

```

FACTOR
/VARIABLES V1 V2 V3 V4 V5 V6
/MISSING LISTWISE
/ANALYSIS V1 V2 V3 V4 V5 V6
/PRINT INITIAL EXTRACTION ROTATION
/PLOT EIGEN ROTATION
/CRITERIA FACTORS(2) ITERATE(25)
/EXTRACTION ML
/CRITERIA ITERATE(25)
/ROTATION VARIMAX
/SAVE REG(ALL).

```

Factor Analysis

Notes

Output Created		2008-04-10T08:26:04.000
Comments		
Input	Data	/Users/chl/m1.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	MISSING=EXCLUDE: User-defined missing values are treated as missing.
	Cases Used	LISTWISE: Statistics are based on cases with no missing values for any variable used.

Notes

Syntax	<pre> FACTOR /VARIABLES V1 V2 V3 V4 V5 V6 /MISSING LISTWISE /ANALYSIS V1 V2 V3 V4 V5 V6 /PRINT INITIAL EXTRACTION ROTATION /PLOT EIGEN ROTATION /CRITERIA FACTORS(2) ITERATE (25) /EXTRACTION ML /CRITERIA ITERATE(25) /ROTATION VARIMAX /SAVE REG(ALL). </pre>						
Resources	<table style="width: 100%; border: none;"> <tr> <td style="padding-right: 20px;">Processor Time</td> <td>0:00:01.156</td> </tr> <tr> <td>Elapsed Time</td> <td>0:00:01.000</td> </tr> <tr> <td>Maximum Memory Required</td> <td>5928 (5,789K) bytes</td> </tr> </table>	Processor Time	0:00:01.156	Elapsed Time	0:00:01.000	Maximum Memory Required	5928 (5,789K) bytes
Processor Time	0:00:01.156						
Elapsed Time	0:00:01.000						
Maximum Memory Required	5928 (5,789K) bytes						
Variables Created	<table style="width: 100%; border: none;"> <tr> <td style="padding-right: 20px;">FAC1_2</td> <td>Regression factor score 1</td> </tr> <tr> <td>FAC2_2</td> <td>Regression factor score 2</td> </tr> </table>	FAC1_2	Regression factor score 1	FAC2_2	Regression factor score 2		
FAC1_2	Regression factor score 1						
FAC2_2	Regression factor score 2						

[DataSet1] /Users/chl/ml.sav

Communalities^a

	Initial	Extraction
V1	,939	,999
V2	,899	,837
V3	,925	,662
V4	,780	,340
V5	,943	,999
V6	,906	,853

Extraction Method: Maximum Likelihood.

a. One or more communitiy estimates greater than 1 were encountered during iterations. The resulting solution should be interpreted with caution.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings	
	Total	% of Variance	Cumulative %	Total	% of Variance
1	4,077	67,950	67,950	3,872	64,525
2	,877	14,617	82,567	,818	13,630
3	,769	12,813	95,380		
4	,214	3,562	98,942		
5	,037	,625	99,567		
6	,026	,433	100,000		

