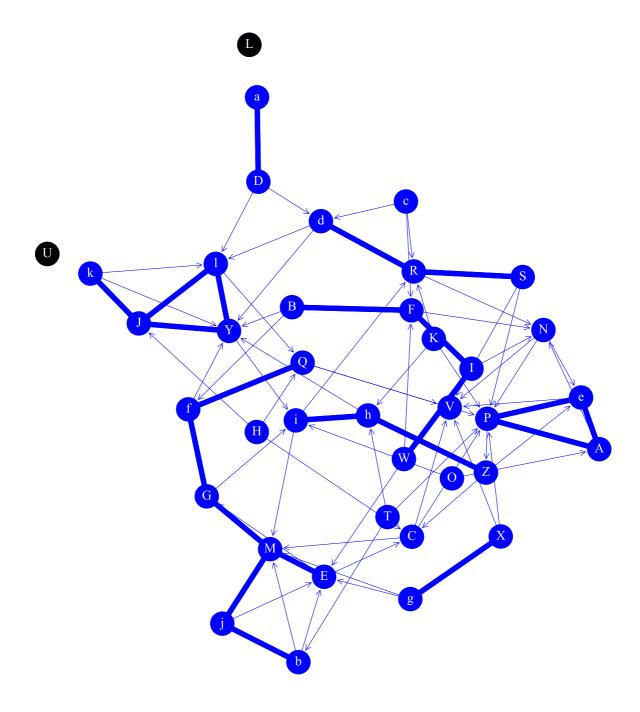


DEMO 2 | GROUP 1 SNA | NETWORK GRAPH

### A. Whom would you choose to spend a free outing with?

NN 38, NE 102, NR 22, ND 7%, NC 17%, NT 28%, NR 43%



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



DEMO 2 | GROUP 1 SNA | RAW SCORES

#### A. Whom would you choose to spend a free outing with?

ID	CHOICES	IC	PR	ВТ	CL	HU	ND
A	N, P, e	0.08	0.04	0.01	0.30	0.05	
В	F, Y, f	0.03	0.01	0.02	0.06	0.02	
C	M, P, V	0.08	0.03	0.05	0.28	0.08	
D	a, d, 1	0.03	0.01	0.02	0.03	0.01	
E	C, G, M	0.14	0.04	0.05	0.28	0.02	
F	B, I, N	0.11	0.02	0.02	0.11	0.01	
G	M, f, i	0.08	0.04	0.08	0.29	0.02	
Н	C, J, Q	0.00	0.01	0.00	0.00	0.01	←
I	F, N, W	0.05	0.01	0.01	0.07	0.01	
J	Y, k, l	0.11	0.04	0.03	0.28	0.01	
K	P, R, h	0.00	0.01	0.00	0.00	0.06	<b>←</b>
L	-	0.00	0.01	0.00	0.00	0.00	$\rightleftharpoons$
M	E, G, j	0.19	0.06	0.11	0.35	0.01	
N	P, V, e	0.11	0.03	0.03	0.32	0.08	
О	A, i	0.00	0.01	0.00	0.00	0.01	<b>←</b>
P	A, Z, e	0.24	0.07	0.12	0.42	0.02	
Q	P, V, f	0.08	0.03	0.05	0.27	0.07	
R	N, S, d	0.14	0.03	0.08	0.29	0.01	
S	P, R, V	0.03	0.01	0.01	0.22	0.08	
T	P, b, h	0.00	0.01	0.00	0.00	0.05	←
U	-	0.00	0.01	0.00	0.00	0.00	$\rightleftharpoons$
V	-	0.16	0.05	0.00	0.40	0.00	$\rightarrow$
W	E, F, I	0.03	0.01	0.01	0.05	0.01	
X	P, V, g	0.03	0.01	0.00	0.03	0.07	
Y	J, i, 1	0.19	0.06	0.13	0.37	0.01	
Z	C, e, h	0.05	0.03	0.08	0.31	0.03	
a	D	0.03	0.01	0.00	0.03	0.00	
b	E, M, j	0.05	0.01	0.00	0.21	0.02	
c	F, R, d	0.00	0.01	0.00	0.00	0.02	<b>←</b>
d	R, Y, 1	0.08	0.02	0.03	0.23	0.02	
e	A, P, V	0.11	0.06	0.01	0.34	0.07	
f	G, Q, Y	0.08	0.03	0.05	0.28	0.01	
g	E, M, X	0.03	0.01	0.01	0.03	0.02	
h	Y, Z, i	0.11	0.03	0.07	0.31	0.01	
i	M, R, h	0.11	0.05	0.14	0.35	0.04	
j	E, M, b	0.05	0.03	0.02	0.26	0.02	
k	J, Y, 1	0.03	0.02	0.00	0.22	0.01	
1	J, Q, Y	0.14	0.05	0.05	0.29	0.01	

