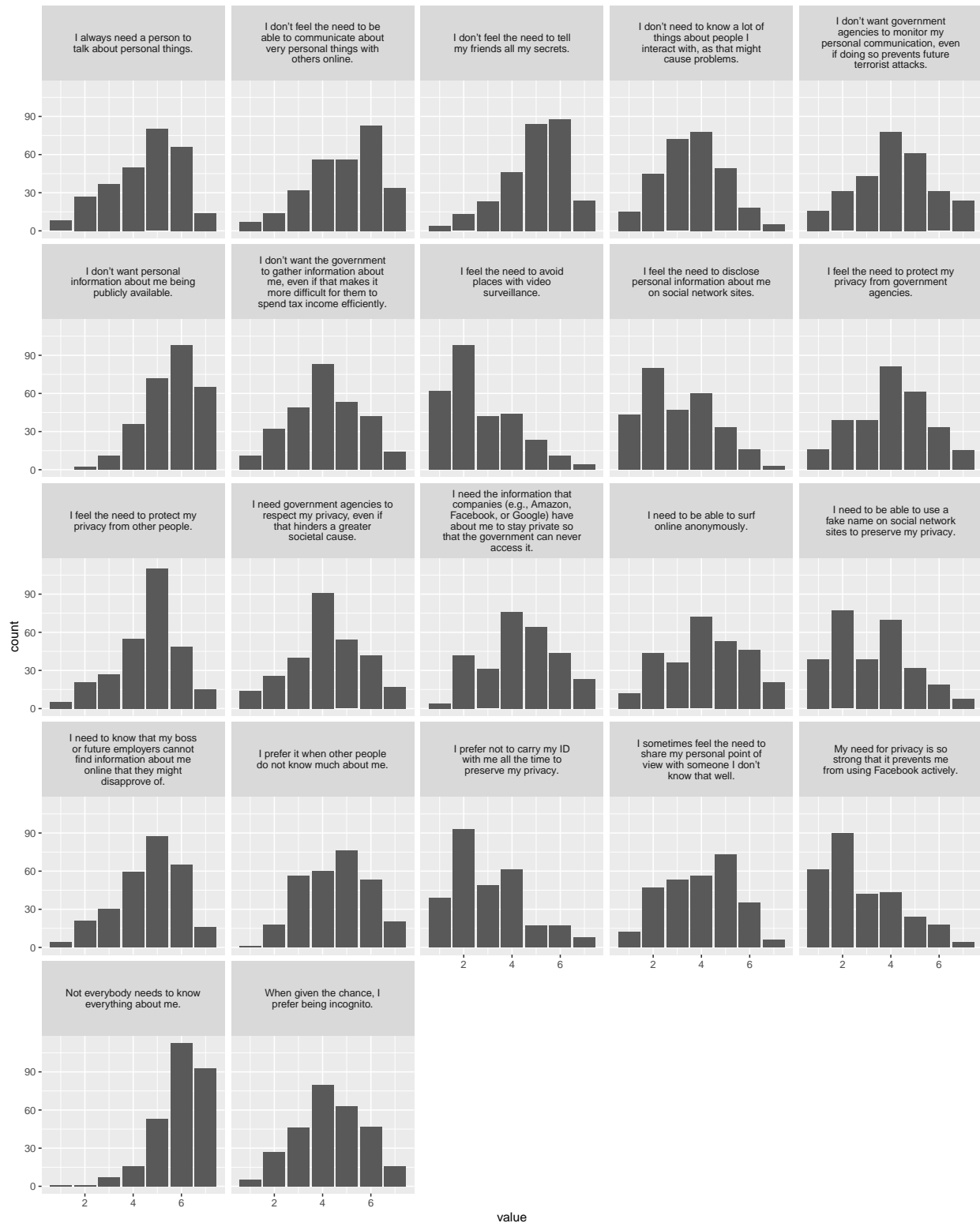


Who Needs Privacy?

