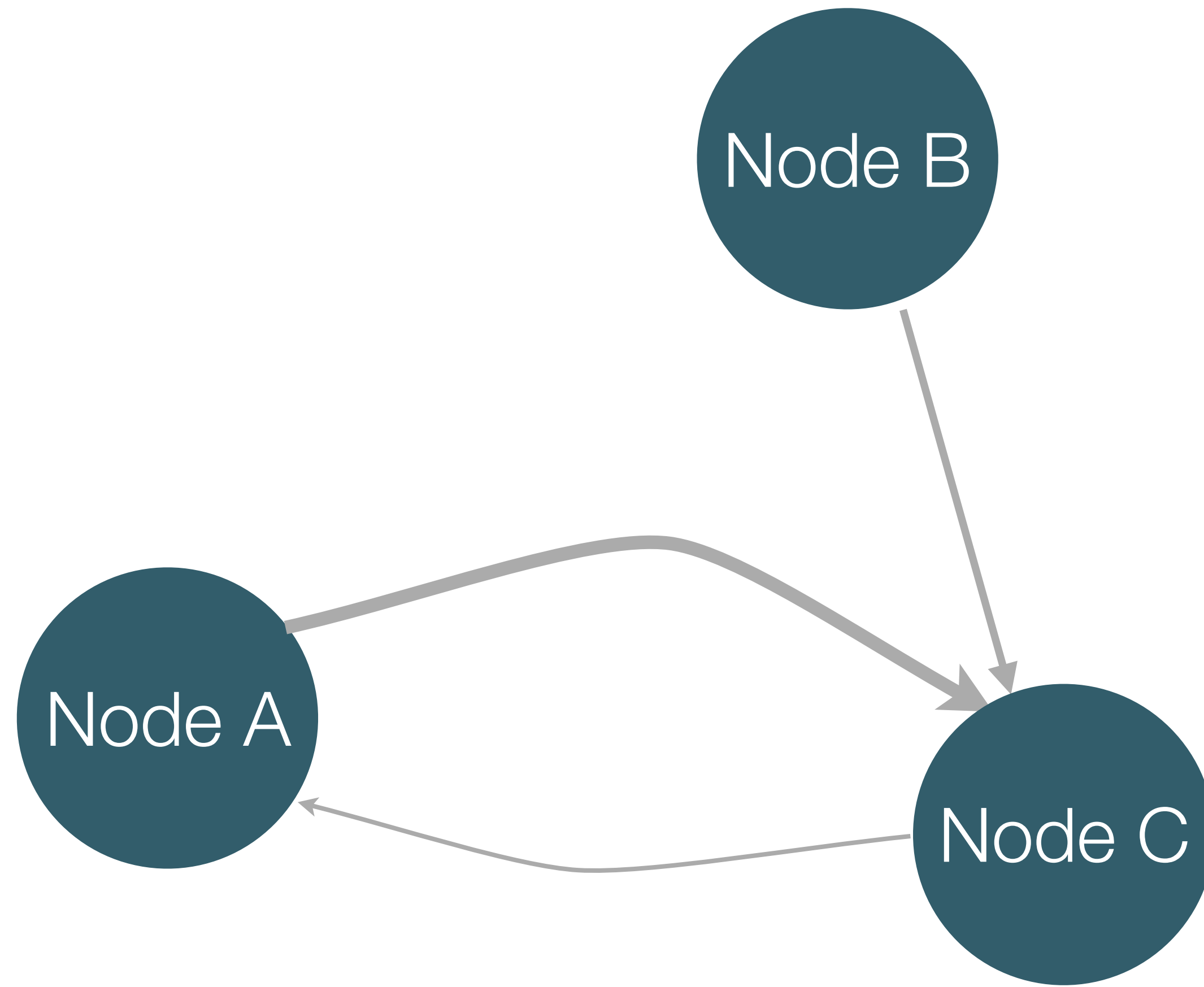


# Using Social Network Analysis in the Classroom