IC In-Degree PR PageRank BT Betweenness CL Closeness HU Hub ND No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄)



DEMO 2 | GROUP 1 SNA | RANK SCORES

#### A. Whom would you choose to spend a free outing with?

ID	CHOICES	IC	PR	ВТ	CL	HU	ND
A	N, P, e	6	10	21	10	9	
В	F, Y, f	8	27	19	24	20	
C	M, P, V	6	18	12	13	1	
D	a, d, 1	8	25	20	26	33	
E	C, G, M	4	11	11	13	17	
F	B, I, N	5	22	17	22	34	
G	M, f, i	6	9	6	12	12	
Н	C, J, Q	9	31	29	27	31	←
I	F, N, W	7	26	25	23	30	
J	Y, k, 1	5	8	15	14	23	
K	P, R, h	9	31	29	27	7	←
L	-	9	31	29	27	36	$\rightleftharpoons$
M	E, G, j	2	2	4	4	25	
N	P, V, e	5	12	16	7	3	
O	A, i	9	31	29	27	24	<b>←</b>
P	A, Z, e	1	1	3	1	19	
Q	P, V, f	6	16	13	16	4	
R	N, S, d	4	14	7	11	32	
S	P, R, V	8	24	26	19	2	
T	P, b, h	9	31	29	27	8	←
U	-	9	31	29	27	36	$\rightleftharpoons$
V	-	3	5	29	2	36	$\rightarrow$
W	E, F, I	8	29	22	25	27	
X	P, V, g	8	30	27	26	6	
Y	J, i, 1	2	3	2	3	29	
Z	C, e, h	7	13	5	8	11	
a	D	8	28	29	26	35	
b	E, M, j	7	23	28	21	15	
c	F, R, d	9	31	29	27	18	<b>←</b>
d	R, Y, 1	6	20	14	18	14	
e	A, P, V	5	4	23	6	5	
f	G, Q, Y	6	17	10	15	26	
g	E, M, X	8	30	24	26	16	
h	Y, Z, i	5	15	8	9	22	
i	M, R, h	5	7	1	5	10	
j	E, M, b	7	19	18	17	13	
k	J, Y, 1	8	21	29	20	21	
1	J, Q, Y	4	6	9	12	28	

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



## **DEMO 2 | GROUP 1**

## **SNA | NODES ORDERED BY METRIC**

#### A. Whom would you choose to spend a free outing with?

RANK	IC	RANK	PR	RANK	ВТ	RANK	CL	RANK	HU
1	P	1	P	1	i	1	P	1	C
2	Y	2	M	2	Y	2	V	2	S
2	M	3	Y	3	P	3	Y	3	N
3	V	4	e	4	M	4	M	4	Q
4	1	5	V	5	Z	5	i	5	e
4	E	6	1	6	G	6	e	6	X
4	R	7	i	7	R	7	N	7	K
5	i	8	J	8	h	8	Z	8	T
5	h	9	G	9	1	9	h	9	A
5	F	10	A	10	f	10	A	10	i
5	e	11	Е	11	Е	11	R	11	Z
5	J	12	N	12	С	12	1	12	G
5	N	13	Z	13	Q	12	G	13	j
6	f	14	R	14	d	13	С	14	d
6	d	15	h	15	J	13	Е	15	b
6	Q	16	Q	16	N	14	J	16	g
6	A	17	f	17	F	15	f	17	Е
6	C	18	C	18	j	16	Q	18	c
6	G	19	j	19	В	17	j	19	P
7	b	20	d	20	D	18	d	20	В
7	j	21	k	21	A	19	S	21	k
7	I	22	F	22	W	20	k	22	h
7	Z	23	b	23	e	21	b	23	J
8	В	24	S	24	g	22	F	24	O
8	g	25	D	25	I	23	I	25	M
8	D	26	I	26	S	24	В	26	f
8	S	27	В	27	X	25	W	27	W
8	X	28	a	28	b	26	a	28	1
8	W	29	W	29	Н	26	D	29	Y
8	k	30	g	29	K	26	g	30	I
8	a	30	X	29	L	26	X	31	Н
9	O	31	U	29	V	27	L	32	R
9	c	31	T	29	c	27	U	33	D
9	Н	31	O	29	a	27	c	34	F
9	K	31	Н	29	k	27	T	35	a
9	U	31	L	29	T	27	Н	36	V
9	T	31	c	29	U	27	O	36	U
9	L	31	K	29	О	27	K	36	L