Analyses

Measures

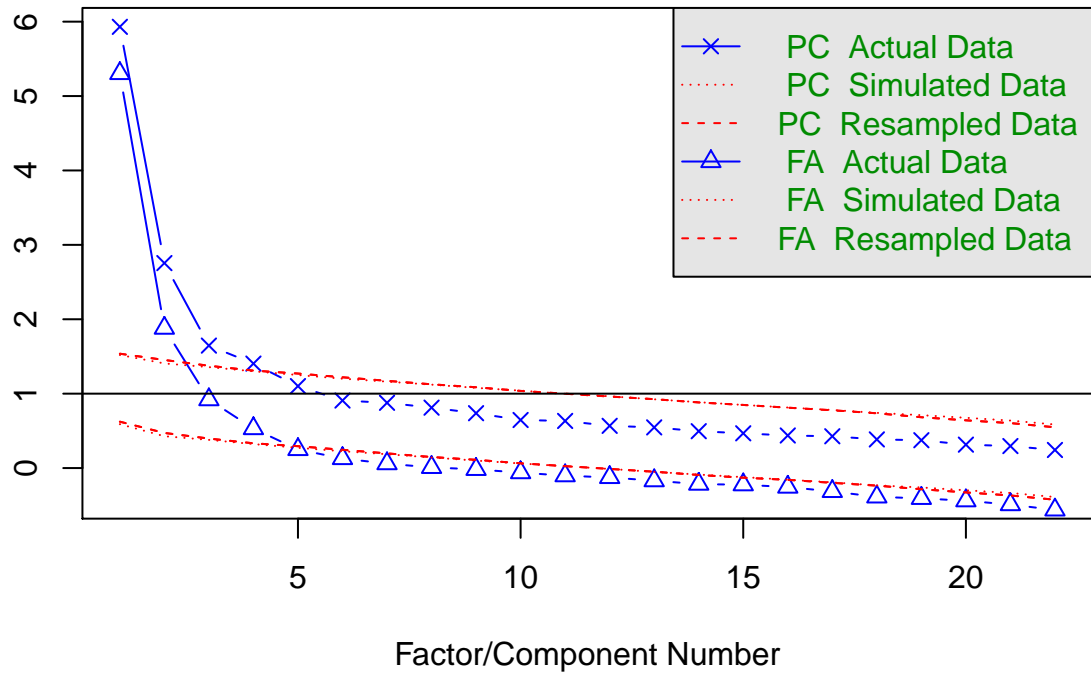
Need for Privacy



Parallel analysis

eigenvalues of principal components and factor analysis

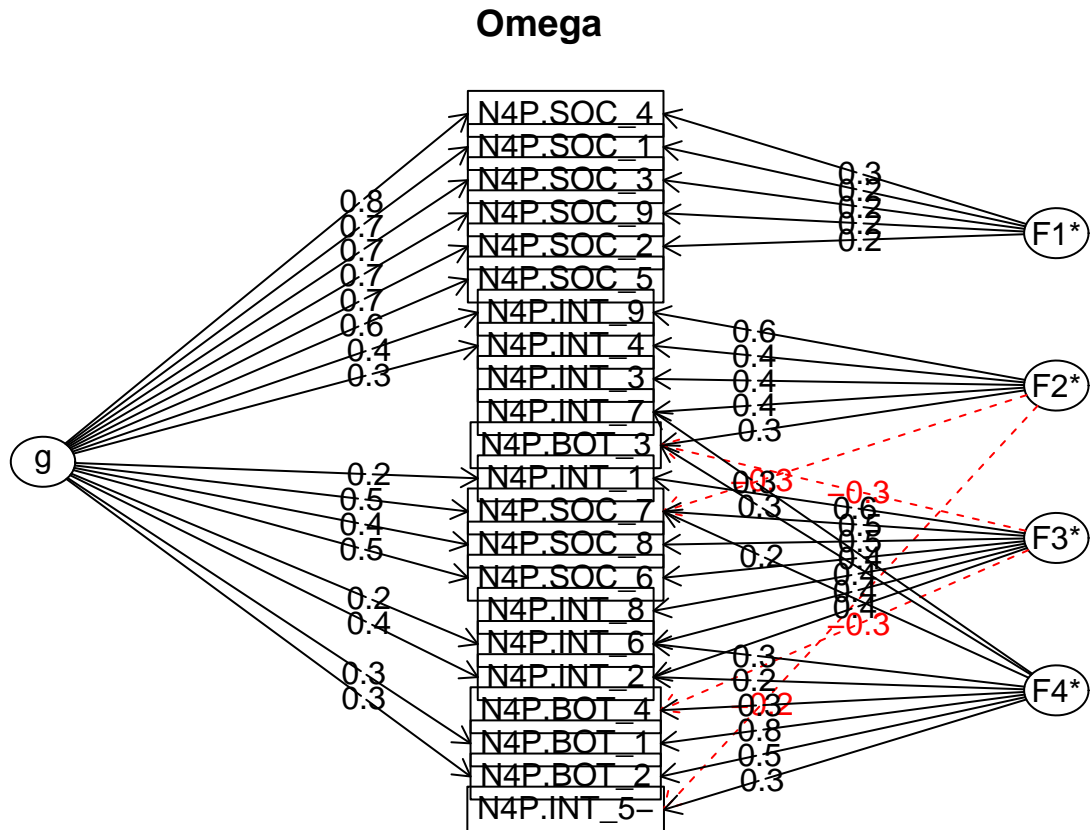
Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 4 and the number of components = 4
Solution suggests 4 or 3 factors

