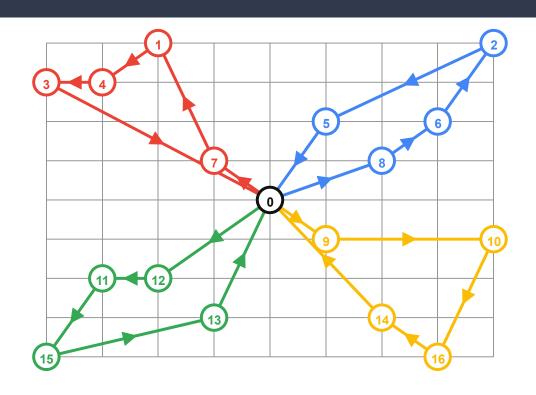
Employee Relationships in an Organization

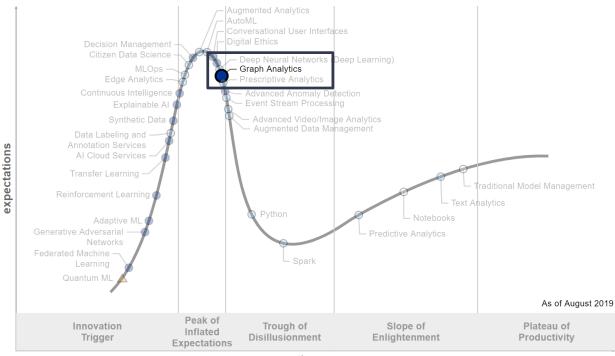
Analysis using Graph Theory

Optimization Challenge: Python



Gartner Hype Cycle

Interactive Hype Cycle

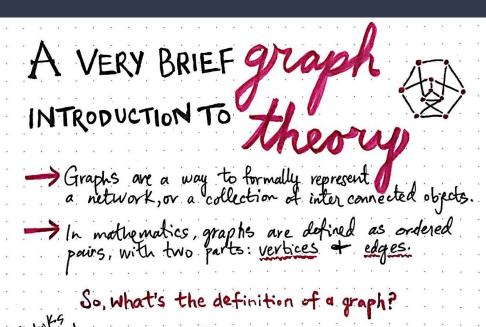


time

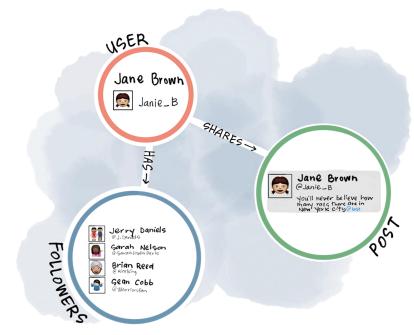
Plateau will be reached:

O less than 2 years ○ 2 to 5 years ● 5 to 10 years ▲ more than 10 years ⊗ obsolete before plateau

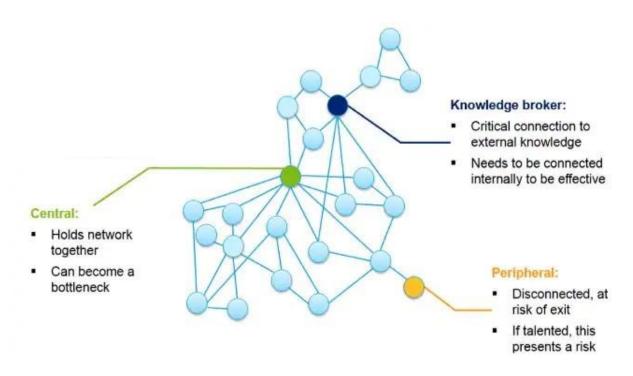
What is Graph Theory?