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



## **DEMO 2 | GROUP 1**

# **SNA | LINKS GROUPED BY TYPE**

### A. Whom would you choose to spend a free outing with?

# 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

 $M \cdot j$  $E\cdot M$  $F\cdot I$  $G\cdot M$  $G\cdot f$  $I\cdot W$  $R\cdot S\,$  $\mathbf{A}\cdot\mathbf{P}$  $\mathbf{B}\cdot\mathbf{F}$  $D\cdot a$  $X\cdot g$  $R \cdot d$  $Y \cdot 1$  $Z \cdot h$ b·i h · i

### Half symmetrical edges

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

 $\left(Q \cdot V\right) \left(Q \cdot f\right)$ 

## Reversed half symmetrical edges

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

 $f \cdot Q$ 

# 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



DEMO 2 | GROUP 1 SNA | SUBGRAPHS

### A. Whom would you choose to spend a free outing with?

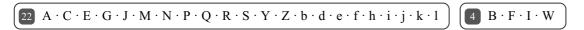
#### Cliques

Each node can reach every other node: a) without intermediaries; b) ignoring the direction of connections



#### **Strongly Connected Groups**

Each node can reach every other node: a) with or without intermediaries; b) following the direction of connections



### **Weakly Connected Groups**

Each node can reach every other node: a) with or without intermediaries; b) ignoring the direction of connections

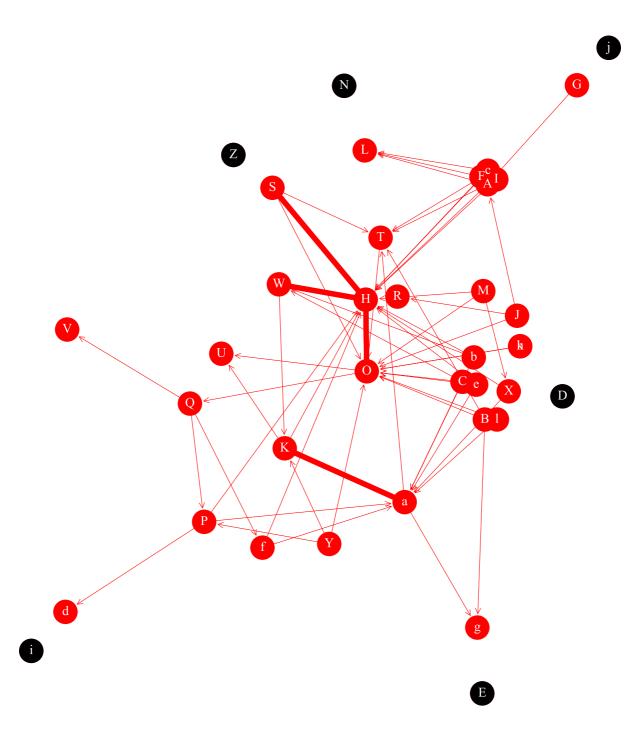
36 A·B·C·D·E·F·G·H·I·J·K·M·N·O·P·Q·R·S·T·V·W·X·Y·Z·a·b·c·d·e·f·g·h·i·j·k·l