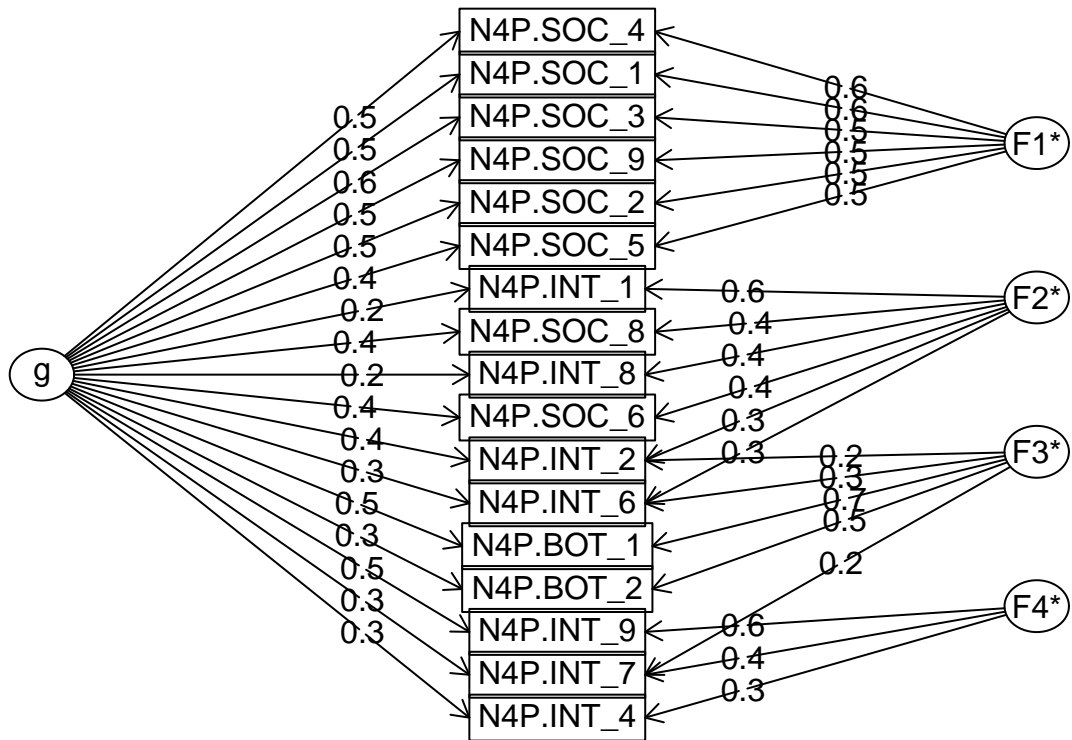
EFA 4 factors

Loading required namespace: GPArotation



Shows several items with negative or low loadings, which will be excluded in updated version.

