RAAN CASE STUDY

LORENZO MAURI

Content:

- networkvisualization.ipynb
- app.py
- utlis.py
- templates
 - index.html
 - o 2d.html
 - 3dhtml

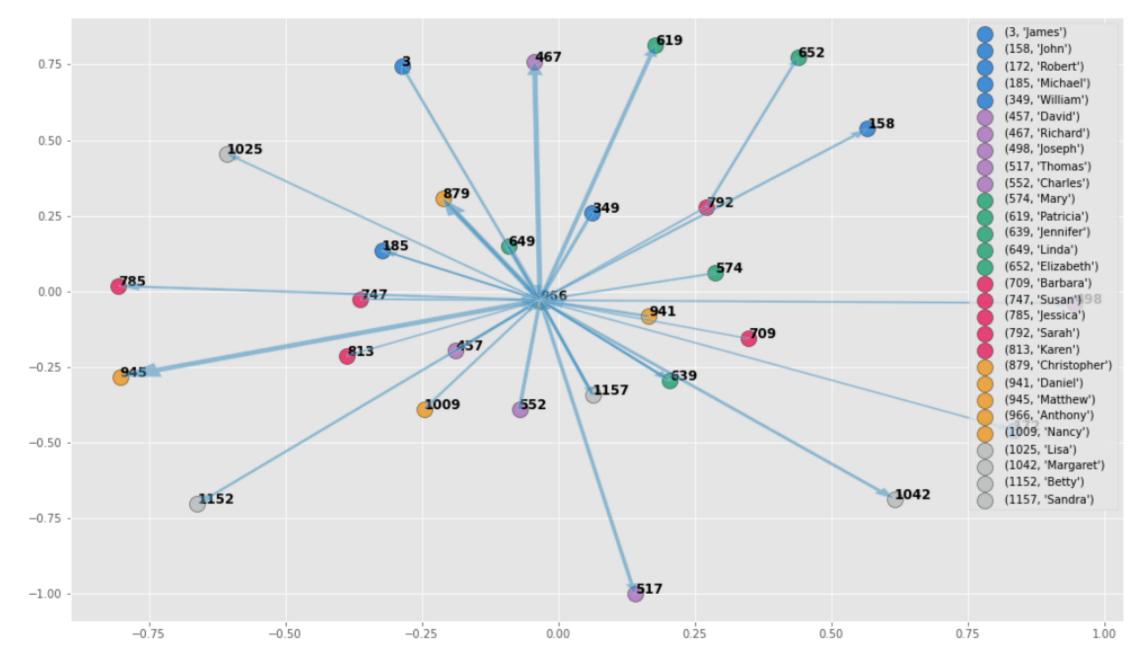


visit my github repo: https://github.com/lorenzomauri17/NetworkVisualizer

networkvisualization.ipynb

2D visualization

- chart: matplotlib
- graph: networkx



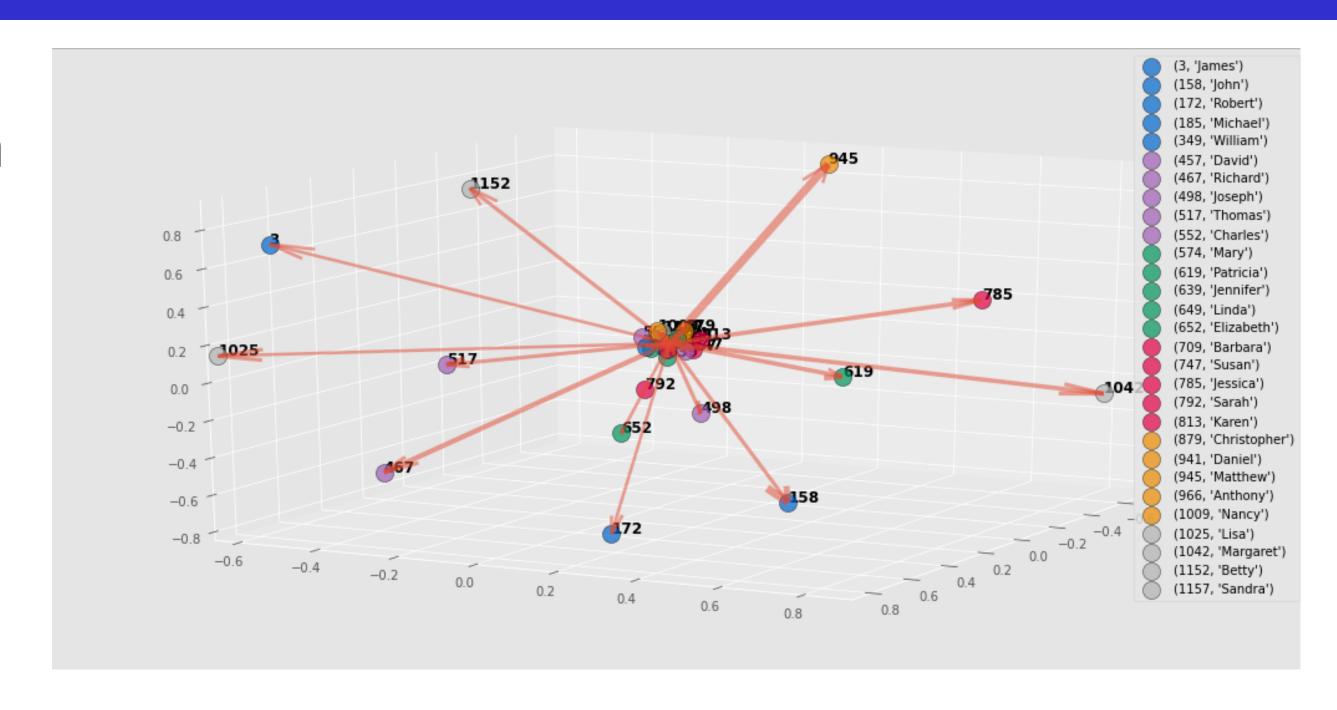
for the 2D chart the value of the optimal distance between nodes (parameter k in nx.layout.spring_layout) manually increaseed for ease of visualization

