Assignment 1

Visualization Framework and Workflow Design

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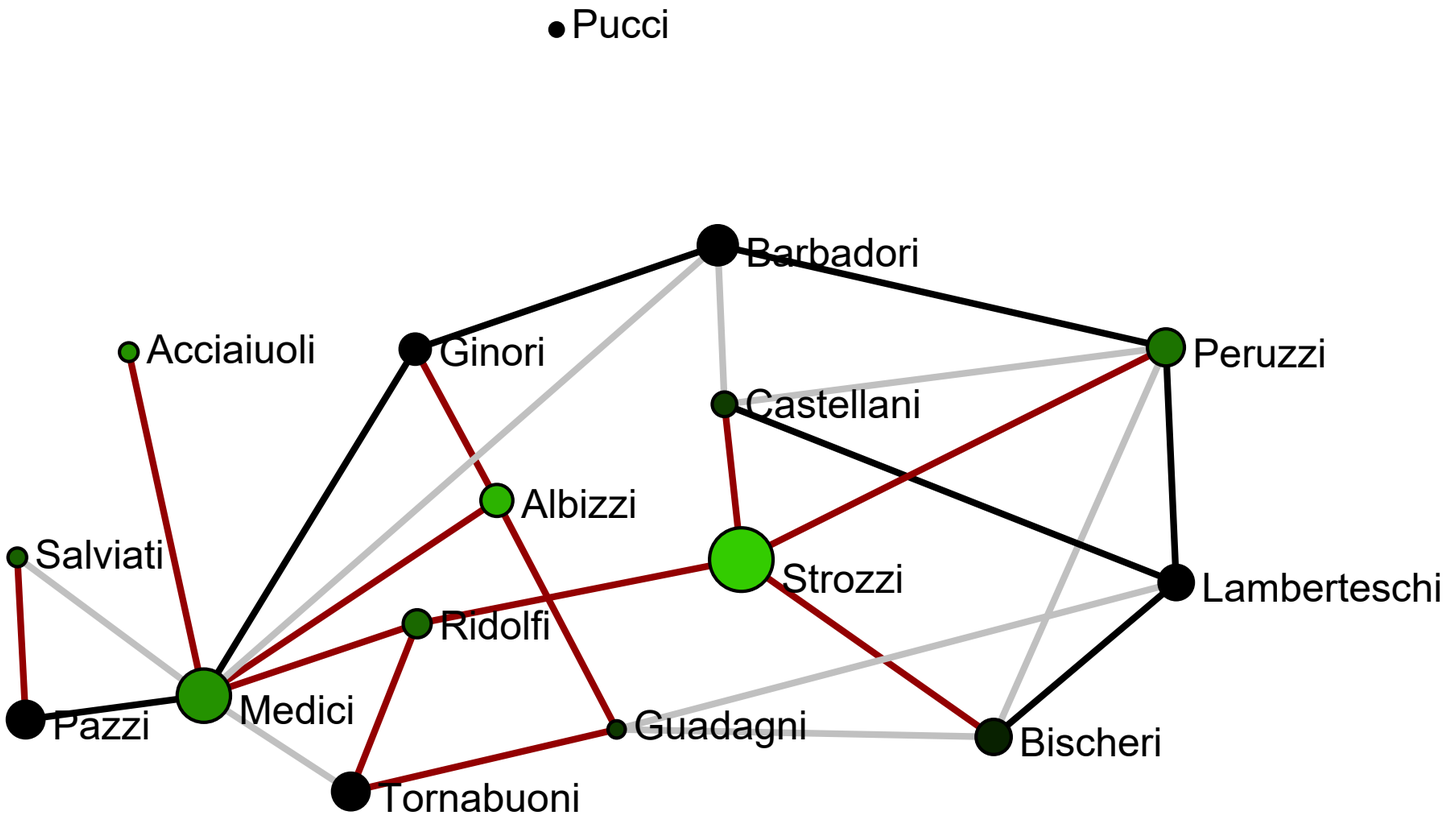
Problem Statement: For this weeks assignment, you will need to download the Sci2 tool (available for download at https://sci2.cns.iu.edu) and use the tool to visualize the Florentine Families network To complete the assignment, Use the Sci2 and Guess tools to create a network visualization.
Your final product should:

- represent the three familial relationships (families with business, families with marriage, and families with both types of relationships) with unique colors;
- have title and legend that shows the size value of the nodes and edges in your network, and the meaning of colors used in the network to represent various features of the network.

Data: Padgett's Florentine families' dataset includes 16 different Italian families from the early 15th century. Each family is represented by a node in the network and families are connected by edges that represent either a marriage or business/lending ties. Each node (family) has several attributes: wealth (in thousands of lira), number of priorates (seats on the civic council between 1282-1344), and total ties (total number of business ties and marriages in the dataset).

Visualization of the Florentine families



Node Size and Color

Wealth (Thousands of Lira)

146
27
3

Edge Color

Relationship Type

Marriage and Business Ties

Business Tie

Marriage Tie

Number of Government Seats (Priorates)

Note: Data Source: Sci2