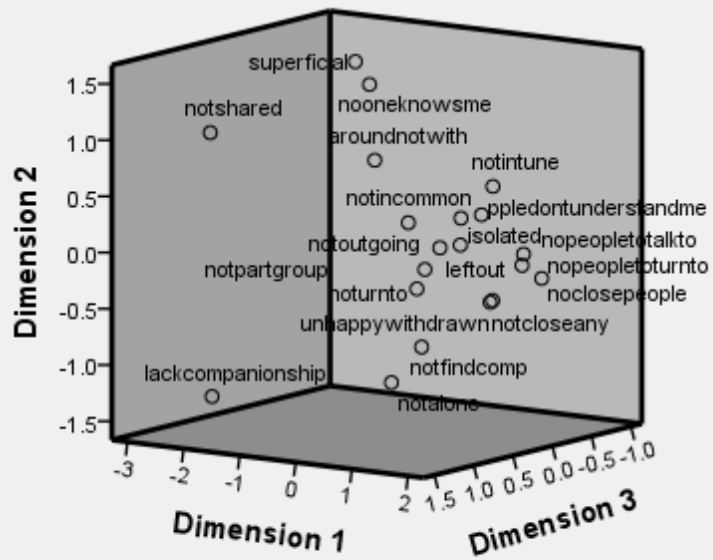**Notes**

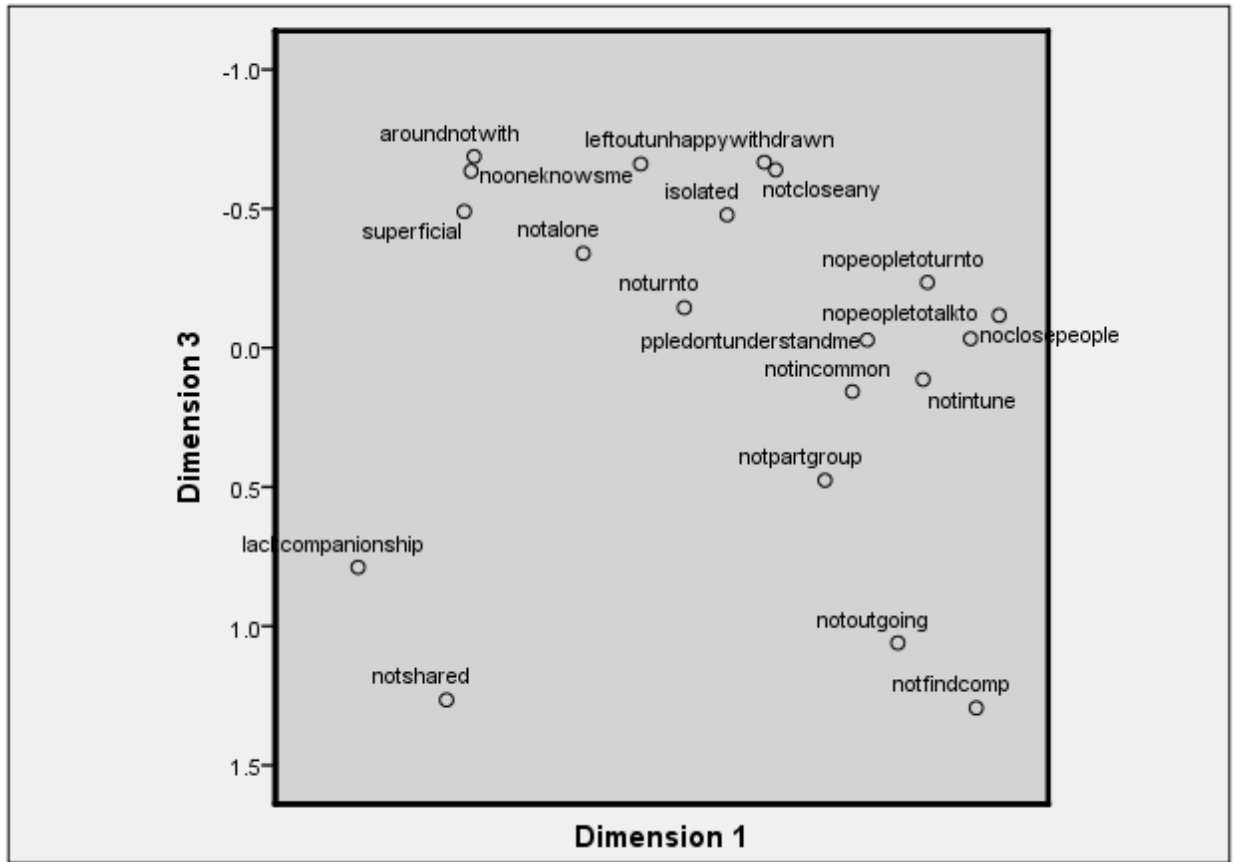|		
Output Created		13-Feb-2012 16:24:43
Comments		
Input	Data	C:\Users\Louise Hawkley\Documents\lhawkley\MyPubs\ Beijing Collaboration_UCLA Factor Analyses\UCLA_US Older Adults_reverse-coded.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	229
Syntax		ALSCAL
		/MATRIX=IN('C:\Users\LOUISE~1\App Data\Local\Temp\spss376\spssalsc.tm p')
		/LEVEL=ORDINAL
		/CONDITION=MATRIX
		/MODEL=EUCLID
		/CRITERIA=CONVERGE(0.001) STRESSMIN(0.005) ITER(30) CUTOFF(0) DIMENS(2,3)
		/PLOT=DEFAULT ALL
		/PRINT=DATA HEADER.
Resources	Processor Time	00 00:00:02.106
	Elapsed Time	00 00:00:02.090

Derived Stimulus Configuration

Euclidean distance model

Derived Stimulus Configuration

Euclidean distance model

Derived Stimulus Configuration

Euclidean distance model

Plot axes: Dimension 3 (horizontal), Dimension 2 (vertical)

