weight.

Two Mode / Multipartite Networks

- Relations among two (or more!) different sets of nodes
  - Can be two different sets of people
- Also used between nodes of different conceptual type
  - People vs. interests / events
  - Important for the analysis of weak ties – we will get into this shortly



Making a Graph: Two Basic Ways

Edges Only

Edges + Nodes

Edges Only

Pros

- Quick and dirty
- Can get network stats fast
- Less data overhead to deal with
- Can specify connections

Cons

- No information about nodes
- Hard to filter / query
- Stuck with one data relationship

Edges + Nodes

Pros

- Can include far more information
- Can specify connections
- Data can be used elsewhere

Cons

- More information overhead
- Separation of network data
- Longer process to make a network

First Networks

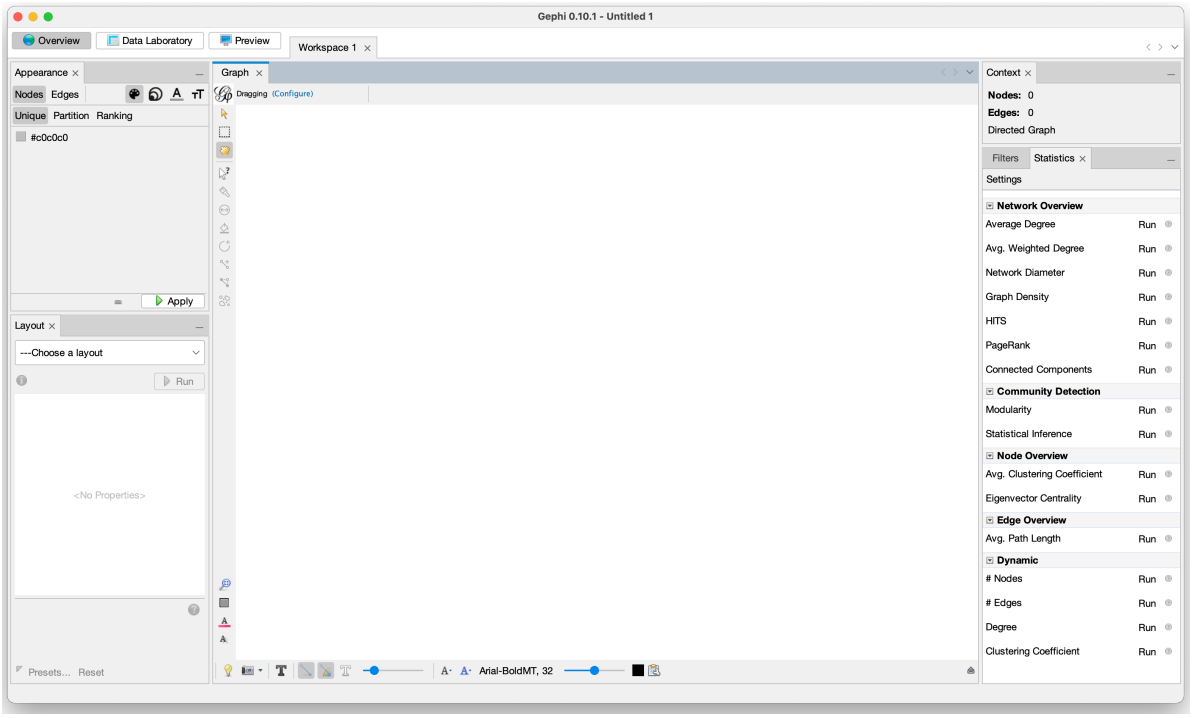
Start with just edges in:

Gephi

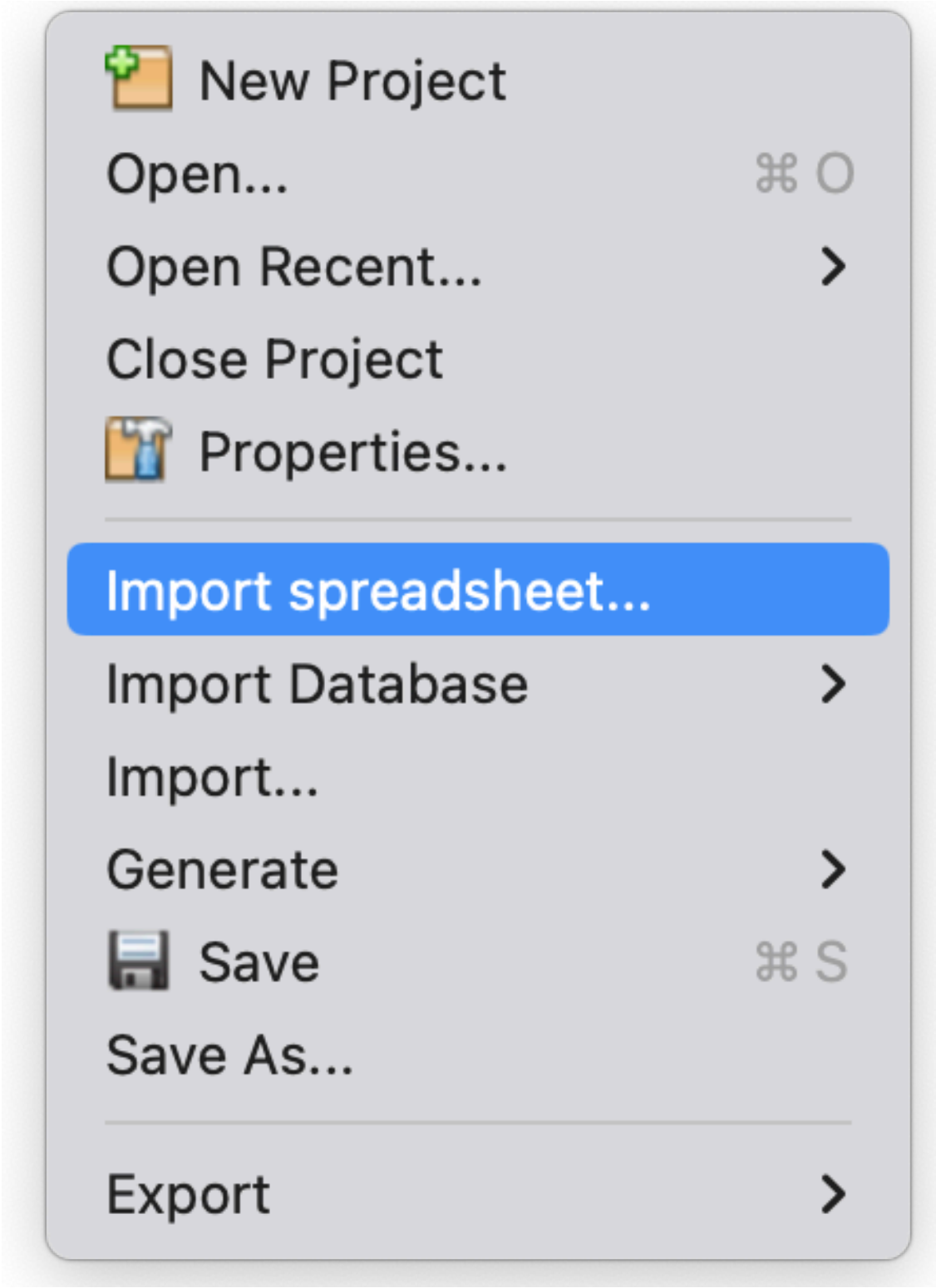
Cytoscape

Python

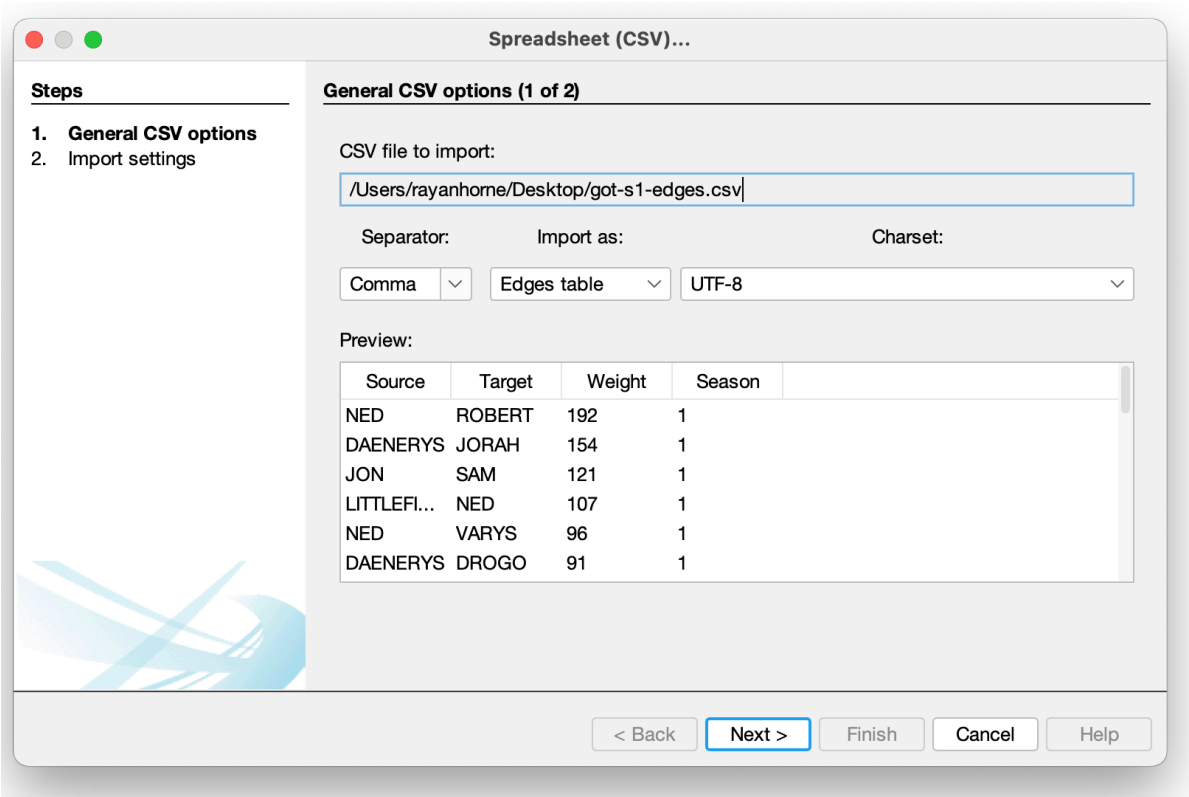
Gephi


Gephi 0.10.1 - Untitled 1
Overview
Data Laboratory
Preview
Workspace 1
Appearance
Nodes
Edges
Unique
Partition
Ranking
#c0c0c0
Apply
Layout
---Choose a layout
Run
<No Properties>
Presets...
Reset
Graph
Dragging
(Configure)
Arial-BoldMT, 32
Context
Nodes: 0
Edges: 0
Directed Graph
Filters
Statistics
Settings
Network Overview
Average Degree
Avg. Weighted Degree
Network Diameter
Graph Density
HITS
PageRank
Connected Components
Community Detection
Modularity
Statistical Inference
Node Overview
Avg. Clustering Coefficient
Eigenvector Centrality
Edge Overview
Avg. Path Length
Dynamic
Nodes
Edges
Degree
Clustering Coefficient
Run

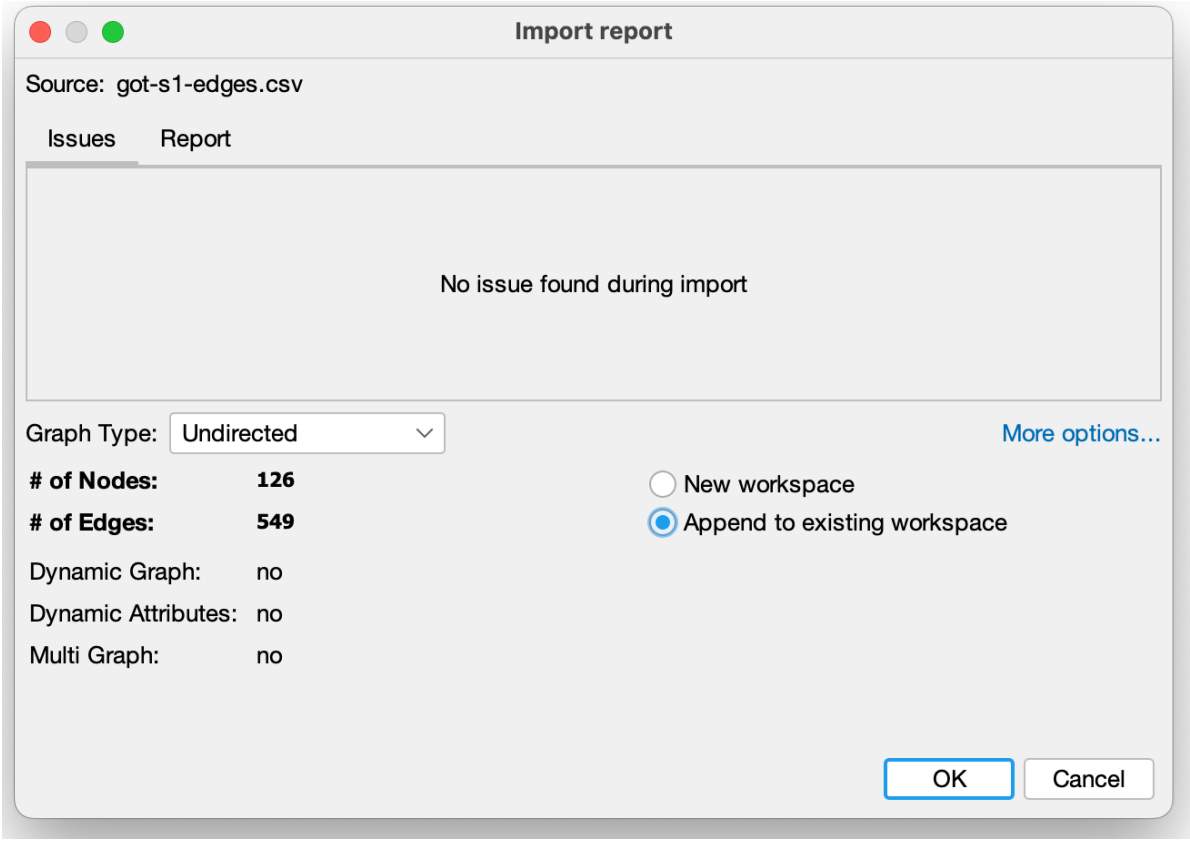
Gephi


New Project
Open...
⌘ O
Open Recent...
Close Project
Properties...
Import spreadsheet...
Import Database
Import...
Generate
Save
⌘ S
Save As...
Export

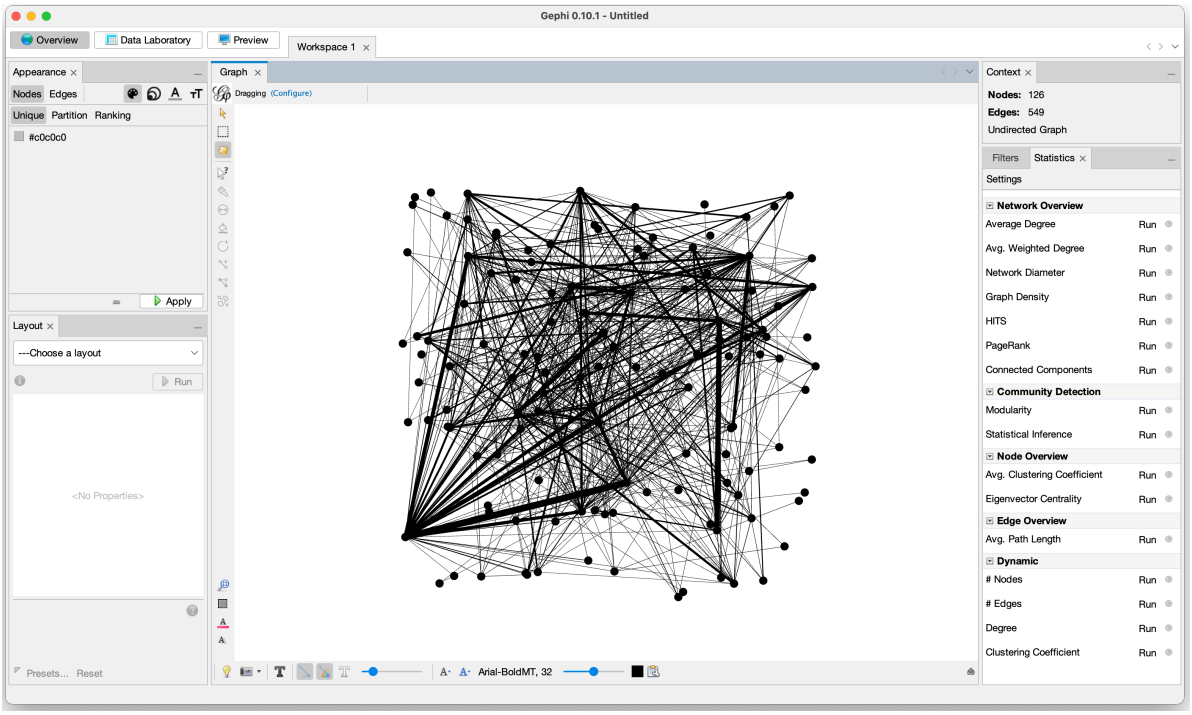
Gephi


Spreadsheet (CSV)...
Steps
1. General CSV options
2. Import settings
General CSV options (1 of 2)
CSV file to import:
/Users/rayanhorne/Desktop/got-s1-edges.csv
Separator:
Import as:
Charset:
Comma
Edges table
UTF-8
Preview:
Source Target Weight Season
NED ROBERT 192 1
DAENERYS JORAH 154 1
JON SAM 121 1
LITTLEFI... NED 107 1
NED VARYS 96 1
DAENERYS DROGO 91 1
< Back
Next >
Finish
Cancel
Help

Gephi


Import report
Source: got-s1-edges.csv
Issues
Report
No issue found during import
Graph Type:
Undirected
More options...
# of Nodes:
126
# of Edges:
549
Dynamic Graph:
no
Dynamic Attributes:
no
Multi Graph:
no
New workspace
Append to existing workspace
OK
Cancel