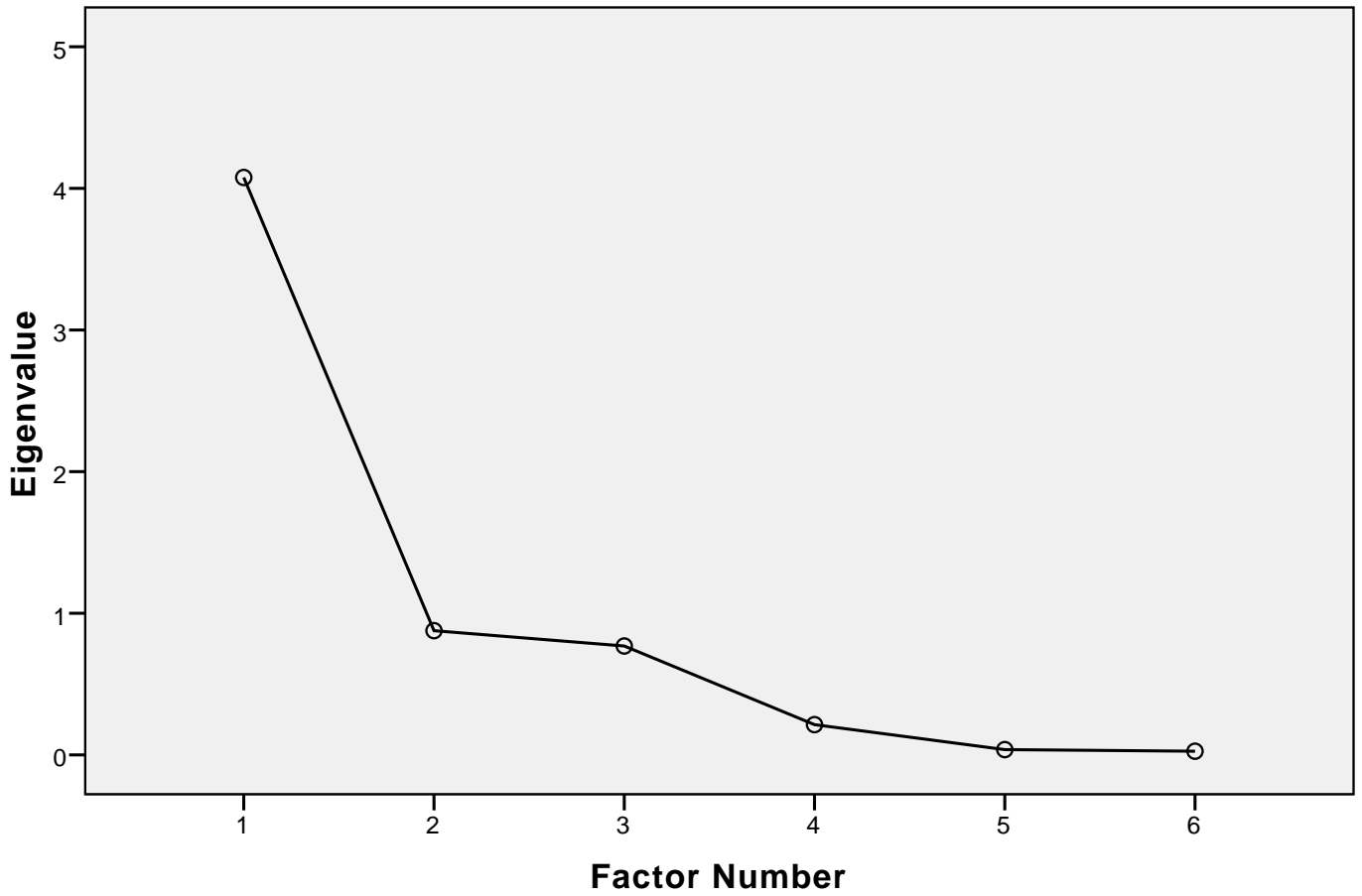
Extraction Method: Maximum Likelihood.

Total Variance Explained

Factor	Extraction Sums of Squared Loadings	Rotation Sums of Squared Loadings		
	Cumulative %	Total	% of Variance	Cumulative %
1	64,525	2,361	39,348	39,348
2	78,156	2,328	38,807	78,156
3				
4				
5				
6				

Extraction Method: Maximum Likelihood.

Scree Plot



Factor Matrix^a

	Factor	
	1	2
V1	,909	-,416
V2	,783	-,472

Extraction Method: Maximum Likelihood.

a. 2 factors extracted. 7 iterations required.

Factor Matrix^a

	Factor	
	1	2
V3	,814	,000
V4	,583	4,104E-5
V5	,909	,415
V6	,776	,500

Extraction Method: Maximum Likelihood.

a. 2 factors extracted. 7 iterations required.

Goodness-of-fit Test

Chi-Square	df	Sig.
21,709	4	,000

Rotated Factor Matrix^a

	Factor	
	1	2
V1	,940	,338
V2	,890	,210
V3	,582	,569
V4	,417	,408
V5	,360	,933
V6	,206	,900

Extraction Method: Maximum Likelihood.

Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 3 iterations.

Factor Transformation Matrix

Fa...	1	2
1	,715	,699

Extraction Method: Maximum Likelihood.

