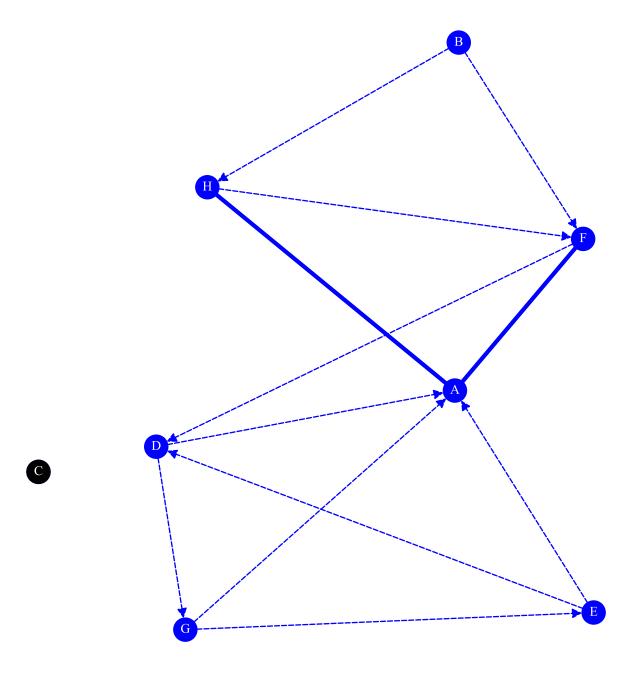


GROUP 1 - DEMO SNA NETWORK GRAPH

A. Who would you like in your ideal work group?

NN 8, NE 14, ND 25%, NC 38%, NT 57%, NR 29%



NN Nodes NE Edges ND Density NC Centralization NT Transitivity NR Reciprocity

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GROUP 1 - DEMO SNA RAW SCORES

A. Who would you like in your ideal work group?

| ID | CHOICES | IC | PR | ВТ | CL | HU | ND |
|----|---------|------|------|------|------|------|----------------------|
| A | F, H | 0.71 | 0.30 | 0.17 | 0.73 | 0.07 | |
| В | F, H | 0.00 | 0.02 | 0.00 | 0.00 | 0.07 | ← |
| C | - | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | \rightleftharpoons |
| D | A, G | 0.29 | 0.14 | 0.21 | 0.51 | 0.15 | |
| E | A, D | 0.14 | 0.06 | 0.02 | 0.29 | 0.19 | |
| F | A, D | 0.43 | 0.22 | 0.23 | 0.57 | 0.19 | |
| G | A, E | 0.14 | 0.08 | 0.12 | 0.37 | 0.15 | |
| Н | A, F | 0.29 | 0.16 | 0.01 | 0.51 | 0.18 | |

 $\textbf{IC} \text{ In-Degree } \textbf{PR} \text{ PageRank } \textbf{BT} \text{ Betweenness } \textbf{CL} \text{ Closenness } \textbf{HU} \text{ Hub } \textbf{ND} \text{ No In-Degree } (\leftarrow) \text{ No Out-Degree } (\rightarrow) \text{ No In or Out-Degree } (\rightleftarrows)$



GROUP 1 - DEMO SNA RANK SCORES

A. Who would you like in your ideal work group?

| ID | CHOICES | IC | PR | ВТ | CL | HU | ND |
|----|---------|----|----|----|----|----|----------------------|
| A | F, H | 1 | 1 | 3 | 1 | 4 | |
| В | F, H | 5 | 7 | 7 | 6 | 4 | ← |
| C | - | 5 | 7 | 7 | 6 | 5 | \rightleftharpoons |
| D | A, G | 3 | 4 | 2 | 3 | 3 | |
| E | A, D | 4 | 6 | 5 | 5 | 1 | |
| F | A, D | 2 | 2 | 1 | 2 | 1 | |
| G | A, E | 4 | 5 | 4 | 4 | 3 | |
| Н | A, F | 3 | 3 | 6 | 3 | 2 | |

IC In-Degree PR PageRank BT Betweenness CL Closenness HU Hub ND No In-Degree (\leftarrow) No Out-Degree (\rightarrow) No In or Out-Degree (\rightleftarrows) Very low Low High Wery high



