

What makes up a network?

"structural", "relational"
approach to sociology

kinship, friendship,
sociometrics"

Emirbayer, M. (1997). Manifesto for a Relational Sociology. American Journal of Sociology, 103(2), 281–317. <https://doi.org/10.1086/231209>
Freeman, L. C. (2004). The development of social network analysis: a study in the sociology of science. Vancouver, BC: Empirical Press.

Nodes/vertices: objects

Edges/links: interactions

- Network or graph?

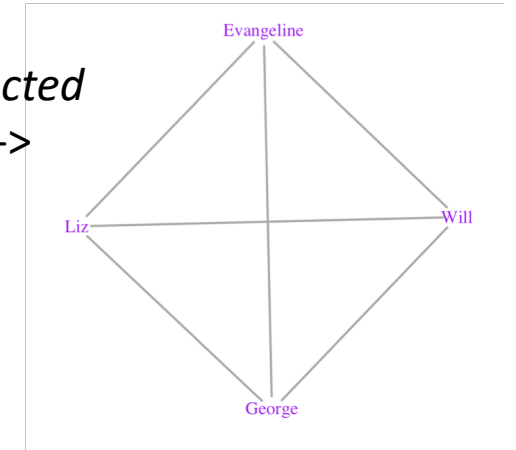
I'll use them interchangeably, but usually a network is a real system and a graph is a mathematical representation of a network.

Network representations

Edgelists

```
Will Liz
Will Evangeline
Will George
Liz Evangeline
Liz George
Evangeline George
```

As undirected
network ->



Adjacency matrices

| | Will | Liz | Evangeline | George |
|------------|------|-----|------------|--------|
| Will | 0 | 1 | 1 | 1 |
| Liz | 1 | 0 | 1 | 1 |
| Evangeline | 1 | 1 | 0 | 1 |
| George | 1 | 1 | 1 | 0 |