Gephi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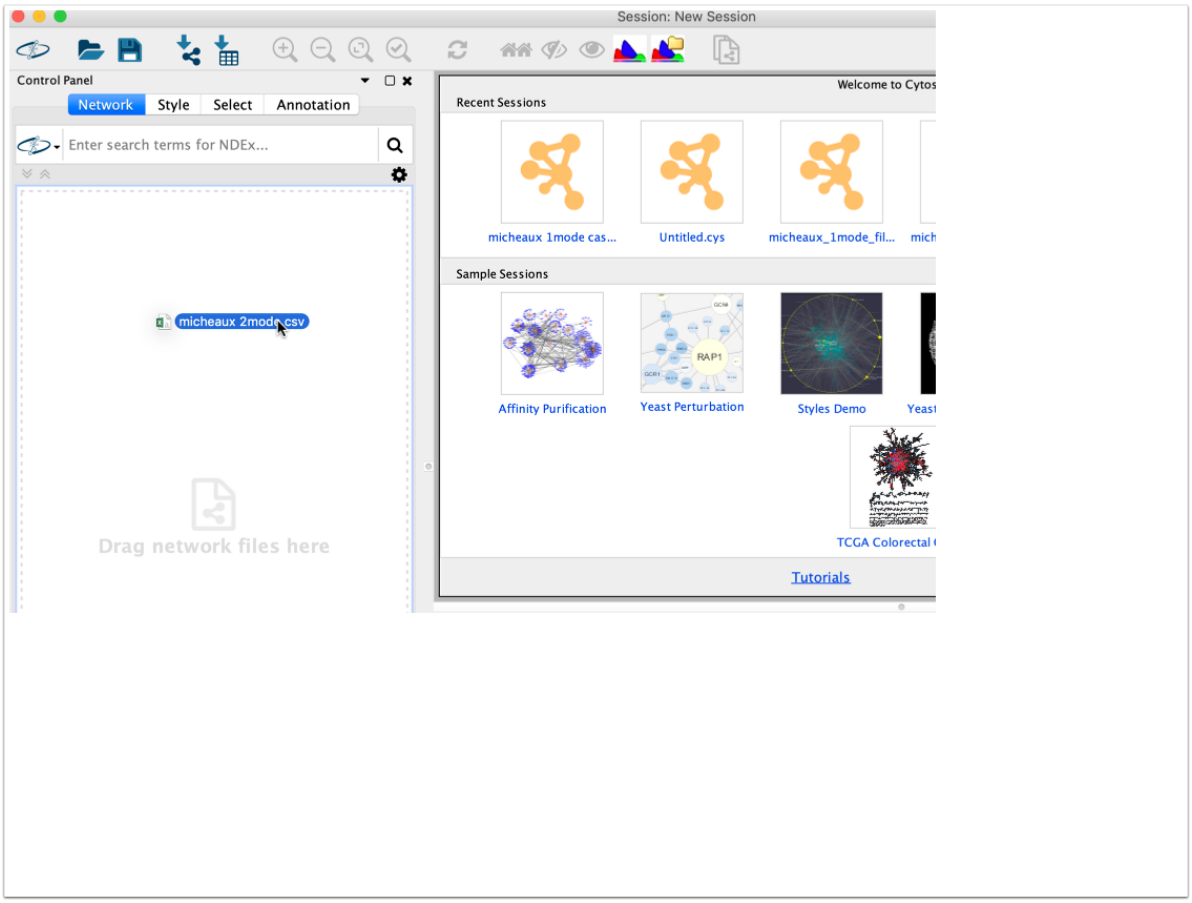
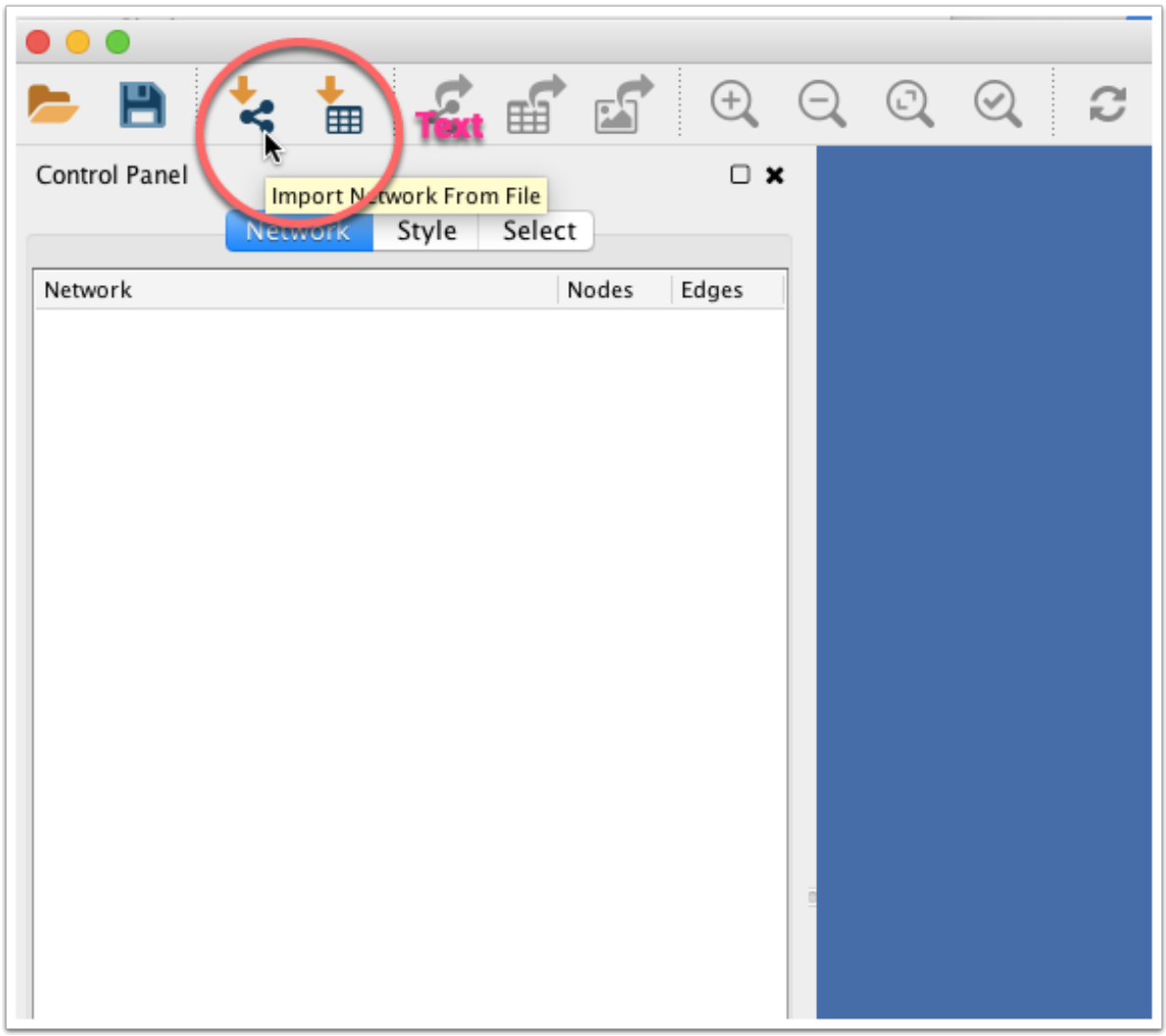
Avg. Clustering Coefficient
Eigenvector Centrality
Edge Overview
Avg. Path Length
Dynamic
Nodes
Edges
Degree
Clustering Coefficient
Run

Cytoscape



Cytoscape: Add Edges the Hard Way

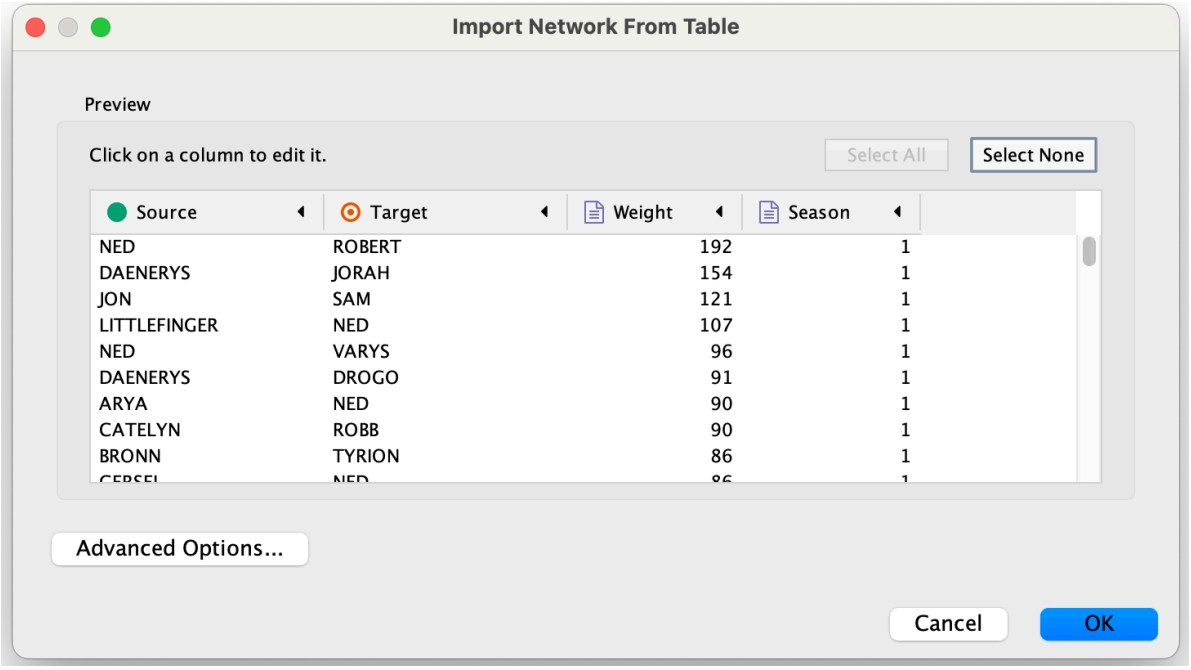
Import Network from File button (circled below) and select your edge list.



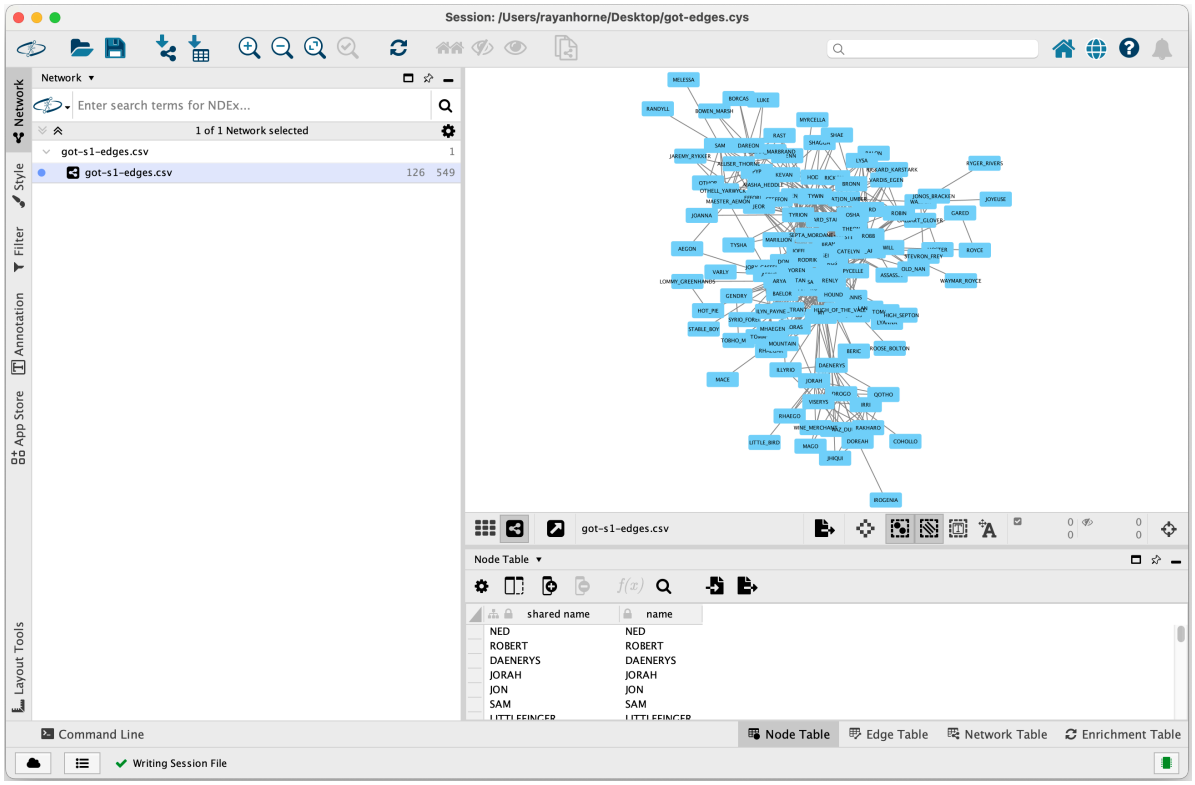
Cytoscape: What's What

- We need to tell Cytoscape that the edge list we've provided contains *sources* in one column and *targets* in another.
- This is an *undirected graph*
  - Does order matter?
- Green and Red icons

Cytoscape: What's What



Cytoscape Graph



Python

Python Code

```
import networkx as nx
import csv
import pandas as pd
from community import community_louvain
import matplotlib.cm as cm
import matplotlib.pyplot as plt

# First, get the edge data
url = 'https://raw.githubusercontent.com/mathbeveridge/gameofthrones/master/data/got-s1-edges
dfedges = pd.read_csv(url)
dfedges
```

Result

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dfedges
```

	Source	Target	Weight	Season
0	NED	ROBERT	192	1
1	DAENERYS	JORAH	154	1
2	JON	SAM	121	1
3	LITTLEFINGER	NED	107	1
4	NED	VARYS	96	1
...	...	...	...	...
544	SANSA	STANNIS	2	1
545	STANNIS	TOMARD	2	1
546	THEON	WILL	2	1
547	TYRION	TYSHA	2	1
548	TYRION	VARYS	2	1

Python Graphs

Python Code

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import csv
import pandas as pd
from community import community_louvain
import matplotlib.cm as cm
import matplotlib.pyplot as plt
```

```
# First, get the edge data
url = 'https://raw.githubusercontent.com/mathbeveridge/gameofthrones/master/data/got-s1-edges
dfedges = pd.read_csv(url)
# Dataset is now stored in a Pandas Dataframe

# Now we create the graph from the edge list. We need to specify the column names as they are
G = nx.from_pandas_edgelist(dfedges, source="Source", target = "Target", edge_attr=True)
# Draw the graph!
pos = nx.spring_layout(G, k=1, iterations=20)
nx.draw(G, pos, with_labels=True)
```

Result

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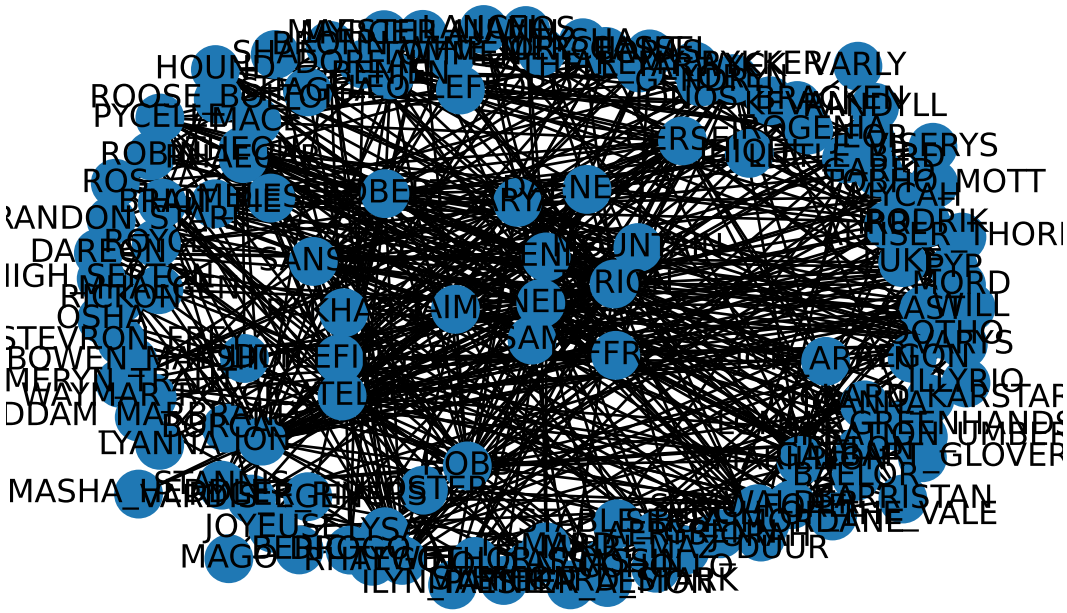
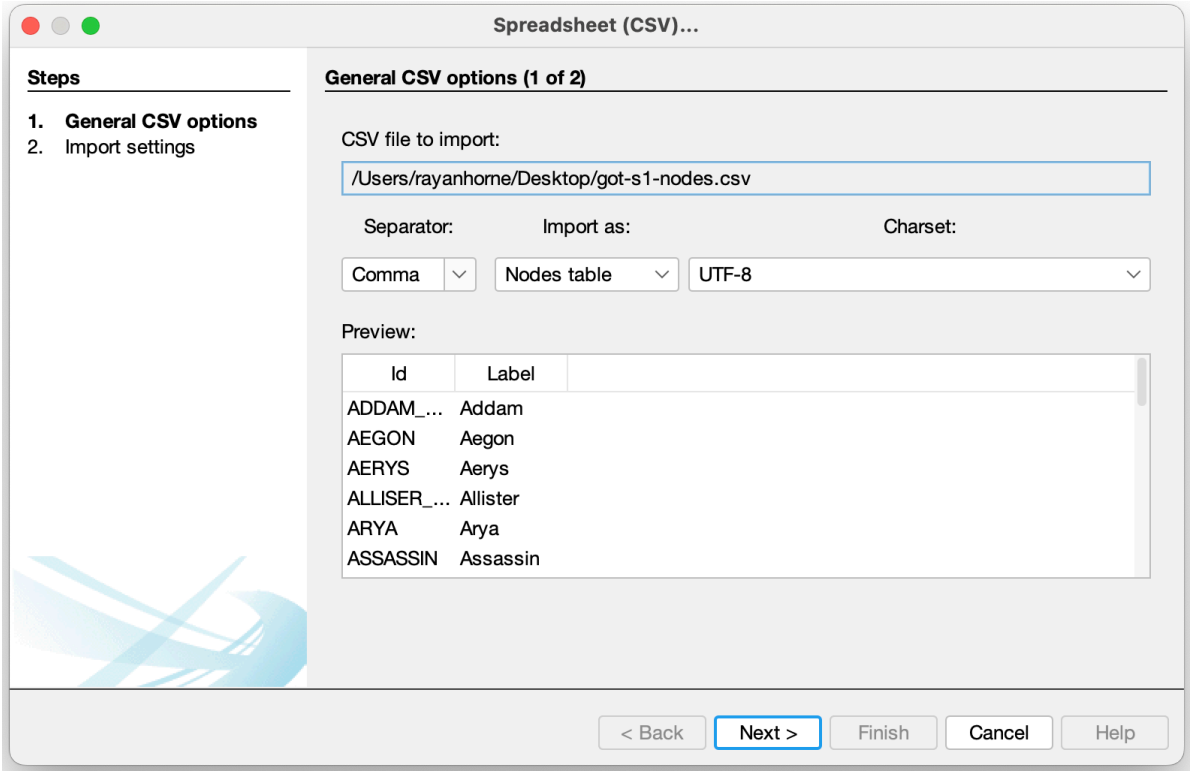


