



User: Table 1.4 and related steps

```

name: <unnamed>
log: C:\Users\hooghe\Documents\#Liesbet\#_projects\RAI_VOLUMES2\data\final_website\volume
log type: smcl
opened on: 5 May 2016, 12:50:35
    
```

```

1 . do "C:\Users\hooghe\AppData\Local\Temp\STD07000000.tmp"
2 . polychoric n_instdepth n_policy n_fiscauto n_borrowauto n_rep n_lawmaking n_execcon n_fiscon n_borrowcon
    
```

Polychoric correlation matrix

```

> rowcon
      n_instdepth      n_policy      n_fiscauto      n_borrowauto      n_rep      n_lawmaking
n_instdepth      n_constit
n_instdepth          1
n_policy          .86803065          1
n_fiscauto          .69063378          .77514258          1
n_borrowauto          .78883886          .87594124          .84557266          1
n_rep          .90865316          .90821117          .63902429          .80710726          1
n_lawmaking          .51157423          .56970467          .62267442          .53676216          .42945979          1
n_execcon          .59247744          .67667407          .64600366          .54858374          .52985069          .64723438
n_fiscon          .48860602          .60680866          .57730935          .56548041          .43660171          .71735277
n_borrowcon          .44759344          .45213004          .35725661          .34091651          .37658925          .49262391
> 1
n_constit          .57731034          .5532083          .65304326          .54198342          .44302266          .73010241
> 457801          1
    
```

```

3 .
4 . display r(sum_w)
80
5 . *display number of observations, which is needed for factormat*
6 . matrix r=r(R)
7 . *saves the correlation matrix*
8 . factormat r, n(80) factors(1)
(obs=80)
    
```

```

Factor analysis/correlation
Method: principal factors
Rotation: (unrotated)
Number of obs = 80
Retained factors = 1
Number of params = 10
    
```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	6.41069	5.24942	0.8155	0.8155
Factor2	1.16127	0.79001	0.1477	0.9632
Factor3	0.37126	0.21859	0.0472	1.0105
Factor4	0.15267	0.07826	0.0194	1.0299
Factor5	0.07441	0.06593	0.0095	1.0394
Factor6	0.00848	0.04626	0.0011	1.0404
Factor7	-0.03778	0.00853	-0.0048	1.0356
Factor8	-0.04630	0.04567	-0.0059	1.0297
Factor9	-0.09197	0.04986	-0.0117	1.0180
Factor10	-0.14184	.	-0.0180	1.0000

LR test: independent vs. saturated: chi2(45) = 859.49 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Uniqueness
n_instdepth	0.8542	0.2704
n_policy	0.9135	0.1656
n_fiscauto	0.8370	0.2994
n_borrowauto	0.8549	0.2692
n_rep	0.8153	0.3353
n_lawmaking	0.7352	0.4595
n_execcon	0.8151	0.3356
n_fisccon	0.7547	0.4304
n_borrowcon	0.6125	0.6249
n_constit	0.7752	0.3991

```
9 . predict factor1
   (regression scoring assumed)
```

Scoring coefficients (method = regression)

Variable	Factor1
n_instdepth	0.11938
n_policy	0.24812
n_fiscauto	0.09892
n_borrowauto	0.11442
n_rep	0.09481
n_lawmaking	0.07573
n_execcon	0.11925
n_fisccon	0.11010
n_borrowcon	0.05293
n_constit	0.15208

(variable means assumed 0; use means() option of factormat for nonzero means)
 (variable std. deviations assumed 1; use sds() option of factormat to change)

```
10 . factormat r, n(80) factors(2)
    (obs=80)
```

```
Factor analysis/correlation          Number of obs   =      80
Method: principal factors            Retained factors =       2
Rotation: (unrotated)                Number of params =     19
```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	6.41069	5.24942	0.8155	0.8155
Factor2	1.16127	0.79001	0.1477	0.9632
Factor3	0.37126	0.21859	0.0472	1.0105
Factor4	0.15267	0.07826	0.0194	1.0299
Factor5	0.07441	0.06593	0.0095	1.0394
Factor6	0.00848	0.04626	0.0011	1.0404
Factor7	-0.03778	0.00853	-0.0048	1.0356
Factor8	-0.04630	0.04567	-0.0059	1.0297
Factor9	-0.09197	0.04986	-0.0117	1.0180
Factor10	-0.14184	.	-0.0180	1.0000

LR test: independent vs. saturated: $\chi^2(45) = 859.49$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
n_instdepth	0.8542	-0.3229	0.1662
n_policy	0.9135	-0.2992	0.0760
n_fiscauto	0.8370	-0.1014	0.2891
n_borrowauto	0.8549	-0.3279	0.1617
n_rep	0.8153	-0.4705	0.1140
n_lawmaking	0.7352	0.3156	0.3600
n_execon	0.8151	0.3258	0.2294
n_fiscon	0.7547	0.3585	0.3019
n_borrowcon	0.6125	0.3964	0.4677
n_constit	0.7752	0.3701	0.2621

```
11 . *one-factor and two-factor solution and saves single-factor
12 . rotate, promax
```

```
Factor analysis/correlation          Number of obs   =      80
Method: principal factors           Retained factors =       2
Rotation: oblique promax (Kaiser off) Number of params =     19
```

Factor	Variance	Proportion	Rotated factors are correlated
Factor1	5.50784	0.7007	
Factor2	5.25310	0.6683	

LR test: independent vs. saturated: $\chi^2(45) = 859.49$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
n_instdepth	0.8648	0.0762	0.1662
n_policy	0.8736	0.1343	0.0760
n_fiscauto	0.6082	0.3212	0.2891
n_borrowauto	0.8708	0.0708	0.1617
n_rep	1.0060	-0.1134	0.1140
n_lawmaking	0.0839	0.7462	0.3600
n_execon	0.1198	0.7997	0.2294
n_fiscon	0.0478	0.8056	0.3019
n_borrowcon	-0.0786	0.7748	0.4677
n_constit	0.0470	0.8296	0.2621

Factor rotation matrix

	Factor1	Factor2
Factor1	0.9099	0.8829
Factor2	-0.4147	0.4696

```
13 . predict factorA factorB
    (regression scoring assumed)
```

Scoring coefficients (method = regression; based on promax(3) rotated factors)

Variable	Factor1	Factor2
n_instdepth	0.14880	0.05991
n_policy	0.30817	0.12577
n_fiscauto	0.12076	0.05252
n_borrowauto	0.19914	-0.00657
n_rep	0.30503	-0.16400
n_lawmaking	-0.00199	0.14714
n_execcon	-0.02384	0.25515
n_fisccon	-0.01379	0.22625
n_borrowcon	-0.02454	0.12906
n_constit	0.01742	0.27125

(variable means assumed 0; use means() option of factormat for nonzero means)
 (variable std. deviations assumed 1; use sds() option of factormat to change)

```
14 . *rotates and oblique and saves two factors
15 . estat common
```

Correlation matrix of the promax(3) rotated common factors

Factors	Factor1	Factor2
Factor1	1	
Factor2	.6086	1

```
16 . *gives the correlation*
17 .
18 . *CRONBACH'S ALPHA ANALYSIS
19 . alpha n_instdepth n_policy n_fiscauto n_borrowauto n_rep n_lawmaking n_execcon n_fisccon n_borr
    > g(alpha2010)
```

Test scale = mean(standardized items)

Average interitem correlation: **0.6187**
 Number of items in the scale: **10**
 Scale reliability coefficient: **0.9419**

```
20 .
    end of do-file
```