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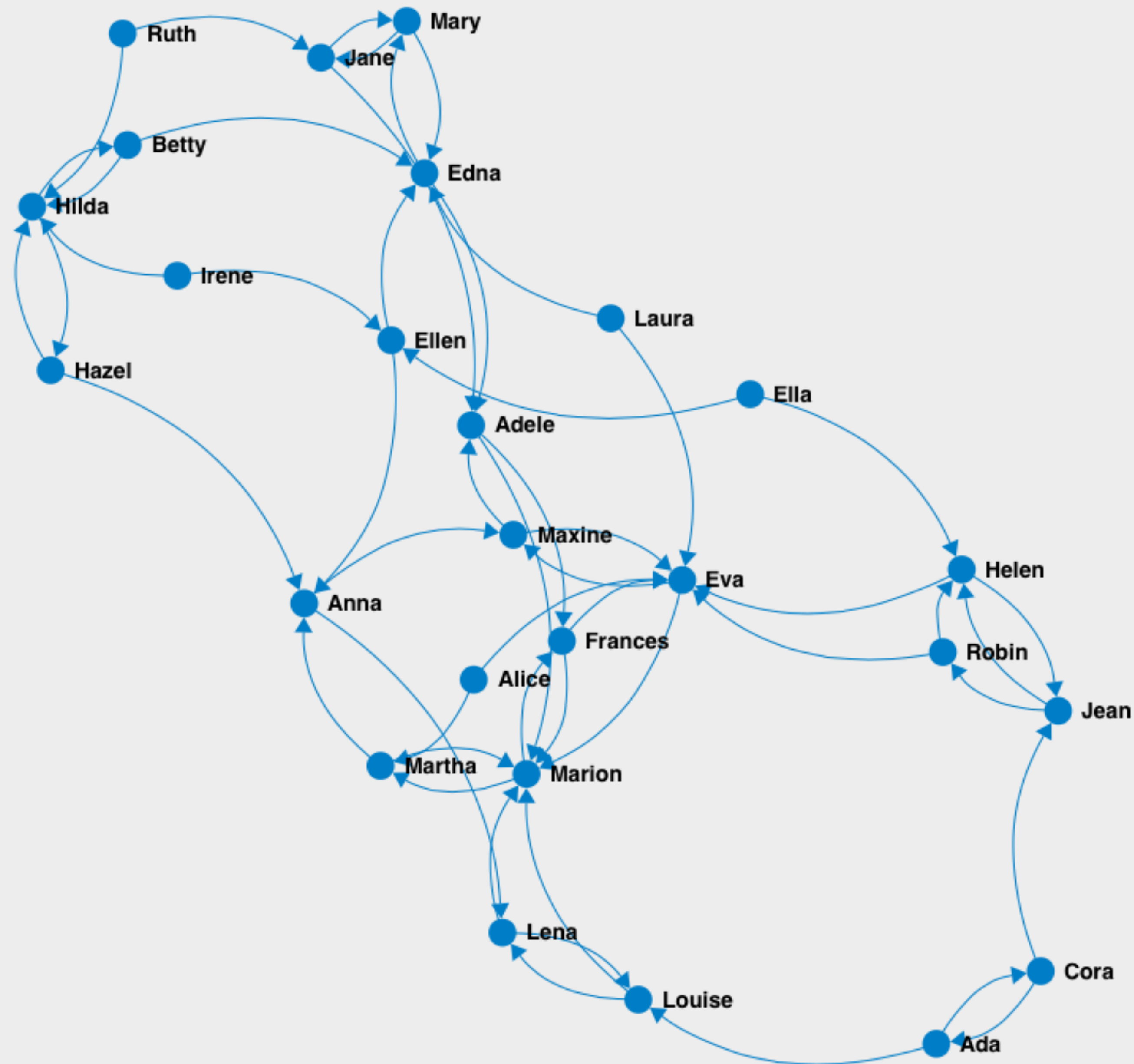
Ruben R. Puentedura, Ph.D.