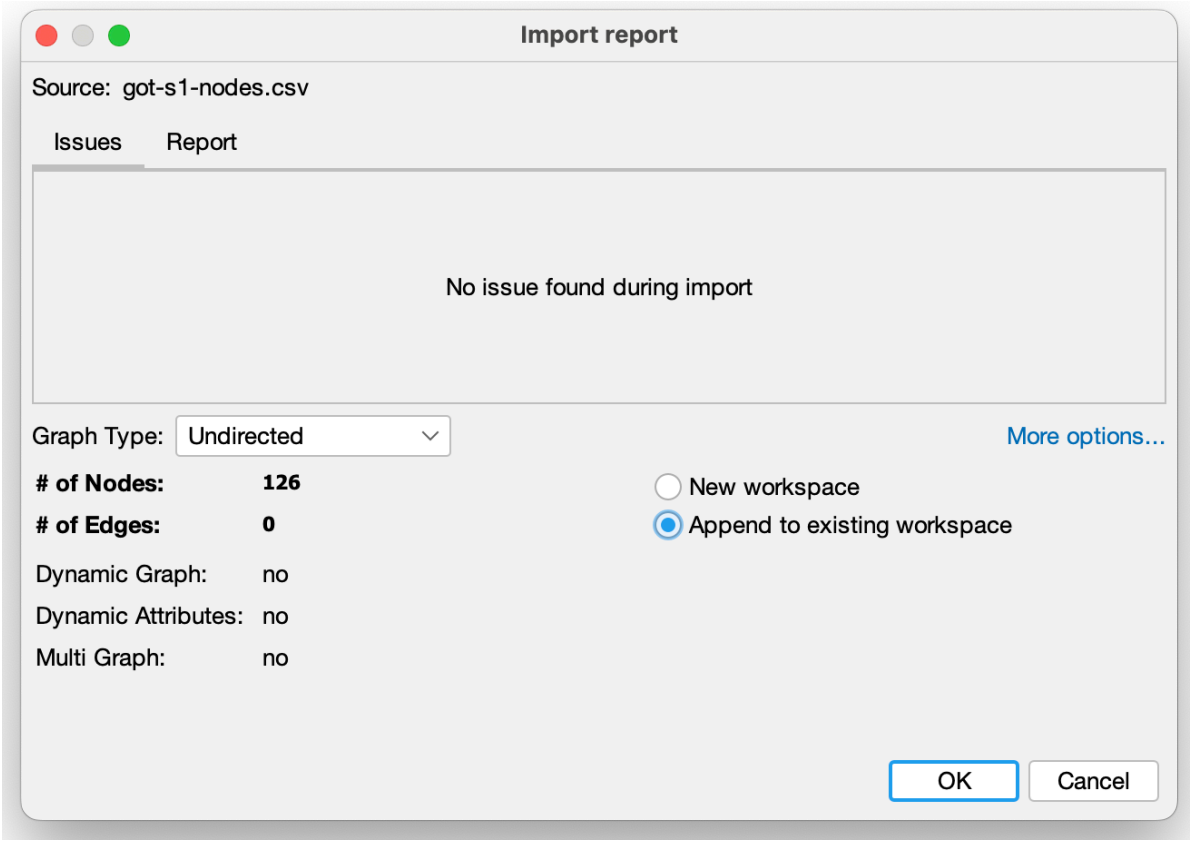
Edges Only: Only Node Information

- No information about nodes
- Our data set does not have much, but you will see how to add it

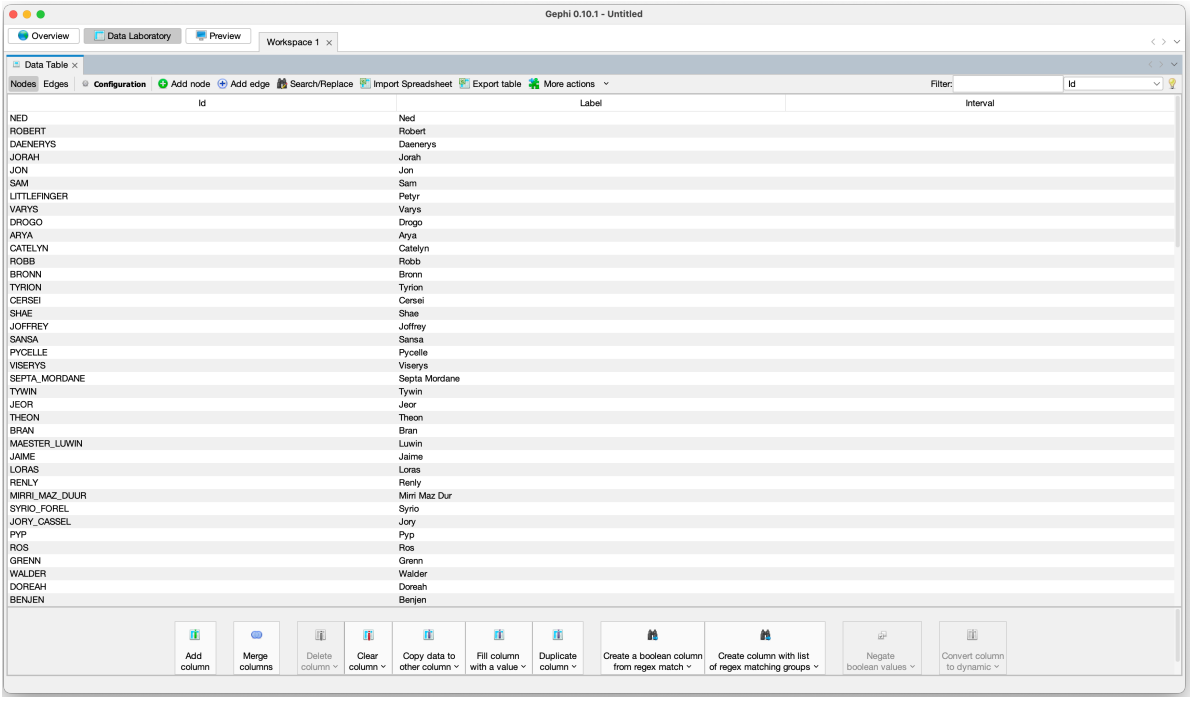
Gephi: Add Nodes



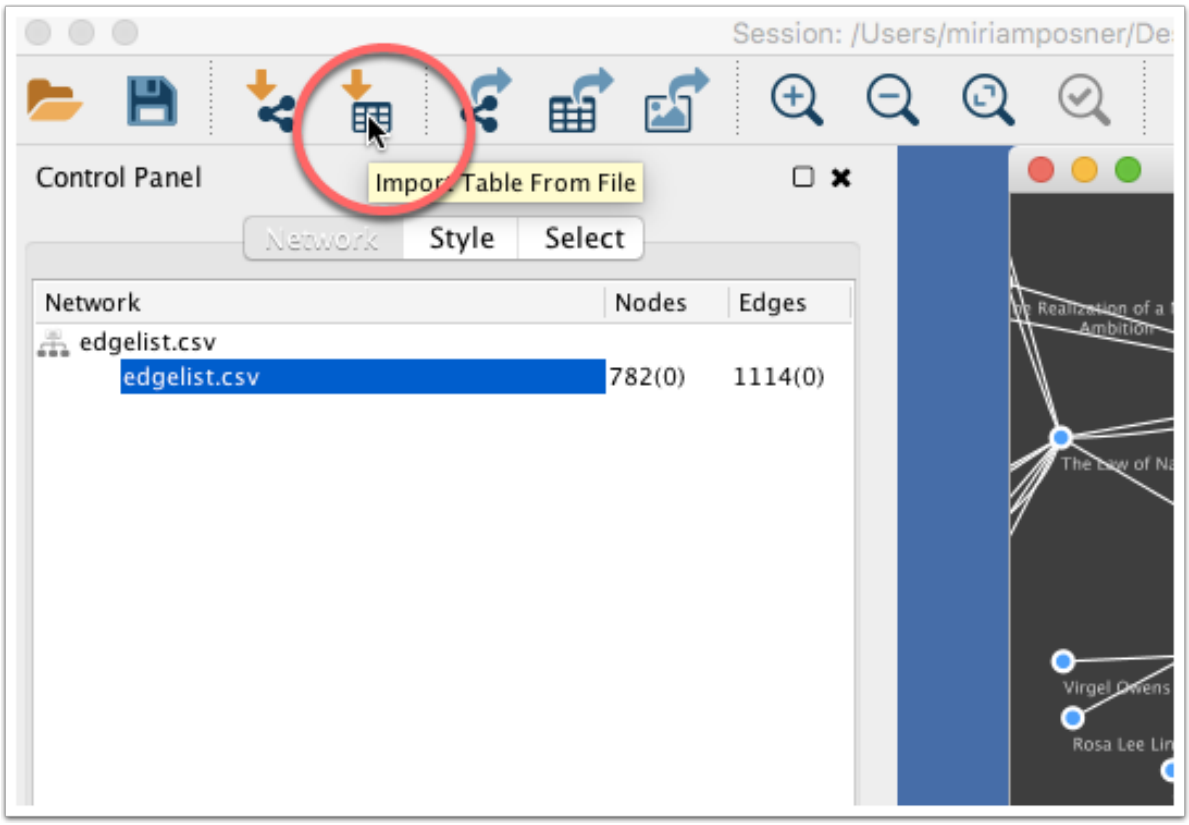
Gephi: Node Settings



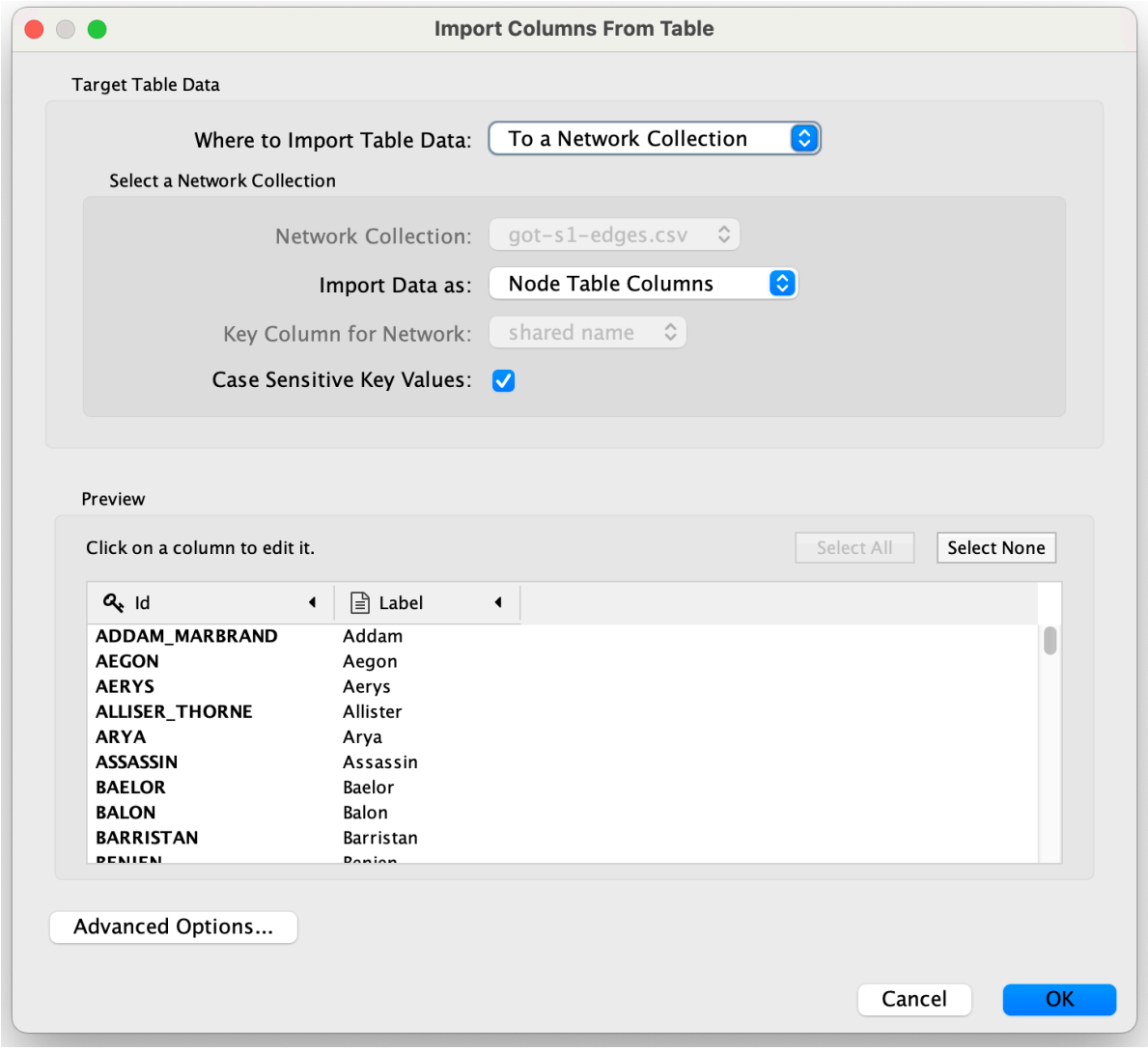
Gephi: Node Information



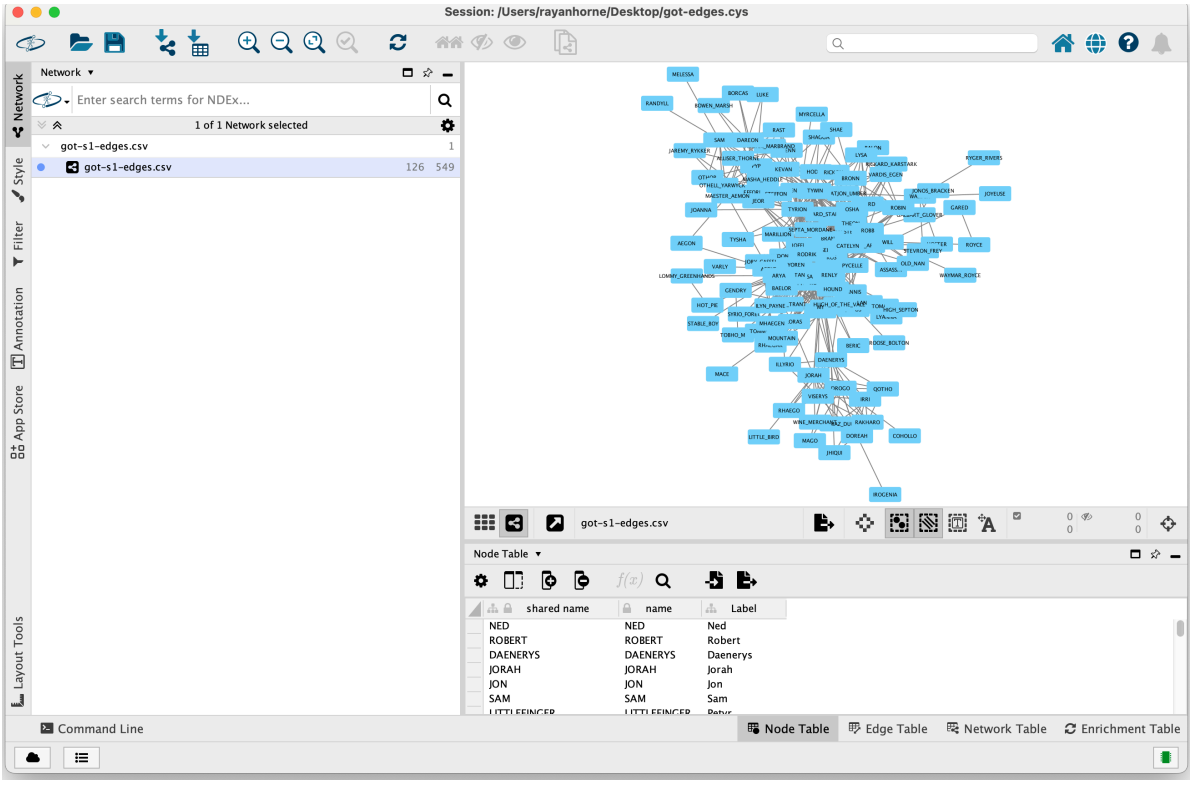
Cytoscape: Add Nodes



Cytoscape: Node Settings



Cytoscape: Results



Python: Nodes

Python Code

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dfedges = pd.read_csv(url)

# Now get the node data
```

```
urlNode = 'https://raw.githubusercontent.com/mathbeveridge/gameofthrones/master/data/got-s1-n
dfnodes = pd.read_csv(urlNode)

# Dataset is now stored in a Pandas Dataframe

# Now we create the graph from the edge list. We need to specify the column names as they are
G = nx.from_pandas_edgelist(dfedges, source="Source", target = "Target", edge_attr=True)
data = dfnodes.set_index('Id').to_dict('index').items()
G.add_nodes_from(data)

print(G.nodes(data=True))
```

Result

```
import networkx as nx
import csv
import pandas as pd
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data = dfnodes.set_index('Id').to_dict('index').items()
G.add_nodes_from(data)

print(G.nodes(data=True))
```

```
[('NED', {'Label': 'Ned'}), ('ROBERT', {'Label': 'Robert'}), ('DAENERYS', {'Label': 'Daenerys
```

Why Not Just Combine the Lists Later?

- You *can*, but...
  - You can use node attributes for styling
  - You can use node attrbutes for filtering
  - Many other uses

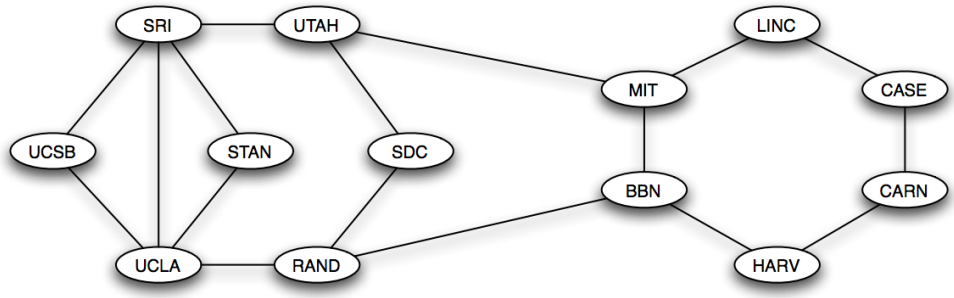
Exploring our Graph: Paths

- Movement in a graph via edges
- Sequence of nodes connected via edges
- *Simple path*: A path that does not repeat nodes

Connectivity

- Path between every pair of nodes
- Goal of most designed networks
- NOT a necessary feature of graphs though!
- There are social networks with disconnected features

Example – Anyone know what this is?

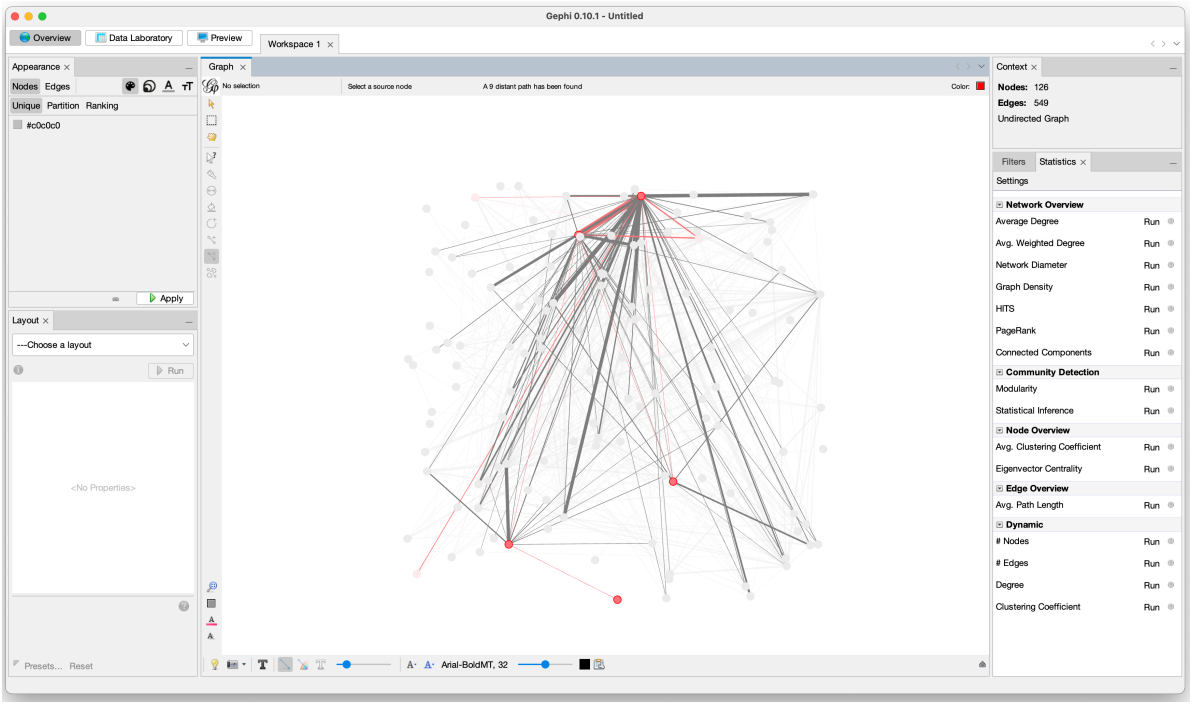


Graph Distance

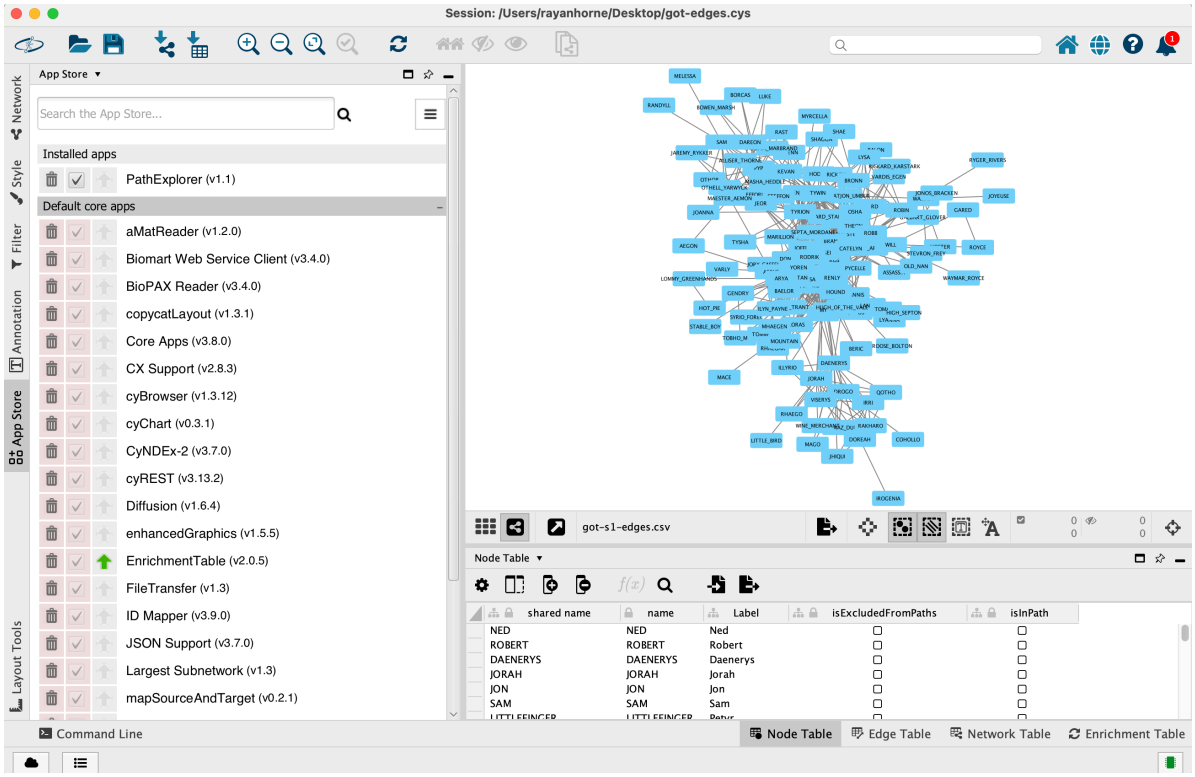
- Not geographic (mostly!)
- Distance = length of the shortest path between two nodes
  - Number of edges

- Sometimes we can simply look at this
- Other times…we need computers!

Gephi: Path



Cytoscape: Paths



Cytoscape: Paths

I....can't get these to work right. There is javascript code though!

Python: Graph Distance

Python Code

