

Who Needs Privacy?

Analyses

Contents

Items	2
Need for privacy	2
Sociability	3
Integrity	3
Anxiety	3
Risk avoidance	3
Traditionalism	4
Sample	5
Missing values	5
Response time	5
Response patterns	7
Power analyses	9
Multivariate normal distribution	10
Measures	11
Need for Privacy	12
Sociability	46
Integrity	58
Anxiety	66
Risk avoidance	73
Traditionalism	82
Results	90
Structural regression model	90
Tables	94
Figures	97
Additional analyses	100
Structural regression model with need for privacy measured as bifactor	100
Structural regression model with individual items	106

Items

“To what extent do you agree or disagree with the following statements?”

(-3) Strongly Disagree, (-2) Disagree, (-1) Slightly Disagree, (0) Neutral, (1) Slightly Agree (2) Agree, (3) Strongly Agree

(Inverted items are labelled "**".)

Need for privacy

Informational

1. I prefer it when other people do not know much about me.
2. When given the chance, I prefer being incognito.
3. I don't want personal information about me being publicly available.
4. Not everybody needs to know everything about me.

Societal

Government Surveillance

1. I need government agencies to respect my privacy, even if that hinders a greater societal cause.
2. I need the information that companies (e.g., Amazon, Facebook, or Google) have about me to stay private so that the government cannot access it.
3. I don't want the government to gather information about me, even if that makes it more difficult for them to spend tax income efficiently.
4. I don't want government agencies to monitor my personal communication, even if doing so prevents future terrorist attacks.

Anonymity

5. I need to be able to surf online anonymously.
6. I need to be able to use a fake name on social network sites to preserve my privacy.
7. I feel the need to avoid places with video surveillance.
8. I prefer not to carry my ID with me all the time to preserve my privacy

Both

9. I feel the need to protect my privacy from government agencies.

Interpersonal

Online

1. I feel the need to disclose personal information about me on social network sites.
2. My need for privacy is so strong that it prevents me from using Facebook actively.
3. I don't feel the need to be able to communicate about very personal things with others online.
4. I need to know that my boss or future employers cannot find information about me online that they might disapprove of.

Offline

5. I always need a person to talk about personal things.*
6. I don't need to know a lot of things about people I interact with, as that might cause problems.
7. I don't feel the need to tell my friends all my secrets.

8. I sometimes feel the need to share my personal point of view with someone I don't know that well.*

Both

9. I feel the need to protect my privacy from other people.

Sociability

1. I shy away from crowds of people.*
2. I like to have a lot of people around me.
3. I usually prefer to do things alone.*
4. I really feel the need for other people if I am by myself for long.
5. I prefer jobs that let me work alone without being bothered by other people.*
6. I'd rather vacation at a popular beach than an isolated cabin in the woods.
7. Social gatherings are usually boring to me.*
8. I enjoy parties with lots of people.

Integrity

1. I am often tempted to take things that do not belong to me.*
2. I don't think there's anything wrong with cheating a little on one's income tax forms.*
3. When traveling, I would always declare everything at customs.
4. If I found a wallet, I would not be tempted to keep any money.
5. If I could get away with it, I would leave a restaurant or bar without paying the bill.*
6. I would buy stolen merchandise if the price was right.*
7. I would mislead people when it comes to my academic achievements.*
8. I think that there are circumstances when people are justified in cheating.*

Self-designed

9. I have cheated on an exam in school.*
10. I have watched movies or listened to music online for free, even though I knew doing so violated copyright law.*
11. Certain things that I have done would be considered illegal in some places.*

Anxiety

1. I am not a worrier.*
2. I am easily frightened.
3. I rarely feel fearful or anxious.*
4. I often feel tense and jittery.
5. I'm seldom apprehensive about the future.
6. I often worry about things that might go wrong.
7. I have fewer fears than most people.*
8. Frightening thoughts sometimes come into my head.

Risk avoidance

1. Over the years I've done some pretty stupid things.*
2. I think things through before coming to a decision.
3. Occasionally I act first and think later.*
4. I always consider the consequences before I take action.

5. I often do things on the spur of the moment.*
6. I rarely make hasty decisions.
7. I plan ahead carefully when I go on a trip.
8. I think twice before I answer a question.

Traditionalism

1. I'm pretty set in my ways.
2. I think it's interesting to learn and develop new hobbies.*
3. Once I find the right way to do something, I stick to it.
4. I often try new and foreign foods.*
5. I prefer to spend my time in familiar surroundings.
6. Sometimes I make changes around the house just to try something different.*
7. On a vacation, I prefer going back to a tried and true spot.
8. I follow the same route when I go someplace.

Sample

Missing values

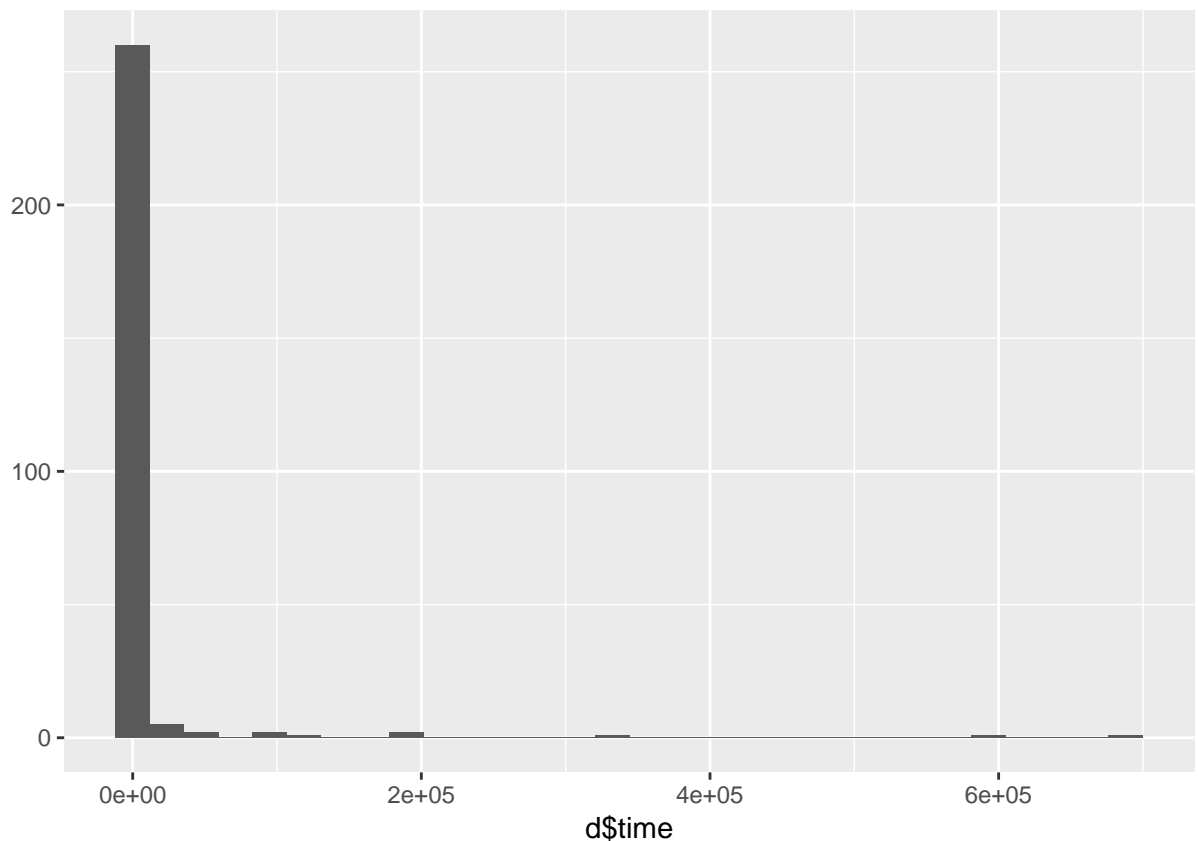
Inspect how much data is missing.

```
##
##           0 0.0142857142857143 0.0285714285714286 0.0428571428571429
##           266                4                1                3
## 0.442857142857143 0.628571428571429 0.742857142857143 0.857142857142857
##           2                1                1                2
## 0.971428571428571
##           15
```

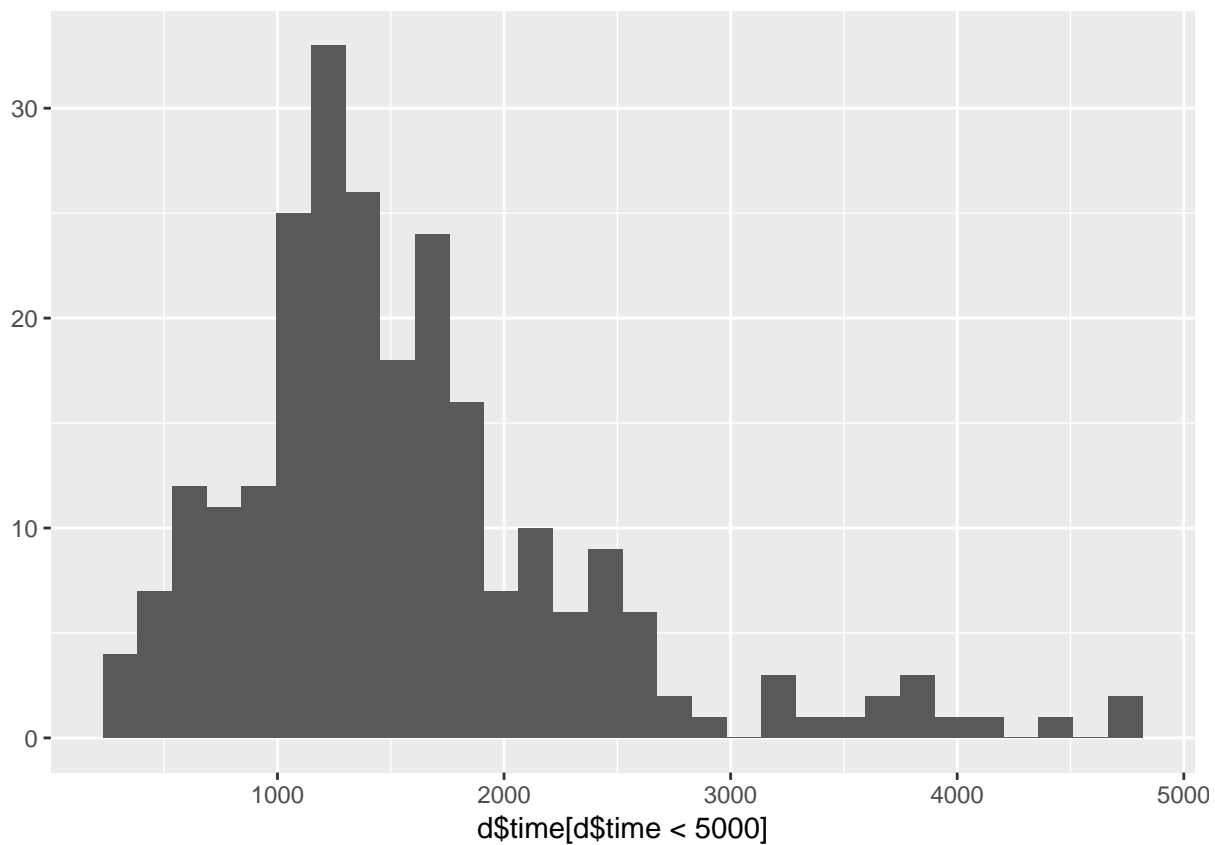
Shows that most people answered all questions. There were 15 empty data sets, and some with more than 50% missing data. These were deleted. In the final sample, there was 0.004 missing data.

Response time

Inspect how long it took respondents to answer the questionnaire.