DEMO 2 | GROUP 1 SNA | NETWORK GRAPH

#### B. Whom would you not choose to spend a free outing with?

NN 38, NE 63, NR 4, ND 4%, NC 31%, NT 12%, NR 13%



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



DEMO 2 | GROUP 1 SNA | RAW SCORES

### B. Whom would you not choose to spend a free outing with?

ID	CHOICES	IC	PR	ВТ	CL	HU	ND
A	H, L, T	0.05	0.02	0.01	0.05	0.05	
В	O, T, g	0.00	0.01	0.00	0.00	0.03	←
C	O, W, a	0.00	0.01	0.00	0.00	0.05	<b>←</b>
D	-	0.00	0.01	0.00	0.00	0.00	$\rightleftharpoons$
E	-	0.00	0.01	0.00	0.00	0.00	$\rightleftharpoons$
F	H, L, T	0.00	0.01	0.00	0.00	0.05	<b>←</b>
G	A	0.00	0.01	0.00	0.00	0.00	<b>←</b>
Н	O, S, W	0.38	0.15	0.10	0.47	0.03	
I	Н	0.00	0.01	0.00	0.00	0.03	<b>←</b>
J	A, O, R	0.00	0.01	0.00	0.00	0.02	←
K	H, U, a	0.08	0.05	0.02	0.25	0.06	
L	-	0.08	0.02	0.00	0.10	0.00	$\rightarrow$
M	Н, О, Х	0.00	0.01	0.00	0.00	0.06	<b>←</b>
N	-	0.00	0.01	0.00	0.00	0.00	$\rightleftharpoons$
O	H, Q, U	0.32	0.14	0.13	0.42	0.04	
P	H, a, d	0.05	0.02	0.03	0.21	0.06	
Q	P, V, f	0.03	0.05	0.08	0.27	0.00	
R	-	0.03	0.01	0.00	0.03	0.00	$\rightarrow$
S	Н, О, Т	0.03	0.05	0.01	0.28	0.06	
T	0	0.14	0.05	0.01	0.30	0.02	
U	-	0.05	0.06	0.00	0.29	0.00	$\rightarrow$
V	-	0.03	0.02	0.00	0.21	0.00	$\rightarrow$
W	Н, К	0.08	0.06	0.02	0.30	0.04	
X	H, a	0.03	0.01	0.00	0.03	0.05	
Y	K, O, P	0.00	0.01	0.00	0.00	0.03	<b>←</b>
Z	-	0.00	0.01	0.00	0.00	0.00	$\rightleftharpoons$
a	K, T, g	0.22	0.05	0.03	0.25	0.02	
b	H, W, a	0.00	0.01	0.00	0.00	0.06	$\leftarrow$
c	H, L	0.00	0.01	0.00	0.00	0.04	<b>←</b>
d	<del>-</del>	0.03	0.02	0.00	0.17	0.00	$\rightarrow$
e	Н, О, а	0.00	0.01	0.00	0.00	0.07	←
f	H, a	0.03	0.02	0.01	0.20	0.05	
g	-	0.05	0.03	0.00	0.21	0.00	$\rightarrow$
h	0	0.00	0.01	0.00	0.00	0.02	←
i	-	0.00	0.01	0.00	0.00	0.00	$\rightleftharpoons$
j	<del>-</del>	0.00	0.01	0.00	0.00	0.00	$\rightleftharpoons$
k	O	0.00	0.01	0.00	0.00	0.02	<b>←</b>
1	O, a	0.00	0.01	0.00	0.00	0.04	←

IC In-Degree PR PageRank BT Betweenness CL Closeness HU Hub ND No In-Degree  $(\leftarrow)$  No Out-Degree  $(\rightarrow)$  No In or Out-Degree  $(\rightleftarrows)$ 



DEMO 2 | GROUP 1 SNA | RANK SCORES

#### B. Whom would you not choose to spend a free outing with?

ID	CHOICES	IC	PR	ВТ	CL	HU	ND
A	H, L, T	6	14	8	15	8	
В	O, T, g	8	17	13	17	15	←
C	O, W, a	8	17	13	17	9	<b>←</b>
D	-	8	17	13	17	23	$\rightleftharpoons$
E	-	8	17	13	17	23	$\rightleftharpoons$
F	H, L, T	8	17	13	17	8	←
G	A	8	17	13	17	22	<b>←</b>
Н	O, S, W	1	1	2	1	16	
I	Н	8	17	13	17	14	<b>←</b>
J	A, O, R	8	17	13	17	18	←
K	H, U, a	5	7	7	8	4	
L	-	5	13	13	14	23	$\rightarrow$
M	H, O, X	8	17	13	17	5	←
N	-	8	17	13	17	23	$\rightleftharpoons$
O	H, Q, U	2	2	1	2	12	
P	H, a, d	6	11	5	10	6	
Q	P, V, f	7	9	3	7	21	
R	-	7	16	13	16	23	$\rightarrow$
S	H, O, T	7	6	11	6	2	
T	0	4	8	9	3	19	
U	-	6	3	13	5	23	$\rightarrow$
V	-	7	12	13	9	23	$\rightarrow$
W	Н, К	5	4	6	4	13	
X	H, a	7	16	12	16	7	
Y	K, O, P	8	17	13	17	17	$\leftarrow$
Z	-	8	17	13	17	23	$\rightleftharpoons$
a	K, T, g	3	5	4	8	20	
b	H, W, a	8	17	13	17	3	$\leftarrow$
c	H, L	8	17	13	17	11	$\leftarrow$
d	-	7	15	13	13	23	$\rightarrow$
e	Н, О, а	8	17	13	17	1	<b>←</b>
f	H, a	7	12	10	12	7	
g	-	6	10	13	11	23	$\rightarrow$
h	O	8	17	13	17	19	←
i	-	8	17	13	17	23	$\rightleftarrows$
j	-	8	17	13	17	23	$\rightleftharpoons$
k	O	8	17	13	17	19	←
1	O, a	8	17	13	17	10	←