```
path = dict(nx.all_pairs_shortest_path(G))
path
```

Result

```
path = dict(nx.all_pairs_shortest_path(G))
path
```

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Python: Paths

Python Code

```
import networkx as nx
import csv
import pandas as pd
from community import community_louvain
import matplotlib.cm as cm
import matplotlib.pyplot as plt

# First, get the edge data
url = 'https://raw.githubusercontent.com/mathbeveridge/gameofthrones/master/data/got-s1-edges
dfedges = pd.read_csv(url)
# Dataset is now stored in a Pandas Dataframe

# Now we create the graph from the edge list. We need to specify the column names as they are
G = nx.from_pandas_edgelist(dfedges, source="Source", target = "Target", edge_attr=True)
# Draw the graph!
pos = nx.spring_layout(G, k=4, iterations=20)
nx.draw(G, pos, with_labels=True, node_size=5, font_size=5, width=.2)
# draw path in red
path = nx.shortest_path(G,source='HUGH_OF_THE_VALE',target='MIRRI_MAZ_DUUR')
path_edges = list(zip(path,path[1:]))
nx.draw_networkx_nodes(G,pos,nodelist=path,node_color='r')
nx.draw_networkx_edges(G,pos,edgelist=path_edges,edge_color='r',width=10)
plt.axis('equal')
plt.show()
```

Result

```
import networkx as nx
import csv
import pandas as pd
from community import community_louvain
import matplotlib.cm as cm
import matplotlib.pyplot as plt

# First, get the edge data
url = 'https://raw.githubusercontent.com/mathbeveridge/gameofthrones/master/data/got-s1-edges
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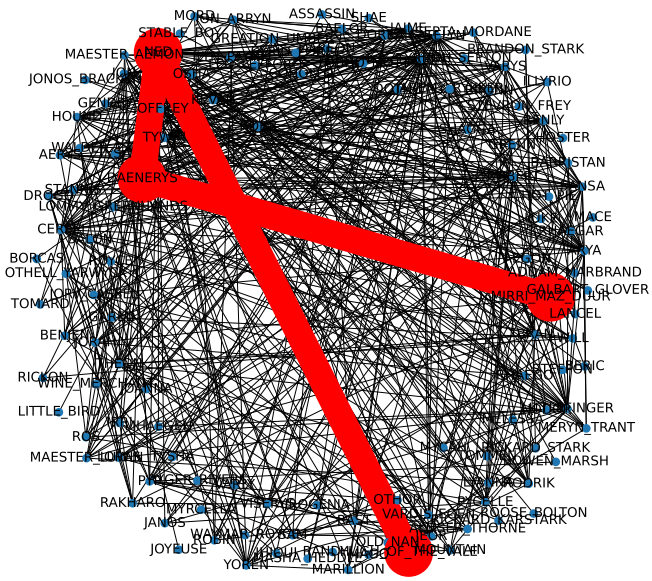
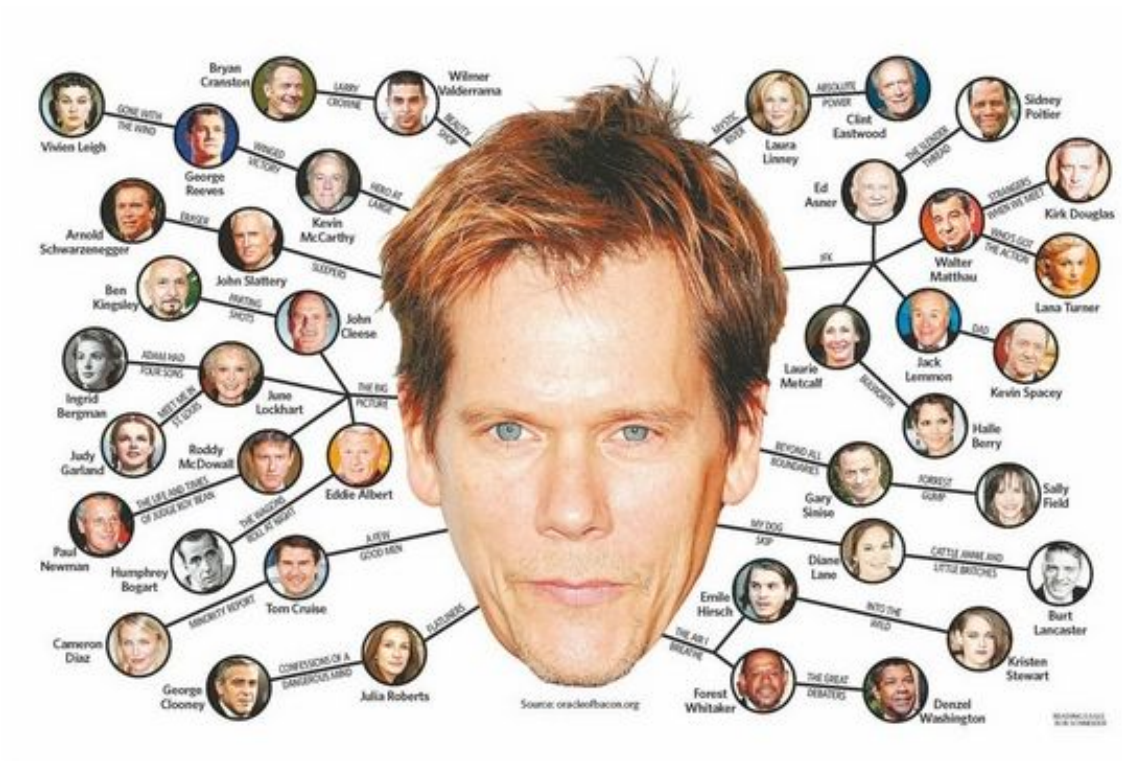


Small-world phenomenon

- Shorter path then you would think to get from one node to another
- Origin of the term "six degrees of separation"
- Practical terms: Who has a friend from another country?



Components

- Natural breaks for connected portions of a graph
- Connected component of a graph
  - Every node in the subset has a path to each other

Giant Component

Informal definition: Connected component that contains a significant fraction of all the nodes

- Return to Game of Thrones: People who want Joffrey dead. Not **everybody**, but close!
- Most networks only have one giant component

Python: Giant Component

Python Code

```
# Draw the graph!
pos = nx.spring_layout(G, k=1, iterations=20)
Gcc = sorted(nx.connected_components(G), key=len, reverse=True)
G0 = G.subgraph(Gcc[0])
nx.draw(G0, pos, with_labels=True)
```

Result

```
# Draw the graph!
pos = nx.spring_layout(G, k=1, iterations=20)
Gcc = sorted(nx.connected_components(G), key=len, reverse=True)
G0 = G.subgraph(Gcc[0])
nx.draw(G0, pos, with_labels=True)
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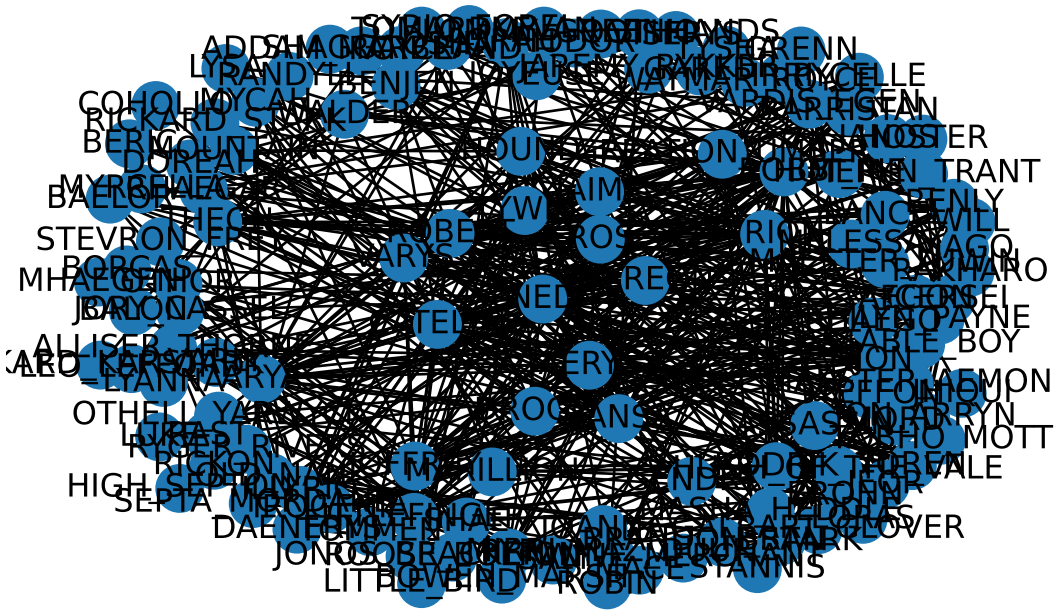


Merger of Giant Components

- Only one connection merges giant components into one
  - In history: Sudden, often catastrophic change
  - Think of 1492 C.E.
    * Disease
    * Political change
    * Previous contacts were not sustained
- Issue of time

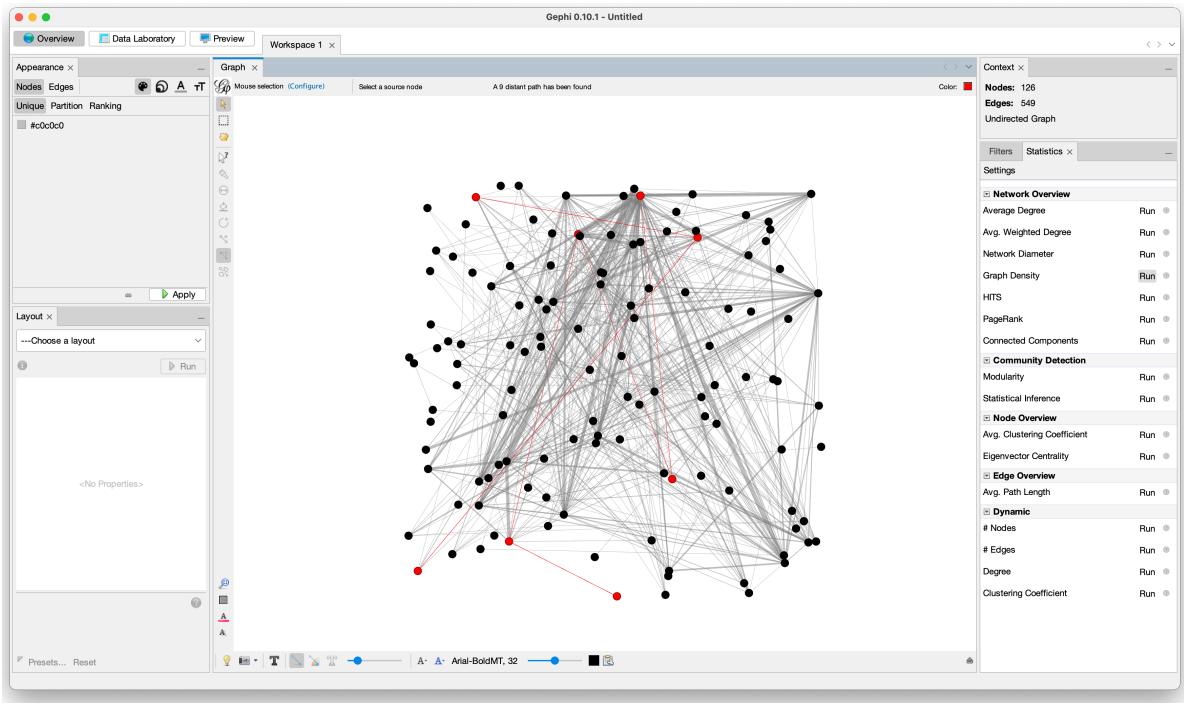
Beyond Visualization

- You know about *nodes*, *edges*, *paths*, *distance*, *components*, *directed* and *undirected* graphs
- Time to move on from description of graphs to some operations
- These are some of the most common measurements

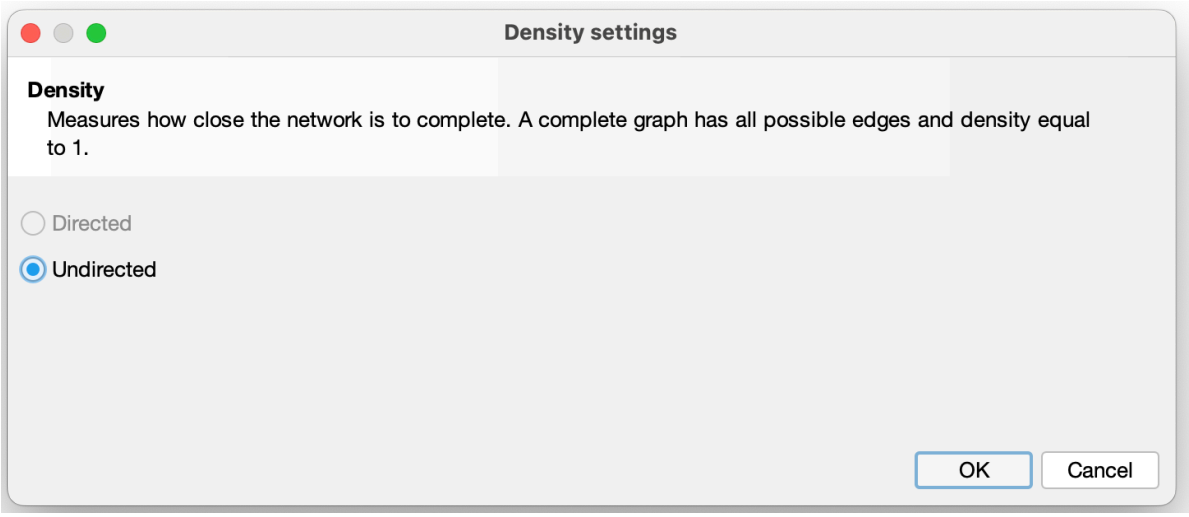
Network Density

- Number of actual edges divided by total number of possible edges
  - Actual vs. potential connections
- One of the most basic measurements in SNA
- Especially interesting in epidemiology
  - Or any analysis of how something spreads in a network

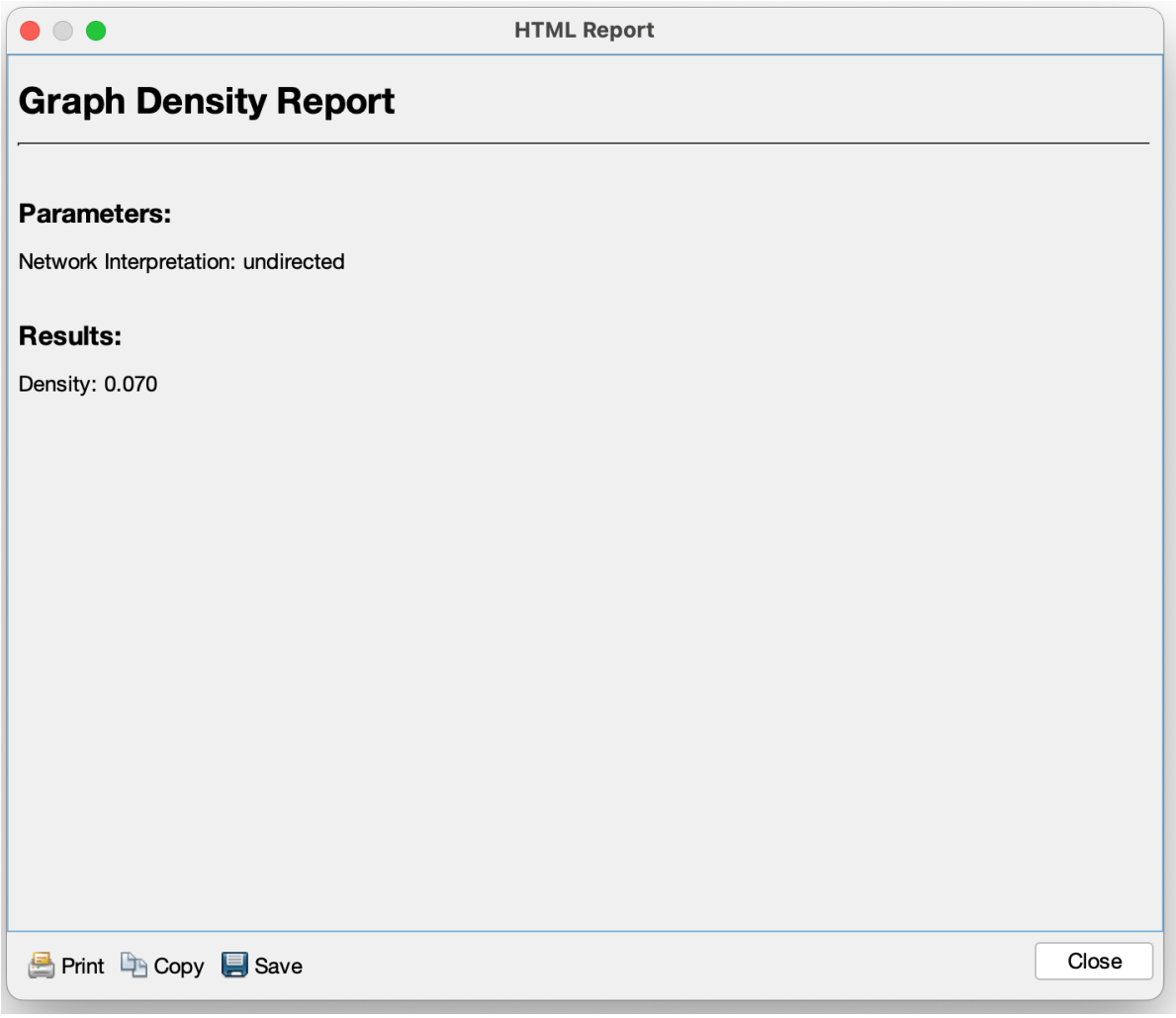
Gephi: Network Statistics



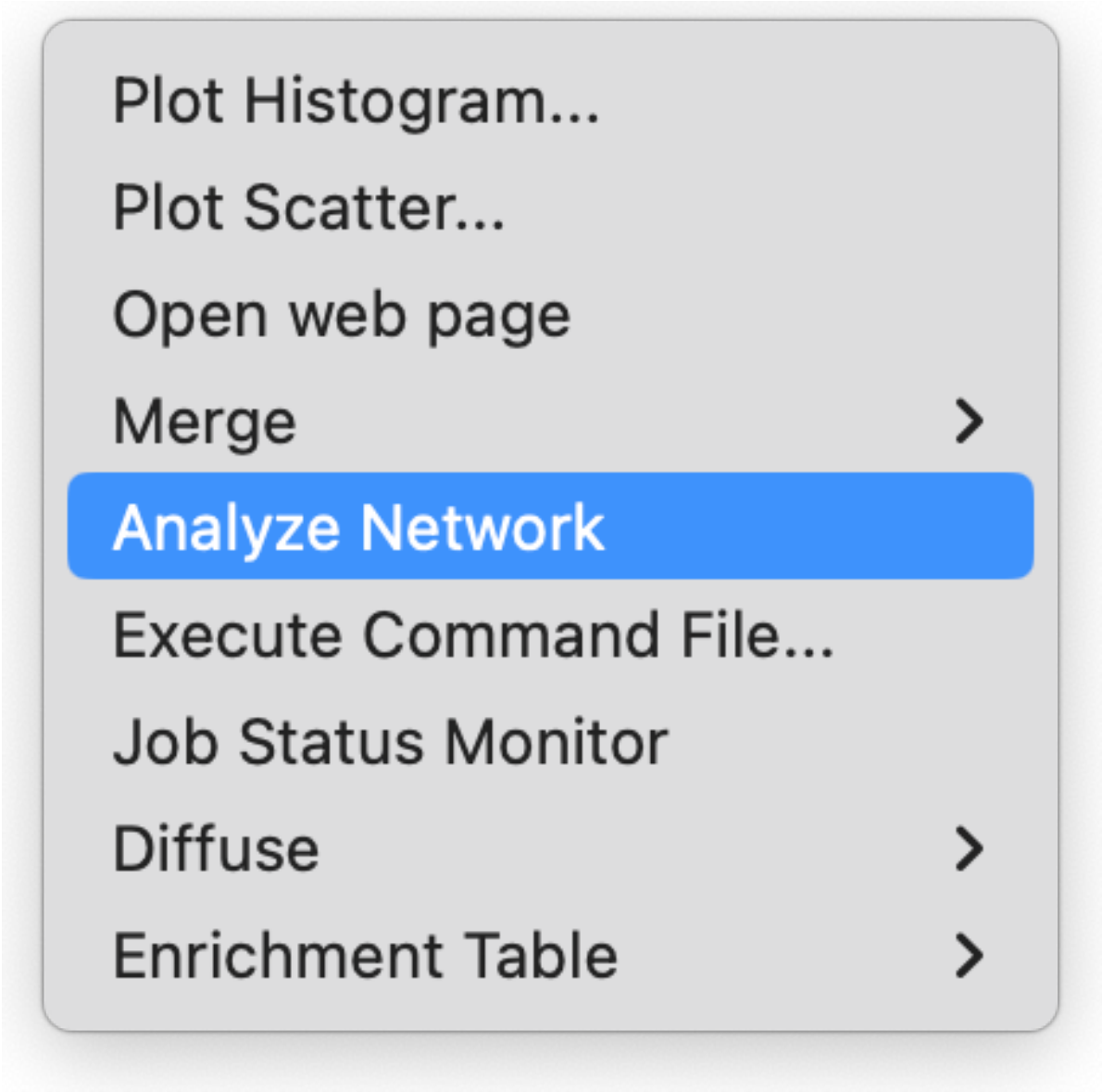
Gephi: Graph Density



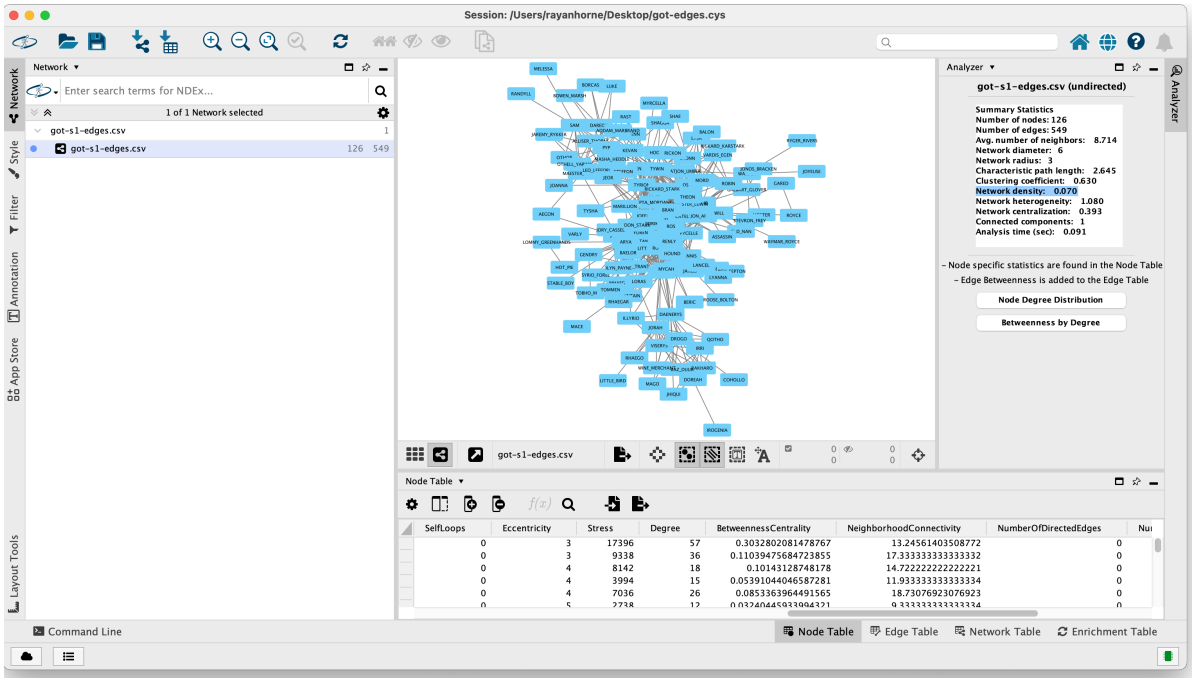
Gephi: Graph Density



Cytoscape: Tools



Cytoscape: Density



Python: Network Density

Python Code