Points plotted:
- superficial
- nooneknowsme
- notshared
- notintune
- aroundnotwith
- notoutgoing
- notincommon
- ppledontunderstandme
- nopeopletotalkto
- notpartgroup
- isolated
- leftout
- nopeopletoturnto
- noclosepeople
- noturnto
- notfindcomp
- notcloseany
- unhappywithdrawn
- lackcompanionship
- notalone

Derived Stimulus Configuration

Euclidean distance model

Scatter plot with Dimension 1 on the x-axis and Dimension 2 on the y-axis. Labeled points:

- lackcompanionship (top left, ~ -1.4 on Dimension 2)
- notalone (top center, ~ -1.4 on Dimension 2)
- unhappywithdrawn (~ -0.6)
- notcloseany (~ -0.6)
- notfindcomp (~ -0.6)
- noturnto (~ -0.45)
- nopeopletoturnto
- noclosepeople (~ -0.2)
- leftout (~ -0.3)
- isolated
- notpartgroup (~ -0.1)
- nopeopletotalkto (~ 0.0)
- ppledontunderstandme (~ 0.3)
- notincommon (~ 0.45)
- notoutgoing (~ 0.3)
- aroundnotwith (~ 0.5)
- notintune (~ 0.6)
- notshared (~ 1.05)
- nooneknowsme (~ 1.2)
- superficial (~ 1.4)

Scatterplot of Linear Fit

Euclidean distance model

Scatterplot of Nonlinear Fit

Euclidean distance model

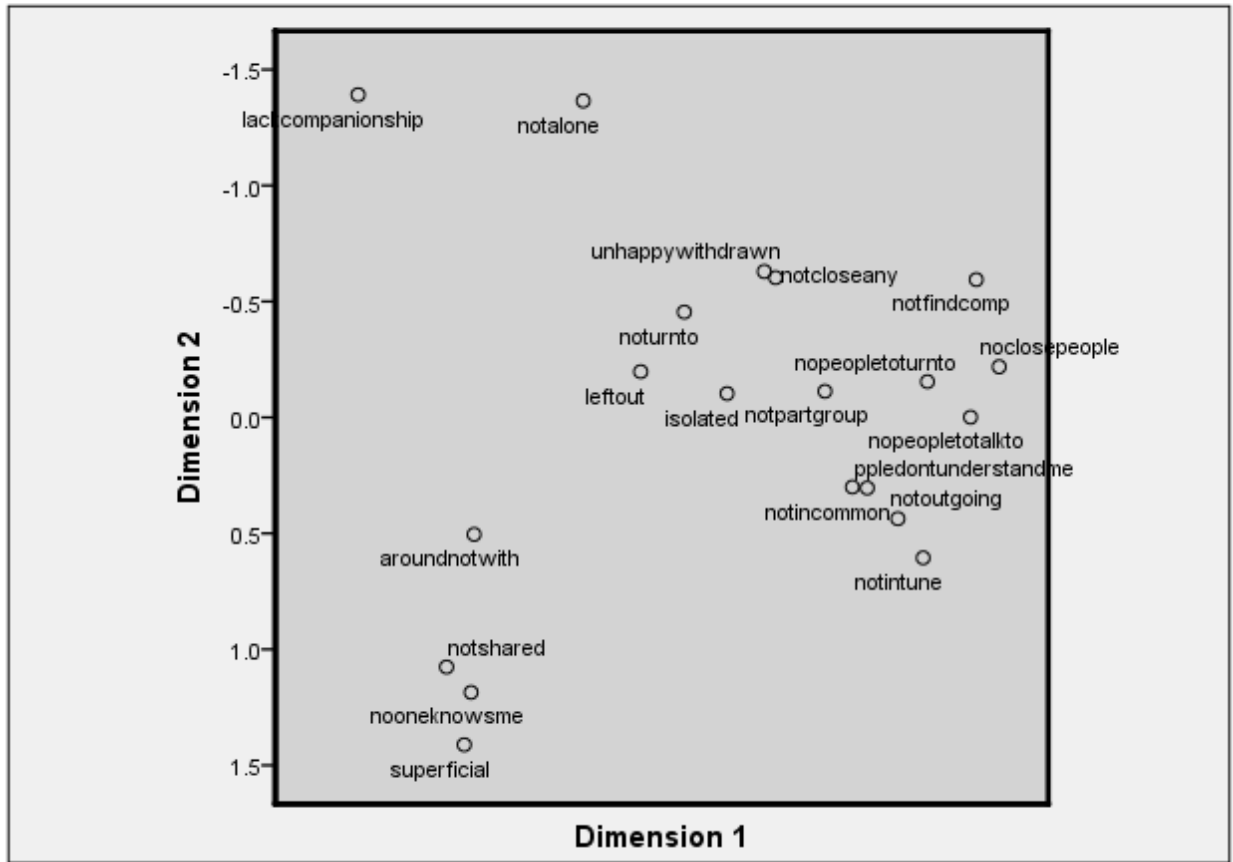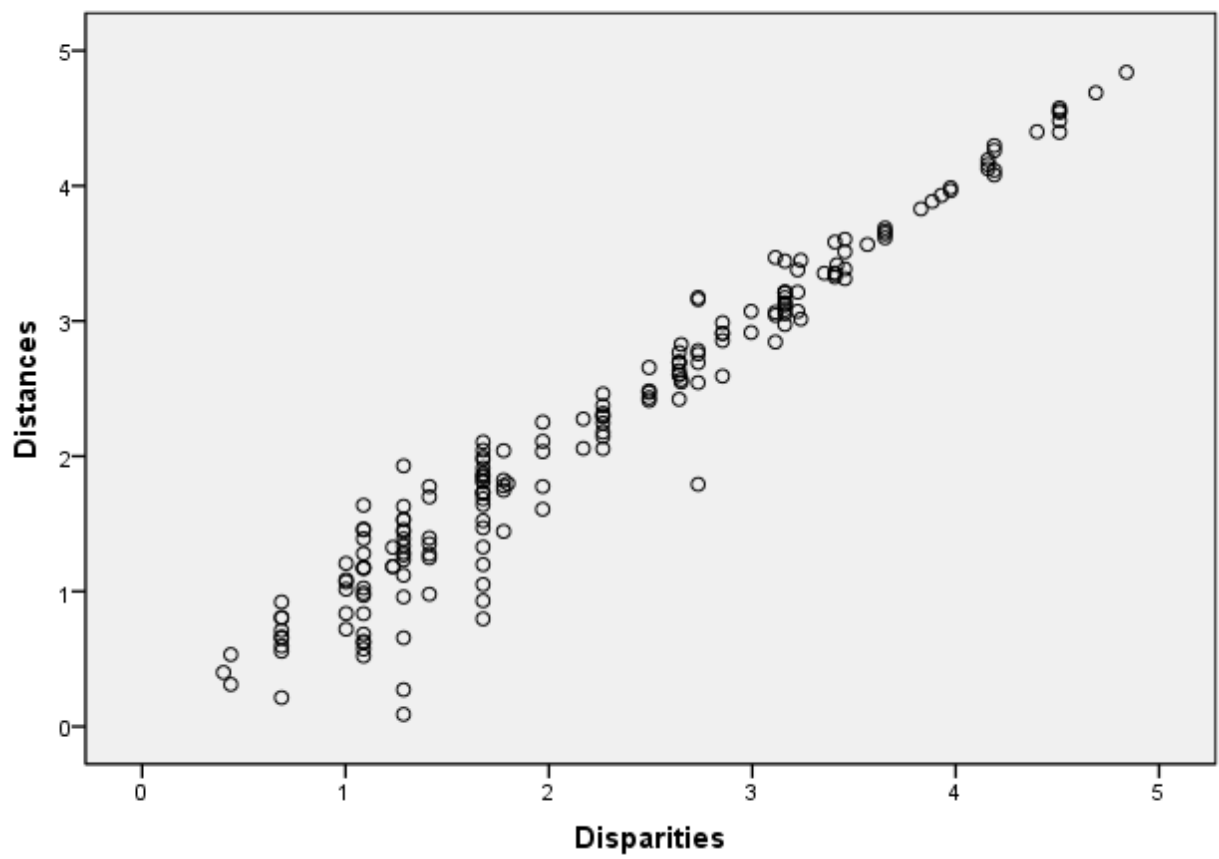**Transformation Scatterplot**