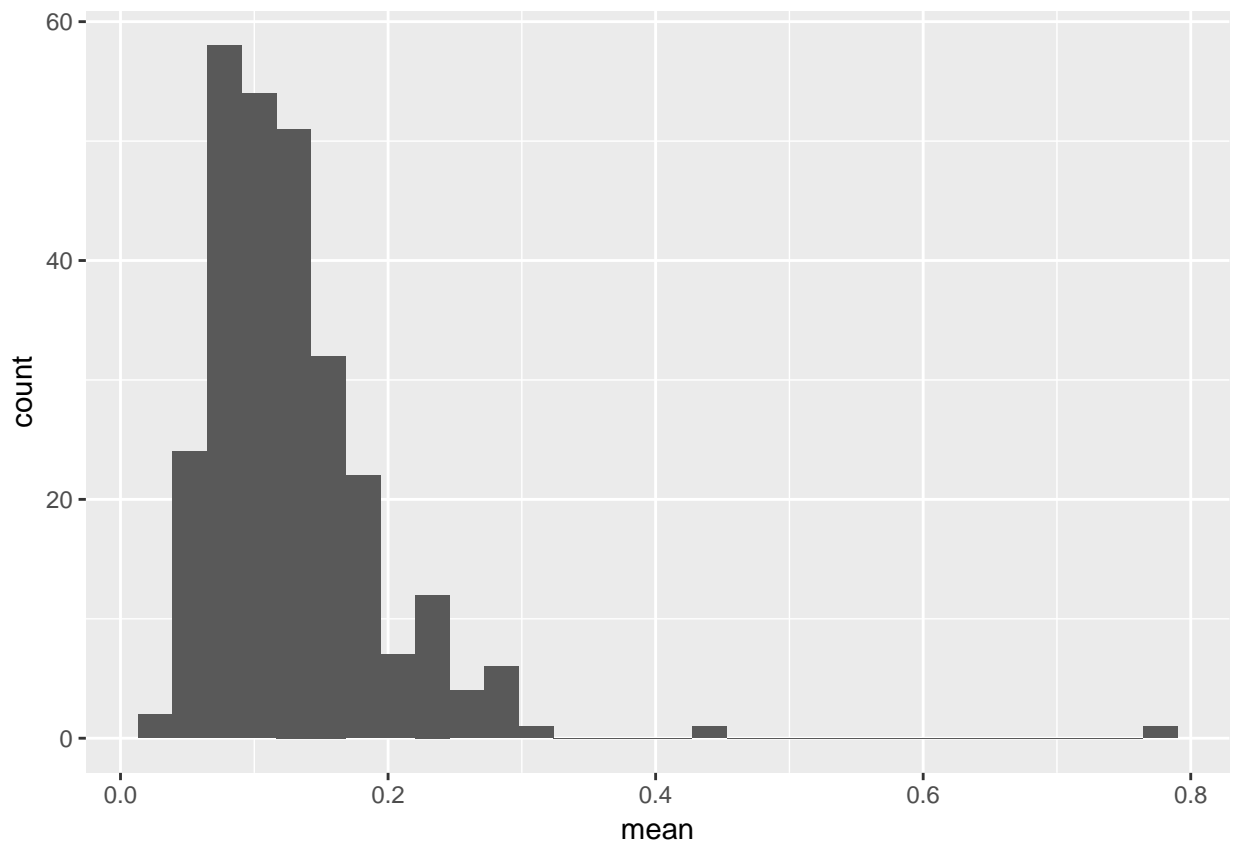
Shows that some participants took very long to answer. Inspect regular times.



Distribution looks okay (no early peak). Also no answers faster than 5 mins. No respondents will be excluded.

Response patterns

We inspect response patterns using the Guttman criterion. Cases with most extreme values will be excluded.



Only few participants seem to have particularly atypical data. Will filter respondents with $m > .30$. Inspect those cases to see whether they indeed show irregular response patterns.

```

##      id male age inc time pri_nee_gen_1 pri_nee_gen_2 pri_nee_gen_3 pri_nee_gen_4
## 1 128    1  19   2  458                1                1                7                7
## 2 240    1  19   1  351                7                7                7                7
##      pri_nee_soc_1 pri_nee_soc_2 pri_nee_soc_3 pri_nee_soc_4 pri_nee_soc_5 pri_nee_soc_6
## 1                1                1                1                1                1
## 2                7                7                7                7                7
##      pri_nee_soc_7 pri_nee_soc_8 pri_nee_soc_9 pri_nee_int_1 pri_nee_int_2 pri_nee_int_3
## 1                1                1                1                7                1                1
## 2                7                7                7                7                1                1
##      pri_nee_int_4 pri_nee_int_5 pri_nee_int_6 pri_nee_int_7 pri_nee_int_8 pri_nee_int_9
## 1                1                7                1                1                7                1
## 2                1                7                1                1                7                1
##      soc_1 soc_2 soc_3 soc_4 soc_5 soc_6 soc_7 soc_8 itg_1 itg_2 itg_3 itg_4 itg_5 itg_6
## 1        1    7    7    1    7    7    7    7    7    7    1    1    7    7
## 2        4    4    4    4    4    4    4    4    6    5    2    3    7    6
##      itg_7 itg_8 itg_9 itg_10 itg_11 anx_1 anx_2 anx_3 anx_4 anx_5 anx_6 anx_7 anx_8 ria_1
## 1        7    7    7    7    7    7    1    7    1    7    1    7    1    7
## 2        6    5    7    6    7    6    2    6    2    6    2    6    2    6
##      ria_2 ria_3 ria_4 ria_5 ria_6 ria_7 ria_8 tra_1 tra_2 tra_3 tra_4 tra_5 tra_6 tra_7
## 1        1    7    1    7    1    1    1    1    7    1    7    1    7    1
## 2        2    6    2    6    2    2    2    2    6    1    7    3    6    2
##      tra_8 miss_per guttman
## 1        1        0    0.788
## 2        2        0    0.442

```

The cases indeed show extreme response patterns. Also, several inverted variables were not recognized (e.g., pri_nee_int_1, pri_nee_int_5, pri_nee_int_8, itg_1, itg_2, itg_5, itg_6, itg_7, itg_8, itg_9, itg_10, itg_11, soc_1, soc_3, soc_5, soc_7, anx_1, anx_3, anx_5, anx_7, ria_1, ria_3, ria_5, tra_2, tra_4, tra_6). These respondents will be deleted.

Power analyses

Estimate achieved power for small effects.

```
##
##      approximate correlation power calculation (arctangh transformation)
##
##          n = 273
##          r = 0.1
##      sig.level = 0.05
##          power = 0.379
##      alternative = two.sided
```

Estimate achieved power for small to moderate effects.

```
##
##      approximate correlation power calculation (arctangh transformation)
##
##          n = 273
##          r = 0.2
##      sig.level = 0.05
##          power = 0.916
##      alternative = two.sided
```

Estimate the size of effects that we were able to find with a probability of 95%.

```
##
##      approximate correlation power calculation (arctangh transformation)
##
##          n = 273
##          r = 0.216
##      sig.level = 0.05
##          power = 0.95
##      alternative = two.sided
```

Estimate the sample size needed to find small effects with a probability of 95%.

```
##
##      approximate correlation power calculation (arctangh transformation)
##
##          n = 1293
##          r = 0.1
##      sig.level = 0.05
##          power = 0.95
##      alternative = two.sided
```

Multivariate normal distribution

We test for the assumption of multivariate normal distribution by running Mardia's test.

##		Test Statistic	p value	Result
## 1	Mardia Skewness	61296.1	6.45e-239	NO
## 2	Mardia Kurtosis	24.7	0.00e+00	NO

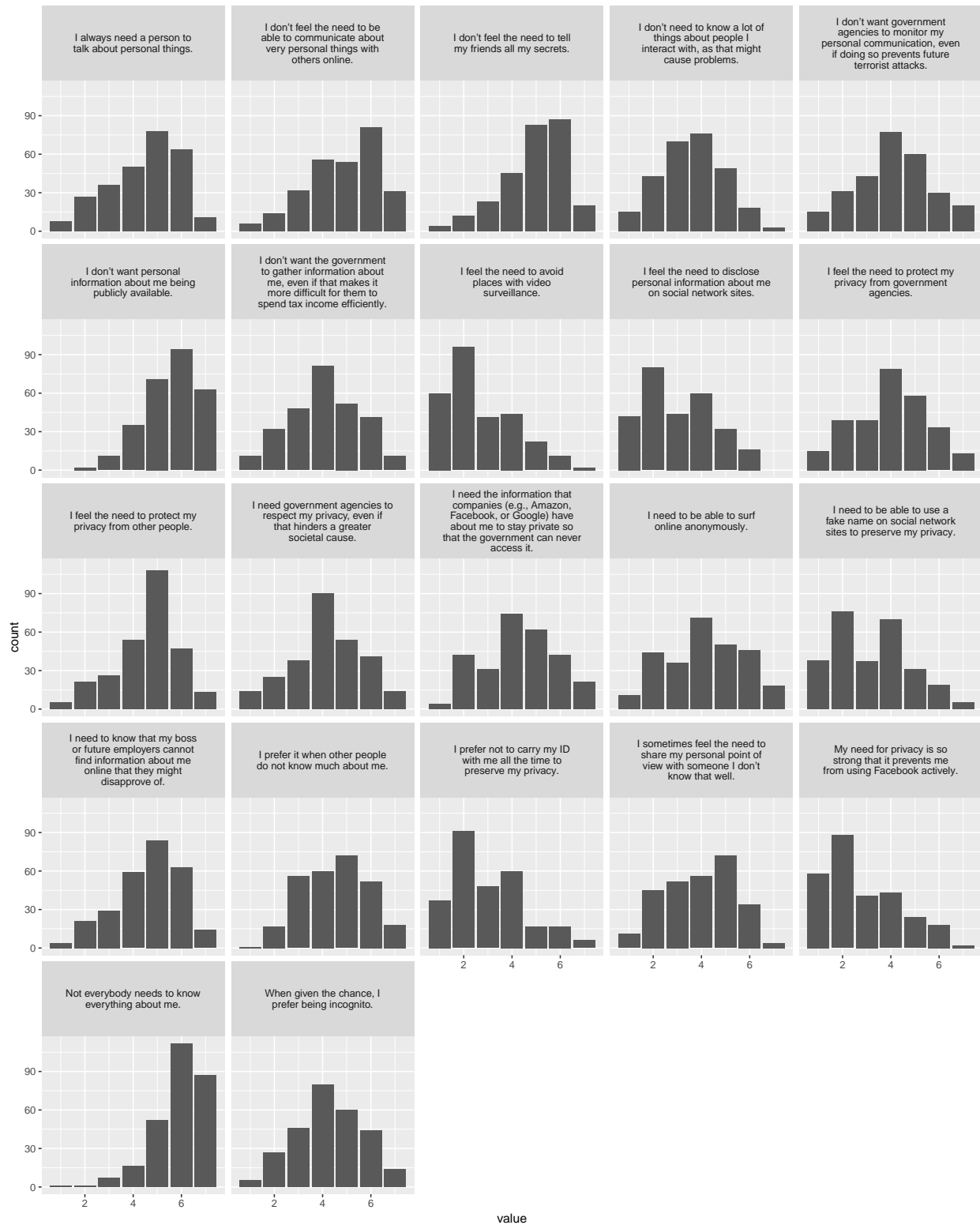
Shows that the assumptions of multivariate normal distribution was violated. Will hence use robust estimator in the following analyses.

Measures

In what follows, we present the measures we used. Specifically, we present each item's distribution and a confirmatory factor analysis (CFA) of the original scale. If the scale did not show sufficient fit, we first ran exploratory factor analyses (EFA) to better determine the underlying factor structure. In an iterative process, we then adapted the scales (e.g., by introducing subdimensions, trying bifactor solutions, or deleting items).

Need for Privacy

Items



CFA 1

We first analyze all dimensions separately to see how they do individually and as specified theoretically a priori. The general aim is, of course, to find the general structure of the items when analyzed together.

Informational Privacy

```
## lavaan 0.6-3 ended normally after 22 iterations
##
## Optimization method          NLMINB
## Number of free parameters      8
##
## Number of observations        273
##
## Estimator                     ML      Robust
## Model Fit Test Statistic      23.261  17.543
## Degrees of freedom            2       2
## P-value (Chi-square)          0.000    0.000
## Scaling correction factor      1.326
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 184.045 151.709
## Degrees of freedom              6       6
## P-value                         0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.881    0.893
## Tucker-Lewis Index (TLI)        0.642    0.680
##
## Robust Comparative Fit Index (CFI)      0.883
## Robust Tucker-Lewis Index (TLI)        0.650
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)      -1682.729 -1682.729
## Loglikelihood unrestricted model (H1) -1671.099 -1671.099
##
## Number of free parameters          8       8
## Akaike (AIC)                      3381.459  3381.459
## Bayesian (BIC)                     3410.335  3410.335
## Sample-size adjusted Bayesian (BIC)  3384.969  3384.969
##
## Root Mean Square Error of Approximation:
##
## RMSEA                            0.197    0.169
## 90 Percent Confidence Interval      0.130  0.273    0.110  0.235
## P-value RMSEA <= 0.05              0.000    0.001
##
## Robust RMSEA                      0.194
## 90 Percent Confidence Interval      0.118  0.282
```

```

## Standardized Root Mean Square Residual:
##
##   SRMR                      0.062          0.062
##
## Parameter Estimates:
##
##   Information                      Expected
##   Information saturated (h1) model    Structured
##   Standard Errors                    Robust.sem
##
## Latent Variables:
##
##           Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
## pri_nee_gen =~
##   pri_nee_gen_1      1.000
##   pri_nee_gen_2      0.914    0.140    6.510    0.000    0.943    0.707
##   pri_nee_gen_3      0.631    0.095    6.648    0.000    0.595    0.527
##   pri_nee_gen_4      0.558    0.096    5.807    0.000    0.526    0.500
##
## Variances:
##
##           Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##   .pri_nee_gen_1      0.892    0.164    5.431    0.000    0.892    0.501
##   .pri_nee_gen_2      1.165    0.165    7.066    0.000    1.165    0.610
##   .pri_nee_gen_3      0.919    0.094    9.745    0.000    0.919    0.722
##   .pri_nee_gen_4      0.829    0.099    8.341    0.000    0.829    0.750
##   pri_nee_gen         0.889    0.177    5.019    0.000    1.000    1.000

```

Does not show adequate fit.