```
nx.density(G)
```

Result

```
nx.density(G)
```

```
0.06971428571428571
```

Degree Measurements

- Sum of all other nodes with a direct *path* to a node
- Signifies activity or popularity
- Very good for looking at nodes in a local context

- In, Out
  - Weighted and unweighted
- In Gephi and Cytoscape we already ran these
  - I will point them out then move on to python

Python: Degree Measurements

Python Code

```
G.degree
```

Result

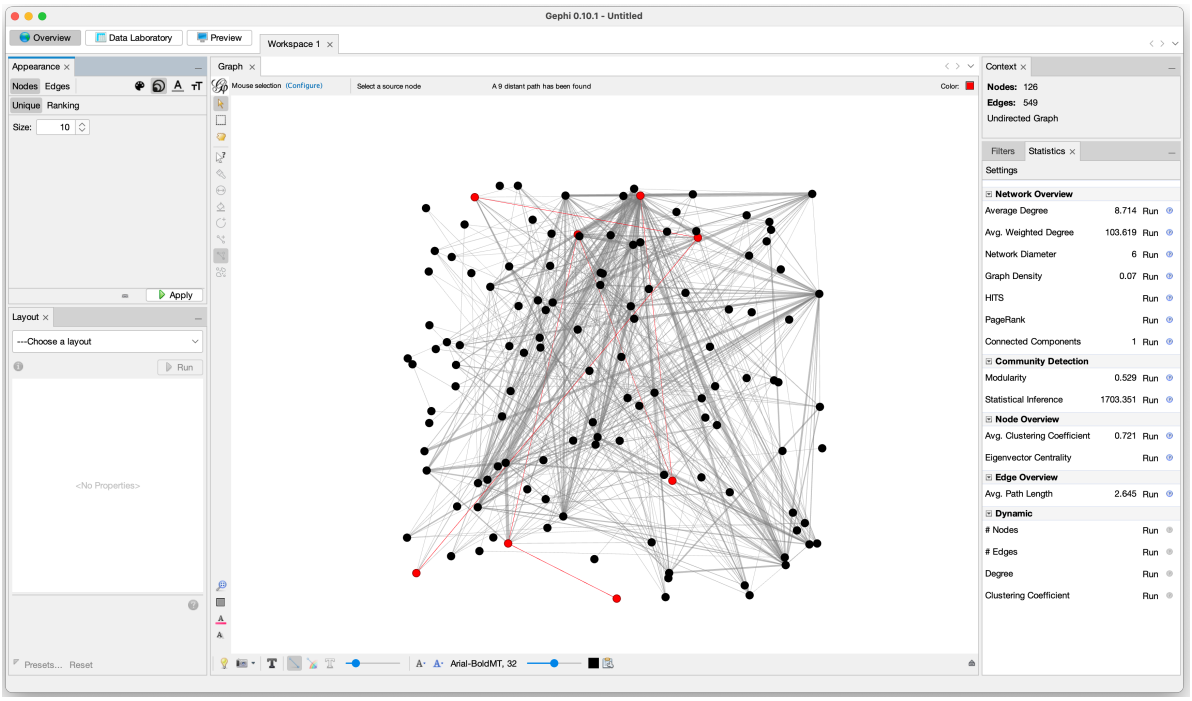
```
G.degree
```

```
DegreeView({'NED': 57, 'ROBERT': 36, 'DAENERYS': 18, 'JORAH': 15, 'JON': 26, 'SAM': 12, 'LIT
```

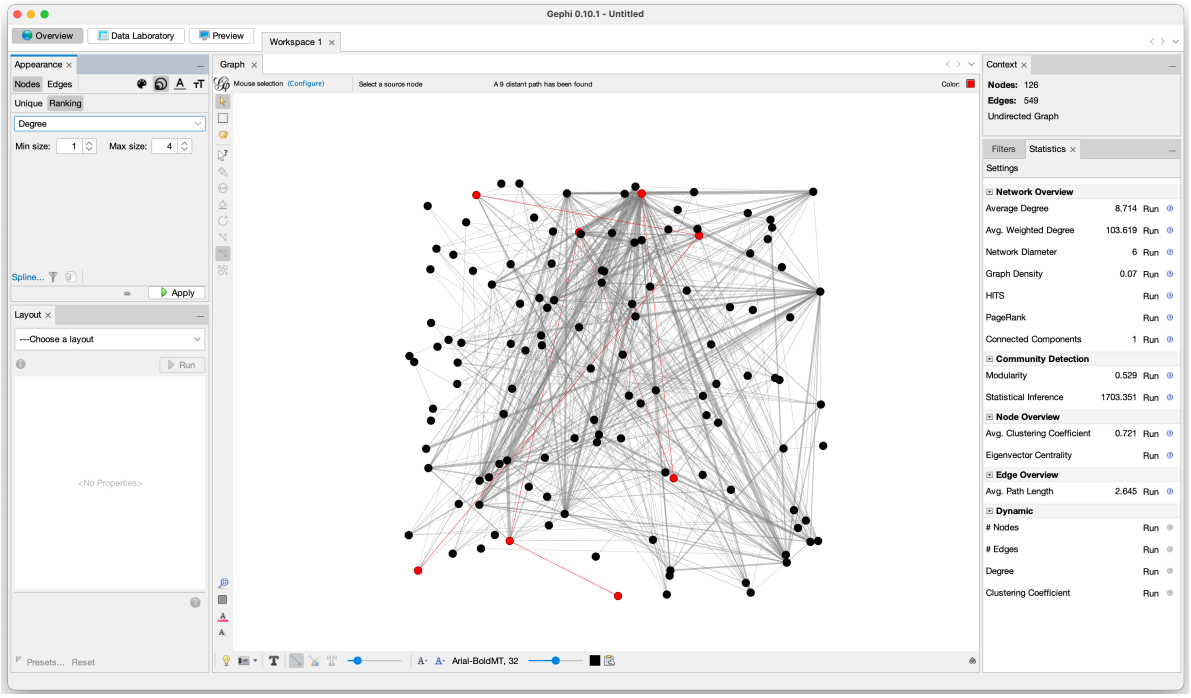
Size by Degree

- Now we will visualize this on our graph
- Same techniques can be used for all other measurements / attributes

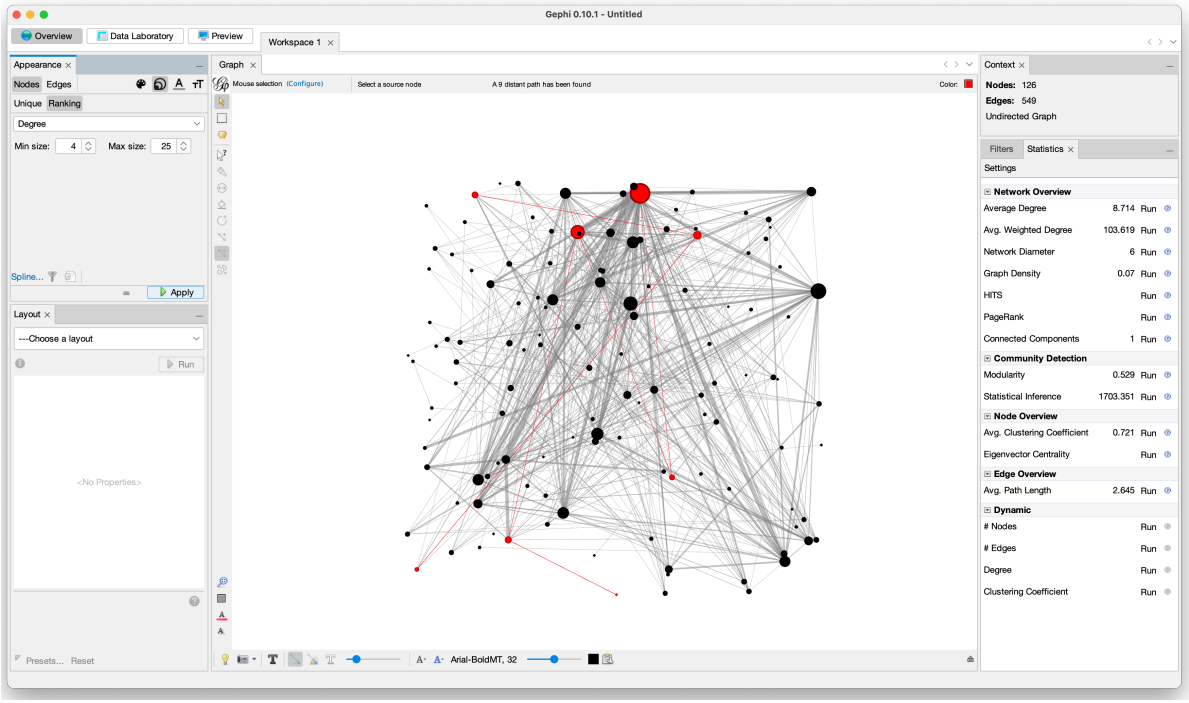
Gephi: Size by Degree



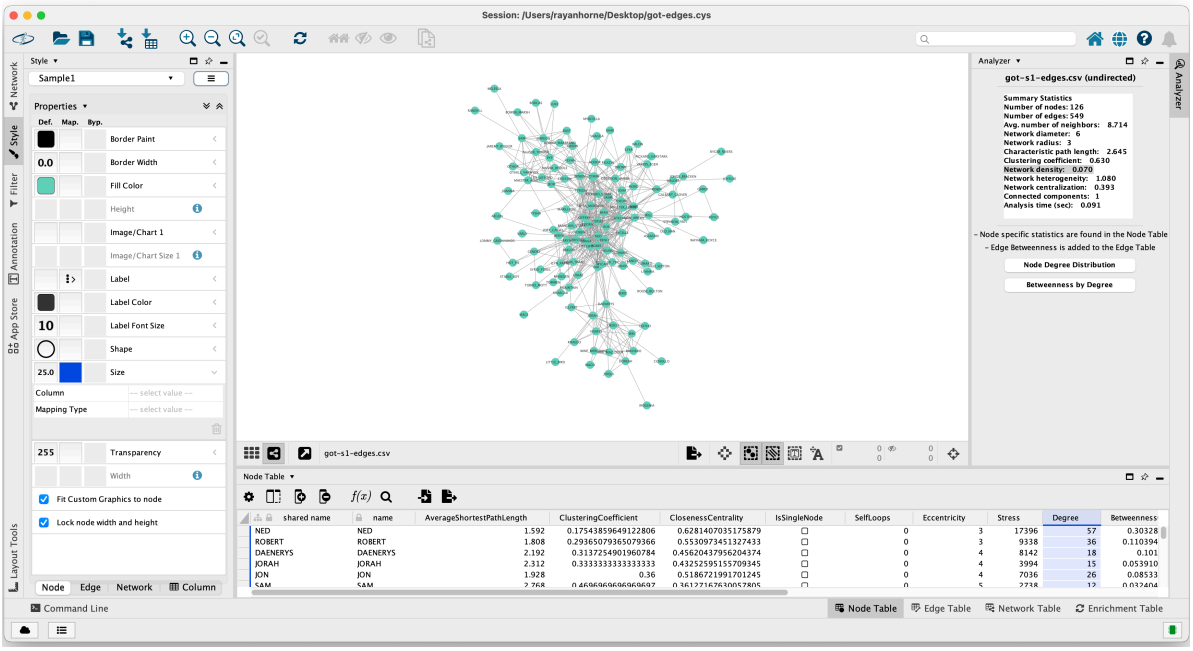
Gephi: Size by Degree



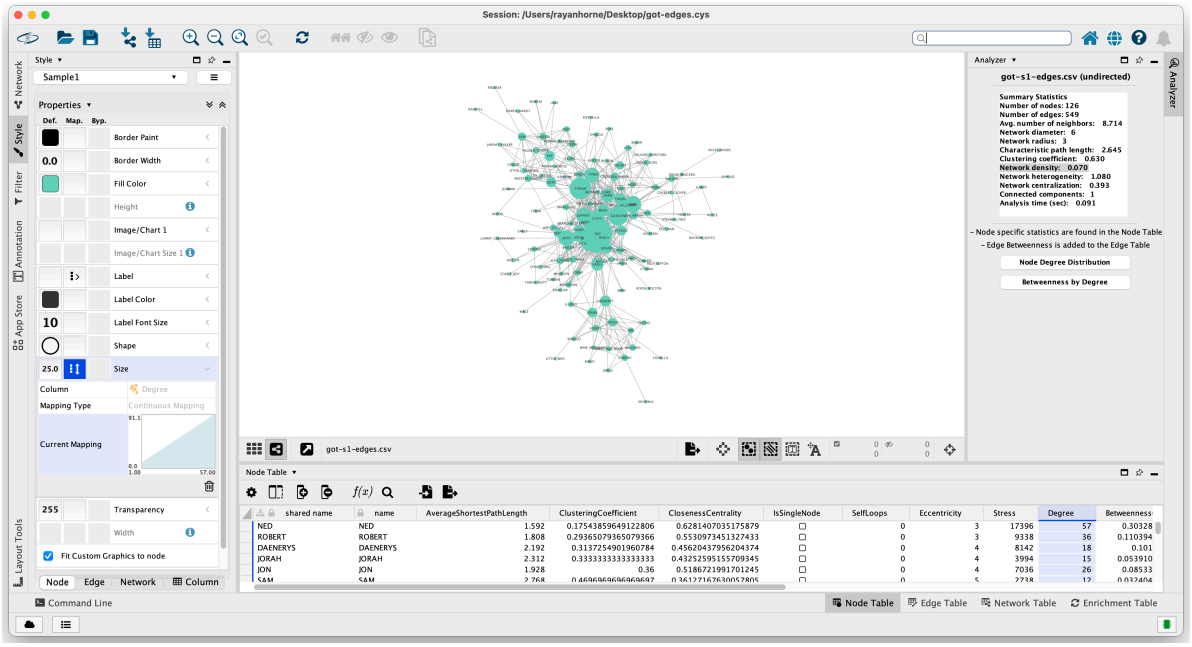
Gephi: Size by Degree



Cytoscape: Size by Degree



Cytoscape: Size by Degree



Python: Degree graph

Python Code

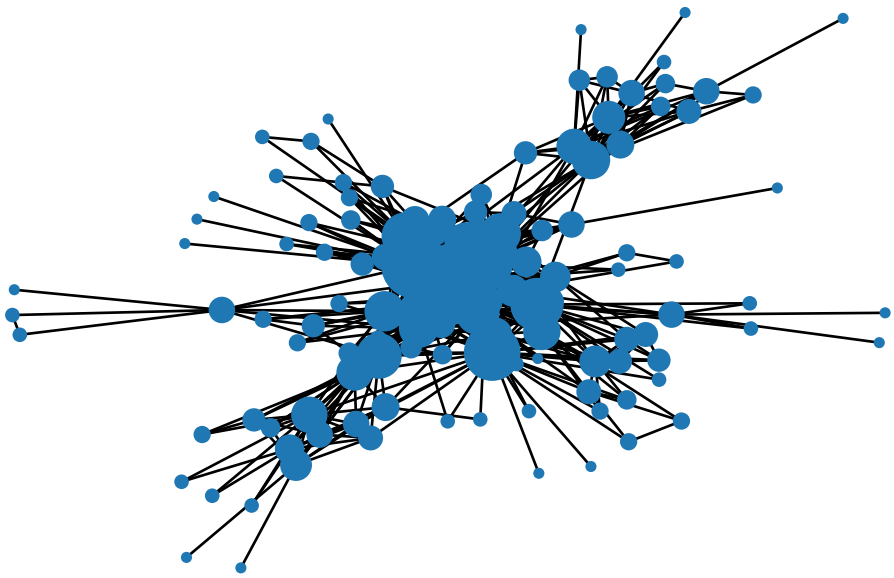
```
d = dict(G.degree)

