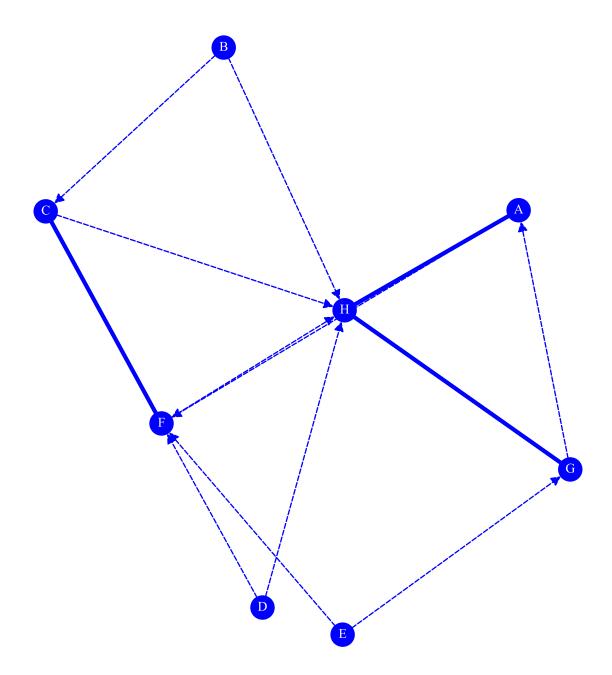


GROUP 3 - DEMO SNA NETWORK GRAPH

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

NN 8, NE 16, ND 29%, NC 52%, NT 50%, NR 38%



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

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GROUP 3 - 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	0.29	0.22	0.10	0.58	0.17	
В	C, H	0.00	0.02	0.00	0.00	0.13	←
C	F, H	0.29	0.10	0.02	0.50	0.17	
D	F, H	0.00	0.02	0.00	0.00	0.17	←
E	F, G	0.00	0.02	0.00	0.00	0.08	←
F	C, H	0.57	0.17	0.13	0.70	0.13	
G	A, H	0.29	0.16	0.04	0.58	0.12	
Н	A, G	0.86	0.31	0.21	0.88	0.03	

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



GROUP 3 - 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	3	2	3	3	1	
В	С, Н	4	6	6	5	2	←
C	F, H	3	5	5	4	1	
D	F, H	4	6	6	5	1	←
E	F, G	4	6	6	5	4	←
F	С, Н	2	3	2	2	2	
G	A, H	3	4	4	3	3	
Н	A, G	1	1	1	1	5	

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 3 - 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	Н	1	Н	1	Н	1	Н	1	A
2	F	2	A	2	F	2	F	1	C
3	A	3	F	3	A	3	A	1	D
3	C	4	G	4	G	3	G	2	В
3	G	5	C	5	С	4	C	2	F
4	В	6	В	6	В	5	В	3	G
4	D	6	D	6	D	5	D	4	E
4	Е	6	Е	6	Е	5	E	5	Н

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



GROUP 3 - 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

 $A \cdot H$ $C \cdot F$ $G \cdot H$

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

 $(B \cdot H) (D \cdot F) (D \cdot H) (G \cdot A)$

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 3 - DEMO SNA COMPONENTS

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

Connected components

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

 $\begin{bmatrix} \mathbf{3} & \mathbf{D} \cdot \mathbf{F} \cdot \mathbf{H} \end{bmatrix}$

 $A \cdot F \cdot H$

 $C \cdot F \cdot H$

 $B\cdot C\cdot H$

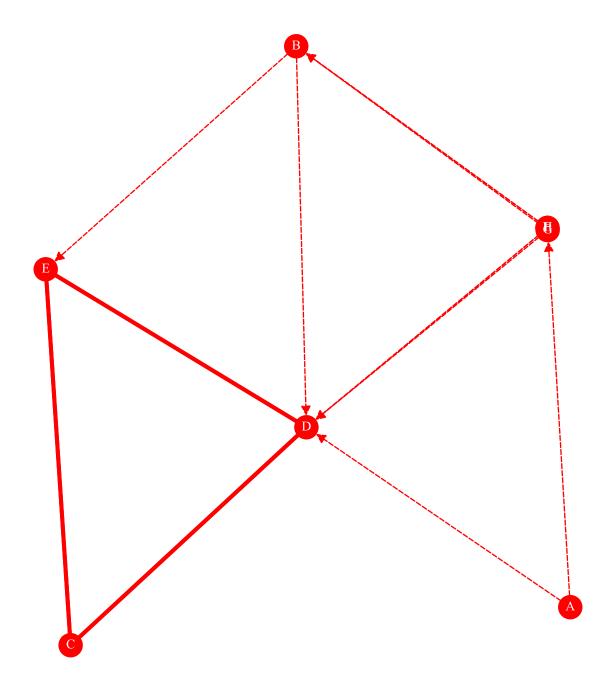
 $A \cdot G \cdot H$



GROUP 3 - DEMO SNA NETWORK GRAPH

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

NN 8, NE 16, ND 29%, NC 71%, NT 75%, NR 38%



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

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GROUP 3 - DEMO SNA RAW SCORES

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

ID	CHOICES	IC	PR	ВТ	CL	HU	ND
A	D, G	0.00	0.02	0.00	0.00	0.11	
В	D, E	0.43	0.05	0.04	0.46	0.14	
C	D, E	0.29	0.27	0.00	0.58	0.14	
D	C, E	1.00	0.31	0.17	1.00	0.05	
E	C, D	0.43	0.29	0.01	0.64	0.12	
F	B, D	0.00	0.02	0.00	0.00	0.15	←
G	B, D	0.14	0.03	0.02	0.14	0.15	
Н	B, D	0.00	0.02	0.00	0.00	0.15	←

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



GROUP 3 - DEMO SNA RANK SCORES

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

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

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 3 - 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	D	1	D	1	D	1	D	1	F
2	В	2	E	2	В	2	E	1	G
2	Е	3	C	3	G	3	C	1	Н
3	C	4	В	4	E	4	В	2	В
4	G	5	G	5	A	5	G	2	С
5	A	6	A	5	C	6	A	3	E
5	F	6	F	5	F	6	F	4	A
5	Н	6	Н	5	Н	6	Н	5	D

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



GROUP 3 - 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

 $(A \cdot G)(F \cdot D)(H \cdot B)(H \cdot D)$

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 3 - DEMO SNA COMPONENTS

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

Connected components

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

3 B · D · H

 $B\cdot D\cdot F$

 $A \cdot D \cdot G$

 $C \cdot D \cdot E$

 $B\cdot D\cdot G$

 $B \cdot D \cdot E$