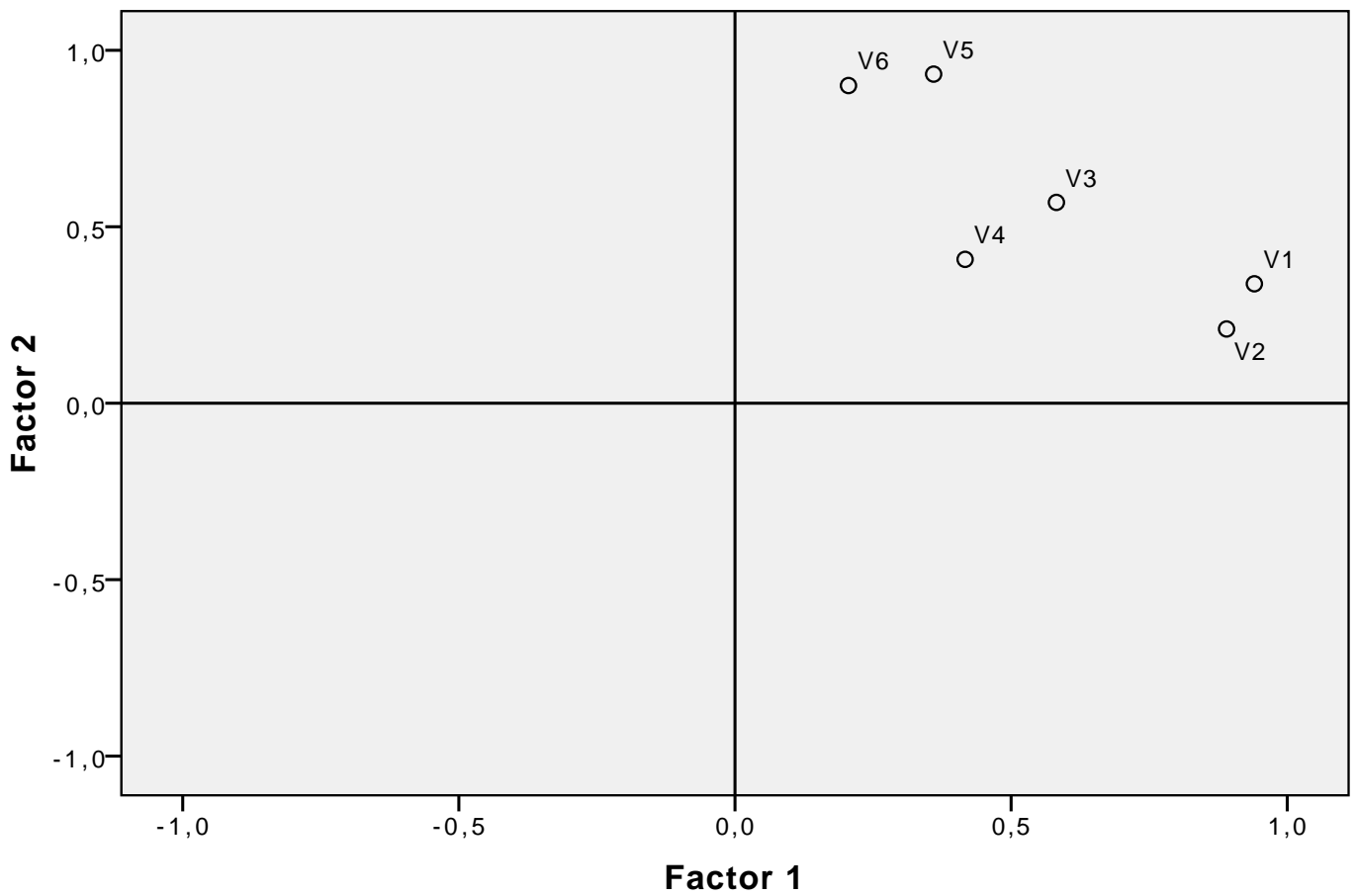
Rotation Method: Varimax with Kaiser Normalization.

Factor Transformation Matrix

Fa...	1	2
2	-,699	,715

Extraction Method: Maximum Likelihood.
Rotation Method: Varimax with Kaiser Normalization.

Factor Plot in Rotated Factor Space



```
FACTOR  
/VARIABLES V1 V2 V3 V4 V5 V6  
/MISSING LISTWISE
```

```

/ANALYSIS V1 V2 V3 V4 V5 V6
/PRINT INITIAL EXTRACTION ROTATION
/PLOT EIGEN ROTATION
/CRITERIA FACTORS(2) ITERATE(25)
/EXTRACTION PC
/CRITERIA ITERATE(25)
/ROTATION VARIMAX
/SAVE REG(ALL)
/METHOD=COVARIANCE.