Euclidean distance model

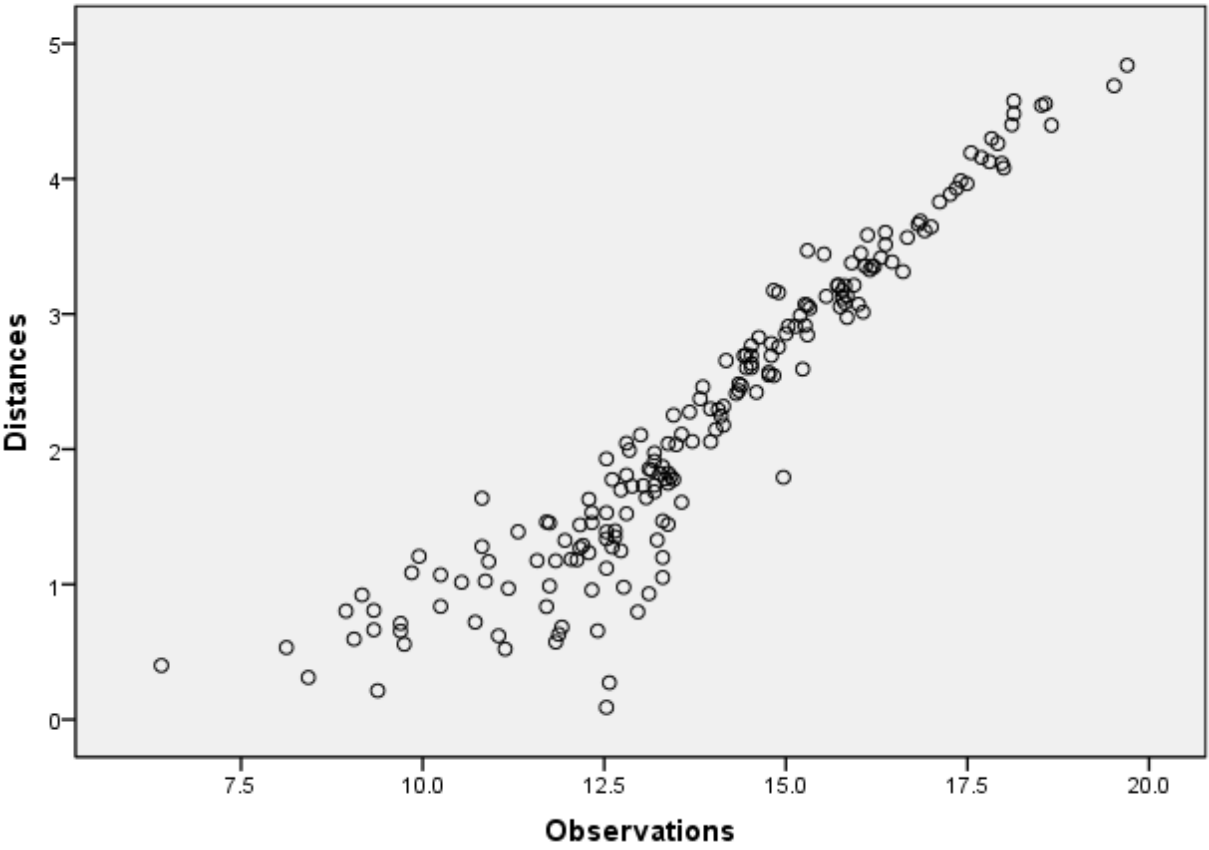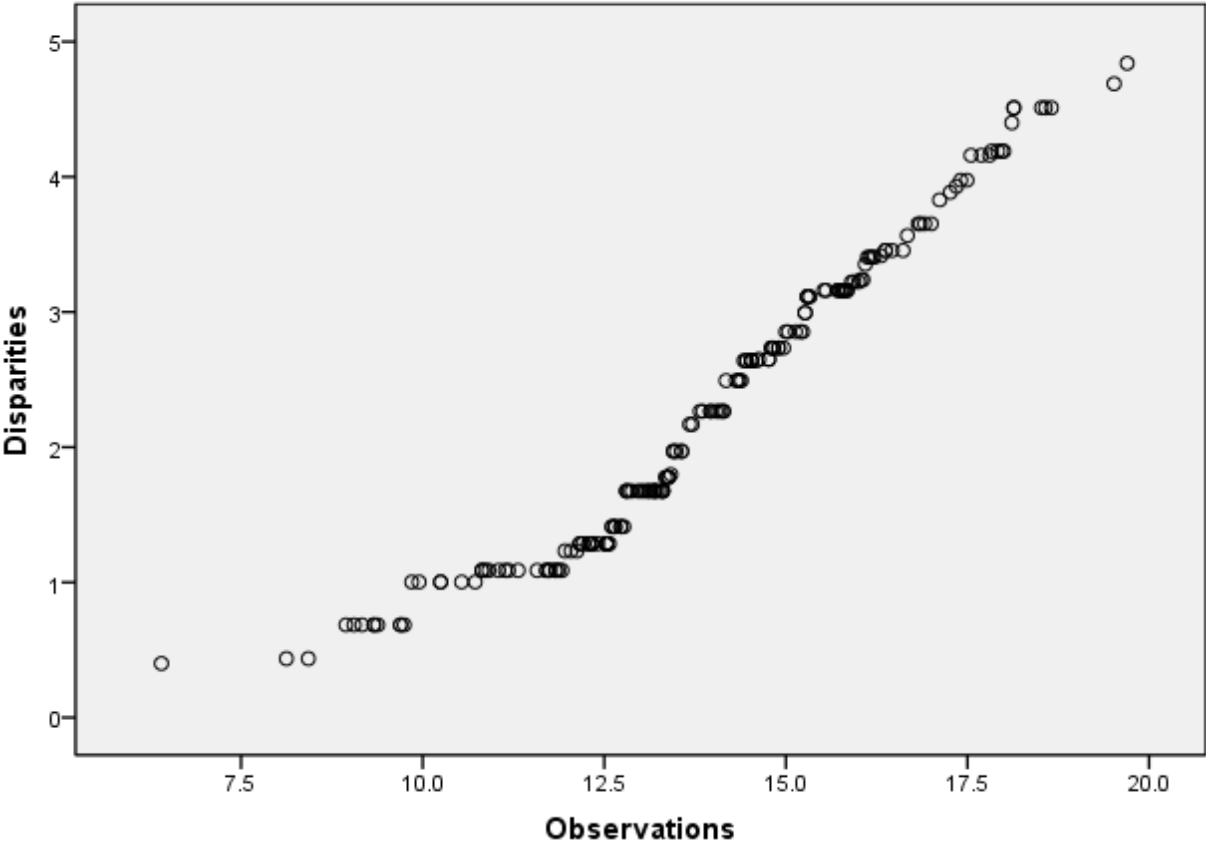# Derived Stimulus Configuration