nx.draw(G, nodelist=d.keys(), node_size=[v * 10 for v in d.values()])
plt.show()
```

Result

```
d = dict(G.degree)

nx.draw(G, nodelist=d.keys(), node_size=[v * 10 for v in d.values()])
plt.show()
```



Centrality

- ***VERY*** important concept!
- What many people want to see in networks: the most prominent nodes
- These are often the "key" players in a network
- Idea of social power
  - Assertion: Power is inherently relational

Betweeness Centrality

- Measures how often a node appears on shortest paths between nodes in the network
- Often better to change visualization to identify them
- A node with a high measure here could be important…or at the periphery of multiple networks

Python: Betweeness Centrality

Python Code

```
nx.betweenness_centrality(G)
```

Result

```
nx.betweenness_centrality(G)
```

```
{'NED': 0.3032802081478768,
 'ROBERT': 0.11039475684723862,
 'DAENERYS': 0.10143128748178003,
 'JORAH': 0.053910440465872796,
 'JON': 0.08533639644915651,
 'SAM': 0.032404459339943216,
 'LITTLEFINGER': 0.015583793102196786,
 'VARYS': 0.025206960806052066,
 'DROGO': 0.02812589390263722,
 'ARYA': 0.06600594833013682,
 'CATELYN': 0.11828405295282027,
 'ROBB': 0.08000074140585356,
 'BRONN': 0.002902835354949346,
 'TYRION': 0.16302743524270866,
 'CERSEI': 0.017686880439783656,
 'SHAE': 0.0,
 'JOFFREY': 0.028645298572936437,
 'SANSA': 0.020139252788315375,
 'PYCELLE': 0.002081609439536625,
 'VISERYS': 0.006276904240373081,
 'SEPTA_MORDANE': 0.00020399851045012335,
 'TYWIN': 0.02677170910885321,
 'JEOR': 0.03580487345596209,
 'THEON': 0.029618049244685814,
 'BRAN': 0.02591822302976206,
 'MAESTER_LUWIN': 0.0025054919988475926,
 'JAIME': 0.02085814689533238,
 'LORAS': 0.01604193548387097,
 'RENLY': 0.005635514980020659,
 'MIRRI_MAZ_DUUR': 0.0,
 'SYRIO_FOREL': 0.0,
 'JORY_CASSEL': 0.0014441245029480322,
```

'PYP': 0.06091067421463664,
'ROS': 0.0005434094019433076,
'GRENN': 0.0018994491684619517,
'WALDER': 0.03349493087557604,
'DOREAH': 0.016453058642811963,
'BENJEN': 0.0006056602368865781,
'IRRI': 0.00036703713743561943,
'GREATJON_UMBER': 0.009826014721486084,
'MORD': 9.677419354838711e-05,
'LYSA': 0.0003019655819685346,
'RAKHARO': 0.00034408602150537627,
'ROBIN': 0.0003019655819685346,
'OSHA': 0.0002009775171065494,
'RODRIK': 0.004323449682157413,
'QOTHO': 0.0,
'MAESTER_AEMON': 0.009591091104651978,
'BARRISTAN': 0.0004936244927326522,
'ILLYRIO': 0.0030341192646695502,
'SHAGGA': 0.0,
'YOREN': 0.003456312186592914,
'ALLISER_THORNE': 0.00023451100870455706,
'WINE_MERCHANT': 4.301075268817204e-05,
'HOUND': 0.006171287692396772,
'LANCEL': 0.0,
'RICKON': 0.0,
'MARILLION': 0.0009200312194076506,
'KEVAN': 0.002169324966963189,
'VARDIS_EGEN': 0.0,
'RHAEGO': 0.0,
'JANOS': 0.0,
'GENDRY': 0.002382916703789569,
'HOT_PIE': 0.00010752688172043011,
'LOMMY_GREENHANDS': 0.0,
'MERYN_TRANT': 0.0009724827947214852,
'JON_ARRYN': 0.004135031485944776,
'HODOR': 0.0003760691589334354,
'STANNIS': 0.000929413533967614,
'MAGO': 0.0,
'MYCAH': 0.0,
'TOBHO_MOTT': 0.0,
'RAST': 0.0018810159887384496,
'OLD_NAN': 0.0,
'MHAEGEN': 0.0,

'AERYS': 0.022526632731661493,
'BAELOR': 3.0465949820788532e-05,
'DAREON': 0.00607131828744732,
'STABLE_BOY': 0.0,
'HUGH_OF_THE_VALE': 0.00016119625683193046,
'OTHELL_YARWYCK': 0.0006302169744723458,
'OTHOR': 0.0,
'MOUNTAIN': 0.0001917562724014337,
'TOMARD': 0.0,
'GARED': 0.0,
'ROYCE': 0.0,
'JONOS_BRACKEN': 0.0,
'MASHA_HEDDLE': 0.0,
'RICKARD_STARK': 0.00014459805427547364,
'ILYN_PAYNE': 8.294930875576036e-05,
'WILL': 0.04752162448557135,
'LYANNA': 0.0,
'RYGER_RIVERS': 0.0,
'STEVRON_FREY': 0.0,
'WAYMAR_ROYCE': 0.0,
'ADDAM_MARBRAND': 6.666666666666666e-05,
'LEO_LEFFORD': 0.0009971220380056286,
'RHAEGAR': 0.0,
'ASSASSIN': 0.0,
'BALON': 0.0,
'BERIC': 0.0,
'BRANDON_STARK': 0.0006422985616534001,
'HOSTER': 0.0,
'COHOLLO': 0.0,
'JHIQUI': 0.0,
'MYRCELLA': 0.0,
'AEGON': 0.0,
'BORCAS': 0.0,
'BOWEN_MARSH': 0.0,
'LUKE': 0.0,
'IROGENIA': 0.0,
'GALBART_GLOVER': 6.451612903225807e-05,
'RICKARD_KARSTARK': 0.0,
'HIGH_SEPTON': 0.0,
'TYSHA': 0.0,
'JAREMY_RYKKER': 0.0,
'JOANNA': 0.0,
'TOMMEN': 0.0,

```
 'LITTLE_BIRD': 0.0,
 'JOYEUSE': 0.0,
 'MACE': 0.0,
 'MELESSA': 0.0,
 'ROOSE_BOLTON': 0.0,
 'STEFFON': 0.0,
 'VARLY': 0.0,
 'RANDYLL': 0.0}
```

Closeness Centrality

- A sum of the shortest path between all nodes from a node
- Useful to find out who spreads information quickly; might not be useful in a highly connected network

Python: Closeness Centrality

Python Code

```
nx.closeness_centrality(G)
```

Result

```
nx.closeness_centrality(G)
```

```
{'NED': 0.628140703517588,
 'ROBERT': 0.5530973451327433,
 'DAENERYS': 0.4562043795620438,
 'JORAH': 0.43252595155709345,
 'JON': 0.5186721991701245,
 'SAM': 0.36127167630057805,
 'LITTLEFINGER': 0.4770992366412214,
 'VARYS': 0.49603174603174605,
 'DROGO': 0.38819875776397517,
 'ARYA': 0.5020080321285141,
 'CATELYN': 0.5506607929515418,
 'ROBB': 0.5122950819672131,
```

'BRONN': 0.39308176100628933,
'TYRION': 0.5434782608695652,
'CERSEI': 0.508130081300813,
'SHAE': 0.35816618911174786,
'JOFFREY': 0.5102040816326531,
'SANSA': 0.4921259842519685,
'PYCELLE': 0.42955326460481097,
'VISERYS': 0.3834355828220859,
'SEPTA_MORDANE': 0.4045307443365696,
'TYWIN': 0.46296296296296297,
'JEOR': 0.46296296296296297,
'THEON': 0.4770992366412214,
'BRAN': 0.4921259842519685,
'MAESTER_LUWIN': 0.44964028776978415,
'JAIME': 0.49800796812749004,
'LORAS': 0.4032258064516129,
'RENLY': 0.4370629370629371,
'MIRRI_MAZ_DUUR': 0.3213367609254499,
'SYRIO_FOREL': 0.39556962025316456,
'JORY_CASSEL': 0.4208754208754209,
'PYP': 0.45454545454545453,
'ROS': 0.44964028776978415,
'GRENN': 0.3799392097264438,
'WALDER': 0.3834355828220859,
'DOREAH': 0.3246753246753247,
'BENJEN': 0.4612546125461255,
'IRRI': 0.3238341968911917,
'GREATJON_UMBER': 0.44014084507042256,
'MORD': 0.3834355828220859,
'LYSA': 0.38580246913580246,
'RAKHARO': 0.3238341968911917,
'ROBIN': 0.38580246913580246,
'OSHA': 0.352112676056338,
'RODRIK': 0.45955882352941174,
'QOTHO': 0.3213367609254499,
'MAESTER_AEMON': 0.4032258064516129,
'BARRISTAN': 0.4139072847682119,
'ILLYRIO': 0.37425149700598803,
'SHAGGA': 0.35919540229885055,
'YOREN': 0.44964028776978415,
'ALLISER_THORNE': 0.35714285714285715,
'WINE_MERCHANT': 0.32051282051282054,
'HOUND': 0.4716981132075472,

'LANCEL': 0.3980891719745223,
'RICKON': 0.3462603878116344,
'MARILLION': 0.40192926045016075,
'KEVAN': 0.3687315634218289,
'VARDIS_EGEN': 0.382262996941896,
'RHAEGO': 0.32051282051282054,
'JANOS': 0.39308176100628933,
'GENDRY': 0.3993610223642173,
'HOT_PIE': 0.33783783783783783,
'LOMMY_GREENHANDS': 0.33602150537634407,
'MERYN_TRANT': 0.40584415584415584,
'JON_ARRYN': 0.4280821917808219,
'HODOR': 0.3787878787878788,
'STANNIS': 0.4180602006688963,
'MAGO': 0.31565656565656564,
'MYCAH': 0.3980891719745223,
'TOBHO_MOTT': 0.3894080996884735,
'RAST': 0.3787878787878788,
'OLD_NAN': 0.34916201117318435,
'MHAEGEN': 0.3894080996884735,
'AERYS': 0.4562043795620438,
'BAELOR': 0.4045307443365696,
'DAREON': 0.35919540229885055,
'STABLE_BOY': 0.3351206434316354,
'HUGH_OF_THE_VALE': 0.39556962025316456,
'OTHELL_YARWYCK': 0.3531073446327684,
'OTHOR': 0.351123595505618,
'MOUNTAIN': 0.40192926045016075,
'TOMARD': 0.3894080996884735,
'GARED': 0.30193236714975846,
'ROYCE': 0.30193236714975846,
'JONOS_BRACKEN': 0.3405994550408719,
'MASHA_HEDDLE': 0.3776435045317221,
'RICKARD_STARK': 0.3968253968253968,
'ILYN_PAYNE': 0.40584415584415584,
'WILL': 0.42955326460481097,
'LYANNA': 0.39556962025316456,
'RYGER_RIVERS': 0.2777777777777778,
'STEVRON_FREY': 0.35919540229885055,
'WAYMAR_ROYCE': 0.30120481927710846,
'ADDAM_MARBRAND': 0.319693094629156,
'LEO_LEFFORD': 0.3561253561253561,
'RHAEGAR': 0.36443148688046645,

```
'ASSASSIN': 0.37202380952380953,
'BALON': 0.36656891495601174,
'BERIC': 0.3943217665615142,
'BRANDON_STARK': 0.4280821917808219,
'HOSTER': 0.35919540229885055,
'COHOLLO': 0.2802690582959641,
'JHIQUI': 0.31645569620253167,
'MYRCELLA': 0.3531073446327684,
'AEGON': 0.3351206434316354,
'BORCAS': 0.314070351758794,
'BOWEN_MARSH': 0.314070351758794,
'LUKE': 0.314070351758794,
'IROGENIA': 0.2455795677799607,
'GALBART_GLOVER': 0.34153005464480873,
'RICKARD_KARSTARK': 0.34818941504178275,
'HIGH_SEPTON': 0.38699690402476783,
'TYSHA': 0.36127167630057805,
'JAREMY_RYKKER': 0.32216494845360827,
'JOANNA': 0.3531073446327684,
'TOMMEN': 0.3698224852071006,
'LITTLE_BIRD': 0.3026634382566586,
'JOYEUSE': 0.2777777777777778,
'MACE': 0.2880184331797235,
'MELESSA': 0.26595744680851063,
'ROOSE_BOLTON': 0.38699690402476783,
'STEFFON': 0.38699690402476783,
'VARLY': 0.38699690402476783,
'RANDYLL': 0.26595744680851063}
```

Eigenvector Centrality

- Basic idea: A node is important if it is linked to by other important nodes
  - I have almost no friends - but my friends are
    - The President
    - The Pope
    - Santa Claus
    - *Insert influencer / Reality TV star here*
- Global vs. local importance
- Mathematical modeling of this stretches back to the 1940s
  - Software does this for us!

Python: Eigenvector Centrality

Python Code

```
nx.eigenvector_centrality(G)
```

Result

```python
nx.eigenvector_centrality(G)
```

```
{'NED': 0.3150820196903642,
 'ROBERT': 0.24818996690338857,
 'DAENERYS': 0.0737139626499356,
 'JORAH': 0.04285918186955487,
 'JON': 0.16828103946044223,
 'SAM': 0.027624618679562427,
 'LITTLEFINGER': 0.20471901482513477,
 'VARYS': 0.17618005403981465,
 'DROGO': 0.025864933808244395,
 'ARYA': 0.20718451957578182,
 'CATELYN': 0.23686569551759798,
 'ROBB': 0.20711711300570776,
 'BRONN': 0.05343458197995379,
 'TYRION': 0.22976309137008433,
 'CERSEI': 0.23926199958075808,
 'SHAE': 0.02254239717791971,
 'JOFFREY': 0.2195309952775664,
 'SANSA': 0.2026405434072212,
 'PYCELLE': 0.14392268577020825,
 'VISERYS': 0.02464292408988538,
 'SEPTA_MORDANE': 0.06624490878429375,
 'TYWIN': 0.13794561130434185,
 'JEOR': 0.09513051676296108,
 'THEON': 0.11738736133418928,
 'BRAN': 0.14946032068730858,
 'MAESTER_LUWIN': 0.09859106301074455,
 'JAIME': 0.19844162659795242,
 'LORAS': 0.07229142337463121,
```

'RENLY': 0.1358864167240961,
'MIRRI_MAZ_DUUR': 0.008667554906261418,
'SYRIO_FOREL': 0.03238132546681537,
'JORY_CASSEL': 0.07356708252523741,
'PYP': 0.05628584626560601,
'ROS': 0.09982864844030889,
'GRENN': 0.03519974750904168,
'WALDER': 0.03644825876663717,
'DOREAH': 0.010190419428200648,
'BENJEN': 0.10098559604341024,
'IRRI': 0.010338240262960485,
'GREATJON_UMBER': 0.08640979637424899,
'MORD': 0.039306905462446765,
'LYSA': 0.03929569642706548,
'RAKHARO': 0.010819147259740515,
'ROBIN': 0.03929569642706548,
'OSHA': 0.03387891054895719,
'RODRIK': 0.10153758010275925,
'QOTHO': 0.008667554906261418,
'MAESTER_AEMON': 0.03867422553523168,
'BARRISTAN': 0.10842797386021394,
'ILLYRIO': 0.02946325857780105,
'SHAGGA': 0.024458843387842207,
'YOREN': 0.14696441681658523,
'ALLISER_THORNE': 0.025265913605132136,
'WINE_MERCHANT': 0.007364544513795592,
'HOUND': 0.172396339274858,
'LANCEL': 0.056033184127829455,
'RICKON': 0.02089970510357584,
'MARILLION': 0.057315739457521574,
'KEVAN': 0.03580327723666968,
'VARDIS_EGEN': 0.03414804394119536,
'RHAEGO': 0.008943489804817066,
'JANOS': 0.052229537239434104,
'GENDRY': 0.04705092539269676,
'HOT_PIE': 0.0142424374285182,
'LOMMY_GREENHANDS': 0.01185197942628568,
'MERYN_TRANT': 0.08270256480705974,
'JON_ARRYN': 0.10131960423924288,
'HODOR': 0.03948157970350706,
'STANNIS': 0.08929273478933866,
'MAGO': 0.005330221163090512,
'MYCAH': 0.05055155239912499,

'TOBHO_MOTT': 0.019383418342043615,
'RAST': 0.03036631189504252,
'OLD_NAN': 0.0253696476729221,
'MHAEGEN': 0.03176035529236968,
'AERYS': 0.0884756854814298,
'BAELOR': 0.09347121964600838,
'DAREON': 0.024869643817295048,
'STABLE_BOY': 0.011089655920067597,
'HUGH_OF_THE_VALE': 0.0516597241258935,
'OTHELL_YARWYCK': 0.020436789628223706,
'OTHOR': 0.0185917395120227,
'MOUNTAIN': 0.0678156352459416,
'TOMARD': 0.02891775097401599,
'GARED': 0.0029619445345731347,
'ROYCE': 0.0029619445345731347,
'JONOS_BRACKEN': 0.011961417603055302,
'MASHA_HEDDLE': 0.02497701679580844,
'RICKARD_STARK': 0.03481399960868713,
'ILYN_PAYNE': 0.09931190450487865,
'WILL': 0.052373832847481996,
'LYANNA': 0.042956239885646244,
'RYGER_RIVERS': 0.0019509559834787829,
'STEVRON_FREY': 0.014629480447920278,
'WAYMAR_ROYCE': 0.002803398621215666,
'ADDAM_MARBRAND': 0.010089932550025996,
'LEO_LEFFORD': 0.014755020781462022,
'RHAEGAR': 0.018020307023251962,
'ASSASSIN': 0.031764789868799326,
'BALON': 0.018581874599931214,
'BERIC': 0.030149591620805962,
'BRANDON_STARK': 0.04841475148708139,
'HOSTER': 0.014629480447920278,
'COHOLLO': 0.0013845366459839519,
'JHIQUI': 0.005044638162732029,
'MYRCELLA': 0.012298492331366947,
'AEGON': 0.00680598709916862,
'BORCAS': 0.004344392324591785,
'BOWEN_MARSH': 0.004344392324591785,
'LUKE': 0.004344392324591785,
'IROGENIA': 0.0005455192079202713,
'GALBART_GLOVER': 0.016351608472838307,
'RICKARD_KARSTARK': 0.021994740018899516,
'HIGH_SEPTON': 0.016865012825002235,