```

Factor Analysis

Notes

Output Created		2008-04-10T08:27:32.000
Comments		
Input	Data	/Users/chl/m1.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	MISSING=EXCLUDE: User-defined missing values are treated as missing.
	Cases Used	LISTWISE: Statistics are based on cases with no missing values for any variable used.
Syntax		<p>FACTOR</p> <pre> /VARIABLES V1 V2 V3 V4 V5 V6 /MISSING LISTWISE /ANALYSIS V1 V2 V3 V4 V5 V6 /PRINT INITIAL EXTRACTION ROTATION /PLOT EIGEN ROTATION /CRITERIA FACTORS(2) ITERATE (25) /EXTRACTION PC /CRITERIA ITERATE(25) /ROTATION VARIMAX /SAVE REG(ALL) /METHOD=COVARIANCE. </pre>

Notes

Resources	Processor Time	0:00:01.408
	Elapsed Time	0:00:01.000
	Maximum Memory Required	5928 (5,789K) bytes
Variables Created	FAC1_3	Component score 1
	FAC2_3	Component score 2

[DataSet1] /Users/chl/ml.sav

Communalities

	Raw		Rescaled	
	Initial	Extraction	Initial	Extraction
V1	1,359	1,269	1,000	,933
V2	2,379	2,165	1,000	,910
V3	1,359	1,018	1,000	,749
V4	2,487	1,462	1,000	,588
V5	1,359	1,221	1,000	,898
V6	2,487	2,128	1,000	,856

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues ^a			Extraction Sums of Squared Loadings
	Total	% of Variance	Cumulative %	Total
Raw	1	7,472	65,360	7,472
	2	1,791	15,669	1,791
	3	1,684	14,730	
	4	,384	3,358	
	5	,061	,530	
	6	,040	,353	
Rescaled	1	7,472	65,360	4,059

Extraction Method: Principal Component Analysis.

a. When analyzing a covariance matrix, the initial eigenvalues are the same across the raw and rescaled solution.

Total Variance Explained

Component		Extraction Sums of Squared Loadings		Rotation Sums of Squared Loadings
		% of Variance	Cumulative %	Total
Raw	1	65,360	65,360	4,983
	2	15,669	81,029	4,280
	3			
	4			
	5			
	6			
Rescaled	1	67,645	67,645	2,629

Extraction Method: Principal Component Analysis.

a. When analyzing a covariance matrix, the initial eigenvalues are the same across the raw and rescaled solution.

Total Variance Explained

Component		Rotation Sums of Squared Loadings	
		% of Variance	Cumulative %
Raw	1	43,591	43,591
	2	37,438	81,029
	3		
	4		
	5		
	6		
Rescaled	1	43,811	43,811

Extraction Method: Principal Component Analysis.

a. When analyzing a covariance matrix, the initial eigenvalues are the same across the raw and rescaled solution.

Total Variance Explained

Component		Initial Eigenvalues ^a			Extraction Sums of Squared Loadings
		Total	% of Variance	Cumulative %	Total
Rescaled	2	1,791	15,669	81,029	,875
	3	1,684	14,730	95,759	
	4	,384	3,358	99,117	
	5	,061	,530	99,647	
	6	,040	,353	100,000	

Extraction Method: Principal Component Analysis.

a. When analyzing a covariance matrix, the initial eigenvalues are the same across the raw and rescaled solution.

Total Variance Explained

Component		Extraction Sums of Squared Loadings		Rotation Sums of Squared Loadings
		% of Variance	Cumulative %	Total
Rescaled	2	14,582	82,227	2,305
	3			
	4			
	5			
	6			

Extraction Method: Principal Component Analysis.

a. When analyzing a covariance matrix, the initial eigenvalues are the same across the raw and rescaled solution.