Euclidean distance model

Scatterplot of Linear Fit

Euclidean distance model
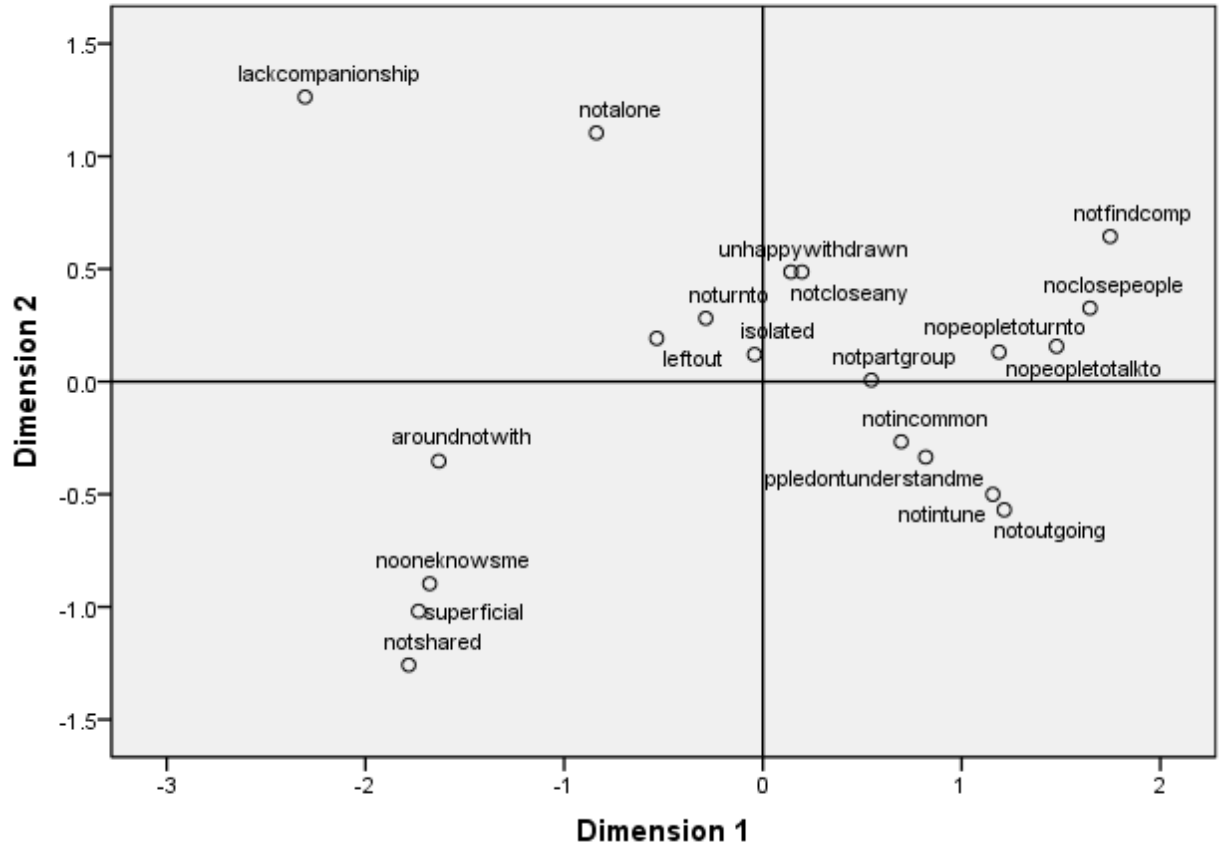