



Network of Friendships

Created and Presented By

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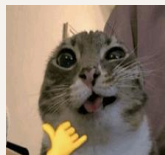
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100

“Iteratively, recursively, precisely.”

-Prof. Gharibi



01 Agenda

An outline of our objective and goals



Agenda



Our Project: Network of Friendships

Our Objectives:

- Represent a weighted graph in a social relation setting i.e. network of friendships.
- Show each the Graph's statistic i.e. median friendship weight etc.

And the most important thing:
Representing Graph Theory by showing
connections between a network of
friendships!





Methodology

What and How we will represent Graph Theory!

-
- A cartoon illustration of a group of people in a social setting. In the center, a man in a blue suit and orange tie stands with his hands on his hips, smiling. Next to him is a woman in a pink blazer. To the right, a man in a grey uniform and cap is gesturing with his hand. Other people are visible in the background, including a man in a red jacket and a woman in a white top. The scene is set against a light blue background with a white border.

Methodology – Friend Lists



Tanner

Johnny - 10
Nhu - 8
Jacob - 9
Kayden - 8
Jordan - 9
Juice - 7
Francis - 7
Adeeba - 8
Alex - 9
Prof. Gharibi - 10

Johnny

Tanner - 10
Nhu - 8
Cameron - 7
Jacob - 8
Jordan - 8
Juice - 8
Adeeba - 9
Aleeza - 9
Kieran - 8
Prof. Gharibi - 10

Nhu

Johnny - 8
Tanner - 8
Joseph - 6
Benny - 7
Mystic - 7
Adeeba - 8
Juice - 7
Aleeza - 7
Jordan - 6
Prof. Gharibi - 10

Total friend per person: 10

Statistics



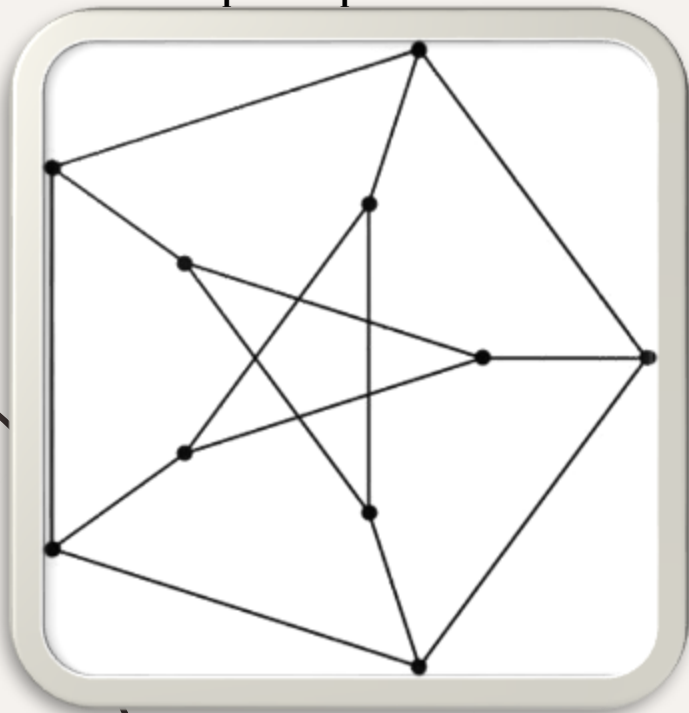
	Average Strength	Highest Strength	Lowest Strength
Tanner	8.5	10	7
Johnny	8.4	10	7
Nhu	7.4	10	6

Most Popular Person: Tanner (85), Johnny (85), Nhu (74)