Government

```
## lavaan 0.6-3 ended normally after 23 iterations
##
## Optimization method          NLMINB
## Number of free parameters    12
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     16.155  12.921
## Degrees of freedom           9       9
## P-value (Chi-square)         0.064   0.166
## Scaling correction factor     1.250
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 725.827 576.462
## Degrees of freedom             15      15
## P-value                        0.000   0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)     0.990   0.993
## Tucker-Lewis Index (TLI)       0.983   0.988
##
## Robust Comparative Fit Index (CFI) 0.993
## Robust Tucker-Lewis Index (TLI) 0.988
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)    -2635.744 -2635.744
## Loglikelihood unrestricted model (H1) -2627.666 -2627.666
##
## Number of free parameters        12      12
## Akaike (AIC)                     5295.488 5295.488
## Bayesian (BIC)                   5338.802 5338.802
## Sample-size adjusted Bayesian (BIC) 5300.753 5300.753
##
## Root Mean Square Error of Approximation:
##
## RMSEA                           0.054   0.040
## 90 Percent Confidence Interval    0.000 0.096 0.000 0.080
## P-value RMSEA <= 0.05            0.388   0.609
##
## Robust RMSEA                     0.045
## 90 Percent Confidence Interval    0.000 0.095
##
## Standardized Root Mean Square Residual:
##
## SRMR                            0.024   0.024
##
## Parameter Estimates:
```

```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gov =~
## pri_nee_soc_1 1.000 1.115 0.764
## pri_nee_soc_2 0.950 0.094 10.055 0.000 1.059 0.707
## pri_nee_soc_3 0.977 0.085 11.490 0.000 1.089 0.754
## pri_nee_soc_4 1.119 0.081 13.730 0.000 1.247 0.814
## pri_nee_soc_5 0.882 0.088 9.966 0.000 0.983 0.623
## pri_nee_soc_9 0.977 0.086 11.345 0.000 1.089 0.724
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_soc_1 0.887 0.097 9.175 0.000 0.887 0.416
## .pri_nee_soc_2 1.119 0.170 6.589 0.000 1.119 0.499
## .pri_nee_soc_3 0.902 0.129 6.994 0.000 0.902 0.432
## .pri_nee_soc_4 0.791 0.110 7.170 0.000 0.791 0.337
## .pri_nee_soc_5 1.525 0.151 10.068 0.000 1.525 0.612
## .pri_nee_soc_9 1.078 0.110 9.780 0.000 1.078 0.476
## pri_nee_gov 1.243 0.176 7.068 0.000 1.000 1.000

```

Shows good fit, can be used individually for future research.

Anonymity

```
## lavaan 0.6-3 ended normally after 33 iterations
##
## Optimization method          NLMINB
## Number of free parameters      8
##
## Number of observations          273
##
## Estimator              ML      Robust
## Model Fit Test Statistic    11.179    9.225
## Degrees of freedom          2        2
## P-value (Chi-square)        0.004    0.010
## Scaling correction factor    1.212
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic    173.863    156.865
## Degrees of freedom          6        6
## P-value          0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)          0.945    0.952
## Tucker-Lewis Index (TLI)            0.836    0.856
##
## Robust Comparative Fit Index (CFI)          0.948
## Robust Tucker-Lewis Index (TLI)            0.843
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)          -1909.282    -1909.282
## Loglikelihood unrestricted model (H1)    -1903.692    -1903.692
##
## Number of free parameters              8        8
## Akaike (AIC)          3834.564    3834.564
## Bayesian (BIC)          3863.440    3863.440
## Sample-size adjusted Bayesian (BIC)    3838.074    3838.074
##
## Root Mean Square Error of Approximation:
##
## RMSEA          0.130    0.115
## 90 Percent Confidence Interval    0.063    0.208    0.053    0.187
## P-value RMSEA <= 0.05          0.027    0.043
##
## Robust RMSEA          0.127
## 90 Percent Confidence Interval    0.053    0.214
##
## Standardized Root Mean Square Residual:
##
## SRMR          0.045    0.045
##
## Parameter Estimates:
```

```

##
##      Information                               Expected
##      Information saturated (h1) model          Structured
##      Standard Errors                          Robust.sem
##
## Latent Variables:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      pri_nee_ano =~
##      pri_nee_soc_5      1.000
##      pri_nee_soc_6      1.272    0.219    5.810    0.000    0.677    0.429
##      pri_nee_soc_7      1.630    0.284    5.736    0.000    1.103    0.779
##      pri_nee_soc_8      1.234    0.231    5.340    0.000    0.835    0.566
##
## Variances:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      .pri_nee_soc_5      2.032    0.159   12.744    0.000    2.032    0.816
##      .pri_nee_soc_6      1.582    0.183    8.636    0.000    1.582    0.681
##      .pri_nee_soc_7      0.791    0.206    3.835    0.000    0.791    0.394
##      .pri_nee_soc_8      1.482    0.207    7.143    0.000    1.482    0.680
##      pri_nee_ano         0.458    0.133    3.446    0.001    1.000    1.000

```

Shows moderate fit.

Interpersonal online

```
## lavaan 0.6-3 ended normally after 83 iterations
##
## Optimization method          NLMINB
## Number of free parameters    10
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     41.600  39.815
## Degrees of freedom           5       5
## P-value (Chi-square)         0.000   0.000
## Scaling correction factor    1.045
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 109.731 100.419
## Degrees of freedom             10      10
## P-value                        0.000   0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)     0.633   0.615
## Tucker-Lewis Index (TLI)       0.266   0.230
##
## Robust Comparative Fit Index (CFI) 0.632
## Robust Tucker-Lewis Index (TLI) 0.264
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)    -2374.145 -2374.145
## Loglikelihood unrestricted model (H1) -2353.345 -2353.345
##
## Number of free parameters        10      10
## Akaike (AIC)                    4768.290  4768.290
## Bayesian (BIC)                  4804.385  4804.385
## Sample-size adjusted Bayesian (BIC) 4772.677  4772.677
##
## Root Mean Square Error of Approximation:
##
## RMSEA                          0.164   0.160
## 90 Percent Confidence Interval    0.120  0.211  0.117  0.206
## P-value RMSEA <= 0.05           0.000   0.000
##
## Robust RMSEA                    0.163
## 90 Percent Confidence Interval    0.118  0.212
##
## Standardized Root Mean Square Residual:
##
## SRMR                          0.090   0.090
##
## Parameter Estimates:
```

```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_int_onl =~
## pri_nee_int_1 1.000 0.102 0.070
## pri_nee_int_2 -5.086 5.309 -0.958 0.338 -0.520 -0.340
## pri_nee_int_3 -4.220 4.859 -0.868 0.385 -0.431 -0.297
## pri_nee_int_4 -4.752 5.230 -0.909 0.363 -0.486 -0.365
## pri_nee_int_9 -10.584 11.941 -0.886 0.375 -1.082 -0.830
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_int_1 2.119 0.130 16.252 0.000 2.119 0.995
## .pri_nee_int_2 2.067 0.156 13.262 0.000 2.067 0.884
## .pri_nee_int_3 1.917 0.152 12.646 0.000 1.917 0.912
## .pri_nee_int_4 1.540 0.146 10.540 0.000 1.540 0.867
## .pri_nee_int_9 0.529 0.344 1.539 0.124 0.529 0.311
## pri_nee_int_n1 0.010 0.023 0.458 0.647 1.000 1.000

```

Shows poor fit.

Interpersonal offline

```
## lavaan 0.6-3 ended normally after 59 iterations
##
## Optimization method          NLMINB
## Number of free parameters    10
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     14.729  12.018
## Degrees of freedom           5       5
## P-value (Chi-square)         0.012   0.035
## Scaling correction factor     1.226
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic  63.063  52.699
## Degrees of freedom               10      10
## P-value                          0.000   0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.817   0.836
## Tucker-Lewis Index (TLI)        0.633   0.671
##
## Robust Comparative Fit Index (CFI)      0.832
## Robust Tucker-Lewis Index (TLI)        0.663
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)      -2324.018  -2324.018
## Loglikelihood unrestricted model (H1) -2316.653  -2316.653
##
## Number of free parameters          10      10
## Akaike (AIC)                      4668.035  4668.035
## Bayesian (BIC)                    4704.130  4704.130
## Sample-size adjusted Bayesian (BIC) 4672.422  4672.422
##
## Root Mean Square Error of Approximation:
##
## RMSEA                            0.084   0.072
## 90 Percent Confidence Interval    0.036  0.136  0.024  0.119
## P-value RMSEA <= 0.05            0.106   0.188
##
## Robust RMSEA                      0.079
## 90 Percent Confidence Interval    0.020  0.138
##
## Standardized Root Mean Square Residual:
##
## SRMR                            0.055   0.055
##
## Parameter Estimates:
```

```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_int_off =~
## pri_nee_int_5 1.000 0.240 0.166
## pri_nee_int_6 1.872 1.109 1.688 0.091 0.449 0.342
## pri_nee_int_7 3.433 1.994 1.721 0.085 0.823 0.643
## pri_nee_int_8 -0.030 0.533 -0.057 0.955 -0.007 -0.005
## pri_nee_int_9 2.626 1.399 1.877 0.060 0.630 0.483
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_int_5 2.024 0.150 13.469 0.000 2.024 0.972
## .pri_nee_int_6 1.520 0.146 10.405 0.000 1.520 0.883
## .pri_nee_int_7 0.961 0.247 3.884 0.000 0.961 0.586
## .pri_nee_int_8 2.040 0.131 15.615 0.000 2.040 1.000
## .pri_nee_int_9 1.303 0.192 6.785 0.000 1.303 0.767
## pri_nee_int_ff 0.058 0.061 0.946 0.344 1.000 1.000

```

Does not show adequate fit.

Combined

```
## lavaan 0.6-3 did NOT end normally after 1219 iterations
## ** WARNING ** Estimates below are most likely unreliable
##
## Optimization method          NLMINB
## Number of free parameters    56
##
## Number of observations       273
##
## Estimator                    ML
## Model Fit Test Statistic     NA
## Degrees of freedom           NA
## P-value                      NA
##
## Parameter Estimates:
##
## Information                  Expected
## Information saturated (h1) model Structured
## Standard Errors              Robust.sem
##
## Latent Variables:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gen =~
##   pri_nee_gen_1      1.000          1.077    0.807
##   pri_nee_gen_2      0.740          NA    0.797    0.577
##   pri_nee_gen_3      0.494          NA    0.532    0.472
##   pri_nee_gen_4      0.440          NA    0.474    0.450
## pri_nee_gov =~
##   pri_nee_soc_1      1.000          1.093    0.749
##   pri_nee_soc_2      0.986          NA    1.078    0.720
##   pri_nee_soc_3      1.010          NA    1.105    0.764
##   pri_nee_soc_4      1.116          NA    1.220    0.797
##   pri_nee_soc_5      0.897          NA    0.981    0.621
##   pri_nee_soc_9      1.016          NA    1.110    0.738
## pri_nee_ano =~
##   pri_nee_soc_5      1.000          0.000    0.000
##   pri_nee_soc_6     5456.577          NA    0.957    0.628
##   pri_nee_soc_7     5698.535          NA    0.999    0.705
##   pri_nee_soc_8     4848.096          NA    0.850    0.576
## pri_nee_int_onl =~
##   pri_nee_int_1      1.000          0.286    0.196
##   pri_nee_int_2     -2.751          NA   -0.787   -0.514
##   pri_nee_int_3     -1.112          NA   -0.318   -0.219
##   pri_nee_int_4     -1.583          NA   -0.453   -0.340
##   pri_nee_int_9     -0.907          NA   -0.260   -0.199
## pri_nee_int_off =~
##   pri_nee_int_5      1.000          0.202    0.140
##   pri_nee_int_6      2.606          NA    0.527    0.402
##   pri_nee_int_7      3.143          NA    0.636    0.497
##   pri_nee_int_8     -0.068          NA   -0.014   -0.010
##   pri_nee_int_9      2.384          NA    0.482    0.370
##
## Covariances:
```

```

##               Estimate Std.Err  z-value  P(>|z|)   Std.lv  Std.all
## pri_nee_gen ~~
##   pri_nee_gov      0.387      NA          0.328    0.328
##   pri_nee_ano      0.000      NA          0.259    0.259
##   pri_nee_int_nl   -0.209      NA         -0.679   -0.679
##   pri_nee_int_ff    0.189      NA          0.866    0.866
## pri_nee_gov ~~
##   pri_nee_ano      0.000      NA          0.711    0.711
##   pri_nee_int_nl   -0.242      NA         -0.773   -0.773
##   pri_nee_int_ff    0.090      NA          0.408    0.408
## pri_nee_ano ~~
##   pri_nee_int_nl   -0.000      NA         -0.829   -0.829
##   pri_nee_int_ff    0.000      NA          0.297    0.297
## pri_nee_int_onl ~~
##   pri_nee_int_ff   -0.061      NA         -1.061   -1.061
##
## Variances:
##               Estimate Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##   .pri_nee_gen_1    0.621      NA          0.621    0.349
##   .pri_nee_gen_2    1.272      NA          1.272    0.667
##   .pri_nee_gen_3    0.989      NA          0.989    0.777
##   .pri_nee_gen_4    0.882      NA          0.882    0.797
##   .pri_nee_soc_1    0.935      NA          0.935    0.439
##   .pri_nee_soc_2    1.077      NA          1.077    0.481
##   .pri_nee_soc_3    0.869      NA          0.869    0.416
##   .pri_nee_soc_4    0.858      NA          0.858    0.366
##   .pri_nee_soc_5    1.529      NA          1.529    0.614
##   .pri_nee_soc_9    1.031      NA          1.031    0.455
##   .pri_nee_soc_6    1.405      NA          1.405    0.605
##   .pri_nee_soc_7    1.011      NA          1.011    0.503
##   .pri_nee_soc_8    1.457      NA          1.457    0.668
##   .pri_nee_int_1    2.047      NA          2.047    0.962
##   .pri_nee_int_2    1.719      NA          1.719    0.735
##   .pri_nee_int_3    2.002      NA          2.002    0.952
##   .pri_nee_int_4    1.571      NA          1.571    0.885
##   .pri_nee_int_9    1.134      NA          1.134    0.667
##   .pri_nee_int_5    2.040      NA          2.040    0.980
##   .pri_nee_int_6    1.443      NA          1.443    0.839
##   .pri_nee_int_7    1.234      NA          1.234    0.753
##   .pri_nee_int_8    2.040      NA          2.040    1.000
##   pri_nee_gen      1.160      NA          1.000    1.000
##   pri_nee_gov      1.195      NA          1.000    1.000
##   pri_nee_ano      0.000      NA          1.000    1.000
##   pri_nee_int_nl    0.082      NA          1.000    1.000
##   pri_nee_int_ff    0.041      NA          1.000    1.000

```

The combined scale does not converge. Will need to be adapted thoroughly.