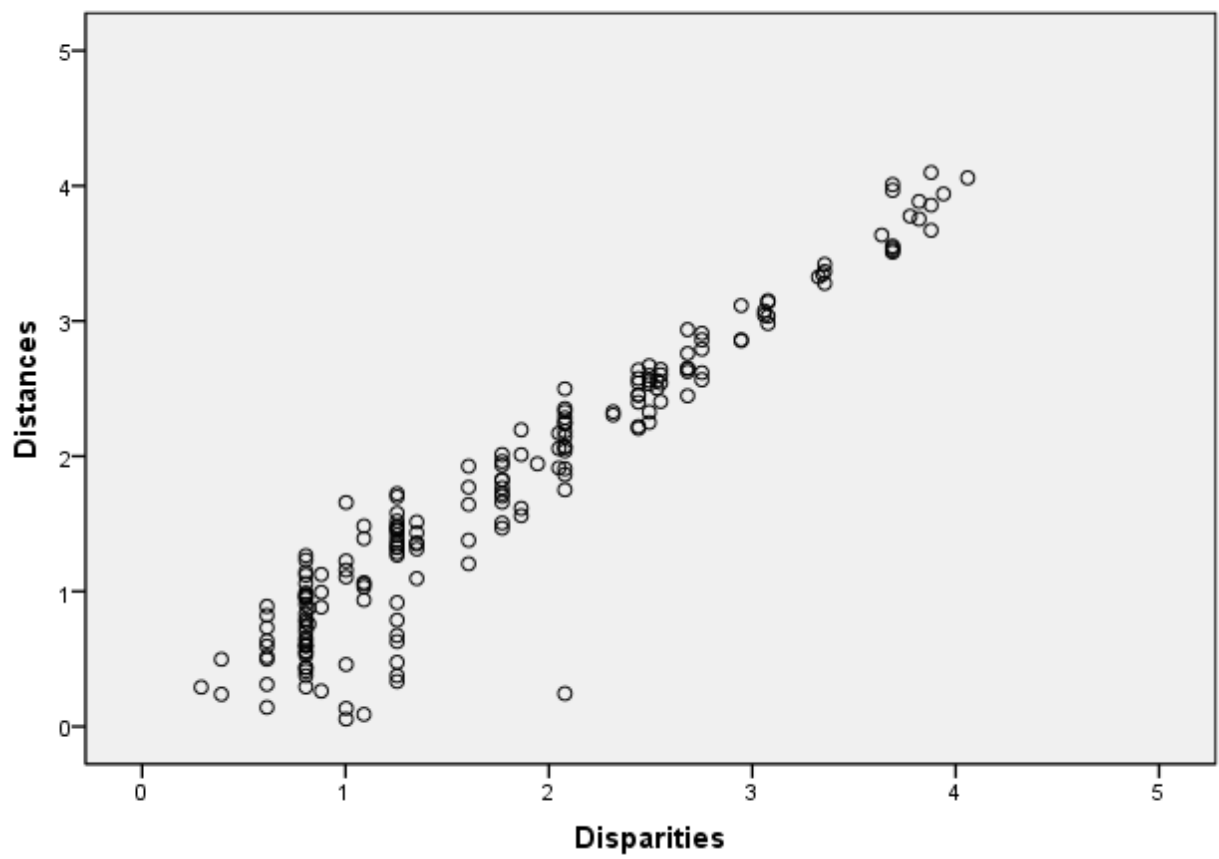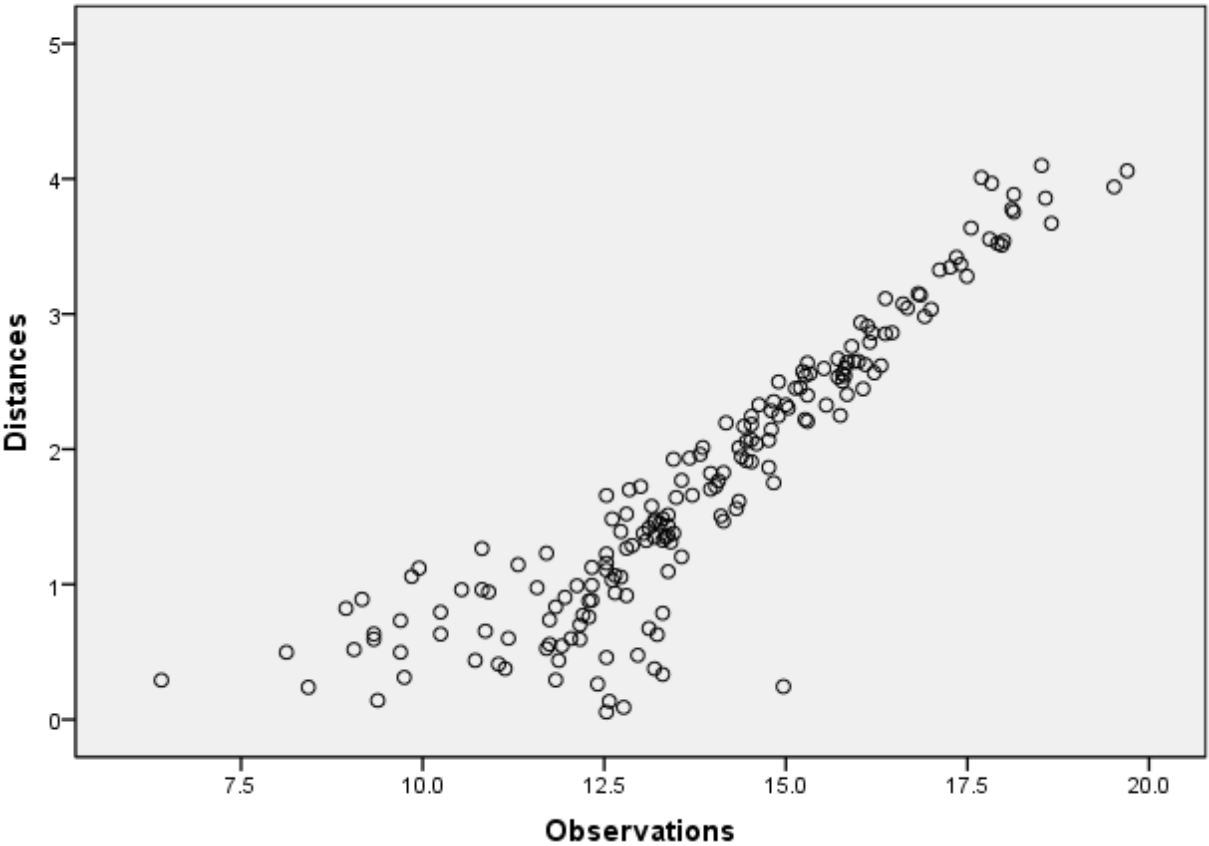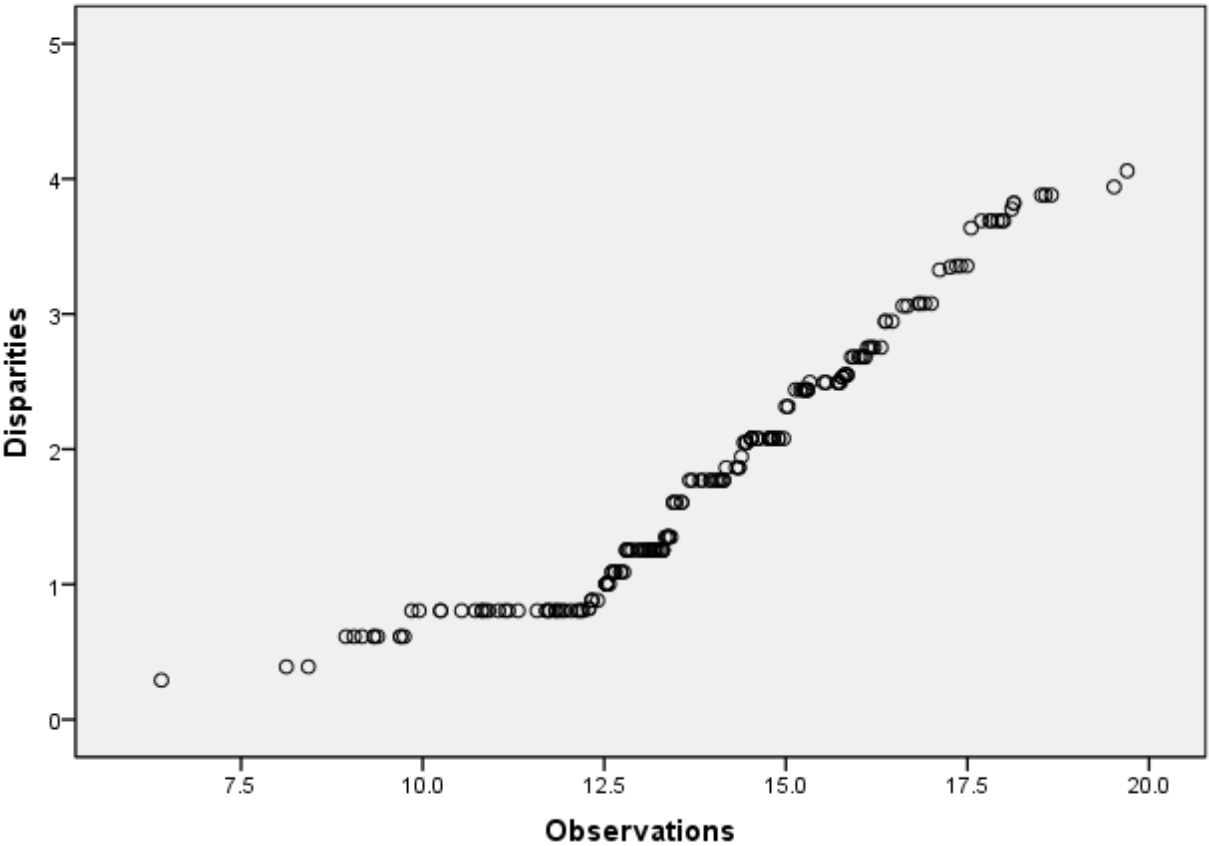
Scatterplot of Nonlinear Fit