Graph Total Weight: 244

Graph Average Weight: 8.13

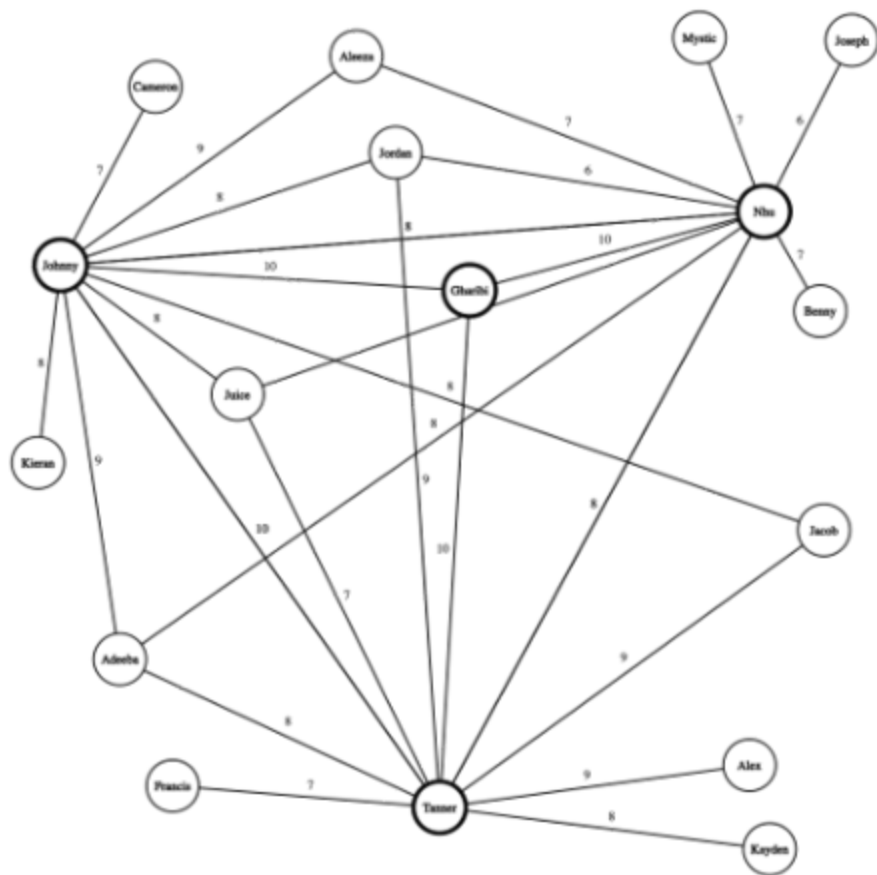
P.S: Example Graph



03

Graph

Our graph with connected nodes and weights



Friendship Graph

	Average Strength	Highest Strength	Lowest Strength
Tanner	8.5	10	7
Johnny	8.4	10	7
Nhu	7.4	10	6

- Major nodes (Hubs):
 - Johnny, Nhu, Tanner, Prof. Gharibi
- Most shared neighbors:
 - Adeeba, Juice, Jordan, Prof. Gharibi
- Strongest Ties (Closest friends):
 - Prof. Gharibi
- (If weights 6-7 are removed, most of the network is still connected, shows strong relationships)