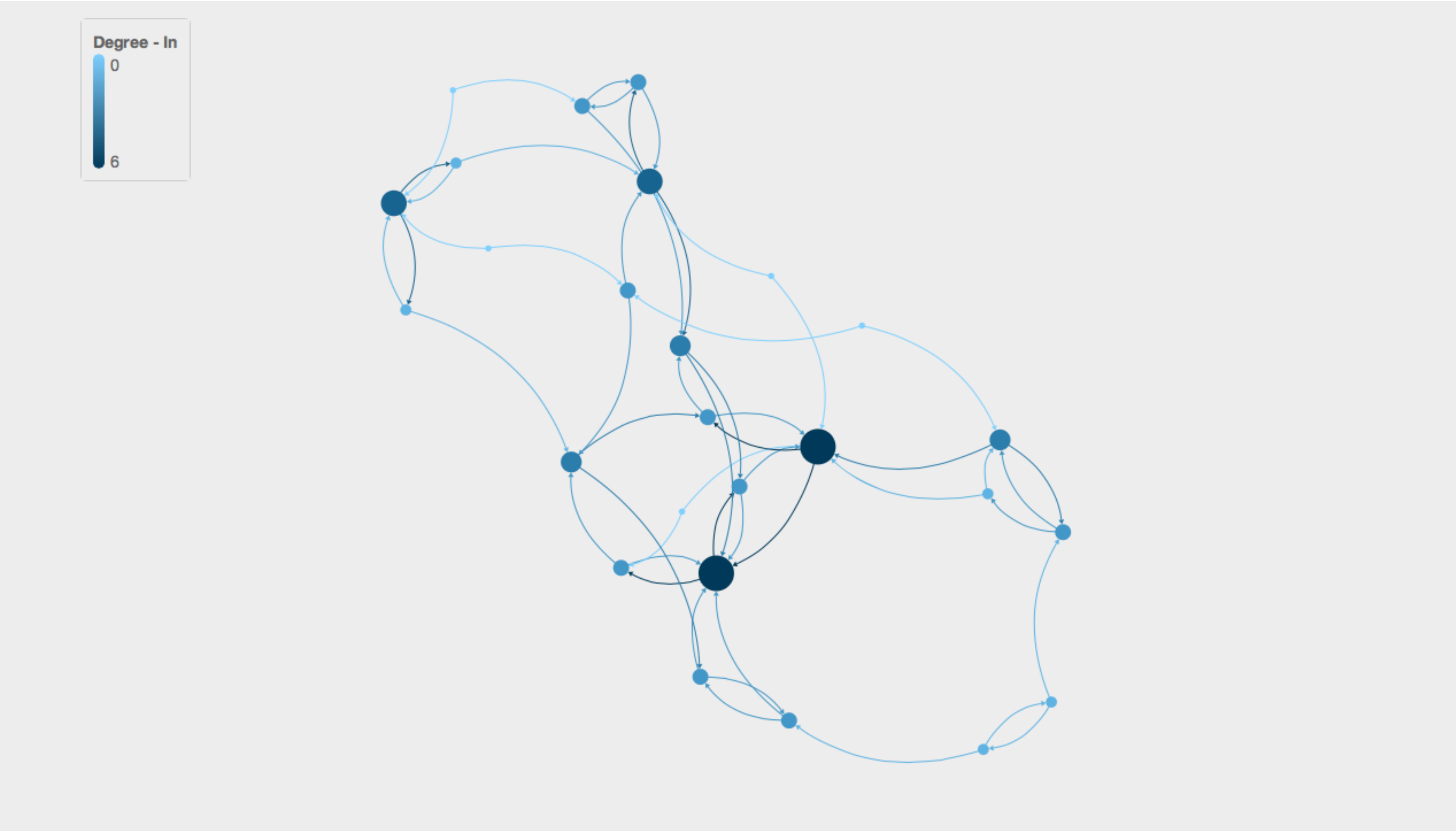
# Social Network Analysis – Collecting Data

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- **The key components:**
  - The actors
  - Their connections
  - The directionality (if any) of the connections
  - The strength (if any) of the connections
- **Looking at the actors:**
  - **Whole Network:** Do we choose a full set for which we then determine connections?
  - **Egocentric Network:** Do we choose a subset (egos) for which we then determine connections to other actors (alters)?
- **Choosing the actors:**
  - **Positional Approach:** based upon set membership or shared attributes
  - **Event-Based Approach:** based upon participation in a set of activities
  - **Relational Approach:** based upon social connectedness
- **Collecting the data:**
  - Surveys
  - Observation
  - Participation records
  - Electronic network data from e.g. email, discussion forums