EFA 1

In what follows, we now try to find what items need to be selected in order to attain a measure of need for privacy that includes as many items as possible.

Kaiser-Meyer-Olkin criterion

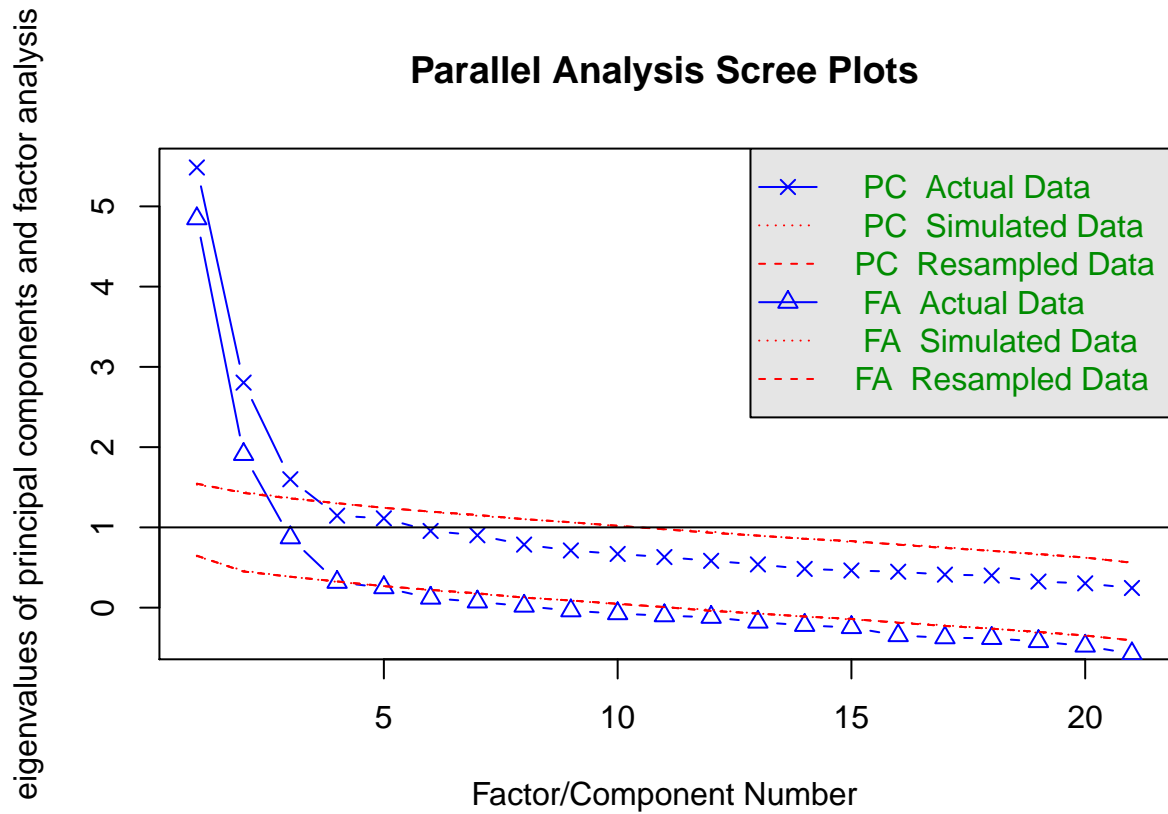
The Kaiser-Meyer-Olkin criterion measures the extent to which items are suitable for being combined as a single factor.

```
## Kaiser-Meyer-Olkin factor adequacy
## Call: KMO(r = d_tmp)
## Overall MSA = 0.84
## MSA for each item =
## pri_nee_gen_1 pri_nee_gen_2 pri_nee_gen_3 pri_nee_gen_4 pri_nee_soc_1 pri_nee_soc_2
##          0.79          0.80          0.71          0.68          0.87          0.90
## pri_nee_soc_3 pri_nee_soc_4 pri_nee_soc_5 pri_nee_soc_6 pri_nee_soc_7 pri_nee_soc_8
##          0.89          0.86          0.90          0.92          0.84          0.84
## pri_nee_soc_9 pri_nee_int_1 pri_nee_int_2 pri_nee_int_3 pri_nee_int_4 pri_nee_int_5
##          0.93          0.81          0.89          0.69          0.78          0.54
## pri_nee_int_6 pri_nee_int_7 pri_nee_int_8 pri_nee_int_9
##          0.82          0.81          0.71          0.78
```

On the basis of the KMO, the following items should (and will) be excluded: pri_nee_gen_4, pri_nee_int_3, pri_nee_int_5.

Parallel analysis

Next, we run a parallel analysis to determine the underlying structure.



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

Factor analysis 1

```
##
## Loadings:
##           MR1      MR2      MR3
## pri_nee_gen_1      0.760  0.138
## pri_nee_gen_2      0.460
## pri_nee_gen_3  0.153  0.483 -0.330
## pri_nee_gen_4      0.433 -0.350
## pri_nee_soc_1  0.784
## pri_nee_soc_2  0.662  0.102
## pri_nee_soc_3  0.729  0.109
## pri_nee_soc_4  0.812
## pri_nee_soc_5  0.634
## pri_nee_soc_6  0.260  0.119  0.424
## pri_nee_soc_7  0.272      0.614
## pri_nee_soc_8  0.102  0.175  0.510
## pri_nee_soc_9  0.691      0.115
## pri_nee_int_1      0.125 -0.565
## pri_nee_int_2  0.104  0.354  0.376
## pri_nee_int_3      0.410 -0.290
## pri_nee_int_4  0.185  0.288
## pri_nee_int_6 -0.102  0.391  0.393
## pri_nee_int_7      0.545 -0.118
## pri_nee_int_8 -0.102      -0.283
## pri_nee_int_9  0.257  0.434
##
##           MR1      MR2      MR3
## SS loadings    3.448  2.324  1.884
## Proportion Var 0.164  0.111  0.090
## Cumulative Var 0.164  0.275  0.365
```

Three latent factors emerge:

- factor 1 measures need for privacy from the government (vertical)
- factor 2 measures need for privacy from other people (horizontal)
- factor 3 can be described as desire for anonymity (combined)

The following items will be excluded:

- Communalities reveal that item itg_4 and itg_8 don't load sufficiently strong on latent factors.
- Item itg_1 only loads negative on factor 3 – little positive contribution.

The following items show double-loadings:

- BOT_3, BOT_4, itg_2, itg_6. Will be difficult to decide whether to maintain or delete.

Run novel factor analysis.

Factor analysis 2

```
##
## Loadings:
##           MR1      MR2      MR3
## pri_nee_gen_1      0.774  0.147
## pri_nee_gen_2      0.465
## pri_nee_gen_3  0.154  0.469 -0.367
## pri_nee_gen_4      0.442 -0.427
## pri_nee_soc_1  0.782
## pri_nee_soc_2  0.666
## pri_nee_soc_3  0.733
## pri_nee_soc_4  0.808
## pri_nee_soc_5  0.642
## pri_nee_soc_6  0.294  0.111  0.391
## pri_nee_soc_7  0.312      0.596
## pri_nee_soc_8  0.140  0.176  0.481
## pri_nee_soc_9  0.712
## pri_nee_int_2  0.136  0.362  0.350
## pri_nee_int_3      0.402 -0.240
## pri_nee_int_6      0.393  0.388
## pri_nee_int_7      0.533 -0.121
## pri_nee_int_9  0.284  0.415
##
##           MR1      MR2      MR3
## SS loadings    3.511  2.208  1.449
## Proportion Var 0.195  0.123  0.080
## Cumulative Var 0.195  0.318  0.398
```

Looks better. Will now be tested in CFA.

CFA 2

```
## lavaan 0.6-3 ended normally after 38 iterations
##
## Optimization method          NLMINB
## Number of free parameters    41
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     372.177  326.636
## Degrees of freedom           130      130
## P-value (Chi-square)         0.000    0.000
## Scaling correction factor     1.139
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 1739.283 1543.938
## Degrees of freedom             153      153
## P-value                        0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)     0.847    0.859
## Tucker-Lewis Index (TLI)       0.820    0.834
##
## Robust Comparative Fit Index (CFI) 0.857
## Robust Tucker-Lewis Index (TLI) 0.832
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)    -7917.003 -7917.003
## Loglikelihood unrestricted model (H1) -7730.915 -7730.915
##
## Number of free parameters        41      41
## Akaike (AIC)                    15916.006 15916.006
## Bayesian (BIC)                   16063.995 16063.995
## Sample-size adjusted Bayesian (BIC) 15933.994 15933.994
##
## Root Mean Square Error of Approximation:
##
## RMSEA                          0.083    0.074
## 90 Percent Confidence Interval 0.073 0.093 0.065 0.084
## P-value RMSEA <= 0.05         0.000    0.000
##
## Robust RMSEA                    0.079
## 90 Percent Confidence Interval 0.069 0.090
##
## Standardized Root Mean Square Residual:
##
## SRMR                          0.082    0.082
##
## Parameter Estimates:
```

```

##
## Information
## Information saturated (h1) model Expected
## Standard Errors Structured
## Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gov =~
## pri_nee_soc_1 1.000 1.095 0.750
## pri_nee_soc_2 0.986 0.091 10.776 0.000 1.079 0.721
## pri_nee_soc_3 1.005 0.085 11.852 0.000 1.100 0.761
## pri_nee_soc_4 1.120 0.082 13.615 0.000 1.227 0.801
## pri_nee_soc_5 0.895 0.088 10.197 0.000 0.980 0.621
## pri_nee_soc_9 1.010 0.087 11.544 0.000 1.105 0.735
## pri_nee_int =~
## pri_nee_gen_1 1.000 0.954 0.715
## pri_nee_gen_2 0.756 0.103 7.330 0.000 0.721 0.522
## pri_nee_gen_3 0.637 0.077 8.323 0.000 0.608 0.539
## pri_nee_gen_4 0.526 0.078 6.731 0.000 0.502 0.477
## pri_nee_int_2 0.461 0.127 3.626 0.000 0.440 0.288
## pri_nee_int_3 0.652 0.103 6.346 0.000 0.622 0.429
## pri_nee_int_6 0.352 0.102 3.443 0.001 0.336 0.256
## pri_nee_int_7 0.714 0.090 7.906 0.000 0.681 0.532
## pri_nee_int_9 0.709 0.088 8.079 0.000 0.677 0.519
## pri_nee_ano =~
## pri_nee_soc_6 1.000 0.921 0.604
## pri_nee_soc_7 1.155 0.139 8.324 0.000 1.063 0.750
## pri_nee_soc_8 0.921 0.122 7.541 0.000 0.848 0.574
## pri_nee_int_2 0.753 0.121 6.206 0.000 0.693 0.453
## pri_nee_int_6 0.418 0.096 4.353 0.000 0.385 0.293
##
## Covariances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gov ~~
## pri_nee_int 0.365 0.085 4.272 0.000 0.349 0.349
## pri_nee_ano 0.678 0.103 6.583 0.000 0.673 0.673
## pri_nee_int ~~
## pri_nee_ano 0.137 0.077 1.777 0.076 0.156 0.156
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_soc_1 0.931 0.094 9.950 0.000 0.931 0.437
## .pri_nee_soc_2 1.074 0.155 6.924 0.000 1.074 0.480
## .pri_nee_soc_3 0.878 0.122 7.209 0.000 0.878 0.420
## .pri_nee_soc_4 0.842 0.110 7.672 0.000 0.842 0.359
## .pri_nee_soc_5 1.530 0.150 10.185 0.000 1.530 0.614
## .pri_nee_soc_9 1.042 0.109 9.559 0.000 1.042 0.460
## .pri_nee_gen_1 0.871 0.111 7.846 0.000 0.871 0.489
## .pri_nee_gen_2 1.388 0.140 9.918 0.000 1.388 0.728
## .pri_nee_gen_3 0.903 0.090 10.047 0.000 0.903 0.710
## .pri_nee_gen_4 0.854 0.102 8.395 0.000 0.854 0.772
## .pri_nee_int_2 1.569 0.147 10.676 0.000 1.569 0.671
## .pri_nee_int_3 1.716 0.146 11.792 0.000 1.716 0.816
## .pri_nee_int_6 1.420 0.122 11.605 0.000 1.420 0.825

```

##	.pri_nee_int_7	1.174	0.123	9.551	0.000	1.174	0.717
##	.pri_nee_int_9	1.242	0.140	8.893	0.000	1.242	0.731
##	.pri_nee_soc_6	1.475	0.168	8.773	0.000	1.475	0.635
##	.pri_nee_soc_7	0.878	0.135	6.479	0.000	0.878	0.437
##	.pri_nee_soc_8	1.460	0.178	8.203	0.000	1.460	0.670
##	pri_nee_gov	1.199	0.171	7.009	0.000	1.000	1.000
##	pri_nee_int	0.910	0.137	6.663	0.000	1.000	1.000
##	pri_nee_ano	0.848	0.174	4.859	0.000	1.000	1.000

Does not yield good results. Inspect modification indices.