GROUP 1 - DEMO

SNA NODES ORDERED BY RANKS

A. Who would you like in your ideal work group?

| RANK | IC | RANK | PR | RANK | ВТ | RANK | CL | RANK | HU |
|------|----|------|----|------|----|------|----|------|----|
| 1 | A | 1 | A | 1 | F | 1 | A | 1 | Е |
| 2 | F | 2 | F | 2 | D | 2 | F | 1 | F |
| 3 | D | 3 | Н | 3 | A | 3 | D | 2 | Н |
| 3 | Н | 4 | D | 4 | G | 3 | Н | 3 | D |
| 4 | Е | 5 | G | 5 | E | 4 | G | 3 | G |
| 4 | G | 6 | E | 6 | Н | 5 | E | 4 | A |
| 5 | В | 7 | В | 7 | В | 6 | В | 4 | В |
| 5 | C | 7 | C | 7 | C | 6 | C | 5 | C |

IC In-Degree PR PageRank BT Betweenness CL Closenness HU Hub



GROUP 1 - DEMO

SNA EDGES GROUPED BY TYPE

A. Who would you like in your ideal work group?

Non reciprocal edges

 $X \rightarrow Y$ in network $A \cdot not Y \rightarrow X$ in network A

Reciprocal edges

 $X \to Y$ in network $A \cdot Y \to X$ in network A

 $(A \cdot F)(A \cdot H)$

Half symmetrical edges

 $X \to Y$ in network $A \cdot X \to Y$ in network B

No edge of this type

Reversed half symmetrical edges

 $X \rightarrow Y$ in network $A \cdot Y \rightarrow X$ in network B

 $D \cdot A$

Full symmetrical edges

 $X \to Y, Y \to X$ in network $A \cdot X \to Y, Y \to X$ in network B

No edge of this type



GROUP 1 - DEMO SNA COMPONENTS

A. Who would you like in your ideal work group?

Connected components

 $\begin{bmatrix} \mathbf{7} & \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{F} \cdot \mathbf{G} \cdot \mathbf{H} \end{bmatrix}$

 $3 \cdot F \cdot H$

 $B\cdot F\cdot H$

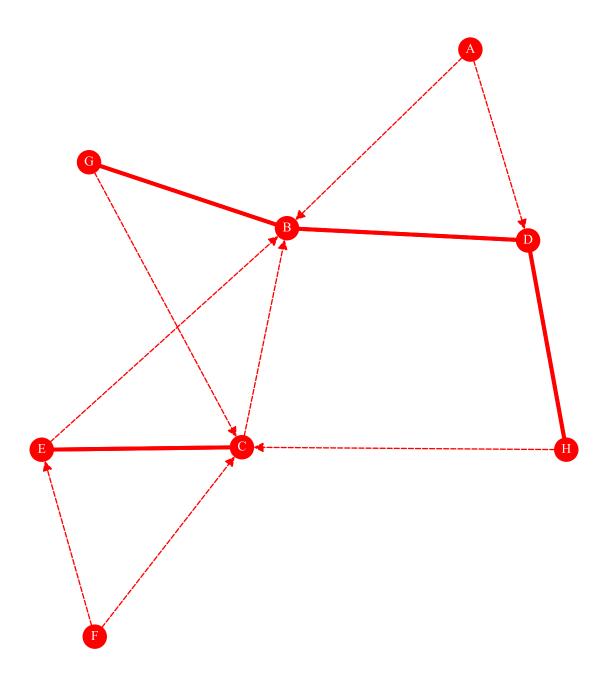
 $A \cdot D \cdot F$



GROUP 1 - DEMO SNA NETWORK GRAPH

B. Who would you not want in your ideal work group?

NN 8, NE 16, ND 29%, NC 38%, NT 44%, NR 50%



NN Nodes NE Edges ND Density NC Centralization NT Transitivity NR Reciprocity

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GROUP 1 - DEMO SNA RAW SCORES