Omega

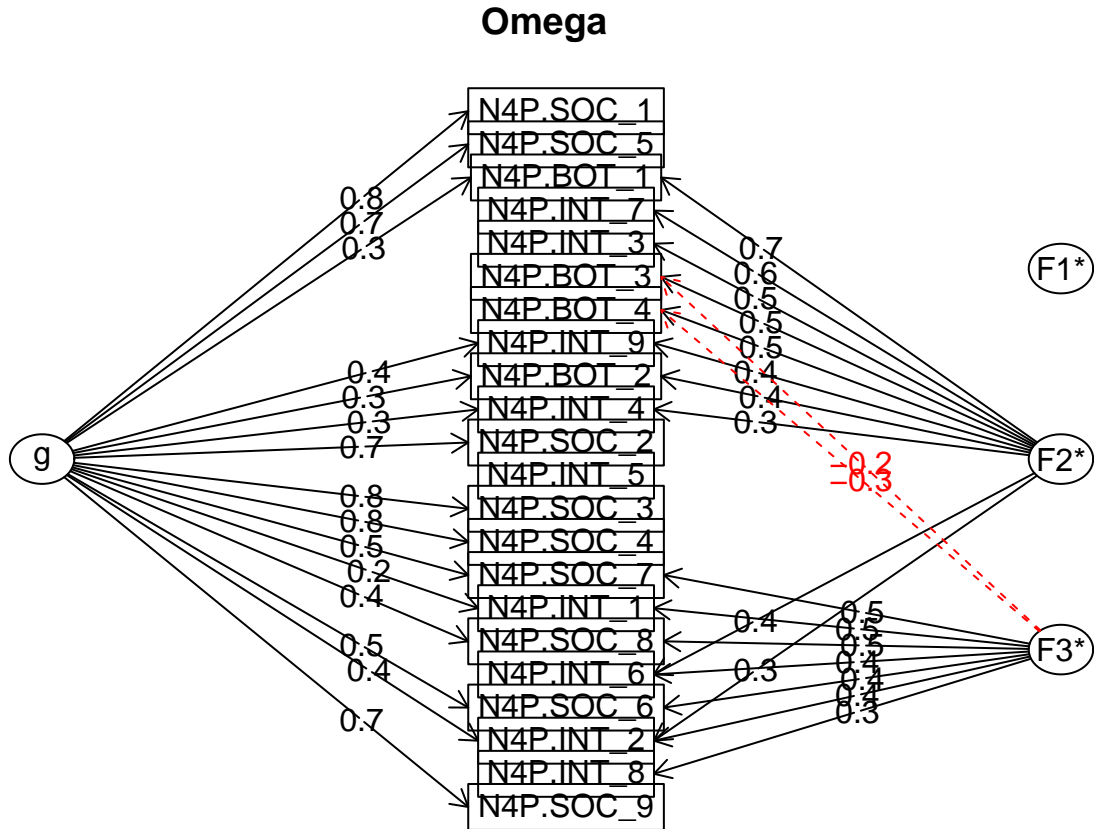


Produces a fitting solution.

##		g	F1*	F2*	F3*	F4*	h2	u2	p2
##	N4P.BOT_1	0.476	0.0017	-0.01068	0.72172	0.05853	0.771	0.229	0.294
##	N4P.BOT_2	0.340	0.1034	-0.00612	0.48756	-0.07628	0.352	0.648	0.328
##	N4P.SOC_1	0.518	0.5890	-0.07230	-0.00139	0.03966	0.604	0.396	0.444
##	N4P.SOC_2	0.524	0.4986	0.06403	0.12853	-0.06464	0.553	0.447	0.496
##	N4P.SOC_3	0.571	0.5368	0.01856	-0.01773	0.13212	0.622	0.378	0.524
##	N4P.SOC_4	0.524	0.6382	-0.02288	0.01089	-0.07338	0.691	0.309	0.397
##	N4P.SOC_5	0.445	0.4703	0.03197	-0.00416	0.00675	0.425	0.575	0.467
##	N4P.SOC_6	0.444	0.1947	0.39156	0.09969	-0.01624	0.410	0.590	0.482
##	N4P.SOC_8	0.402	0.1015	0.39991	0.16635	-0.02114	0.350	0.650	0.462
##	N4P.SOC_9	0.540	0.5012	0.11426	-0.05935	0.09163	0.579	0.421	0.504
##	N4P.INT_1	0.230	-0.0226	0.57637	-0.09639	-0.01656	0.411	0.589	0.128
##	N4P.INT_2	0.438	0.0548	0.33205	0.22929	0.09724	0.350	0.650	0.547
##	N4P.INT_4	0.332	0.0733	0.07289	0.02455	0.32410	0.223	0.777	0.494
##	N4P.INT_6	0.349	-0.0856	0.29798	0.28883	0.12961	0.296	0.704	0.412
##	N4P.INT_7	0.291	-0.0595	-0.11945	0.23933	0.40766	0.390	0.610	0.217
##	N4P.INT_8	0.206	0.0100	0.39478	-0.12490	0.08412	0.230	0.770	0.185
##	N4P.INT_9	0.475	0.0939	0.04950	0.00437	0.55469	0.533	0.467	0.423