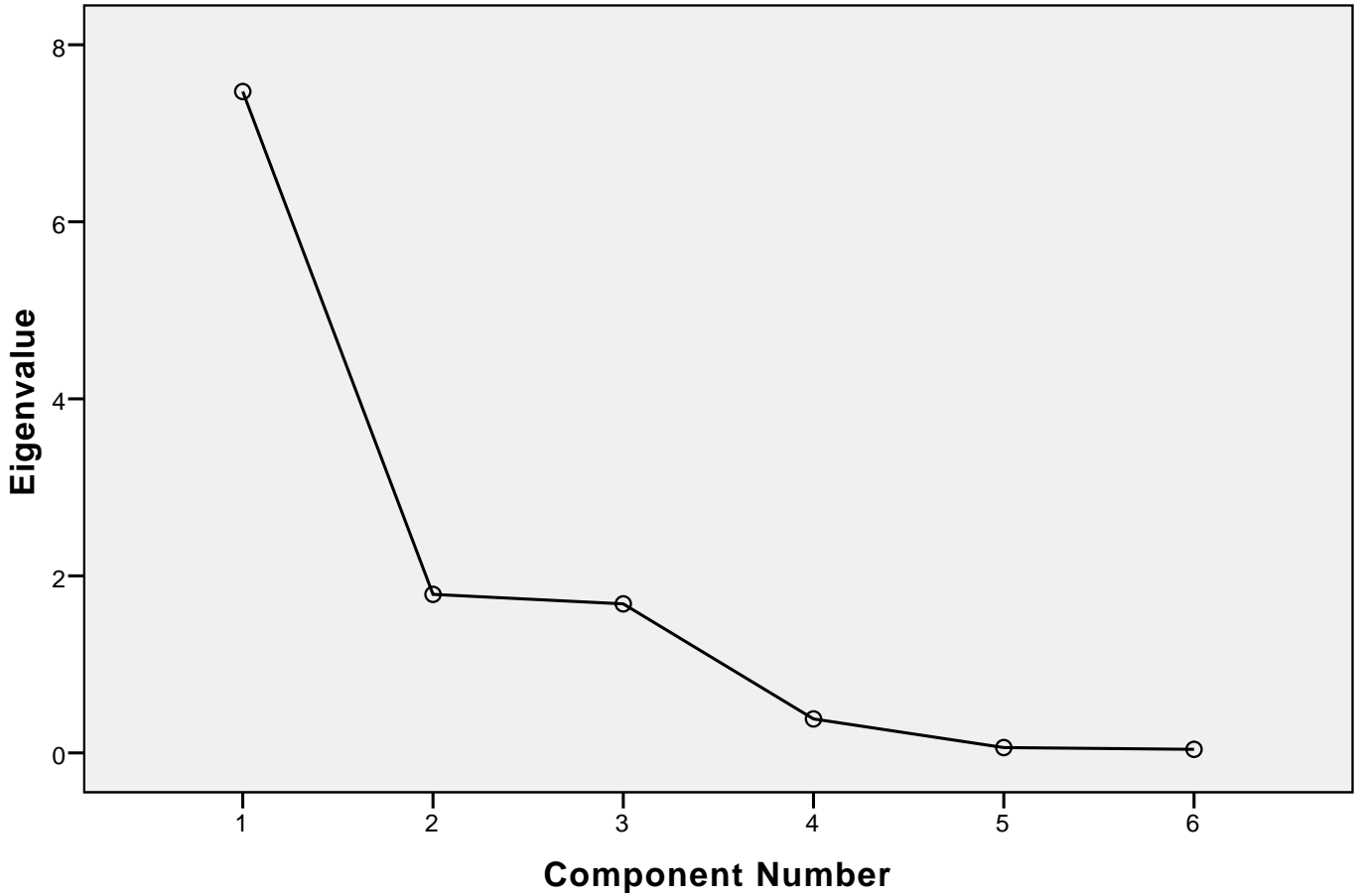
Total Variance Explained

Component		Rotation Sums of Squared Loadings	
		% of Variance	Cumulative %
Rescaled	2	38,415	82,227
	3		
	4		
	5		
	6		

Extraction Method: Principal Component Analysis.

a. When analyzing a covariance matrix, the initial eigenvalues are the same across the raw and rescaled solution.

Scree Plot



Component Matrix^a

	Raw		Rescaled	
	Component		Component	
	1	2	1	2
V1	1,009	,501	,865	,430

Extraction Method: Principal Component Analysis.

a. 2 components extracted.

Component Matrix^a

	Raw		Rescaled	
	Component		Component	
	1	2	1	2
V2	1,185	,873	,768	,566
V3	1,008	-,032	,865	-,027
V4	1,205	-,107	,764	-,068
V5	1,025	-,413	,879	-,354
V6	1,238	-,772	,785	-,490

Extraction Method: Principal Component Analysis.

a. 2 components extracted.

Rotated Component Matrix^a

	Raw		Rescaled	
	Component		Component	
	1	2	1	2
V1	,425	1,043	,364	,895
V2	,311	1,438	,201	,933
V3	,777	,643	,666	,552
V4	,973	,717	,617	,455
V5	1,041	,369	,893	,316
V6	1,439	,240	,912	,152

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 3 iterations.

Component Transformation Matrix

Co...	1	2
1	,750	,662
2	-,662	,750

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

Component Plot in Rotated Space