```
 'TYSHA': 0.022920263371003245,
 'JAREMY_RYKKER': 0.009199239468295223,
 'JOANNA': 0.012298492331366947,
 'TOMMEN': 0.02503510084236994,
 'LITTLE_BIRD': 0.0022941588613212146,
 'JOYEUSE': 0.0019509559834787829,
 'MACE': 0.0038693896427042826,
 'MELESSA': 0.0014788686229759652,
 'ROOSE_BOLTON': 0.016865012825002235,
 'STEFFON': 0.016865012825002235,
 'VARLY': 0.016865012825002235,
 'RANDYLL': 0.0014788686229759652}
```

Page Rank

- Similar to Eigenvector, but takes into account the direction and weight of connections
- Famously used by Google

Python: Page Rank

Python Code

```
nx.pagerank(G)
```

Result

```
nx.pagerank (G)
```

```
{'NED': 0.047324406684189774,
 'ROBERT': 0.027727076720068935,
 'DAENERYS': 0.017124928253877746,
 'JORAH': 0.015247040183448152,
 'JON': 0.02104747666675892,
 'SAM': 0.01304876641703152,
 'LITTLEFINGER': 0.019139312872197965,
 'VARYS': 0.015856831071869814,
 'DROGO': 0.014024325073483817,
```

'ARYA': 0.02266519412056563,
'CATELYN': 0.028560851261564296,
'ROBB': 0.024265348640919882,
'BRONN': 0.010450332855139625,
'TYRION': 0.03429723971129241,
'CERSEI': 0.020899388244170893,
'SHAE': 0.0033267285184838554,
'JOFFREY': 0.02016939810885312,
'SANSA': 0.019095565737651882,
'PYCELLE': 0.011774108646992819,
'VISERYS': 0.009127349242022915,
'SEPTA_MORDANE': 0.005212916472744982,
'TYWIN': 0.013702813466058148,
'JEOR': 0.0138464538820805,
'THEON': 0.01633847628731705,
'BRAN': 0.0163195508093971,
'MAESTER_LUWIN': 0.008173435510539864,
'JAIME': 0.018273514814581435,
'LORAS': 0.007498025751550745,
'RENLY': 0.013082943211576298,
'MIRRI_MAZ_DUUR': 0.005645995975435562,
'SYRIO_FOREL': 0.0032825620823509804,
'JORY_CASSEL': 0.006912137088746269,
'PYP': 0.01572100108690773,
'ROS': 0.007191540146771113,
'GRENN': 0.0076408696845210134,
'WALDER': 0.010475723322379494,
'DOREAH': 0.00959411589107496,
'BENJEN': 0.007295721379078166,
'IRRI': 0.007688156802480187,
'GREATJON_UMBER': 0.010523712967444844,
'MORD': 0.0063281163752314865,
'LYSA': 0.00631604710075405,
'RAKHARO': 0.008515049696562017,
'ROBIN': 0.00631604710075405,
'OSHA': 0.005778977855685515,
'RODRIK': 0.010439780760087069,
'QOTHO': 0.005645995975435562,
'MAESTER_AEMON': 0.008721449875671071,
'BARRISTAN': 0.008496804705249118,
'ILLYRIO': 0.005972928180254757,
'SHAGGA': 0.004180319838477814,
'YOREN': 0.011970299249733116,

'ALLISER_THORNE': 0.0077277675452780605,
'WINE_MERCHANT': 0.004788318206880868,
'HOUND': 0.013323291606161983,
'LANCEL': 0.004473897766942357,
'RICKON': 0.0033901332843150494,
'MARILLION': 0.005967696586653429,
'KEVAN': 0.007030107727316924,
'VARDIS_EGEN': 0.0056180884267384,
'RHAEGO': 0.004643134742022536,
'JANOS': 0.004443104154821612,
'GENDRY': 0.006184232457950057,
'HOT_PIE': 0.004039101466994185,
'LOMMY_GREENHANDS': 0.0030227957198591462,
'MERYN_TRANT': 0.007395785712096007,
'JON_ARRYN': 0.008658559949664671,
'HODOR': 0.004832046368132597,
'STANNIS': 0.007421184431142672,
'MAGO': 0.0029166163644213055,
'MYCAH': 0.0038432770818130125,
'TOBHO_MOTT': 0.002772177392300291,
'RAST': 0.006881447855409262,
'OLD_NAN': 0.003302402739551483,
'MHAEGEN': 0.0032561379542438706,
'AERYS': 0.011378931331905807,
'BAELOR': 0.007002496996766986,
'DAREON': 0.010574943584886351,
'STABLE_BOY': 0.0018784700827781495,
'HUGH_OF_THE_VALE': 0.00527465437426083,
'OTHELL_YARWYCK': 0.006227683454278088,
'OTHOR': 0.004373961002294025,
'MOUNTAIN': 0.005973507029300374,
'TOMARD': 0.003251047928262796,
'GARED': 0.003891662352870306,
'ROYCE': 0.003891662352870306,
'JONOS_BRACKEN': 0.002979976149041911,
'MASHA_HEDDLE': 0.0025757868669871046,
'RICKARD_STARK': 0.0041074809442899485,
'ILYN_PAYNE': 0.007722236444529895,
'WILL': 0.00985391937026511,
'LYANNA': 0.0031633028965460464,
'RYGER_RIVERS': 0.0023033754015678552,
'STEVRON_FREY': 0.0029776802081002496,
'WAYMAR_ROYCE': 0.0022375172917574026,

```
'ADDAM_MARBRAND': 0.003816005842739969,
'LEO_LEFFORD': 0.003836204889528895,
'RHAEGAR': 0.0025891153924642476,
'ASSASSIN': 0.003245800332244849,
'BALON': 0.0026323892742937385,
'BERIC': 0.0025507891312074394,
'BRANDON_STARK': 0.004824911471187962,
'HOSTER': 0.0029776802081002496,
'COHOLLO': 0.002107727467289013,
'JHIQUI': 0.003952921714030227,
'MYRCELLA': 0.0019014820604547106,
'AEGON': 0.002758248014358287,
'BORCAS': 0.002924769505981937,
'BOWEN_MARSH': 0.002924769505981937,
'LUKE': 0.002924769505981937,
'IROGENIA': 0.0022101655127115274,
'GALBART_GLOVER': 0.0038897823273217357,
'RICKARD_KARSTARK': 0.0033542521999611516,
'HIGH_SEPTON': 0.0018961473248434021,
'TYSHA': 0.0025486127731188654,
'JAREMY_RYKKER': 0.003643799568136612,
'JOANNA': 0.0019014820604547106,
'TOMMEN': 0.0024800307265896012,
'LITTLE_BIRD': 0.0020547115718732804,
'JOYEUSE': 0.0023033754015678552,
'MACE': 0.0019870689013837474,
'MELESSA': 0.0021148956799381773,
'ROOSE_BOLTON': 0.0018961473248434021,
'STEFFON': 0.0018961473248434021,
'VARLY': 0.0018961473248434021,
'RANDYLL': 0.0021148956799381773}
```

Bridges

- Edge joining two nodes is a bridge if deleting that edge would cause the nodes to be in two different components of the graph
  - Very rare in social networks – think of the small world principle
- Local bridge if the endpoints have no friends in common
  - There can still be a path between the nodes if the bridge is deleted
- Best statistical approximation: Betweenness Centrality

Bridges

Python Code

```
nx.has_bridges(G)
```

Result

```
nx.has_bridges(G)
```

```
True
```

Python: Bridges

Python Code

```
list(nx.bridges(G))
```

Result

```
list(nx.bridges(G))
```

```
[('NED', 'HIGH_SEPTON'),
 ('NED', 'ROOSE_BOLTON'),
 ('NED', 'STEFFON'),
 ('NED', 'VARLY'),
 ('JORAH', 'LITTLE_BIRD'),
 ('SAM', 'MELESSA'),
 ('SAM', 'RANDYLL'),
 ('DROGO', 'COHOLLO'),
 ('ARYA', 'STABLE_BOY'),
 ('TYRION', 'MYRCELLA'),
 ('TYRION', 'JOANNA'),
 ('LORAS', 'MACE'),
 ('WALDER', 'RYGER_RIVERS'),
 ('WALDER', 'JOYEUSE'),
```

```
 ('DOREAH', 'IROGENIA'),
 ('WILL', 'WAYMAR_ROYCE')]
```

Python: Highlight Bridges

Python Code

```python
# Identify the bridges
bridges = list(nx.bridges(G))

# Set positions for nodes using a layout algorithm
pos = nx.spring_layout(G, k=.01, iterations=20)

# Draw entire network
nx.draw(G, pos, with_labels=False, node_size=5, width=.2)

# Draw bridges in red
for bridge in bridges:
    nx.draw_networkx_edges(G, pos, edgelist=[bridge], edge_color='red', width=2)
    nx.draw_networkx_nodes(G, pos, nodelist=bridge, node_color='red', node_size=700)

# Create a dictionary of labels for nodes involved in bridges
bridge_labels = {node: node for bridge in bridges for node in bridge}

# Draw labels for nodes involved in bridges
nx.draw_networkx_labels(G, pos, labels=bridge_labels, font_size=8, font_weight='bold')

plt.show()
```

Result

```python
# Identify the bridges
bridges = list(nx.bridges(G))

# Set positions for nodes using a layout algorithm
pos = nx.spring_layout(G, k=.01, iterations=20)
```

```python
# Draw entire network
nx.draw(G, pos, with_labels=False, node_size=5, width=.2)

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# Draw labels for nodes involved in bridges
nx.draw_networkx_labels(G, pos, labels=bridge_labels, font_size=8, font_weight='bold')

plt.show()
```
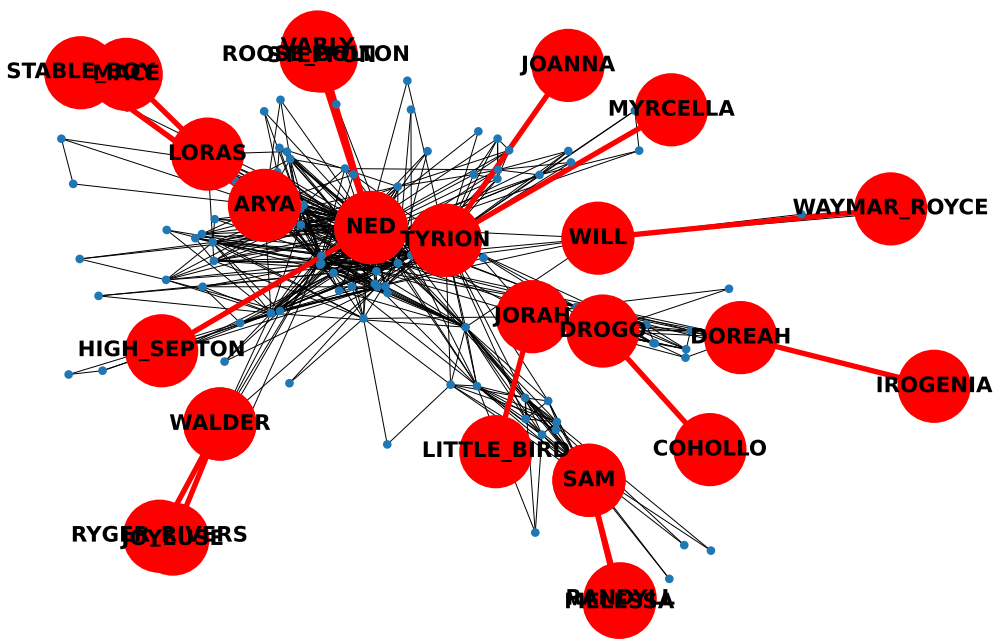



Connection Strength

- No real formal, strict definition
- Stronger links represent closer friendship / greater degrees of interaction
- Largely up to you!

Strong Ties and Weak Ties

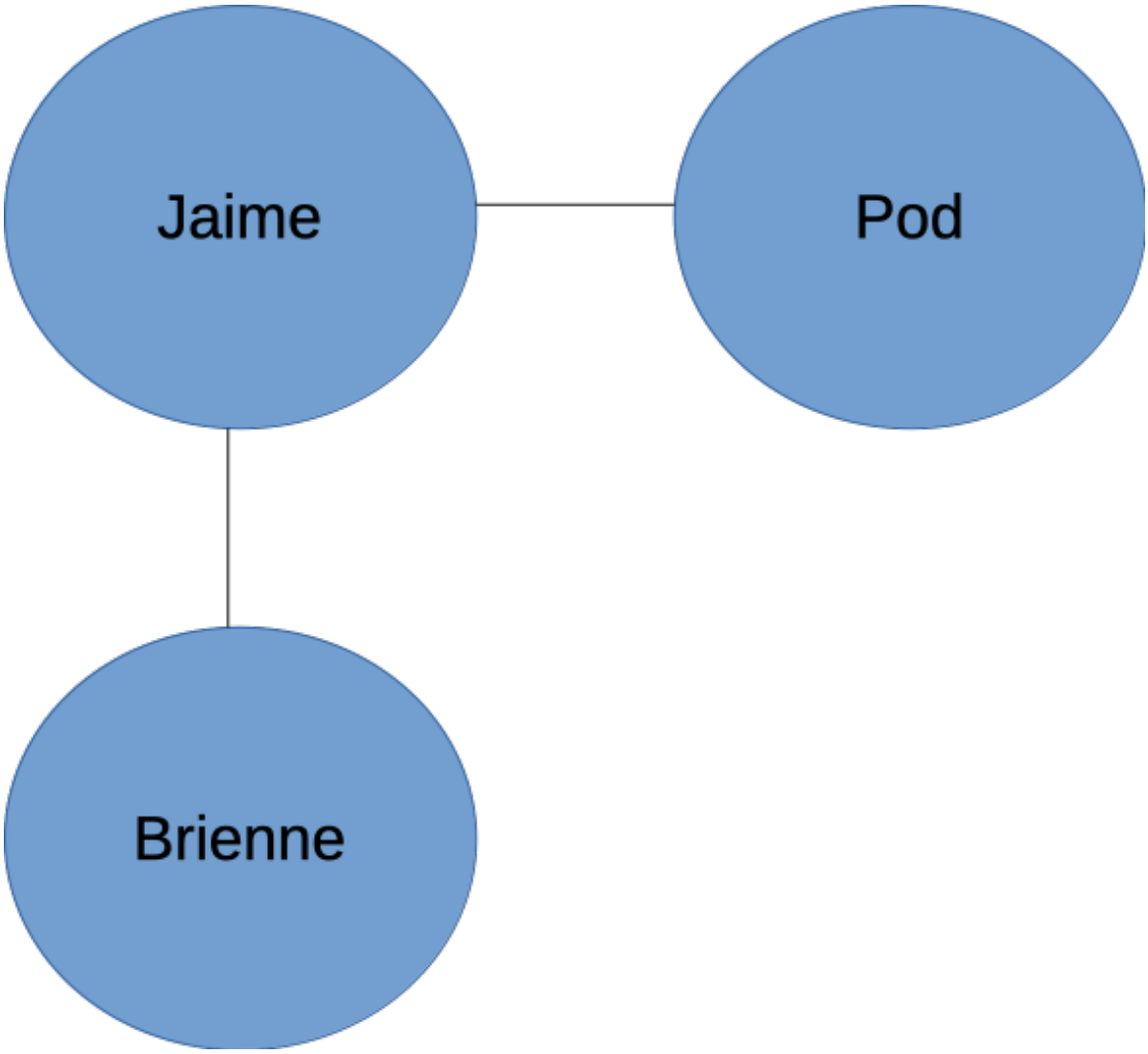
- Strong ties = close friendship, etc
- Weak ties = acquaintances, etc

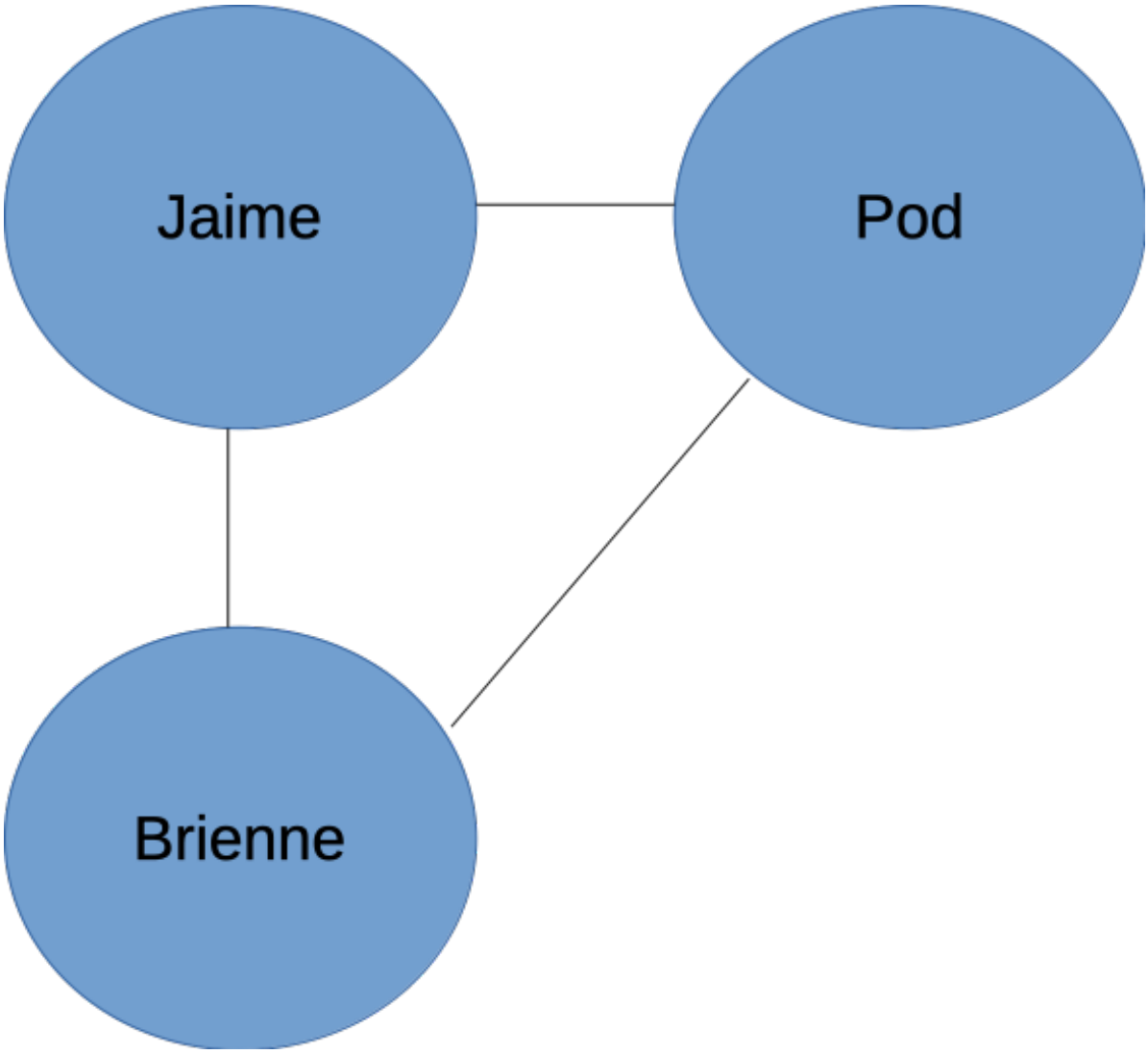
Network Evolution: Triadic Closure

- Concept: If two people in a social network have a friend in common, then there is an increased likelihood that they will become friends themselves at some point in the future
- Example: If Jaime and Pod are friends, and Jaime and Brienne of Tarth are friends, then it is likely that Brienne and Pod will become friends

Triadic Closure

- This forms a triangle in the graph
- Generally form in social networks given enough time
- Think facebook friends feature
- Basic functionality of a social network


Jaime
Pod
Brienne



Python: Find All Potential Triads

Python Code