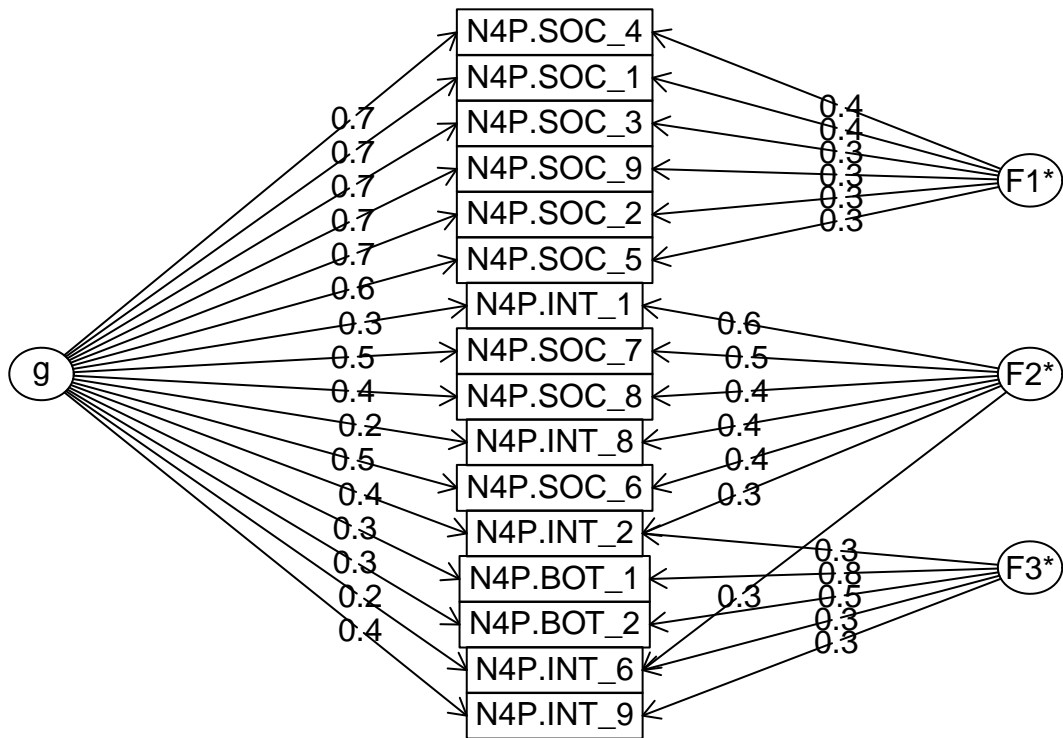
Using four factors, looking at the items's content we do not find an easily interpretable solution.

EFA 3 factors



Shows several items with negative or low loadings, which will be excluded in updated version.

Omega



Produces a fitting solution.


```

##           g          F1*          F2*          F3*          h2          u2          p2
## N4P.BOT_1 0.348 -0.00551 -0.0161 0.81843 0.791 0.209 0.153
## N4P.BOT_2 0.304 0.05660 -0.0386 0.48485 0.332 0.668 0.279
## N4P.SOC_1 0.684 0.36916 -0.0671 0.00911 0.609 0.391 0.769
## N4P.SOC_2 0.661 0.30252 0.0472 0.08269 0.538 0.462 0.813
## N4P.SOC_3 0.696 0.33927 0.0214 0.03667 0.601 0.399 0.805
## N4P.SOC_4 0.723 0.38748 -0.0298 -0.03802 0.675 0.325 0.774
## N4P.SOC_5 0.585 0.29342 0.0304 -0.02200 0.430 0.570 0.797
## N4P.SOC_6 0.492 0.11106 0.3628 0.07968 0.392 0.608 0.616
## N4P.SOC_7 0.547 0.11010 0.4546 0.07403 0.524 0.476 0.572
## N4P.SOC_8 0.425 0.03675 0.4388 0.14495 0.396 0.604 0.457
## N4P.SOC_9 0.680 0.31184 0.1280 -0.03470 0.577 0.423 0.801
## N4P.INT_1 0.252 -0.02805 0.5657 -0.14125 0.404 0.596 0.157
## N4P.INT_2 0.400 0.03099 0.3278 0.27621 0.345 0.655 0.465
## N4P.INT_6 0.249 -0.04932 0.2910 0.34373 0.267 0.733 0.232
## N4P.INT_8 0.214 0.00805 0.3821 -0.11652 0.205 0.795 0.223
## N4P.INT_9 0.354 0.10497 0.0503 0.25593 0.205 0.795 0.614