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



# **DEMO 2 | GROUP 1**

## **SNA | NODES ORDERED BY METRIC**

#### B. Whom would you not choose to spend a free outing with?

RANK	IC	RANK	PR	RANK	ВТ	RANK	CL	RANK	HU
1	Н	1	Н	1	О	1	Н	1	e
2	O	2	O	2	Н	2	O	2	S
3	a	3	U	3	Q	3	T	3	b
4	T	4	W	4	a	4	W	4	K
5	W	5	a	5	P	5	U	5	M
5	K	6	S	6	W	6	S	6	P
5	L	7	K	7	K	7	Q	7	f
6	A	8	T	8	A	8	a	7	X
6	g	9	Q	9	T	8	K	8	A
6	U	10	g	10	f	9	V	8	F
6	P	11	P	11	S	10	P	9	C
7	f	12	f	12	X	11	g	10	1
7	d	12	V	13	L	12	f	11	c
7	X	13	L	13	j	13	d	12	O
7	V	14	A	13	i	14	L	13	W
7	R	15	d	13	h	15	A	14	I
7	S	16	R	13	g	16	R	15	В
7	Q	16	X	13	В	16	X	16	Н
8	N	17	M	13	e	17	M	17	Y
8	j	17	j	13	d	17	j	18	J
8	i	17	i	13	c	17	i	19	k
8	h	17	h	13	b	17	h	19	h
8	В	17	В	13	C	17	В	19	T
8	C	17	C	13	Z	17	C	20	a
8	e	17	e	13	Y	17	e	21	Q
8	D	17	c	13	D	17	D	22	G
8	c	17	b	13	V	17	c	23	U
8	b	17	D	13	U	17	E	23	j
8	Z	17	Z	13	E	17	N	23	i
8	Y	17	Y	13	k	17	Z	23	g
8	F	17	E	13	R	17	Y	23	L
8	G	17	F	13	F	17	F	23	N
8	I	17	G	13	G	17	G	23	D
8	J	17	I	13	I	17	I	23	Z
8	M	17	k	13	N	17	J	23	R
8	k	17	J	13	M	17	k	23	V
8	Е	17	N	13	J	17	b	23	d
8	1	17	1	13	1	17	1	23	E

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



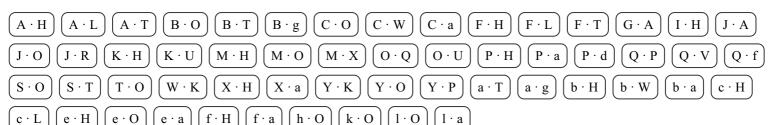
**DEMO 2 | GROUP 1** 

**SNA | LINKS GROUPED BY TYPE** 

# B. Whom would you not choose to spend a free outing with?

Non reciprocal edges

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



# Reversed half symmetrical edges

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



## 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



DEMO 2 | GROUP 1 SNA | SUBGRAPHS

#### B. Whom would you not choose to spend a free outing with?

#### Chques

Each node can reach every other node: a) without intermediaries; b) ignoring the direction of connections



 $H \cdot K \cdot W$ 

 $\begin{bmatrix} \mathbf{B} \cdot \mathbf{O} \cdot \mathbf{T} \end{bmatrix}$ 

 $\left( \mathbf{O} \cdot \mathbf{S} \cdot \mathbf{T} \right)$ 

 $\left( \mathbf{H} \cdot \mathbf{O} \cdot \mathbf{S} \right)$ 

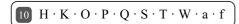
 $H \cdot O \cdot e$ 

 $H\cdot M\cdot O$ 

 $H \cdot W \cdot b$ 

### **Strongly Connected Groups**

Each node can reach every other node: a) with or without intermediaries; b) following the direction of connections



#### **Weakly Connected Groups**

Each node can reach every other node: a) with or without intermediaries; b) ignoring the direction of connections

32  $A \cdot B \cdot C \cdot F \cdot G \cdot H \cdot I \cdot J \cdot K \cdot L \cdot M \cdot O \cdot P \cdot Q \cdot R \cdot S \cdot T \cdot U \cdot V \cdot W \cdot X \cdot Y \cdot a \cdot b \cdot c \cdot d \cdot e \cdot f \cdot g \cdot h \cdot k \cdot 1$ 