Euclidean distance model

Transformation Scatterplot

Euclidean distance model

Alscal Procedure Options

Data Options-

Number of Rows (Observations/Matrix).   20
Number of Columns (Variables) .   .   .   20
Number of Matrices   1
Measurement Level .   .   .   .   Ordinal
Data Matrix Shape .   .   .   .   Symmetric
Type   .   .   .   .   Dissimilarity
Approach to Ties   .   .   .   .   Leave Tied
Conditionality .   .   .   .   Matrix
Data Cutoff at 000000

Model Options-

Model .   .   .   .   Euclid
Maximum Dimensionality   3
Minimum Dimensionality   2
Negative Weights   .   .   .   .   Not Permitted

Output Options-

Job Option Header .   .   .   .   Printed
Data Matrices   .   .   .   .   Printed
Configurations and Transformations   .   Plotted
Output Dataset .   .   .   .   Not Created
Initial Stimulus Coordinates   .   .   .   Computed

Algorithmic Options-

Maximum Iterations   30
Convergence Criterion 00100
Minimum S-stress 00500
Missing Data Estimated by   .   .   .   .   Ulbounds
Tiestore   190

Raw (unscaled) Data for Subject 1

	1	2	3	4	5	6	7	8	9	10
1	.000									
2	18.138	.000								
3	13.491	14.526	.000							
4	15.780	13.191	12.124	.000						
5	10.247	16.371	12.288	14.071	.000					
6	9.055	17.407	12.329	14.457	9.747	.000				
7	13.454	16.310	11.705	13.565	12.166	11.958	.000			
8	17.000	15.232	14.799	15.811	16.000	15.716	15.297	.000		
9	12.767	17.833	14.036	15.937	12.329	11.180	14.142	16.613	.000	
10	10.536	19.698	13.675	15.811	11.314	9.950	13.191	18.111	12.329	.000
11	14.142	14.526	12.410	10.817	13.379	13.416	13.304	14.457	14.526	14.526
12	16.031	14.832	14.387	15.033	14.900	15.264	16.062	14.967	16.912	17.550
13	16.462	15.748	13.964	14.422	15.297	15.199	14.629	13.191	16.125	18.000
14	13.191	15.716	11.832	10.817	12.042	11.832	11.874	15.264	13.379	12.845
15	12.884	18.520	14.765	16.093	13.379	12.728	14.318	17.692	13.304	13.304
16	11.136	17.972	12.806	14.177	10.724	9.381	12.610	15.906	12.530	9.849
17	13.115	16.217	12.961	12.530	13.229	12.649	12.530	15.524	14.107	13.379
18	16.155	14.832	13.304	13.711	15.297	15.000	14.353	12.806	16.371	17.263
19	9.695	19.519	13.565	15.780	10.909	9.165	13.077	17.804	12.207	8.426
20	10.247	18.655	12.610	14.900	10.863	9.327	12.728	17.493	12.166	8.124

	11	12	13	14	15	16	17	18	19	20
11	.000									
12	13.964	.000								
13	13.153	12.570	.000							
14	9.695	14.595	13.454	.000						
15	15.556	18.574	18.138	14.765	.000					
16	13.266	15.843	15.330	11.576	13.342	.000				
17	11.747	15.843	14.799	11.045	14.353	12.649	.000			
18	12.530	13.115	11.916	12.530	17.916	15.133	13.820	.000		
19	13.856	17.349	17.117	12.806	11.747	8.944	13.038	16.823	.000	
20	13.000	16.852	16.673	11.705	12.288	9.327	12.530	16.186	6.403	.000

Iteration history for the 3 dimensional solution (in squared distances)

Young's S-stress formula 1 is used.

Iteration   S-stress   Improvement

1	.16566	
2	.11121	.05445
3	.10146	.00975
4	.09909	.00237
5	.09825	.00084

Iterations stopped because
S-stress improvement is less than   .001000

Stress and squared correlation (RSQ) in distances

RSQ values are the proportion of variance of the scaled data (disparities)
in the partition (row, matrix, or entire data) which
is accounted for by their corresponding distances.
Stress values are Kruskal's stress formula 1.

For   matrix
Stress   =   .10131   RSQ =   .95019

Configuration derived in 3 dimensions

Stimulus Coordinates

Dimension

Stimulus Number	Stimulus Name	1	2	3
1	notintun	1.3782	.6056	.1135
2	lackcomp	-2.6835	-1.3917	.7885
3	noturnto	-.3386	-.4544	-.1442
4	notalone	-1.0653	-1.3651	-.3396
5	notpartg	.6723	-.1127	.4757
6	notincom	.8696	.3005	.1574
7	notclose	.3175	-.6026	-.6396
8	notshare	-2.0473	1.0761	1.2653
9	notoutgo	1.1965	.4368	1.0605
10	noclosep	1.9243	-.2186	-.1166
11	leftout	-.6521	-.1974	-.6609

12	superfic	-1.9203	1.4111	-.4902
13	noonekno	-1.8715	1.1855	-.6352
14	isolated	-.0313	-.1032	-.4778
15	notfindc	1.7602	-.5944	1.2941
16	ppledont	.9763	.3041	-.0281
17	unhappyw	.2363	-.6290	-.6670
18	aroundno	-1.8495	.5046	-.6876
19	nopeople	1.7188	-.0010	-.0330
20	nopeop_1	1.4092	-.1542	-.2351