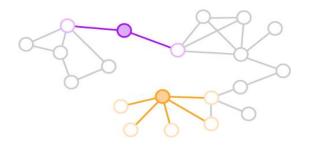


where V is a set of nodes, also called vertices and E is a set of edges, also called links



Organizational Network Analysis

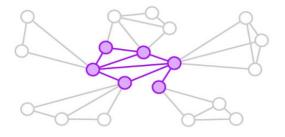


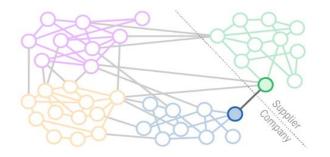


Which employee will change others' behavior?

Examples

Which teams will innovate effectively?





Which employees the organization cannot afford to lose?

Our Project - Trends Marketplace

Data Collection & Transformation

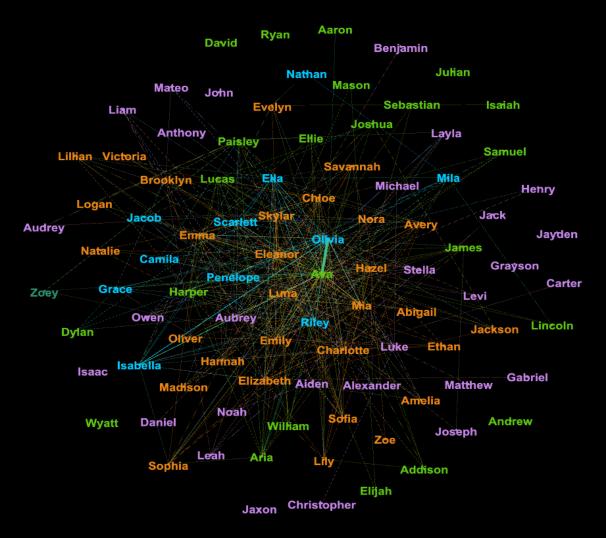
- Nodes MSBA Students
- Edges Conversations on Carlson WhatsApp Group
- Attributes Nationality

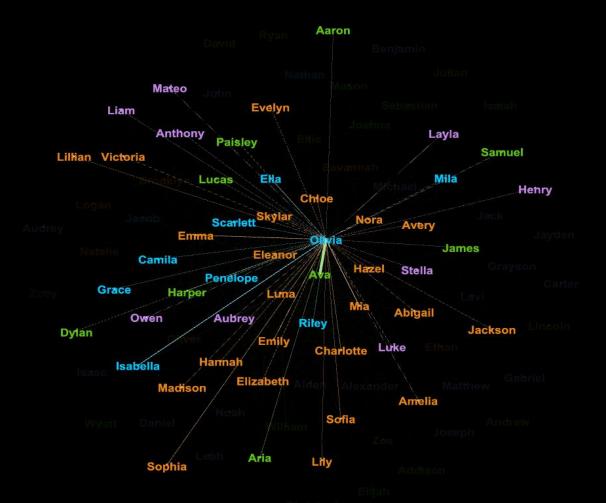
Create using NetworkX

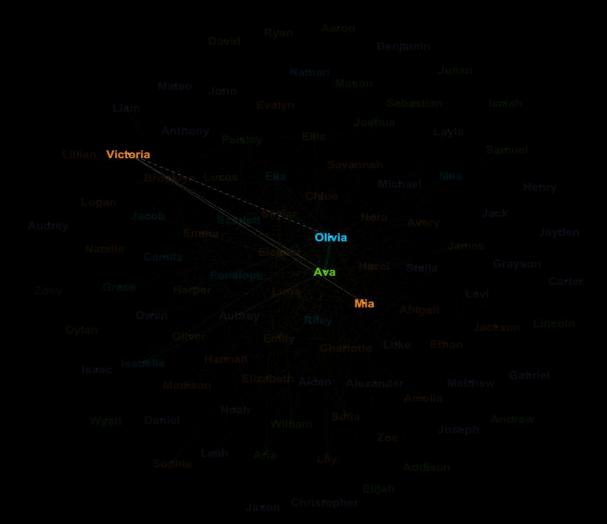
- Assign weights to edges according to the number of messages
- Categorize nodes by attributes

Visualize using Gephi

- Validate intuitions
- Find new insights and analyze relationships







A picture speaks a thousand words...