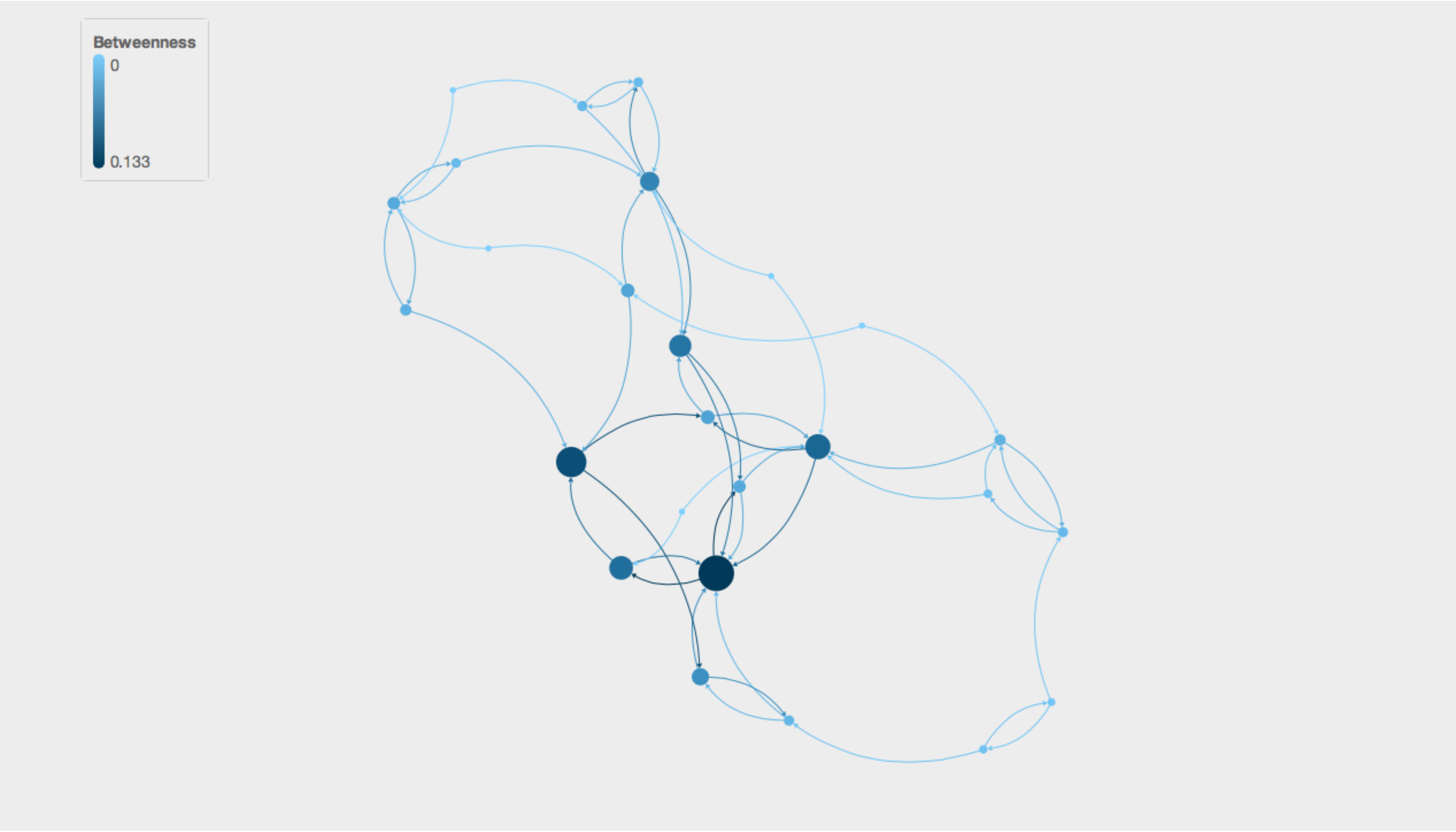


# Degree



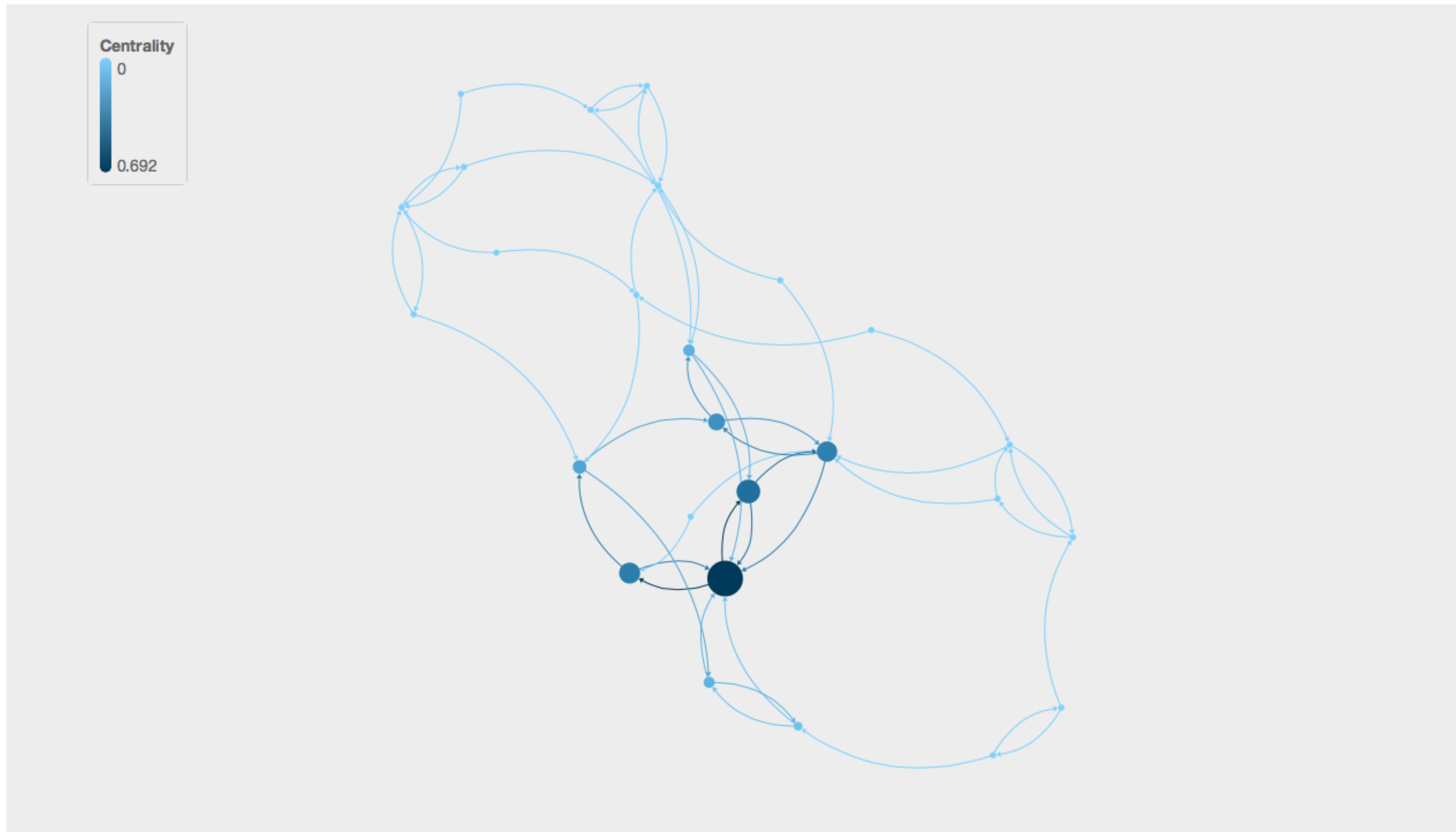
Data Source: Dining-table partners in a dormitory at a New York State Training School – Coded as a Pajek network data file by W. de Nooy (2001)  
Originally published in J.L. Moreno, *The Sociometry Reader*. The Free Press (1960) – Research by H.H. Jennings and J.L. Moreno