DEMO 2 | GROUP 1 SNA | DESCRIPTIVE

## A. Whom would you choose to spend a free outing with?

ID	Count	Min	Max	Median	Mean	SD	CV	SK	KT	P25	P75
In degree Centrality	38.00	0.00	0.24	0.07	0.07	0.06	1.49	0.80	0.28	0.03	0.11
PageRank Centrality	38.00	0.01	0.07	0.02	0.03	0.02	1.61	0.62	-0.78	0.01	0.04
Betweenness Centrality	38.00	0.00	0.14	0.02	0.03	0.04	1.51	1.24	0.59	0.00	0.05
Closeness Centrality	38.00	0.00	0.42	0.25	0.19	0.14	1.57	-0.23	-1.59	0.03	0.30
Hub Centrality	38.00	0.00	0.08	0.02	0.03	0.03	1.35	1.09	-0.30	0.01	0.04

Min Minumum value Max Maximum value SD Standard deviation CV Coefficient of variation SK Skewness KT Kurtosis P25 25° percentile P75 75° percentile

### B. Whom would you not choose to spend a free outing with?

ID	Count	Min	Max	Median	Mean	SD	CV	SK	KT	P25	P75
In degree Centrality	38.00	0.00	0.38	0.00	0.04	0.09	1.21	2.83	8.08	0.00	0.05
PageRank Centrality	38.00	0.01	0.15	0.01	0.03	0.03	0.99	2.65	7.45	0.01	0.03
Betweenness Centrality	38.00	0.00	0.13	0.00	0.01	0.03	0.61	3.02	8.82	0.00	0.01
Closeness Centrality	38.00	0.00	0.47	0.00	0.11	0.14	1.95	0.99	-0.21	0.00	0.21
Hub Centrality	38.00	0.00	0.07	0.02	0.03	0.02	1.85	0.24	-1.34	0.00	0.05

Min Minumum value Max Maximum value SD Standard deviation CV Coefficient of variation SK Skewness KT Kurtosis P25 25° percentile P75 75° percentile



DEMO 2 | GROUP 1 SOCIOGRAM

ID	RP	RR	GP	GR	MP	MR	BL	OR	IM	AI	II	ST
A	3	2	3	3	2	0	1	0	5	1	5	ambitendent
В	1	0	3	3	1	0	1	0	1	1	2	marginal
C	3	0	3	3	0	0	3	0	3	3	3	appreciated
D	1	0	3	0	1	0	1	3	1	4	2	marginal
E	5	0	3	0	1	0	5	3	5	8	6	popular
F	4	0	3	3	2	0	4	0	4	4	6	appreciated
G	3	0	3	1	2	0	3	2	3	5	5	appreciated
Н	0	14	3	3	0	3	-14	0	14	-14	0	rejected
I	2	0	3	1	2	0	2	2	2	4	4	appreciated
J	4	0	3	3	3	0	4	0	4	4	7	appreciated
K	0	3	3	3	0	1	-3	0	3	-3	0	disliked
L	0	3	0	0	0	0	-3	0	3	-3	0	disliked
M	7	0	3	3	3	0	7	0	7	7	10	popular
N	4	0	3	0	0	0	4	3	4	7	4	appreciated
O	0	12	2	3	0	1	-12	-1	12	-13	0	rejected
P	9	2	3	3	2	0	7	0	11	7	11	popular
Q	3	1	3	3	1	0	2	0	4	2	4	appreciated
R	5	1	3	0	2	0	4	3	6	7	7	appreciated
S	1	1	3	3	1	1	0	0	2	0	2	ambitendent
T	0	5	3	1	0	0	-5	2	5	-3	0	rejected
U	0	2	0	0	0	0	-2	0	2	-2	0	disliked
V	6	1	0	0	0	0	5	0	7	5	6	popular
W	1	3	3	2	1	1	-2	1	4	-1	2	disliked
X	1	1	3	2	1	0	0	1	2	1	2	ambitendent
Y	7	0	3	3	2	0	7	0	7	7	9	popular
Z	2	0	3	0	1	0	2	3	2	5	3	appreciated
a	1	8	1	3	1	1	-7	-2	9	-9	2	rejected
b	2	0	3	3	1	0	2	0	2	2	3	appreciated
С	0	0	3	2	0	0	0	1	0	1	0	marginal
d	3	1	3	0	1	0	2	3	4	5	4	appreciated
e	4	0	3	3	2	0	4	0	4	4	6	appreciated
f	3	1	3	2	2	0	2	1	4	3	5	appreciated
g	1	2	3	0	1	0	-1	3	3	2	2	ambitendent
h	4	0	3	1	2	0	4	2	4	6	6	appreciated
i	4	0	3	0	1	0	4	3	4	7	5	appreciated
j	2	0	3	0	2	0	2	3	2	5	4	appreciated
k	1	0	3	1	1	0	1	2	1	3	2	marginal
1	5	0	3	2	2	0	5	1	5	6	7	popular