networkvisualization.ipynb

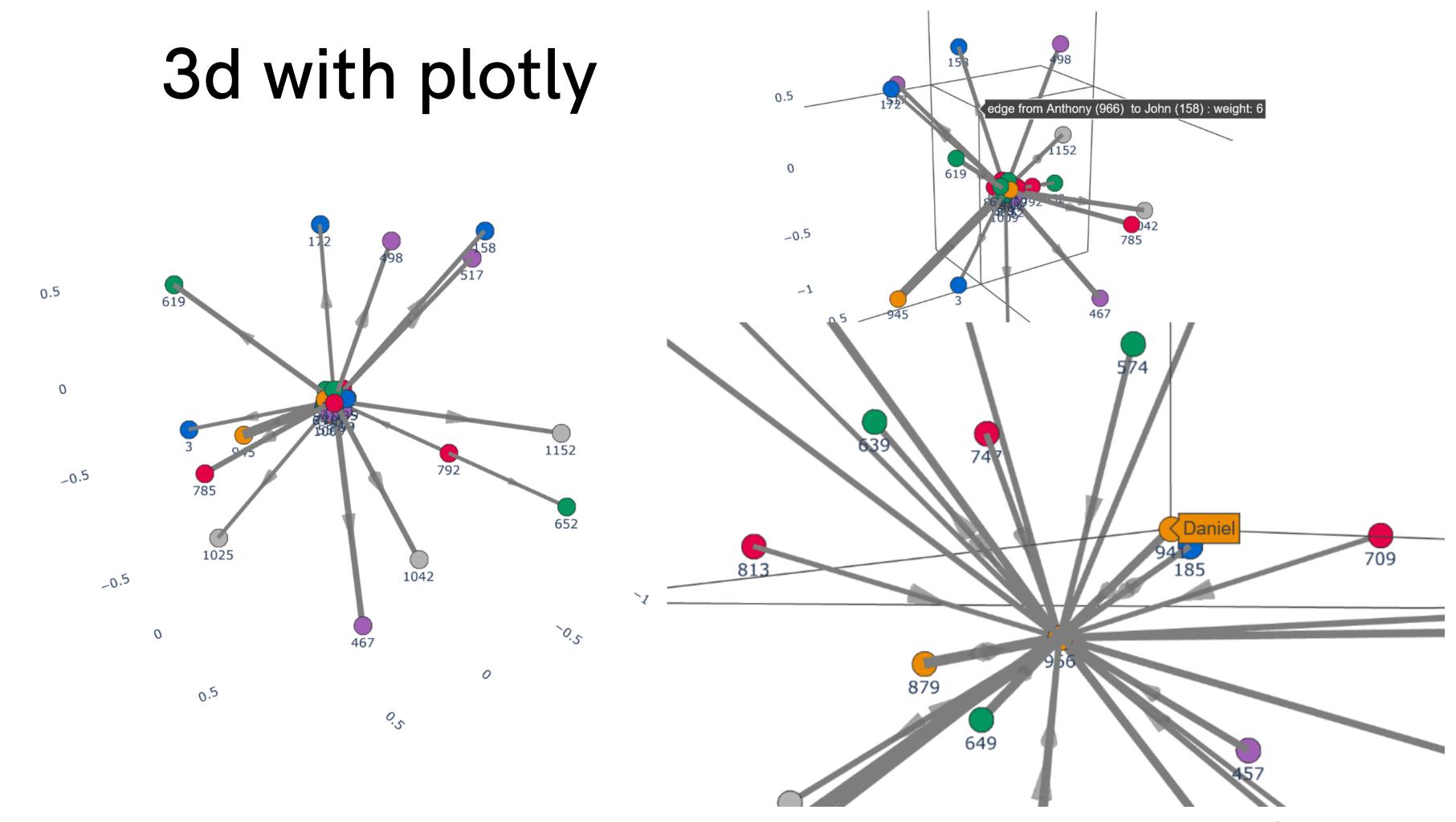
3D visualization

chart: matplotlib

graph: networkx



for the 3D charts the value of the optimal distance between nodes (parameter k in nx.layout.spring_layout) kept to its default value 1/sqrt(N)



for the 3D charts the value of the optimal distance between nodes (parameter k in nx.layout.spring_layout) kept to itss default value 1/sqrt(N)