##		lhs	op	rhs	mi	epc	sepc.lv	sepc.all	sepc.nox
## 75		pri_nee_ano	=~	pri_nee_gen_4	33.1	-0.430	-0.396	-0.377	-0.377
## 72		pri_nee_ano	=~	pri_nee_gen_1	20.6	0.404	0.372	0.279	0.279
## 166		pri_nee_gen_1	~~	pri_nee_gen_2	20.3	0.419	0.419	0.381	0.381
## 190		pri_nee_gen_3	~~	pri_nee_int_6	20.0	-0.336	-0.336	-0.297	-0.297
## 215		pri_nee_int_3	~~	pri_nee_soc_7	16.9	-0.374	-0.374	-0.305	-0.305
## 53		pri_nee_gov	=~	pri_nee_int_9	16.5	0.311	0.340	0.261	0.261
## 187		pri_nee_gen_3	~~	pri_nee_gen_4	14.7	0.233	0.233	0.265	0.265
## 162		pri_nee_soc_9	~~	pri_nee_int_9	12.3	0.270	0.270	0.238	0.238
## 175		pri_nee_gen_1	~~	pri_nee_soc_7	10.3	0.237	0.237	0.271	0.271
## 182		pri_nee_gen_2	~~	pri_nee_int_7	10.3	-0.288	-0.288	-0.226	-0.226
## 48		pri_nee_gov	=~	pri_nee_gen_4	10.2	-0.200	-0.219	-0.208	-0.208
## 167		pri_nee_gen_1	~~	pri_nee_gen_3	10.2	-0.243	-0.243	-0.274	-0.274

As expected, items BOT_2, BOT_3, & BOT_4 cause trouble. Will be deleted.

CFA 3

```
## lavaan 0.6-3 ended normally after 43 iterations
##
## Optimization method NLMINB
## Number of free parameters 35
##
## Number of observations 273
##
## Estimator ML Robust
## Model Fit Test Statistic 202.956 171.404
## Degrees of freedom 85 85
## P-value (Chi-square) 0.000 0.000
## Scaling correction factor 1.184
## for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 1415.306 1223.769
## Degrees of freedom 105 105
## P-value 0.000 0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI) 0.910 0.923
## Tucker-Lewis Index (TLI) 0.889 0.905
##
## Robust Comparative Fit Index (CFI) 0.921
## Robust Tucker-Lewis Index (TLI) 0.902
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0) -6697.423 -6697.423
## Loglikelihood unrestricted model (H1) -6595.944 -6595.944
##
## Number of free parameters 35 35
## Akaike (AIC) 13464.845 13464.845
## Bayesian (BIC) 13591.177 13591.177
## Sample-size adjusted Bayesian (BIC) 13480.200 13480.200
##
## Root Mean Square Error of Approximation:
##
## RMSEA 0.071 0.061
## 90 Percent Confidence Interval 0.059 0.084 0.049 0.073
## P-value RMSEA <= 0.05 0.003 0.067
##
## Robust RMSEA 0.066
## 90 Percent Confidence Interval 0.052 0.081
##
## Standardized Root Mean Square Residual:
##
## SRMR 0.070 0.070
##
## Parameter Estimates:
```



```

##
## Information
## Information saturated (h1) model Expected
## Standard Errors Structured
## Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gov =~
## pri_nee_soc_1 1.000 1.097 0.752
## pri_nee_soc_2 0.980 0.092 10.683 0.000 1.075 0.718
## pri_nee_soc_3 1.003 0.085 11.809 0.000 1.100 0.761
## pri_nee_soc_4 1.120 0.082 13.580 0.000 1.229 0.802
## pri_nee_soc_5 0.893 0.088 10.181 0.000 0.979 0.620
## pri_nee_soc_9 1.008 0.087 11.561 0.000 1.106 0.735
## pri_nee_int =~
## pri_nee_gen_1 1.000 0.881 0.660
## pri_nee_int_2 0.561 0.149 3.762 0.000 0.494 0.323
## pri_nee_int_3 0.733 0.143 5.127 0.000 0.646 0.445
## pri_nee_int_6 0.531 0.133 3.994 0.000 0.468 0.356
## pri_nee_int_7 0.844 0.141 6.003 0.000 0.743 0.581
## pri_nee_int_9 0.781 0.133 5.894 0.000 0.688 0.528
## pri_nee_ano =~
## pri_nee_soc_6 1.000 0.920 0.604
## pri_nee_soc_7 1.155 0.141 8.201 0.000 1.063 0.750
## pri_nee_soc_8 0.926 0.123 7.527 0.000 0.852 0.577
## pri_nee_int_2 0.695 0.128 5.440 0.000 0.639 0.418
## pri_nee_int_6 0.340 0.100 3.386 0.001 0.313 0.239
##
## Covariances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gov ~~
## pri_nee_int 0.355 0.087 4.058 0.000 0.367 0.367
## pri_nee_ano 0.681 0.104 6.554 0.000 0.675 0.675
## pri_nee_int ~~
## pri_nee_ano 0.191 0.078 2.452 0.014 0.236 0.236
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_soc_1 0.927 0.094 9.872 0.000 0.927 0.435
## .pri_nee_soc_2 1.085 0.156 6.938 0.000 1.085 0.484
## .pri_nee_soc_3 0.878 0.123 7.167 0.000 0.878 0.420
## .pri_nee_soc_4 0.837 0.110 7.609 0.000 0.837 0.357
## .pri_nee_soc_5 1.532 0.150 10.210 0.000 1.532 0.615
## .pri_nee_soc_9 1.040 0.109 9.569 0.000 1.040 0.459
## .pri_nee_gen_1 1.005 0.147 6.835 0.000 1.005 0.564
## .pri_nee_int_2 1.536 0.147 10.437 0.000 1.536 0.657
## .pri_nee_int_3 1.686 0.141 11.938 0.000 1.686 0.802
## .pri_nee_int_6 1.336 0.126 10.589 0.000 1.336 0.776
## .pri_nee_int_7 1.086 0.127 8.519 0.000 1.086 0.663
## .pri_nee_int_9 1.226 0.151 8.123 0.000 1.226 0.721
## .pri_nee_soc_6 1.476 0.169 8.742 0.000 1.476 0.636
## .pri_nee_soc_7 0.879 0.137 6.415 0.000 0.879 0.438
## .pri_nee_soc_8 1.454 0.177 8.214 0.000 1.454 0.667
## pri_nee_gov 1.203 0.172 7.012 0.000 1.000 1.000

```

##	pri_nee_int	0.776	0.162	4.781	0.000	1.000	1.000
##	pri_nee_ano	0.847	0.176	4.815	0.000	1.000	1.000

Shows shows improved but still not really acceptable fit. Problem is, we don't want to exclude too many items and to overfit the data. Let's inspect modification indices once more to see if there's a theoretically plausible adaption.

##		lhs op	rhs	mi	epc	sepc.lv	sepc.all	sepc.nox
## 155	pri_nee_int_3	~~	pri_nee_soc_7	17.6	-0.386	-0.386	-0.317	-0.317
## 44	pri_nee_gov	==	pri_nee_int_9	16.3	0.333	0.365	0.280	0.280
## 64	pri_nee_ano	==	pri_nee_int_3	15.0	-0.435	-0.400	-0.276	-0.276
## 63	pri_nee_ano	==	pri_nee_gen_1	13.6	0.397	0.366	0.274	0.274
## 132	pri_nee_soc_9	~~	pri_nee_int_9	11.8	0.268	0.268	0.238	0.238
## 65	pri_nee_ano	==	pri_nee_int_7	11.4	-0.337	-0.310	-0.242	-0.242
## 55	pri_nee_int	==	pri_nee_soc_7	10.6	-0.411	-0.362	-0.255	-0.255

Item itg_3 is a troublemaker. As it's an inverted item, we have a good reason to delete it. Also, item itg_6 doesn't really have anything to do with anonymity; we can delete it. Likewise, item soc_5 loads on government, while it also measure anonymity. Maybe delete.

CFA 4

```

## lavaan 0.6-3 ended normally after 40 iterations
##
## Optimization method          NLMINB
## Number of free parameters    28
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     122.850 101.720
## Degrees of freedom           50      50
## P-value (Chi-square)         0.000   0.000
## Scaling correction factor     1.208
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 1133.873 973.421
## Degrees of freedom             66      66
## P-value                       0.000   0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.932   0.943
## Tucker-Lewis Index (TLI)        0.910   0.925
##
## Robust Comparative Fit Index (CFI)      0.941
## Robust Tucker-Lewis Index (TLI)        0.922
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)      -5335.808 -5335.808
## Loglikelihood unrestricted model (H1) -5274.383 -5274.383
##
## Number of free parameters          28      28
## Akaike (AIC)                      10727.617 10727.617
## Bayesian (BIC)                     10828.682 10828.682
## Sample-size adjusted Bayesian (BIC) 10739.901 10739.901
##
## Root Mean Square Error of Approximation:
##
## RMSEA                             0.073   0.062
## 90 Percent Confidence Interval      0.057 0.089   0.046 0.077
## P-value RMSEA <= 0.05              0.011   0.109
##
## Robust RMSEA                      0.068
## 90 Percent Confidence Interval      0.049 0.086
##
## Standardized Root Mean Square Residual:
##
## SRMR                             0.062   0.062
##
## Parameter Estimates:

```

```

##
## Information
## Information saturated (h1) model Expected
## Standard Errors Structured
## Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gov =~
## pri_nee_soc_1 1.000 1.085 0.743
## pri_nee_soc_2 0.977 0.092 10.593 0.000 1.060 0.708
## pri_nee_soc_3 1.022 0.088 11.639 0.000 1.109 0.767
## pri_nee_soc_4 1.143 0.087 13.081 0.000 1.240 0.809
## pri_nee_soc_9 1.021 0.088 11.541 0.000 1.107 0.736
## pri_nee_int =~
## pri_nee_gen_1 1.000 0.889 0.666
## pri_nee_int_2 0.519 0.172 3.017 0.003 0.461 0.302
## pri_nee_int_7 0.753 0.138 5.441 0.000 0.669 0.523
## pri_nee_int_9 0.818 0.147 5.586 0.000 0.727 0.558
## pri_nee_ano =~
## pri_nee_soc_6 1.000 0.928 0.609
## pri_nee_soc_7 1.119 0.144 7.791 0.000 1.038 0.733
## pri_nee_soc_8 0.922 0.122 7.545 0.000 0.855 0.579
## pri_nee_int_2 0.637 0.138 4.616 0.000 0.591 0.387
##
## Covariances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gov ~~
## pri_nee_int 0.421 0.092 4.588 0.000 0.437 0.437
## pri_nee_ano 0.700 0.105 6.664 0.000 0.696 0.696
## pri_nee_int ~~
## pri_nee_ano 0.288 0.086 3.329 0.001 0.349 0.349
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_soc_1 0.954 0.099 9.628 0.000 0.954 0.448
## .pri_nee_soc_2 1.116 0.158 7.070 0.000 1.116 0.498
## .pri_nee_soc_3 0.859 0.119 7.220 0.000 0.859 0.411
## .pri_nee_soc_4 0.810 0.117 6.932 0.000 0.810 0.345
## .pri_nee_soc_9 1.038 0.108 9.619 0.000 1.038 0.459
## .pri_nee_gen_1 0.992 0.164 6.032 0.000 0.992 0.557
## .pri_nee_int_2 1.585 0.149 10.670 0.000 1.585 0.678
## .pri_nee_int_7 1.191 0.133 8.986 0.000 1.191 0.727
## .pri_nee_int_9 1.171 0.156 7.490 0.000 1.171 0.689
## .pri_nee_soc_6 1.462 0.172 8.522 0.000 1.462 0.629
## .pri_nee_soc_7 0.931 0.140 6.646 0.000 0.931 0.463
## .pri_nee_soc_8 1.449 0.175 8.258 0.000 1.449 0.665
## pri_nee_gov 1.177 0.171 6.872 0.000 1.000 1.000
## pri_nee_int 0.790 0.179 4.404 0.000 1.000 1.000
## pri_nee_ano 0.861 0.180 4.768 0.000 1.000 1.000

```

Although not ideal, shows a satisfactory solution. Will be used for analyses. In what follows, run specific CFAs for the dimensions, to get a better idea how they would work when used separately.