# Betweenness



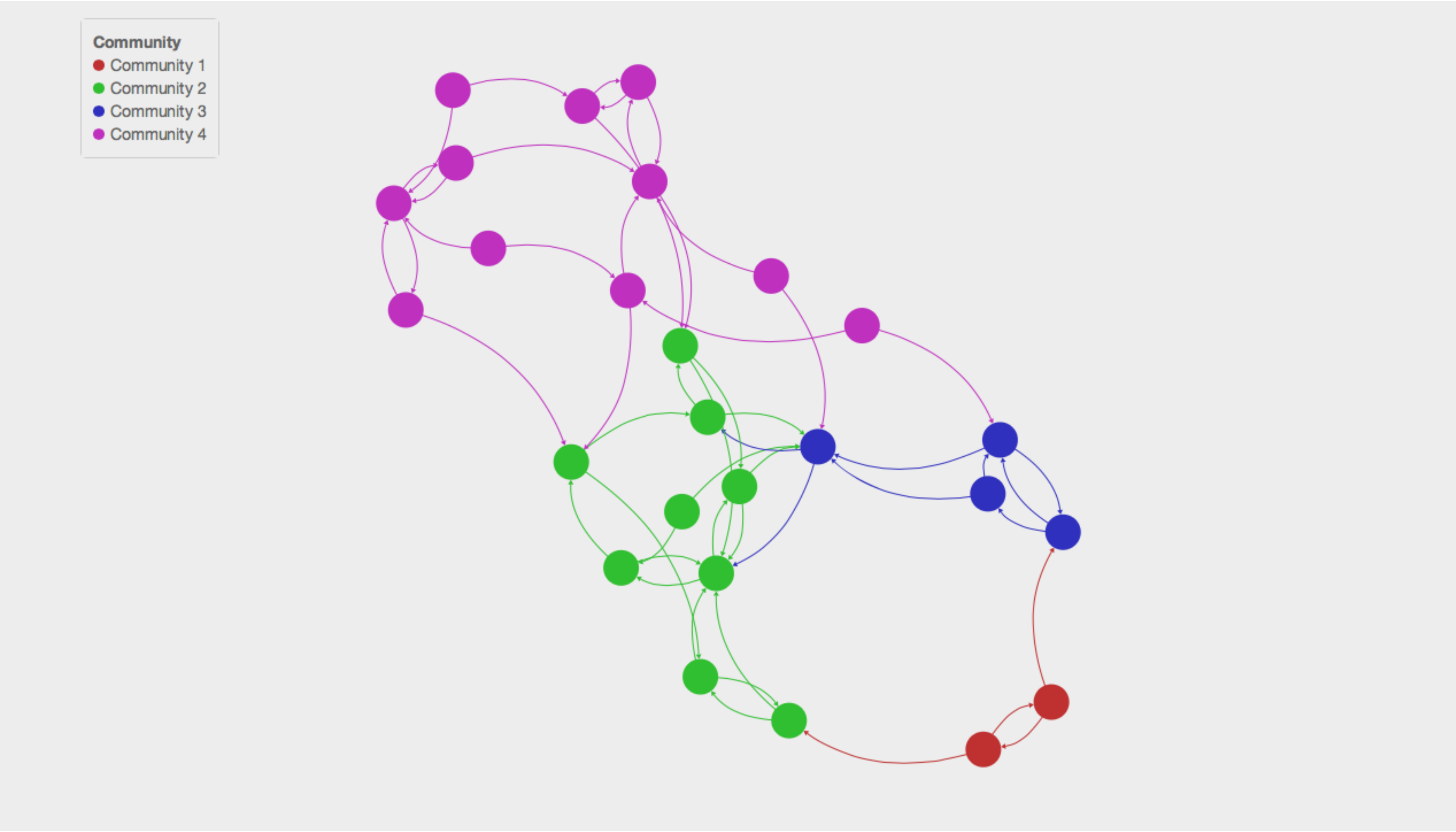
# Centrality

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# Community

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# 3 Networks for Today

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- **Dining-table partners in a dormitory at a New York State Training School**

(<http://tinyurl.com/ll2015sna>)

- Research by H.H. Jennings and J.L. Moreno, published in J.L. Moreno, *The Sociometry Reader*. Glencoe (Ill.), The Free Press, 1960, p. 35. Network file coded by W. de Nooy.

- **Student government discussion network**

(<http://tinyurl.com/ll2015sna2>)

- V. Hlebec, “Recall versus recognition: comparison of two alternative procedures for collecting social network data.” (in A. Ferligoj & A. Kramberger (Eds.), *Developments in Statistics and Methodology*. Ljubljana: FDV, 1993). Network file coded by V. Batagelj.