app.py

- home page
 - 2d chart (observablehq.com)
 - 3d chart (plotly)

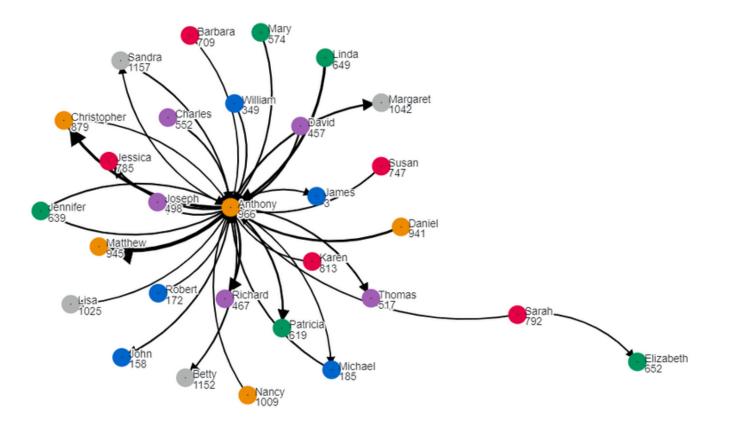
click on one of the buttons for the preferred visualization

2D Chart

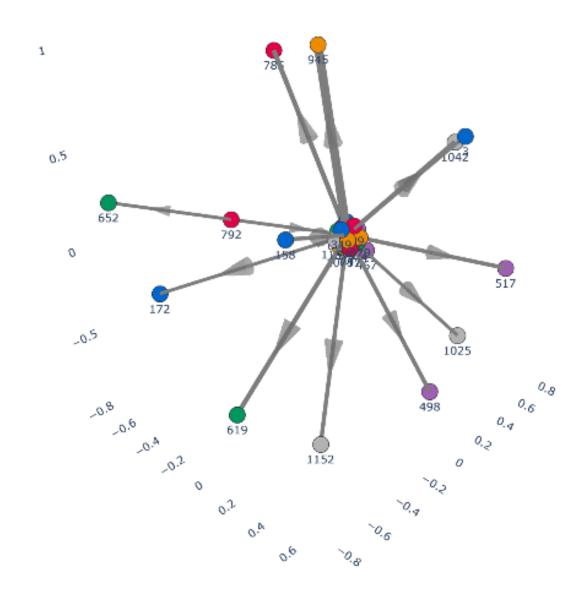
3D Chart

- running app.py the app runs locally
- app deployed online: visit http://maurilo.pythonanywhere.com/

2D



3D



THANK YOU!