RP Received preferences RR Received rejections GP Given preferences GR Given rejections MP Mutual preferences MR Mutual rejections BL Balance OR Orientation IM Impact AI Affiliation index II Influence index ST Sociometric status



# **DEMO 2 | GROUP 1**

# SOCIOGRAM | NODES ORDERED BY METRIC

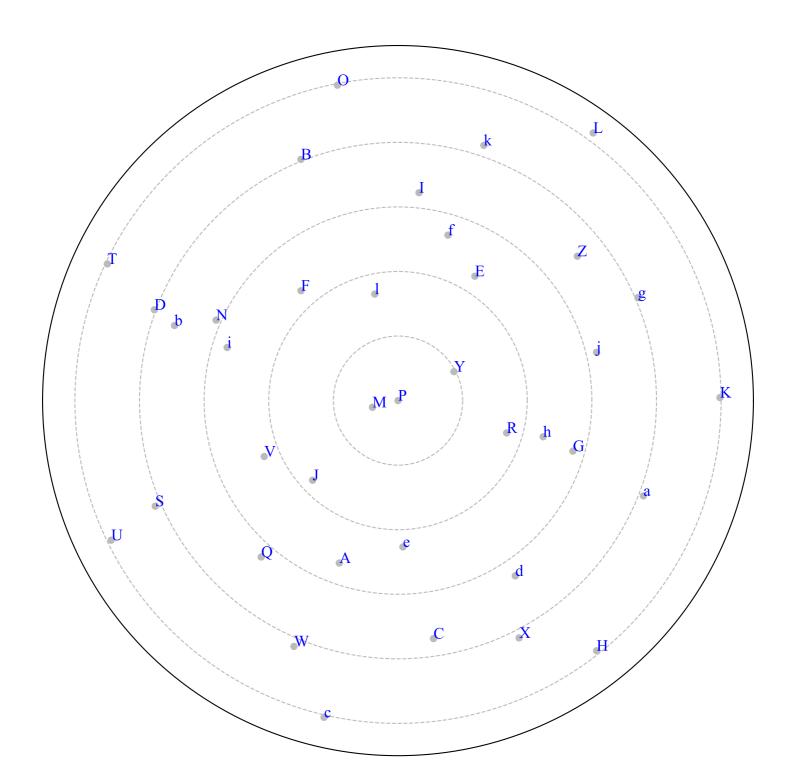
RANK	BL	RANK	IM	RANK	AI	RANK	II	RANK	ST
1	P	1	Н	1	Е	1	P	popular	Е
1	M	2	O	2	M	2	M	popular	M
1	Y	3	P	2	R	3	Y	popular	P
2	1	4	a	2	P	4	1	popular	V
2	V	5	Y	2	N	4	J	popular	Y
2	E	5	V	2	Y	4	R	popular	1
3	F	5	M	2	i	5	h	appreciated	C
3	R	6	R	3	h	5	E	appreciated	F
3	e	7	A	3	1	5	F	appreciated	G
3	i	7	T	4	j	5	e	appreciated	I
3	N	7	1	4	V	5	V	appreciated	J
3	h	7	E	4	d	6	i	appreciated	N
3	J	8	J	4	Z	6	f	appreciated	Q
4	C	8	N	4	G	6	A	appreciated	R
4	G	8	i	5	D	6	G	appreciated	Z
5	I	8	h	5	I	7	j	appreciated	b
5	d	8	Q	5	e	7	Q	appreciated	d
5	j	8	F	5	F	7	I	appreciated	e
5	Q	8	f	5	J	7	d	appreciated	f
5	b	8	e	6	f	7	N	appreciated	h
5	Z	8	W	6	С	8	Z	appreciated	i
5	f	8	d	6	k	8	C	appreciated	j
6	A	9	L	7	Q	8	b	ambitendent	A
6	k	9	g	7	g	9	В	ambitendent	S
6	D	9	С	7	b	9	g	ambitendent	X
6	В	9	G	8	c	9	D	ambitendent	g
7	X	9	K	8	A	9	S	marginal	В
7	c	10	Z	8	X	9	X	marginal	D
7	S	10	b	8	В	9	W	marginal	c
8	g	10	X	9	S	9	k	marginal	k
9	U	10	U	10	W	9	a	disliked	K
9	W	10	I	11	U	10	Н	disliked	L
10	L	10	j	12	T	10	c	disliked	U
10	K	10	S	12	L	10	U	disliked	W
11	T	11	В	12	K	10	T	rejected	Н
12	a	11	D	13	a	10	K	rejected	О
13	O	11	k	14	O	10	L	rejected	T
14	Н	12	c	15	Н	10	O	rejected	a