```

Using three factors, we find a solution that can be interpreted conveniently:

- factor 1 measures privacy from the government (vertical)
- factor 2 measures privacy from identification (combined)
- factor 3 measures privacy from other people (horizontal)

CFA

```

## lavaan 0.6-3 ended normally after 85 iterations
##
## Optimization method          NLMINB
## Number of free parameters          66
##
##                               Used          Total
## Number of observations          284          307
## Number of missing patterns          2
##
## Estimator                      ML
## Model Fit Test Statistic        156.277
## Degrees of freedom              86
## P-value (Chi-square)            0.000
##
## Model test baseline model:
##
## Minimum Function Test Statistic  1690.077
## Degrees of freedom              120
## P-value                        0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.955
## Tucker-Lewis Index (TLI)        0.938
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)    -7456.661

```

```

## Loglikelihood unrestricted model (H1) -7378.522
##
## Number of free parameters 66
## Akaike (AIC) 15045.322
## Bayesian (BIC) 15286.154
## Sample-size adjusted Bayesian (BIC) 15076.866
##
## Root Mean Square Error of Approximation:
##
## RMSEA 0.054
## 90 Percent Confidence Interval 0.040 0.067
## P-value RMSEA <= 0.05 0.314
##
## Standardized Root Mean Square Residual:
##
## SRMR 0.040
##
## Parameter Estimates:
##
## Information Observed
## Observed information based on Hessian
## Standard Errors Standard
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_ver =~
## N4P.SOC_4 1.000 0.880 0.558
## N4P.SOC_1 0.807 0.307 2.632 0.008 0.710 0.475
## N4P.SOC_3 0.571 0.159 3.585 0.000 0.502 0.340
## N4P.SOC_9 0.413 0.229 1.807 0.071 0.363 0.237
## N4P.SOC_2 0.447 0.187 2.391 0.017 0.393 0.260
## N4P.SOC_5 0.504 0.298 1.695 0.090 0.444 0.275
## pri_nee_ide =~
## N4P.INT_1 1.000 0.903 0.602
## N4P.SOC_7 0.642 0.169 3.807 0.000 0.580 0.392
## N4P.SOC_8 0.574 0.191 2.999 0.003 0.518 0.340
## N4P.INT_8 0.644 0.147 4.374 0.000 0.582 0.395
## N4P.SOC_6 0.502 0.159 3.157 0.002 0.454 0.286
## N4P.INT_2 0.522 0.159 3.273 0.001 0.471 0.300
## N4P.INT_6 0.494 0.145 3.398 0.001 0.446 0.329
## pri_nee_hor =~
## N4P.BOT_1 1.000 1.087 0.796
## N4P.BOT_2 0.594 0.115 5.178 0.000 0.645 0.457
## N4P.INT_6 0.456 0.116 3.930 0.000 0.495 0.365
## N4P.INT_9 0.286 0.094 3.025 0.002 0.311 0.234
## N4P.INT_2 0.374 0.118 3.160 0.002 0.407 0.259
## pri_nee_gen =~
## N4P.SOC_4 1.000 1.014 0.643
## N4P.SOC_1 0.912 0.110 8.299 0.000 0.924 0.618
## N4P.SOC_3 1.016 0.094 10.835 0.000 1.030 0.697
## N4P.SOC_9 1.092 0.114 9.548 0.000 1.107 0.723
## N4P.SOC_2 1.031 0.107 9.651 0.000 1.045 0.691
## N4P.SOC_5 0.932 0.128 7.310 0.000 0.945 0.586
## N4P.INT_1 0.355 0.108 3.302 0.001 0.360 0.240