- **Modern math method diffusion**

(<http://tinyurl.com/ll2015sna3>)

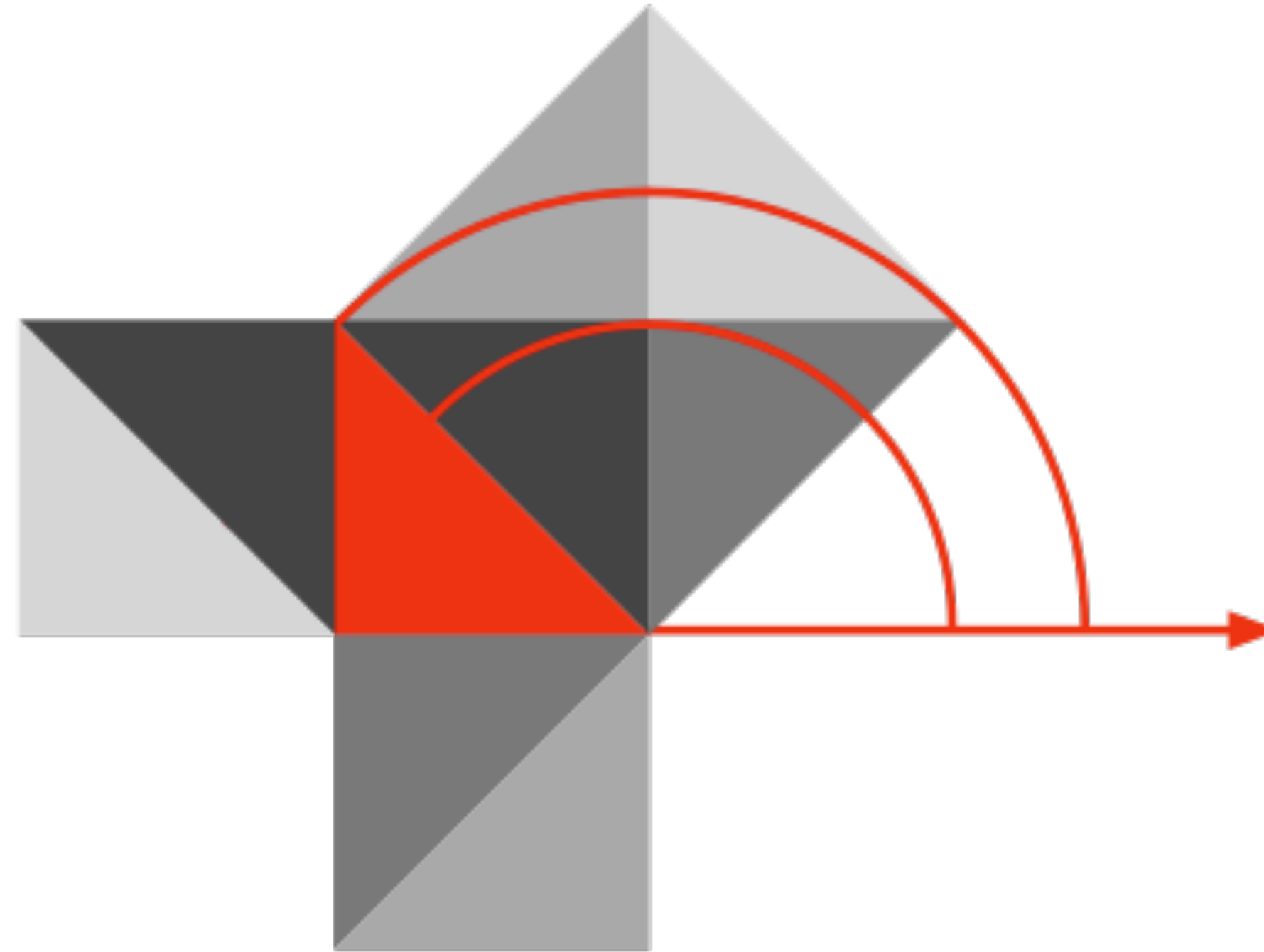
- R.O. Carlson, *Adoption of Educational Innovations* (Eugene: University of Oregon, Center for the Advanced Study of Educational Administration, 1965, p. 19). Network file coded by W. de Nooy.

**Polinode:** <http://www.polinode.com>

**Network:** <http://tinyurl.com/1l2015sna>

# Hippasus

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Blog: <http://hippasus.com/blog/>

Email: [rubenrp@hippasus.com](mailto:rubenrp@hippasus.com)

Twitter: @rubenrp

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