B. Who would you not want in your ideal work group?

| ID | CHOICES | IC | PR | ВТ | CL | HU | ND |
|----|---------|------|------|------|------|------|----|
| A | B, D | 0.00 | 0.02 | 0.00 | 0.00 | 0.14 | ← |
| В | D, G | 0.71 | 0.28 | 0.36 | 0.78 | 0.05 | |
| C | B, E | 0.57 | 0.17 | 0.19 | 0.64 | 0.13 | |
| D | B, H | 0.43 | 0.19 | 0.19 | 0.58 | 0.11 | |
| Е | B, C | 0.29 | 0.10 | 0.05 | 0.44 | 0.17 | |
| F | C, E | 0.00 | 0.02 | 0.00 | 0.00 | 0.11 | ← |
| G | B, C | 0.14 | 0.14 | 0.07 | 0.47 | 0.17 | |
| Н | C, D | 0.14 | 0.10 | 0.07 | 0.39 | 0.12 | |

 $\textbf{IC} \text{ In-Degree PR PageRank BT Betweenness CL Closenness HU Hub ND No In-Degree } (\leftarrow) \text{ No Out-Degree } (\rightarrow) \text{ No In or Out-Degree } (\rightleftarrows)$



GROUP 1 - DEMO SNA RANK SCORES

B. Who would you not want in your ideal work group?

| ID | CHOICES | IC | PR | ВТ | CL | HU | ND |
|----|---------|----|----|----|----|----|-------------|
| A | B, D | 6 | 7 | 5 | 7 | 2 | |
| В | D, G | 1 | 1 | 1 | 1 | 7 | |
| C | B, E | 2 | 3 | 2 | 2 | 3 | |
| D | B, H | 3 | 2 | 2 | 3 | 5 | |
| Е | B, C | 4 | 5 | 4 | 5 | 1 | |
| F | C, E | 6 | 7 | 5 | 7 | 6 | ← |
| G | B, C | 5 | 4 | 3 | 4 | 1 | |
| Н | C, D | 5 | 6 | 3 | 6 | 4 | |

IC In-Degree PR PageRank BT Betweenness CL Closenness HU Hub ND No In-Degree (\leftarrow) No Out-Degree (\rightarrow) No In or Out-Degree (\rightleftarrows) Very low Low High Wery high



GROUP 1 - DEMO

SNA NODES ORDERED BY RANKS

B. Who would you not want in your ideal work group?

| RANK | IC | RANK | PR | RANK | ВТ | RANK | CL | RANK | HU |
|------|----|------|----|------|----|------|----|------|----|
| 1 | В | 1 | В | 1 | В | 1 | В | 1 | E |
| 2 | C | 2 | D | 2 | C | 2 | C | 1 | G |
| 3 | D | 3 | C | 2 | D | 3 | D | 2 | A |
| 4 | E | 4 | G | 3 | G | 4 | G | 3 | C |
| 5 | G | 5 | E | 3 | Н | 5 | E | 4 | Н |
| 5 | Н | 6 | Н | 4 | E | 6 | Н | 5 | D |
| 6 | A | 7 | A | 5 | A | 7 | A | 6 | F |
| 6 | F | 7 | F | 5 | F | 7 | F | 7 | В |

IC In-Degree PR PageRank BT Betweenness CL Closenness HU Hub



GROUP 1 - DEMO

SNA EDGES GROUPED BY TYPE

B. Who would you not want in your ideal work group?

Non reciprocal edges

 $X \to Y$ in network $B \, \cdot \, not \, Y \to X$ in network B



Reciprocal edges

 $X \to Y$ in network $B \cdot Y \to X$ in network B



Half symmetrical edges

 $X \to Y$ in network $B \, \cdot \, X \to Y$ in network A

No edge of this type

Reversed half symmetrical edges

 $X \rightarrow Y$ in network $B \cdot Y \rightarrow X$ in network A

 $A \cdot D$

Full symmetrical edges

 $X \to Y, Y \to X$ in network $B \cdot X \to Y, Y \to X$ in network A

No edge of this type



GROUP 1 - DEMO SNA COMPONENTS

B. Who would you not want in your ideal work group?

Connected components

 $\begin{bmatrix} \mathbf{8} & \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{F} \cdot \mathbf{G} \cdot \mathbf{H} \end{bmatrix}$

 $\begin{bmatrix} \mathbf{6} & \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{G} \cdot \mathbf{H} \end{bmatrix}$

 $\begin{bmatrix} \mathbf{3} & \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D} \end{bmatrix}$

 $B \cdot C \cdot E$

 $B\cdot C\cdot G$

 $C \cdot E \cdot F$