```

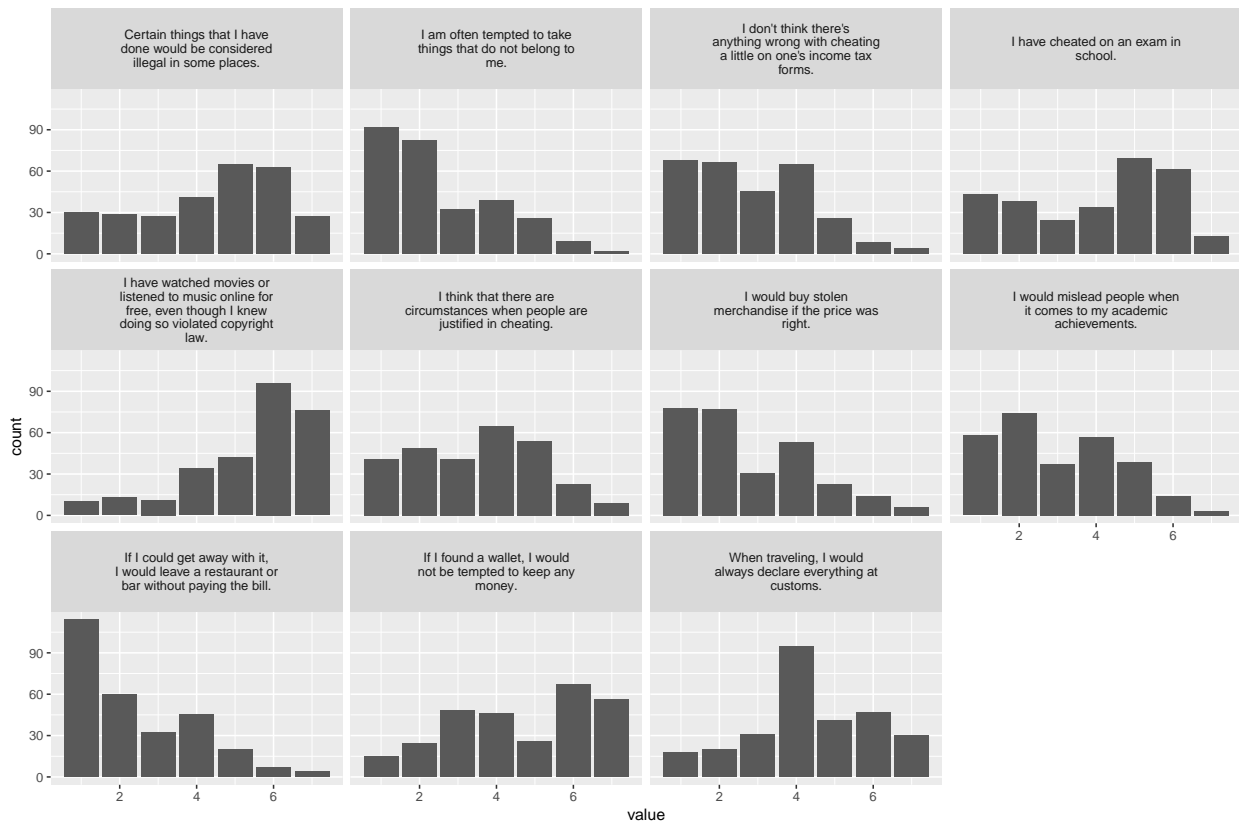
```

##      N4P.SOC_7      0.894    0.137    6.525    0.000    0.906    0.613
##      N4P.SOC_8      0.763    0.149    5.116    0.000    0.773    0.508
##      N4P.INT_8       0.300    0.102    2.931    0.003    0.304    0.206
##      N4P.SOC_6       0.886    0.142    6.235    0.000    0.898    0.566
##      N4P.INT_2       0.681    0.132    5.153    0.000    0.691    0.440
##      N4P.INT_6       0.320    0.102    3.145    0.002    0.324    0.239
##      N4P.BOT_1       0.512    0.110    4.645    0.000    0.519    0.380
##      N4P.BOT_2       0.487    0.105    4.624    0.000    0.493    0.350
##      N4P.INT_9       0.521    0.099    5.262    0.000    0.528    0.399
##
## Covariances:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      pri_nee_ver ~~
##      pri_nee_gen      0.000      0.000    0.000
##      pri_nee_hor ~~
##      pri_nee_gen      0.000      0.000    0.000
##      pri_nee_ide ~~
##      pri_nee_gen      0.000      0.000    0.000
##      pri_nee_ver ~~
##      pri_nee_hor      0.000      0.000    0.000
##      pri_nee_ide      0.000      0.000    0.000
##      pri_nee_ide ~~
##      pri_nee_hor      0.000      0.000    0.000
##
## Intercepts:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      .N4P.SOC_4      4.148    0.094   44.341    0.000    4.148    2.631
##      .N4P.SOC_1      4.194    0.089   47.288    0.000    4.194    2.806
##      .N4P.SOC_3      4.116    0.088   46.980    0.000    4.116    2.788
##      .N4P.SOC_9      4.025    0.091   44.263    0.000    4.025    2.627
##      .N4P.SOC_2      4.331    0.090   48.212    0.000    4.331    2.861
##      .N4P.SOC_5      4.169    0.096   43.587    0.000    4.169    2.586
##      .N4P.INT_1      3.074    0.089   34.447    0.000    3.074    2.050
##      .N4P.SOC_7      2.708    0.088   30.865    0.000    2.708    1.832
##      .N4P.SOC_8      3.025    0.090   33.466    0.000    3.025    1.986
##      .N4P.INT_8      3.924    0.088   44.672    0.000    3.924    2.659
##      .N4P.SOC_6      3.239    0.094   34.437    0.000    3.239    2.043
##      .N4P.INT_2      2.821    0.093   30.210    0.000    2.821    1.797
##      .N4P.INT_6      3.622    0.081   44.865    0.000    3.622    2.670
##      .N4P.BOT_1      4.518    0.081   55.787    0.000    4.518    3.310
##      .N4P.BOT_2      4.317    0.084   51.556    0.000    4.317    3.059
##      .N4P.INT_9      4.600    0.079   58.334    0.000    4.600    3.472
##      pri_nee_ver      0.000      0.000    0.000
##      pri_nee_ide      0.000      0.000    0.000
##      pri_nee_hor      0.000      0.000    0.000
##      pri_nee_gen      0.000      0.000    0.000
##
## Variances:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      .N4P.SOC_4      0.684    0.204    3.355    0.001    0.684    0.275
##      .N4P.SOC_1      0.876    0.134    6.544    0.000    0.876    0.392
##      .N4P.SOC_3      0.868    0.087   10.009    0.000    0.868    0.398
##      .N4P.SOC_9      0.990    0.106    9.372    0.000    0.990    0.421
##      .N4P.SOC_2      1.044    0.104   10.090    0.000    1.044    0.456

