

Week 10: Social Networks

Data Wrangling and Visualization

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F2025

Due This Week: Problem Set 8

Lecture: Social Network Visualization

Readings & Reference Material

- Core Reading
 - Ognyanova, “[Static and dynamic network visualization with R](#)”
 - [DMSS](#), ch 13
- Reference Materials
 - Newman, [Networks](#).
 - * A technical and highly interdisciplinary look at networks, spanning physical networks, biological networks, social networks, and more. Comprehensive, lots of network theory.
 - Menczer, Fortuanto, and Davis, [A First Course in Network Science](#).
 - * A short introduction focused on networks in a broad sense, with a focus on computation for network analysis in Python.
 - Jackson, [Social and Economic Network Analysis](#).
 - * As befits the name, a focus on economic and social networks.
 - Scott, [Social Network Analysis](#).
 - * An introduction for beginners, with a focus on substance over computation.

Network Visualization Examples

Social Networks has inspired a lot of creativity when it comes to think about things in relational contexts. A few examples are below to spark your interest and imagination ahead of your problem set this week.

- [Hamilton \(Musical\)](#)
- [Game of Thrones \(TV Show and Books\)](#) *see also news coverage here*
- [Myst \(Computer Game\)](#)
- [Biblical Gospels \(Religion\)](#)
- [Star Wars \(Movies\)](#)
- [Marvel \(Movies/Comics\)](#)

Due Next Week: Problem Set 9