CFA privacy need government

```
## lavaan 0.6-3 ended normally after 23 iterations
##
## Optimization method          NLMINB
## Number of free parameters    10
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     9.127   7.264
## Degrees of freedom           5       5
## P-value (Chi-square)         0.104   0.202
## Scaling correction factor    1.256
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic  606.691  471.613
## Degrees of freedom              10       10
## P-value                        0.000   0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.993   0.995
## Tucker-Lewis Index (TLI)        0.986   0.990
##
## Robust Comparative Fit Index (CFI)      0.995
## Robust Tucker-Lewis Index (TLI)        0.990
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)      -2179.858  -2179.858
## Loglikelihood unrestricted model (H1) -2175.294  -2175.294
##
## Number of free parameters          10       10
## Akaike (AIC)                      4379.716  4379.716
## Bayesian (BIC)                    4415.810  4415.810
## Sample-size adjusted Bayesian (BIC)  4384.103  4384.103
##
## Root Mean Square Error of Approximation:
##
## RMSEA                            0.055   0.041
## 90 Percent Confidence Interval    0.000  0.111   0.000  0.094
## P-value RMSEA <= 0.05            0.374   0.545
##
## Robust RMSEA                      0.046
## 90 Percent Confidence Interval    0.000  0.112
##
## Standardized Root Mean Square Residual:
##
## SRMR                            0.019   0.019
##
## Parameter Estimates:
```

```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gov =~
## pri_nee_soc_1 1.000 1.105 0.757
## pri_nee_soc_2 0.942 0.095 9.896 0.000 1.040 0.695
## pri_nee_soc_3 0.993 0.089 11.190 0.000 1.097 0.759
## pri_nee_soc_4 1.148 0.088 13.043 0.000 1.268 0.828
## pri_nee_soc_9 0.980 0.088 11.176 0.000 1.083 0.720
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_soc_1 0.910 0.104 8.736 0.000 0.910 0.427
## .pri_nee_soc_2 1.157 0.172 6.726 0.000 1.157 0.517
## .pri_nee_soc_3 0.885 0.128 6.925 0.000 0.885 0.424
## .pri_nee_soc_4 0.740 0.120 6.147 0.000 0.740 0.315
## .pri_nee_soc_9 1.091 0.111 9.836 0.000 1.091 0.482
## pri_nee_gov 1.220 0.177 6.908 0.000 1.000 1.000

```

CFA privacy need interpersonal

```
## lavaan 0.6-3 ended normally after 27 iterations
##
## Optimization method          NLMINB
## Number of free parameters      8
##
## Number of observations          273
##
## Estimator                     ML      Robust
## Model Fit Test Statistic      10.781  10.223
## Degrees of freedom             2       2
## P-value (Chi-square)          0.005    0.006
## Scaling correction factor      1.055
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 131.687 116.857
## Degrees of freedom              6       6
## P-value                        0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.930    0.926
## Tucker-Lewis Index (TLI)        0.790    0.777
##
## Robust Comparative Fit Index (CFI) 0.931
## Robust Tucker-Lewis Index (TLI)   0.792
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)    -1823.544 -1823.544
## Loglikelihood unrestricted model (H1) -1818.153 -1818.153
##
## Number of free parameters          8       8
## Akaike (AIC)                      3663.087 3663.087
## Bayesian (BIC)                    3691.963 3691.963
## Sample-size adjusted Bayesian (BIC) 3666.597 3666.597
##
## Root Mean Square Error of Approximation:
##
## RMSEA                            0.127    0.123
## 90 Percent Confidence Interval    0.060 0.205 0.057 0.200
## P-value RMSEA <= 0.05            0.031    0.036
##
## Robust RMSEA                      0.126
## 90 Percent Confidence Interval    0.057 0.207
##
## Standardized Root Mean Square Residual:
##
## SRMR                            0.044    0.044
##
## Parameter Estimates:
```

```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_int =~
## pri_nee_gen_1 1.000 0.942 0.706
## pri_nee_int_2 0.703 0.157 4.485 0.000 0.662 0.433
## pri_nee_int_7 0.738 0.138 5.340 0.000 0.695 0.543
## pri_nee_int_9 0.689 0.128 5.367 0.000 0.649 0.498
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_gen_1 0.893 0.184 4.865 0.000 0.893 0.501
## .pri_nee_int_2 1.899 0.164 11.572 0.000 1.899 0.812
## .pri_nee_int_7 1.155 0.131 8.786 0.000 1.155 0.705
## .pri_nee_int_9 1.278 0.154 8.326 0.000 1.278 0.752
## pri_nee_int 0.888 0.195 4.566 0.000 1.000 1.000

```


CFA privacy need anonymity

```
## lavaan 0.6-3 ended normally after 29 iterations
##
## Optimization method          NLMINB
## Number of free parameters      8
##
## Number of observations          273
##
## Estimator              ML      Robust
## Model Fit Test Statistic    5.024    3.160
## Degrees of freedom          2        2
## P-value (Chi-square)        0.081    0.206
## Scaling correction factor    1.590
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic    181.622    154.549
## Degrees of freedom          6        6
## P-value          0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)          0.983    0.992
## Tucker-Lewis Index (TLI)            0.948    0.977
##
## Robust Comparative Fit Index (CFI)          0.989
## Robust Tucker-Lewis Index (TLI)            0.968
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)          -1893.669    -1893.669
## Loglikelihood unrestricted model (H1)    -1891.157    -1891.157
##
## Number of free parameters              8        8
## Akaike (AIC)          3803.337    3803.337
## Bayesian (BIC)          3832.213    3832.213
## Sample-size adjusted Bayesian (BIC)    3806.847    3806.847
##
## Root Mean Square Error of Approximation:
##
## RMSEA              0.074    0.046
## 90 Percent Confidence Interval    0.000    0.159    0.000    0.118
## P-value RMSEA <= 0.05          0.228    0.442
##
## Robust RMSEA              0.058
## 90 Percent Confidence Interval    0.000    0.173
##
## Standardized Root Mean Square Residual:
##
## SRMR              0.029    0.029
##
## Parameter Estimates:
```

```

##
##      Information                               Expected
##      Information saturated (h1) model          Structured
##      Standard Errors                          Robust.sem
##
## Latent Variables:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      pri_nee_ano =~
##      pri_nee_soc_6      1.000
##      pri_nee_soc_7      1.143    0.164    6.964    0.000    1.033    0.729
##      pri_nee_soc_8      0.970    0.142    6.836    0.000    0.876    0.594
##      pri_nee_int_2      0.850    0.129    6.590    0.000    0.768    0.502
##
## Variances:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      .pri_nee_soc_6      1.506    0.193    7.820    0.000    1.506    0.649
##      .pri_nee_soc_7      0.942    0.185    5.092    0.000    0.942    0.469
##      .pri_nee_soc_8      1.412    0.199    7.088    0.000    1.412    0.648
##      .pri_nee_int_2      1.748    0.207    8.439    0.000    1.748    0.748
##      pri_nee_ano      0.816    0.185    4.405    0.000    1.000    1.000

```

CFA bifactor

```
## lavaan 0.6-3 ended normally after 87 iterations
##
## Optimization method          NLMINB
## Number of free parameters    37
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     85.621  70.179
## Degrees of freedom           41      41
## P-value (Chi-square)         0.000    0.003
## Scaling correction factor     1.220
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 1133.873  973.421
## Degrees of freedom              66      66
## P-value                        0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.958    0.968
## Tucker-Lewis Index (TLI)        0.933    0.948
##
## Robust Comparative Fit Index (CFI)      0.966
## Robust Tucker-Lewis Index (TLI)        0.946
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)      -5317.194  -5317.194
## Loglikelihood unrestricted model (H1) -5274.383  -5274.383
##
## Number of free parameters          37      37
## Akaike (AIC)                      10708.388  10708.388
## Bayesian (BIC)                     10841.938  10841.938
## Sample-size adjusted Bayesian (BIC) 10724.620  10724.620
##
## Root Mean Square Error of Approximation:
##
## RMSEA                            0.063    0.051
## 90 Percent Confidence Interval    0.044  0.082    0.032  0.069
## P-value RMSEA <= 0.05            0.120    0.440
##
## Robust RMSEA                      0.056
## 90 Percent Confidence Interval    0.033  0.078
##
## Standardized Root Mean Square Residual:
##
## SRMR                            0.042    0.042
##
## Parameter Estimates:
```

```

##
## Information
## Information saturated (h1) model Expected
## Standard Errors Structured
## Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gen =~
## pri_nee_soc_1 1.000 0.971 0.665
## pri_nee_soc_2 1.036 0.106 9.798 0.000 1.006 0.672
## pri_nee_soc_3 1.087 0.105 10.313 0.000 1.056 0.731
## pri_nee_soc_4 1.032 0.109 9.439 0.000 1.002 0.654
## pri_nee_soc_9 1.191 0.121 9.820 0.000 1.156 0.769
## pri_nee_gen_1 0.418 0.101 4.160 0.000 0.406 0.304
## pri_nee_int_2 0.662 0.119 5.568 0.000 0.642 0.419
## pri_nee_int_7 0.151 0.097 1.559 0.119 0.147 0.115
## pri_nee_int_9 0.570 0.098 5.795 0.000 0.554 0.425
## pri_nee_soc_6 0.774 0.122 6.344 0.000 0.752 0.493
## pri_nee_soc_7 0.777 0.123 6.321 0.000 0.754 0.532
## pri_nee_soc_8 0.654 0.123 5.330 0.000 0.635 0.430
## pri_nee_gov =~
## pri_nee_soc_1 1.000 0.422 0.289
## pri_nee_soc_2 0.658 0.208 3.161 0.002 0.278 0.185
## pri_nee_soc_3 0.753 0.219 3.430 0.001 0.318 0.220
## pri_nee_soc_4 2.658 1.791 1.484 0.138 1.121 0.732
## pri_nee_soc_9 0.270 0.270 1.000 0.317 0.114 0.076
## pri_nee_int =~
## pri_nee_gen_1 1.000 0.765 0.573
## pri_nee_int_2 0.501 0.181 2.772 0.006 0.383 0.250
## pri_nee_int_7 1.060 0.262 4.041 0.000 0.811 0.634
## pri_nee_int_9 0.639 0.164 3.889 0.000 0.489 0.375
## pri_nee_ano =~
## pri_nee_soc_6 1.000 0.476 0.312
## pri_nee_soc_7 1.612 0.639 2.522 0.012 0.767 0.541
## pri_nee_soc_8 1.244 0.441 2.824 0.005 0.592 0.401
## pri_nee_int_2 0.886 0.341 2.598 0.009 0.421 0.275
##
## Covariances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gen ~~
## pri_nee_gov 0.000 0.000 0.000
## pri_nee_int 0.000 0.000 0.000
## pri_nee_ano 0.000 0.000 0.000
## pri_nee_gov ~~
## pri_nee_int 0.000 0.000 0.000
## pri_nee_ano 0.000 0.000 0.000
## pri_nee_int ~~
## pri_nee_ano 0.000 0.000 0.000
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_soc_1 1.009 0.110 9.165 0.000 1.009 0.474
## .pri_nee_soc_2 1.151 0.147 7.850 0.000 1.151 0.514
## .pri_nee_soc_3 0.873 0.119 7.365 0.000 0.873 0.418

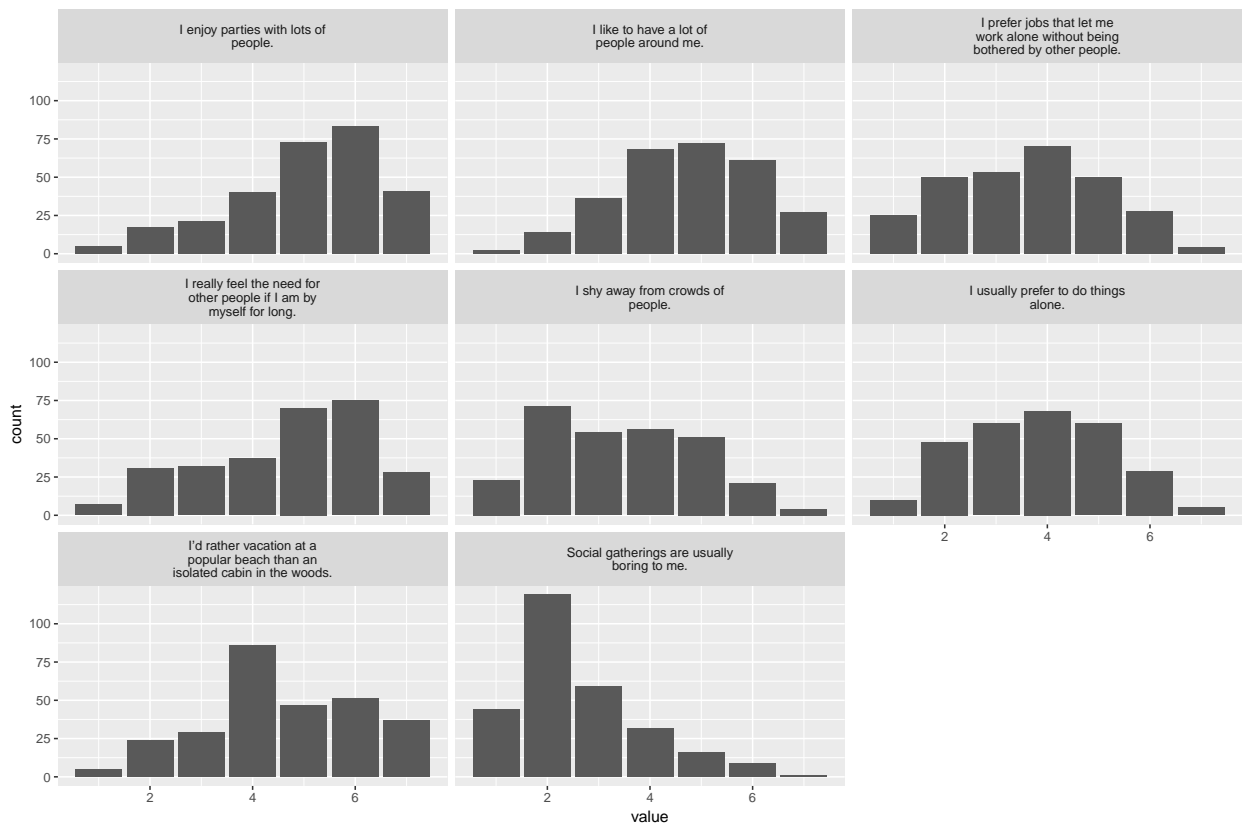
```