RP Received preferences RR Received rejections GP Given preferences GR Given rejections BL Balance IM Impact AI Affiliation index II Influence index



DEMO 2 | GROUP 1 SOCIOGRAM | GRAPH

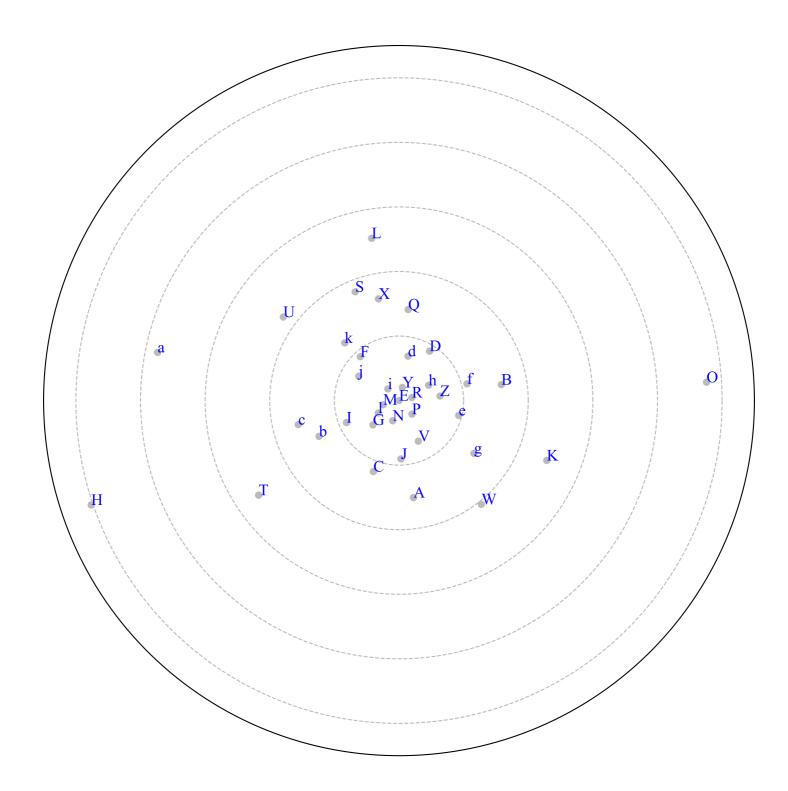
Influence index





DEMO 2 | GROUP 1 SOCIOGRAM | GRAPH

Affiliation index





DEMO 2 | GROUP 1

### **SOCIOGRAM | DESCRIPTIVE**

Type I cohesion index: 43.14% Type II cohesion index: 0.58 Type I conflitct index: 12.70% Type II conflitct index: 0.11

ID	Count	Min	Max	Median	Mean	SD	CV	SK	KT	P25	P75
Received preferences	38.00	0.00	9.00	2.50	2.68	2.27	1.49	0.80	0.28	1.00	4.00
Received rejections	38.00	0.00	14.00	0.00	1.66	3.18	1.21	2.83	8.08	0.00	2.00
Given Preferences	38.00	0.00	3.00	3.00	2.68	0.87	1.12	-2.66	5.73	3.00	3.00
Given rejections	38.00	0.00	3.00	2.00	1.66	1.32	1.81	-0.21	-1.76	0.00	3.00
Mutual preferences	38.00	0.00	3.00	1.00	1.16	0.89	1.73	0.17	-0.83	0.25	2.00
Mutual rejections	38.00	0.00	3.00	0.00	0.21	0.58	0.00	3.55	14.69	0.00	0.00
Balance	38.00	-14.00	7.00	2.00	1.03	4.61	3.90	-1.61	3.18	0.00	4.00
Orientation	38.00	-2.00	3.00	0.50	1.03	1.38	1.95	0.21	-1.01	0.00	2.00
Impact	38.00	0.00	14.00	4.00	4.34	3.05	1.15	1.52	2.49	2.00	5.00
Affiliation index	38.00	-14.00	8.00	3.50	2.05	5.19	2.44	-1.67	2.92	1.00	5.00
Influence index	38.00	0.00	11.00	4.00	3.84	2.88	1.56	0.52	-0.12	2.00	6.00

Min Minumum value Max Maximum value SD Standard deviation CV Coefficient of variation SK Skewness KT Kurtosis P25 25° percentile P75 75° percentile