Optimally scaled data (disparities) for subject   1

	1	2	3	4	5	6	7	8	9	10
1	.000									
2	4.511	.000								
3	1.970	2.640	.000							
4	3.160	1.676	1.232	.000						
5	1.003	3.456	1.286	2.266	.000					
6	.685	3.975	1.286	2.640	.685	.000				
7	1.970	3.416	1.088	1.970	1.286	1.232	.000			
8	3.653	2.854	2.734	3.160	3.223	3.160	3.114	.000		
9	1.412	4.190	2.266	3.223	1.286	1.088	2.266	3.456	.000	
10	1.003	4.840	2.169	3.160	1.088	1.003	1.676	4.400	1.286	.000
11	2.266	2.640	1.286	1.088	1.777	1.798	1.676	2.640	2.640	2.640
12	3.239	2.734	2.493	2.854	2.734	2.994	3.239	2.734	3.653	4.159
13	3.456	3.160	2.266	2.640	3.114	2.854	2.650	1.676	3.406	4.190
14	1.676	3.160	1.088	1.088	1.232	1.088	1.088	2.994	1.777	1.676
15	1.676	4.511	2.650	3.354	1.777	1.412	2.493	4.159	1.676	1.676
16	1.088	4.190	1.676	2.493	1.003	.685	1.412	3.223	1.286	1.003
17	1.676	3.406	1.676	1.286	1.676	1.412	1.286	3.160	2.266	1.777
18	3.406	2.734	1.676	2.169	3.114	2.854	2.493	1.676	3.456	3.885
19	.685	4.689	1.970	3.160	1.088	.685	1.676	4.159	1.286	.436
20	1.003	4.511	1.412	2.734	1.088	.685	1.412	3.975	1.286	.436

	11	12	13	14	15	16	17	18	19	20
11	.000									
12	2.266	.000								
13	1.676	1.286	.000							
14	.685	2.640	1.970	.000						
15	3.160	4.511	4.511	2.650	.000					
16	1.676	3.160	3.114	1.088	1.777	.000				

17	1.088	3.160	2.734	1.088	2.493	1.412	.000			
18	1.286	1.676	1.088	1.286	4.190	2.854	2.266	.000		
19	2.266	3.930	3.829	1.676	1.088	.685	1.676	3.653	.000	
20	1.676	3.653	3.566	1.088	1.286	.685	1.286	3.406	.400	.000

Iteration history for the 2 dimensional solution (in squared distances)

Young's S-stress formula 1 is used.

Iteration	S-stress	Improvement
1	.21273	
2	.14270	.07003
3	.13325	.00945
4	.13126	.00199
5	.13046	.00079

Iterations stopped because
S-stress improvement is less than   .001000

Stress and squared correlation (RSQ) in distances

RSQ values are the proportion of variance of the scaled data (disparities)
in the partition (row, matrix, or entire data) which
is accounted for by their corresponding distances.
Stress values are Kruskal's stress formula 1.

For   matrix
Stress   =   .14536   RSQ =   .91648

Configuration derived in 2 dimensions

Stimulus Coordinates

Dimension

Stimulus Number	Stimulus Name	1	2
1	notintun	1.1570	-.5006

2	lackcomp	-2.3038	1.2632
3	noturnto	-.2874	.2810
4	notalone	-.8379	1.1039
5	notpartg	.5455	.0065
6	notincom	.6957	-.2667
7	notclose	.1961	.4868
8	notshare	-1.7823	-1.2578
9	notoutgo	1.2144	-.5693
10	noclosep	1.6456	.3263
11	leftout	-.5340	.1920
12	superfic	-1.7327	-1.0192
13	noonekno	-1.6768	-.8969
14	isolated	-.0422	.1205
15	notfindc	1.7472	.6440
16	ppledont	.8193	-.3352
17	unhappyw	.1411	.4870
18	aroundno	-1.6308	-.3532
19	nopeople	1.4777	.1567
20	nopeop_1	1.1882	.1311

Optimally scaled data (disparities) for subject   1

	1	2	3	4	5	6	7	8	9	10
1	.000									
2	3.820	.000								
3	1.605	2.079	.000							
4	2.531	1.253	.805	.000						
5	.805	2.945	.820	1.770	.000					
6	.613	3.356	.881	2.049	.613	.000				
7	1.605	2.752	.805	1.605	.805	.805	.000			
8	3.077	2.440	2.079	2.550	2.682	2.493	2.440	.000		
9	1.091	3.690	1.770	2.682	.881	.805	1.770	3.059	.000	
10	.805	4.059	1.770	2.550	.805	.805	1.253	3.776	.881	.000
11	1.770	2.079	.881	.805	1.350	1.350	1.253	2.049	2.079	2.079
12	2.682	2.079	1.944	2.316	2.079	2.440	2.682	2.079	3.077	3.636
13	2.945	2.493	1.770	2.049	2.440	2.440	2.079	1.253	2.752	3.690
14	1.253	2.493	.805	.805	.805	.805	.805	2.440	1.350	1.253
15	1.253	3.879	2.079	2.682	1.350	1.091	1.864	3.690	1.253	1.253
16	.805	3.690	1.253	1.864	.805	.613	1.091	2.682	1.003	.805
17	1.253	2.752	1.253	1.003	1.253	1.091	1.003	2.493	1.770	1.350
18	2.752	2.079	1.253	1.770	2.440	2.316	1.864	1.253	2.945	3.346
19	.613	3.940	1.605	2.531	.805	.613	1.253	3.690	.805	.390

20	.805	3.879	1.091	2.079	.805	.613	1.091	3.356	.805	.390

	11	12	13	14	15	16	17	18	19	20
11	.000									
12	1.770	.000								
13	1.253	1.003	.000							
14	.613	2.079	1.605	.000						
15	2.493	3.879	3.820	2.079	.000					
16	1.253	2.550	2.493	.805	1.349	.000				
17	.805	2.550	2.079	.805	1.864	1.091	.000			
18	1.003	1.253	.805	1.003	3.690	2.440	1.770	.000		
19	1.770	3.356	3.326	1.253	.805	.613	1.253	3.077	.000	
20	1.253	3.077	3.059	.805	.820	.613	1.003	2.752	.291	.000

Abbreviated Name	Extended Name
aroundno	aroundnotwith
lackcomp	lackcompanionship
noclosep	noclosepeople
noonekno	nooneknowsme
nopeop_1	nopeopletoturnto
nopeople	nopeopletotalkto
notclose	notcloseany
notfindc	notfindcomp
notincom	notincommon
notintun	notintune
notoutgo	notoutgoing
notpartg	notpartgroup
notshare	notshared
ppledont	ppledontunderstandme
superfic	superficial
unhappyw	unhappywithdrawn