##	.pri_nee_soc_4	0.085	0.713	0.119	0.905	0.085	0.036
##	.pri_nee_soc_9	0.914	0.137	6.650	0.000	0.914	0.404
##	.pri_nee_gen_1	1.031	0.186	5.547	0.000	1.031	0.579
##	.pri_nee_int_2	1.609	0.169	9.536	0.000	1.609	0.686
##	.pri_nee_int_7	0.959	0.175	5.475	0.000	0.959	0.585
##	.pri_nee_int_9	1.154	0.143	8.084	0.000	1.154	0.679
##	.pri_nee_soc_6	1.531	0.170	8.979	0.000	1.531	0.659
##	.pri_nee_soc_7	0.851	0.242	3.516	0.000	0.851	0.424
##	.pri_nee_soc_8	1.426	0.212	6.726	0.000	1.426	0.654
##	pri_nee_gen	0.943	0.185	5.102	0.000	1.000	1.000
##	pri_nee_gov	0.178	0.162	1.097	0.272	1.000	1.000
##	pri_nee_int	0.585	0.181	3.238	0.001	1.000	1.000
##	pri_nee_ano	0.226	0.133	1.697	0.090	1.000	1.000

Bifactor-solution fits the data best. However, for theoretical reasons will not be used for the analyses.

Sociability

Items



CFA 1

```
## lavaan 0.6-3 ended normally after 30 iterations
##
## Optimization method NLMINB
## Number of free parameters 16
##
## Number of observations 273
##
## Estimator ML Robust
## Model Fit Test Statistic 151.846 121.106
## Degrees of freedom 20 20
## P-value (Chi-square) 0.000 0.000
## Scaling correction factor 1.254
## for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 611.340 515.674
## Degrees of freedom 28 28
## P-value 0.000 0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI) 0.774 0.793
## Tucker-Lewis Index (TLI) 0.684 0.710
##
## Robust Comparative Fit Index (CFI) 0.781
## Robust Tucker-Lewis Index (TLI) 0.693
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0) -3681.313 -3681.313
## Loglikelihood unrestricted model (H1) -3605.390 -3605.390
##
## Number of free parameters 16 16
## Akaike (AIC) 7394.627 7394.627
## Bayesian (BIC) 7452.378 7452.378
## Sample-size adjusted Bayesian (BIC) 7401.646 7401.646
##
## Root Mean Square Error of Approximation:
##
## RMSEA 0.155 0.136
## 90 Percent Confidence Interval 0.133 0.179 0.116 0.157
## P-value RMSEA <= 0.05 0.000 0.000
##
## Robust RMSEA 0.152
## 90 Percent Confidence Interval 0.127 0.179
##
## Standardized Root Mean Square Residual:
##
## SRMR 0.090 0.090
##
## Parameter Estimates:
```

```

##
##      Information                               Expected
##      Information saturated (h1) model          Structured
##      Standard Errors                          Robust.sem
##
## Latent Variables:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      soc =~
##      soc_1      1.000
##      soc_2      0.979    0.100    9.826    0.000    0.987    0.722
##      soc_3      0.676    0.095    7.130    0.000    0.682    0.485
##      soc_4      0.584    0.113    5.180    0.000    0.589    0.371
##      soc_5      0.679    0.103    6.587    0.000    0.685    0.456
##      soc_6      0.557    0.106    5.264    0.000    0.562    0.364
##      soc_7      0.839    0.082   10.268    0.000    0.846    0.670
##      soc_8      1.016    0.095   10.745    0.000    1.024    0.698
##
## Variances:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      .soc_1      1.209    0.129    9.375    0.000    1.209    0.543
##      .soc_2      0.895    0.118    7.554    0.000    0.895    0.479
##      .soc_3      1.516    0.123   12.344    0.000    1.516    0.765
##      .soc_4      2.175    0.173   12.596    0.000    2.175    0.863
##      .soc_5      1.791    0.162   11.037    0.000    1.791    0.792
##      .soc_6      2.061    0.154   13.424    0.000    2.061    0.867
##      .soc_7      0.880    0.115    7.618    0.000    0.880    0.551
##      .soc_8      1.103    0.138    7.976    0.000    1.103    0.513
##      soc        1.017    0.164    6.191    0.000    1.000    1.000

```

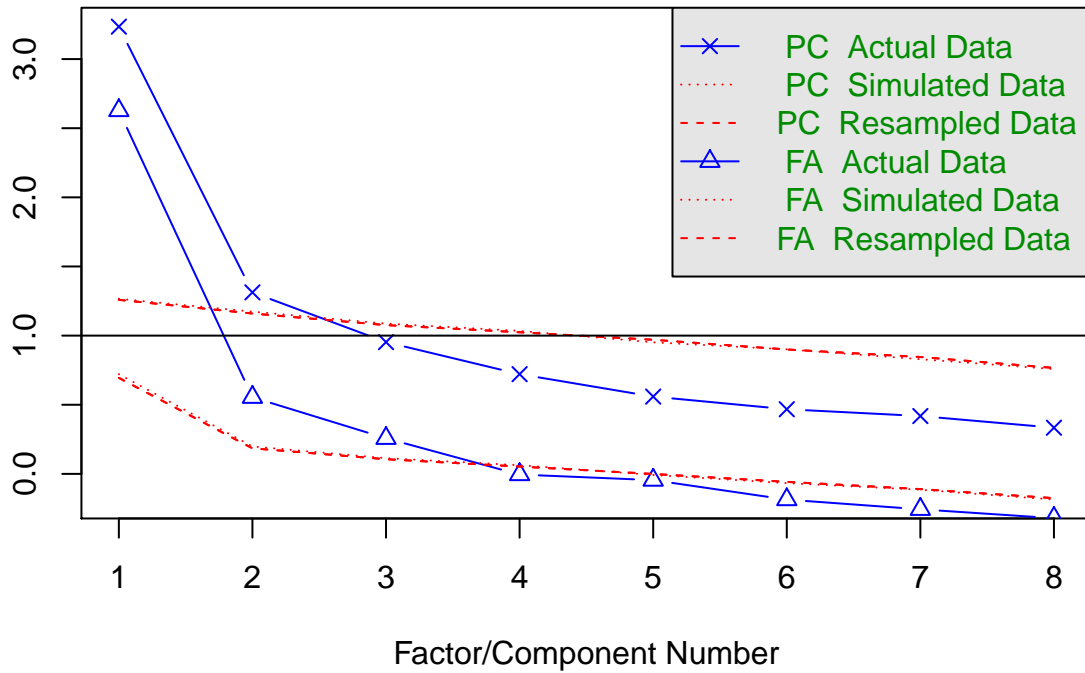
Does not show sufficient fit. Run EFAs to determine underlying factor structure.

EFA 1

Parallel analysis

eigenvalues of principal components and factor analysis

Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 3 and the number of components = 2

Factor analysis

```
##
## Loadings:
##      ML2      ML3      ML1
## soc_1  0.493  0.380 -0.127
## soc_2  0.511  0.163  0.285
## soc_3           0.642
## soc_4           0.996
## soc_5           0.753
## soc_6  0.477 -0.189  0.134
## soc_7  0.517  0.256
## soc_8  0.860
##
##              ML2      ML3      ML1
## SS loadings    1.740  1.257  1.118
## Proportion Var 0.217  0.157  0.140
## Cumulative Var 0.217  0.375  0.514
```

The three factor solution does not show a coherent picture; for example, Factor 3 is determined by a single item.

EFA 2

Factor analysis

```
##
## Loadings:
##      ML1      ML2
## soc_1  0.441  0.359
## soc_2  0.685
## soc_3  0.104  0.599
## soc_4  0.423
## soc_5           0.779
## soc_6  0.558 -0.223
## soc_7  0.512  0.254
## soc_8  0.791
##
##              ML1      ML2
## SS loadings    2.055  1.222
## Proportion Var 0.257  0.153
## Cumulative Var 0.257  0.410
```

Seems more plausible. Will be modelled as bifactor solution next.

CFA 2

```

## lavaan 0.6-3 ended normally after 44 iterations
##
## Optimization method NLMINB
## Number of free parameters 18
##
## Number of observations 273
##
## Estimator ML Robust
## Model Fit Test Statistic 81.367 70.983
## Degrees of freedom 18 18
## P-value (Chi-square) 0.000 0.000
## Scaling correction factor 1.146
## for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 611.340 515.674
## Degrees of freedom 28 28
## P-value 0.000 0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI) 0.891 0.891
## Tucker-Lewis Index (TLI) 0.831 0.831
##
## Robust Comparative Fit Index (CFI) 0.895
## Robust Tucker-Lewis Index (TLI) 0.837
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0) -3646.074 -3646.074
## Loglikelihood unrestricted model (H1) -3605.390 -3605.390
##
## Number of free parameters 18 18
## Akaike (AIC) 7328.147 7328.147
## Bayesian (BIC) 7393.118 7393.118
## Sample-size adjusted Bayesian (BIC) 7336.044 7336.044
##
## Root Mean Square Error of Approximation:
##
## RMSEA 0.114 0.104
## 90 Percent Confidence Interval 0.089 0.139 0.081 0.128
## P-value RMSEA <= 0.05 0.000 0.000
##
## Robust RMSEA 0.111
## 90 Percent Confidence Interval 0.085 0.139
##
## Standardized Root Mean Square Residual:
##
## SRMR 0.083 0.083
##
## Parameter Estimates:

```

```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## soc_one =~
## soc_1 (a) 1.000 0.662 0.427
## soc_3 (a) 1.000 0.662 0.466
## soc_5 (a) 1.000 0.662 0.452
## soc_7 (a) 1.000 0.662 0.519
## soc_two =~
## soc_1 (b) 1.000 0.722 0.466
## soc_2 (b) 1.000 0.722 0.533
## soc_4 (b) 1.000 0.722 0.434
## soc_6 (b) 1.000 0.722 0.459
## soc_7 (b) 1.000 0.722 0.566
## soc_8 (b) 1.000 0.722 0.519
## soc_gen =~
## soc_1 1.000 0.536 0.345
## soc_2 1.646 0.400 4.114 0.000 0.882 0.651
## soc_3 1.513 0.361 4.196 0.000 0.811 0.570
## soc_4 1.021 0.340 3.008 0.003 0.547 0.329
## soc_5 1.303 0.301 4.332 0.000 0.698 0.477
## soc_6 0.517 0.245 2.114 0.035 0.277 0.176
## soc_7 0.423 0.175 2.413 0.016 0.226 0.177
## soc_8 0.909 0.195 4.657 0.000 0.487 0.350
##
## Covariances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## soc_one ~~
## soc_two 0.000 0.000 0.000
## soc_gen 0.000 0.000 0.000
## soc_two ~~
## soc_gen 0.000 0.000 0.000
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .soc_1 1.158 0.115 10.065 0.000 1.158 0.482
## .soc_3 0.925 0.147 6.279 0.000 0.925 0.458
## .soc_5 1.220 0.142 8.567 0.000 1.220 0.569
## .soc_7 0.619 0.117 5.293 0.000 0.619 0.380
## .soc_2 0.535 0.143 3.748 0.000 0.535 0.292
## .soc_4 1.952 0.186 10.489 0.000 1.952 0.704
## .soc_6 1.881 0.152 12.379 0.000 1.881 0.759
## .soc_8 1.178 0.127 9.262 0.000 1.178 0.608
## soc_one 0.438 0.091 4.826 0.000 1.000 1.000
## soc_two 0.522 0.084 6.177 0.000 1.000 1.000
## soc_gen 0.287 0.130 2.214 0.027 1.000 1.000

```

Shows no solution for two factors. Single-dimension solution will be fitted next.