```
plt.savefig('graph1.png')
```

Result

```
plt.savefig('graph1.png')
```

```
<Figure size 1650x1050 with 0 Axes>
```

Position at Structural Holes

- Structural hole
  - Empty space between sets of nodes that do not otherwise interact closely
- Position is advantageous
  - Access to information that other components might not have
  - Energy in reaching out to different groups rather than the same one

Other Issues

- Synthesis from multiple ideas
- Social gatekeeping
  - A source of power as the position regulates communications
  - Some people might try to keep triangles from forming!
- Interests of a node and an organization may not be aligned
  - Connection may not be in the node's best interests
  - Unknown amount of time before triadic closure happens

Community Detection

- The number of connections between nodes is more dense in a certain grouping than outside it
- In Gephi, this is the modularity measurement
- GOOD IDEA / common practice to make this the color of your nodes!

Python: Community Detection

Python Code

```
partition = community_louvain.best_partition(G)
print(partition)
```

Result

```
partition = community_louvain.best_partition(G)
print(partition)
```

```
{'NED': 0, 'ROBERT': 0, 'DAENERYS': 1, 'JORAH': 1, 'JON': 2, 'SAM': 2, 'LITTLEFINGER': 0, 'VA
```

Python: Community Detection

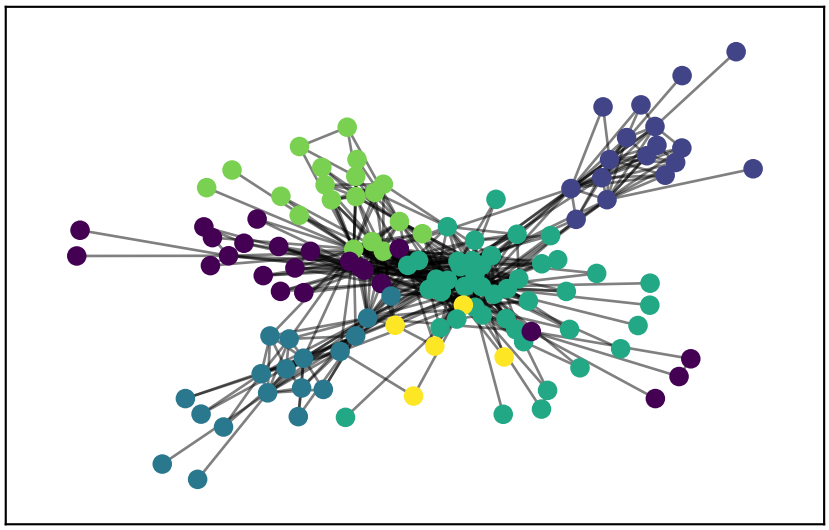
Python Code

```
partition = community_louvain.best_partition(G)
pos = nx.spring_layout(G)
# color the nodes according to their partition
cmap = cm.get_cmap('viridis', max(partition.values()) + 1)
nx.draw_networkx_nodes(G, pos, partition.keys(), node_size=40,
                       cmap=cmap, node_color=list(partition.values()))
nx.draw_networkx_edges(G, pos, alpha=0.5)
plt.show()
```

Result

```
partition = community_louvain.best_partition(G)
pos = nx.spring_layout(G)
# color the nodes according to their partition
cmap = cm.get_cmap('viridis', max(partition.values()) + 1)
nx.draw_networkx_nodes(G, pos, partition.keys(), node_size=40,
                       cmap=cmap, node_color=list(partition.values()))
nx.draw_networkx_edges(G, pos, alpha=0.5)
plt.show()
```

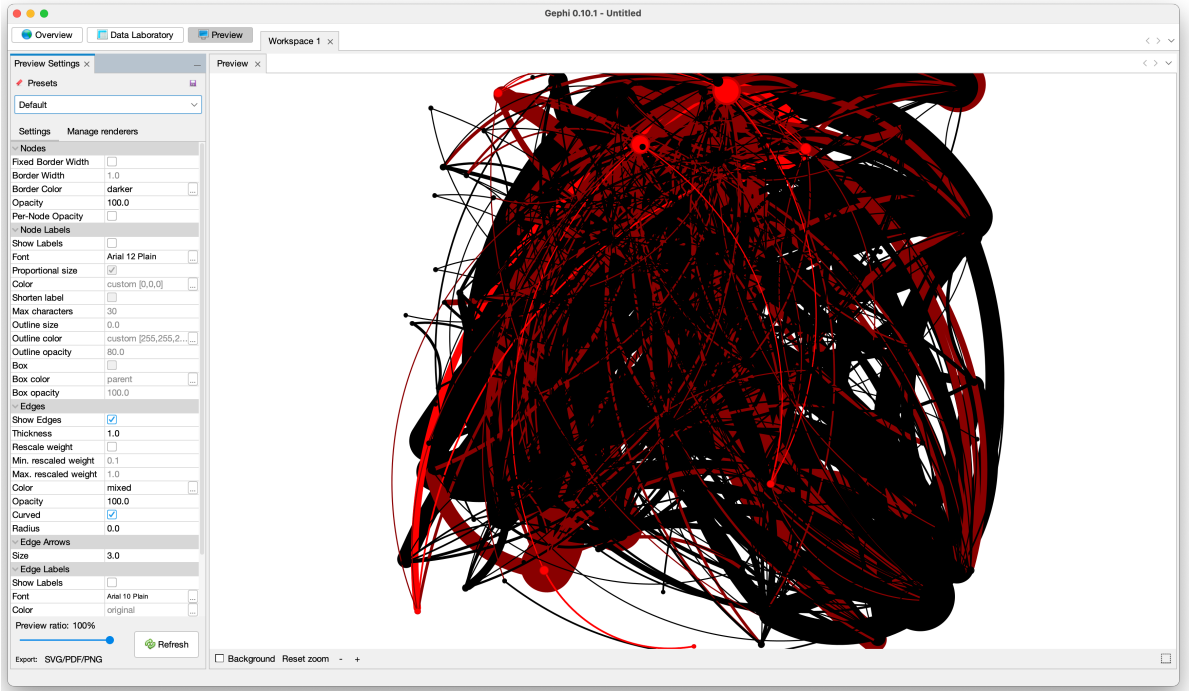
```
/var/folders/x2/qctt6d_111z09bhnybfttp8w0000gp/T/ipykernel_57878/642572752.py:4: MatplotlibDe
  cmap = cm.get_cmap('viridis', max(partition.values()) + 1)
```



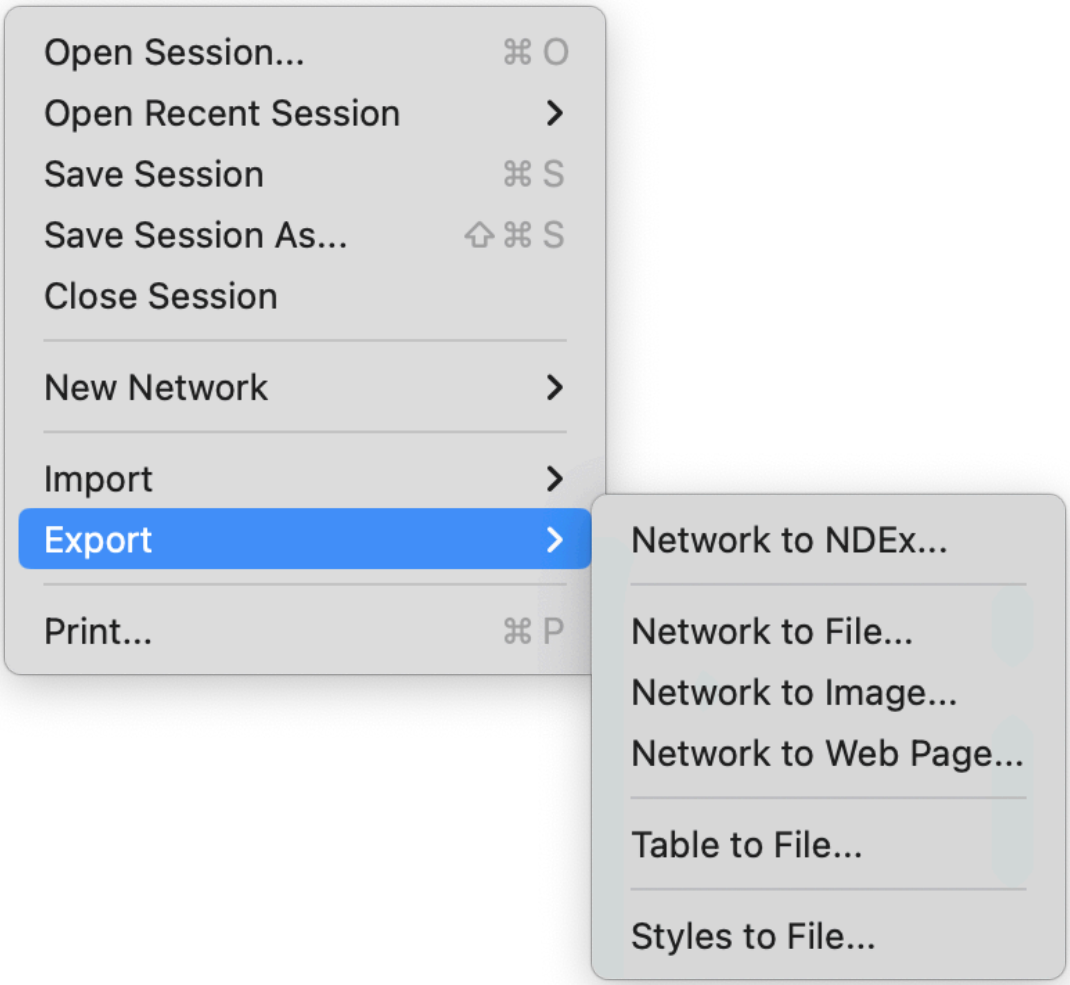
Export Graphs

- We have a graph….now what?
- Play around with different visulizations
- Export as an image

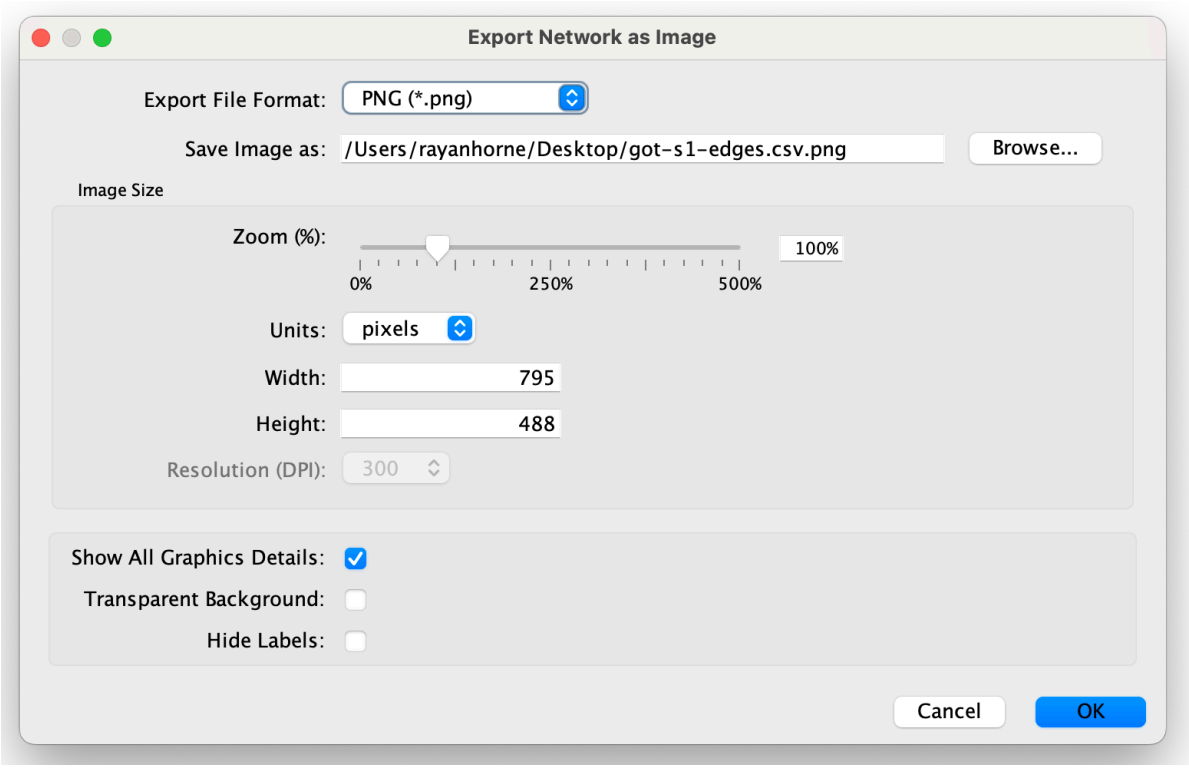
Gephi: Export



Cytoscape: Export



Cytoscape: Export



Python: Export

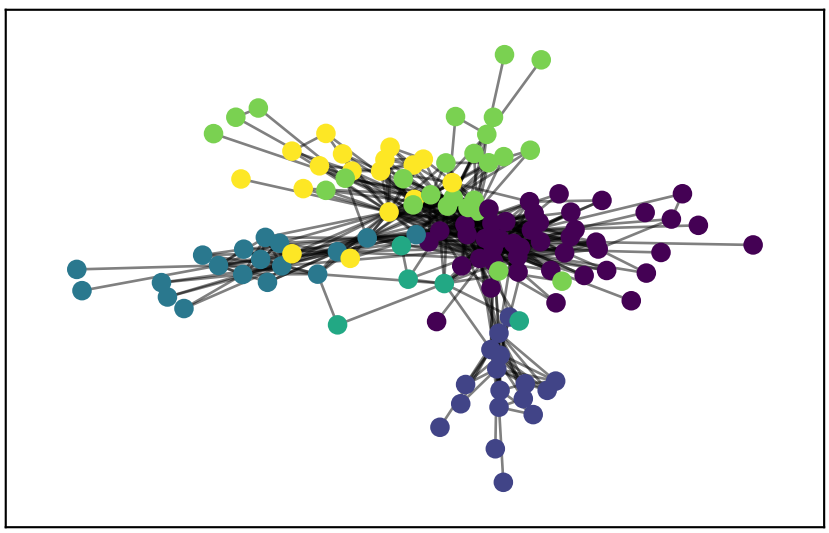
Python Code

```
partition = community_louvain.best_partition(G)
pos = nx.spring_layout(G)
# color the nodes according to their partition
cmap = cm.get_cmap('viridis', max(partition.values()) + 1)
nx.draw_networkx_nodes(G, pos, partition.keys(), node_size=40,
                       cmap=cmap, node_color=list(partition.values()))
nx.draw_networkx_edges(G, pos, alpha=0.5)
plt.savefig('graph1.png')
```

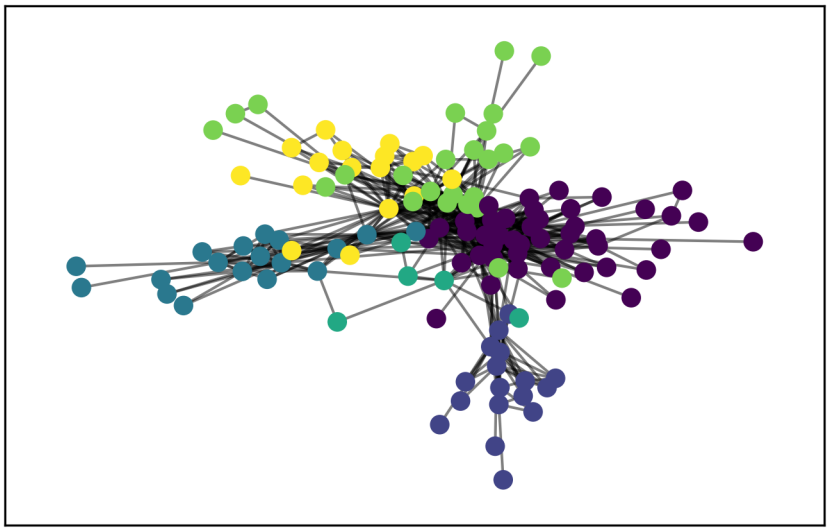
Result

```
partition = community_louvain.best_partition(G)
pos = nx.spring_layout(G)
# color the nodes according to their partition
cmap = cm.get_cmap('viridis', max(partition.values()) + 1)
nx.draw_networkx_nodes(G, pos, partition.keys(), node_size=40,
                       cmap=cmap, node_color=list(partition.values()))
nx.draw_networkx_edges(G, pos, alpha=0.5)
plt.savefig('graph1.png')
```

```
/var/folders/x2/qctt6d_111z09bhnybfttp8w0000gp/T/ipykernel_57878/1697713534.py:4: Matplotlib
  cmap = cm.get_cmap('viridis', max(partition.values()) + 1)
```



Python: Export



Thank You!

Any Questions?