04

Conclusion + Reference

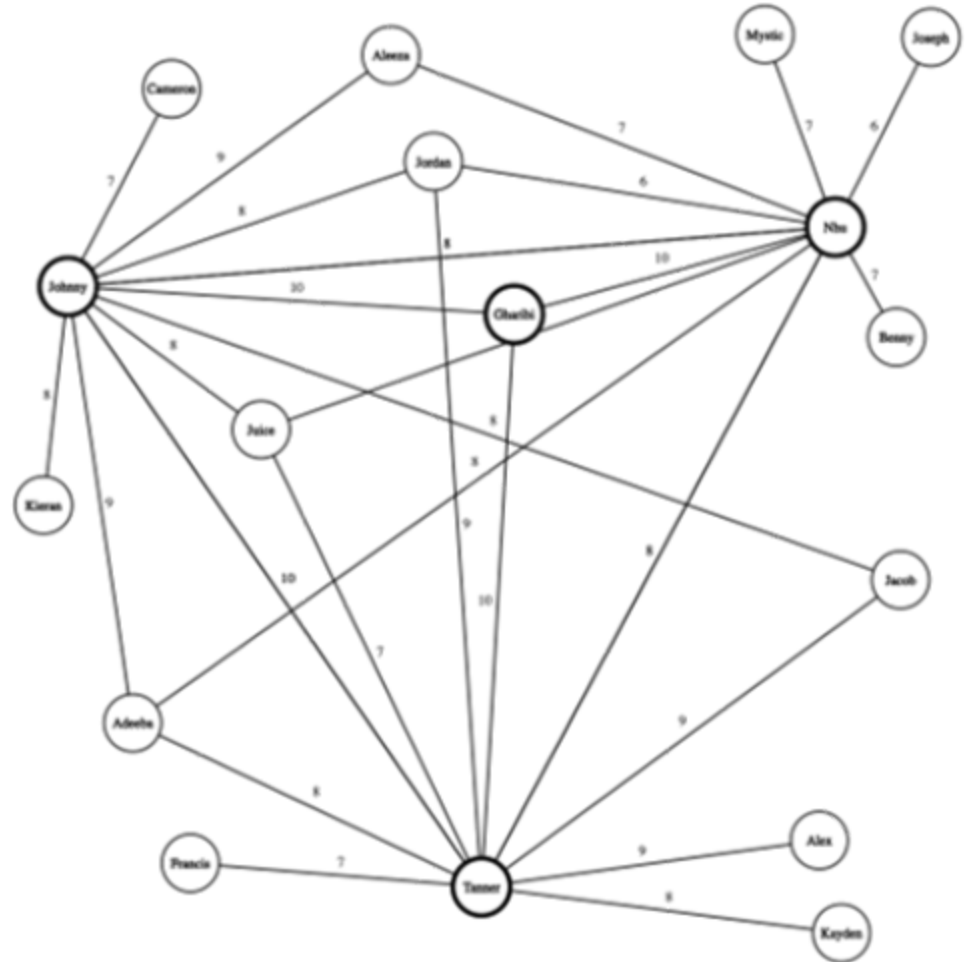
Project wrap up + related discussion!

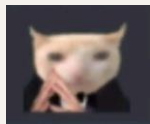


Conclusions



- Prof. Gharibi is recursively popular
- Most friends of the group are connected.
- There would be a lot of connections if the group members were excluded.
- Average of 2-3 person have only one connection with a group numbers

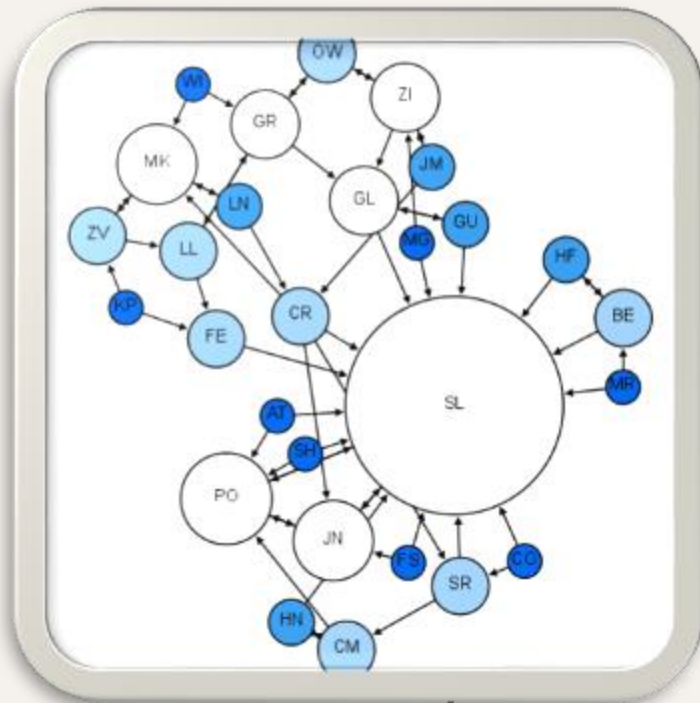




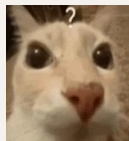
Conclusion - Implementations

Examples

- Social Networks
 - WR: messages per week, post interactions
- Campus Networks
 - WR: classes together, same majors/clubs/etc.
- Workplace Networks
 - WR: emails sent, meetings



Q&A



Feel free to ask any questions!



- Why graph theory?
- What is the most interesting part of this project?
- What would we have done better?



Reference



Prof. Gharibi Wajeb

We sincerely offer our greatest gratitude and respect to Prof. Gharibi for offering us the best course and environment we've ever had in our college career.



Sources

Graph Creation: https://csacademy.com/app/graph_editor/

Prof. Gharibi Wajeb