```

##	.N4P.SOC_5	1.509	0.138	10.962	0.000	1.509	0.581
##	.N4P.INT_1	1.303	0.209	6.246	0.000	1.303	0.580
##	.N4P.SOC_7	1.028	0.115	8.954	0.000	1.028	0.470
##	.N4P.SOC_8	1.453	0.143	10.193	0.000	1.453	0.626
##	.N4P.INT_8	1.746	0.169	10.319	0.000	1.746	0.802
##	.N4P.SOC_6	1.501	0.146	10.313	0.000	1.501	0.597
##	.N4P.INT_2	1.599	0.154	10.363	0.000	1.599	0.649
##	.N4P.INT_6	1.291	0.138	9.369	0.000	1.291	0.702
##	.N4P.BOT_1	0.411	0.223	1.843	0.065	0.411	0.221
##	.N4P.BOT_2	1.331	0.130	10.251	0.000	1.331	0.669
##	.N4P.INT_9	1.380	0.124	11.103	0.000	1.380	0.786
##	pri_nee_ver	0.774	0.260	2.972	0.003	1.000	1.000
##	pri_nee_ide	0.816	0.235	3.470	0.001	1.000	1.000
##	pri_nee_hor	1.181	0.261	4.528	0.000	1.000	1.000
##	pri_nee_gen	1.027	0.225	4.572	0.000	1.000	1.000

Integrity



Sociability

Fearfulness

Traditionalism

Risk Avoidance

Extraversion

Neuroticism

Conscientiousness

Agreeableness

Openness

Tests