CFA 3

```
## lavaan 0.6-3 ended normally after 28 iterations
##
## Optimization method NLMINB
## Number of free parameters 12
##
## Number of observations 273
##
## Estimator ML Robust
## Model Fit Test Statistic 76.986 60.090
## Degrees of freedom 9 9
## P-value (Chi-square) 0.000 0.000
## Scaling correction factor 1.281
## for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 444.982 351.850
## Degrees of freedom 15 15
## P-value 0.000 0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI) 0.842 0.848
## Tucker-Lewis Index (TLI) 0.736 0.747
##
## Robust Comparative Fit Index (CFI) 0.846
## Robust Tucker-Lewis Index (TLI) 0.744
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0) -2747.687 -2747.687
## Loglikelihood unrestricted model (H1) -2709.194 -2709.194
##
## Number of free parameters 12 12
## Akaike (AIC) 5519.375 5519.375
## Bayesian (BIC) 5562.688 5562.688
## Sample-size adjusted Bayesian (BIC) 5524.639 5524.639
##
## Root Mean Square Error of Approximation:
##
## RMSEA 0.166 0.144
## 90 Percent Confidence Interval 0.133 0.202 0.115 0.176
## P-value RMSEA <= 0.05 0.000 0.000
##
## Robust RMSEA 0.163
## 90 Percent Confidence Interval 0.125 0.204
##
## Standardized Root Mean Square Residual:
##
## SRMR 0.075 0.075
##
## Parameter Estimates:
```

```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## soc_gen =~
## soc_1 1.000 0.934 0.626
## soc_2 1.067 0.114 9.372 0.000 0.996 0.729
## soc_4 0.655 0.128 5.100 0.000 0.612 0.385
## soc_6 0.689 0.121 5.716 0.000 0.644 0.417
## soc_7 0.878 0.094 9.359 0.000 0.820 0.649
## soc_8 1.188 0.118 10.078 0.000 1.109 0.756
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .soc_1 1.354 0.138 9.818 0.000 1.354 0.608
## .soc_2 0.877 0.123 7.153 0.000 0.877 0.469
## .soc_4 2.148 0.173 12.401 0.000 2.148 0.852
## .soc_6 1.962 0.154 12.702 0.000 1.962 0.826
## .soc_7 0.924 0.132 7.009 0.000 0.924 0.579
## .soc_8 0.921 0.136 6.763 0.000 0.921 0.428
## soc_gen 0.872 0.162 5.374 0.000 1.000 1.000

```

Uni-dimensional solution with 6 items not feasible; need to reduce to 4.

CFA 4

```
## lavaan 0.6-3 ended normally after 23 iterations
##
## Optimization method          NLMINB
## Number of free parameters    8
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     8.014   6.195
## Degrees of freedom           2       2
## P-value (Chi-square)         0.018   0.045
## Scaling correction factor    1.293
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 307.550 228.680
## Degrees of freedom             6       6
## P-value                        0.000   0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)     0.980   0.981
## Tucker-Lewis Index (TLI)       0.940   0.943
##
## Robust Comparative Fit Index (CFI) 0.982
## Robust Tucker-Lewis Index (TLI) 0.946
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)    -1762.758 -1762.758
## Loglikelihood unrestricted model (H1) -1758.752 -1758.752
##
## Number of free parameters        8       8
## Akaike (AIC)                    3541.517 3541.517
## Bayesian (BIC)                   3570.393 3570.393
## Sample-size adjusted Bayesian (BIC) 3545.027 3545.027
##
## Root Mean Square Error of Approximation:
##
## RMSEA                          0.105   0.088
## 90 Percent Confidence Interval 0.037 0.185 0.022 0.160
## P-value RMSEA <= 0.05         0.084   0.139
##
## Robust RMSEA                    0.100
## 90 Percent Confidence Interval 0.013 0.193
##
## Standardized Root Mean Square Residual:
##
## SRMR                          0.027   0.027
##
## Parameter Estimates:
```



```

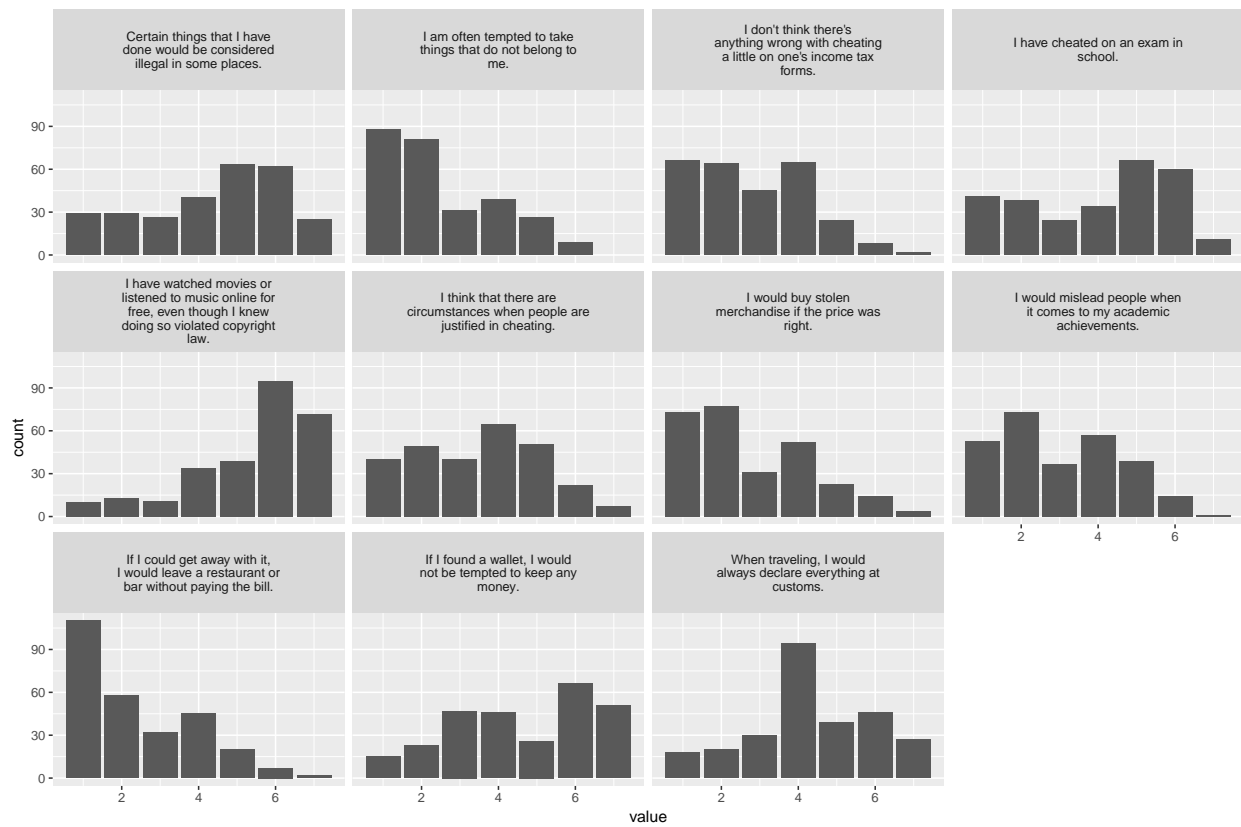
##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## soc_gen =~
## soc_1 1.000 1.023 0.686
## soc_2 0.897 0.102 8.795 0.000 0.918 0.672
## soc_7 0.850 0.091 9.299 0.000 0.870 0.689
## soc_8 1.059 0.105 10.069 0.000 1.084 0.739
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .soc_1 1.178 0.132 8.956 0.000 1.178 0.529
## .soc_2 1.026 0.132 7.778 0.000 1.026 0.549
## .soc_7 0.838 0.125 6.686 0.000 0.838 0.525
## .soc_8 0.977 0.167 5.849 0.000 0.977 0.454
## soc_gen 1.047 0.170 6.175 0.000 1.000 1.000

```

Shows adequate fit.

Integrity

Items



Does not show adequate fit.

CFA 1

```

## lavaan 0.6-3 ended normally after 30 iterations
##
## Optimization method          NLMINB
## Number of free parameters    22
##
## Number of observations      273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic    153.687  139.219
## Degrees of freedom          44      44
## P-value (Chi-square)        0.000    0.000
## Scaling correction factor    1.104
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic    686.975  618.697
## Degrees of freedom                 55      55
## P-value                           0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)        0.826    0.831
## Tucker-Lewis Index (TLI)          0.783    0.789
##
## Robust Comparative Fit Index (CFI)        0.832
## Robust Tucker-Lewis Index (TLI)          0.790
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)        -5430.335  -5430.335
## Loglikelihood unrestricted model (H1)  -5353.491  -5353.491
##
## Number of free parameters            22      22
## Akaike (AIC)                        10904.669  10904.669
## Bayesian (BIC)                       10984.078  10984.078
## Sample-size adjusted Bayesian (BIC)    10914.321  10914.321
##
## Root Mean Square Error of Approximation:
##
## RMSEA                               0.096    0.089
## 90 Percent Confidence Interval        0.079  0.112    0.073  0.105
## P-value RMSEA <= 0.05                0.000    0.000
##
## Robust RMSEA                         0.094
## 90 Percent Confidence Interval        0.076  0.111
##
## Standardized Root Mean Square Residual:
##
## SRMR                                0.078    0.078
##
## Parameter Estimates:

```

```

##
##      Information                      Expected
##      Information saturated (h1) model      Structured
##      Standard Errors                      Robust.sem
##
## Latent Variables:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      itg =~
##      itg_1      1.000
##      itg_2      0.864    0.096    9.042    0.000    0.897    0.613
##      itg_3      0.029    0.116    0.246    0.805    0.030    0.019
##      itg_4      0.315    0.130    2.419    0.016    0.327    0.181
##      itg_5      0.886    0.100    8.855    0.000    0.919    0.611
##      itg_6      1.102    0.103   10.748    0.000    1.144    0.721
##      itg_7      0.919    0.093    9.825    0.000    0.954    0.623
##      itg_8      0.848    0.111    7.667    0.000    0.880    0.541
##      itg_9      0.899    0.118    7.617    0.000    0.933    0.503
##      itg_10     0.318    0.109    2.907    0.004    0.330    0.211
##      itg_11     0.651    0.130    5.014    0.000    0.676    0.374
##
## Variances:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      .itg_1      1.062    0.146    7.285    0.000    1.062    0.496
##      .itg_2      1.333    0.174    7.642    0.000    1.333    0.624
##      .itg_3      2.541    0.193   13.171    0.000    2.541    1.000
##      .itg_4      3.170    0.227   13.937    0.000    3.170    0.967
##      .itg_5      1.418    0.160    8.871    0.000    1.418    0.626
##      .itg_6      1.208    0.174    6.960    0.000    1.208    0.480
##      .itg_7      1.435    0.178    8.043    0.000    1.435    0.612
##      .itg_8      1.871    0.179   10.462    0.000    1.871    0.707
##      .itg_9      2.568    0.175   14.694    0.000    2.568    0.747
##      .itg_10     2.346    0.203   11.578    0.000    2.346    0.956
##      .itg_11     2.803    0.194   14.457    0.000    2.803    0.860
##      itg         1.078    0.167    6.464    0.000    1.000    1.000

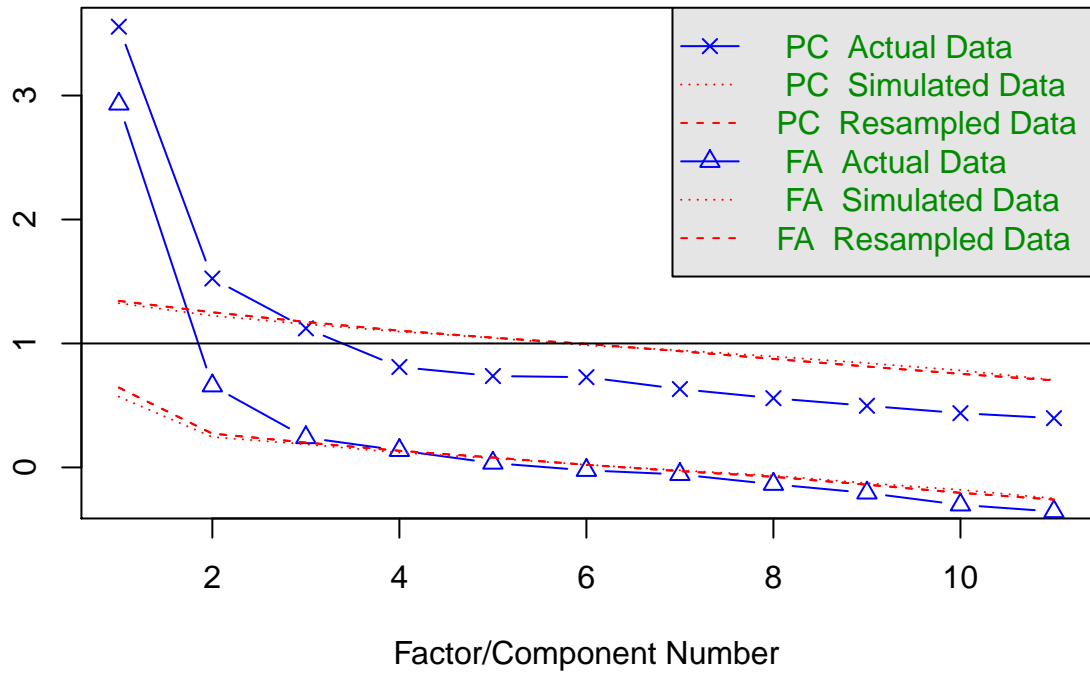
```

EFA 1

Parallel analysis

eigenvalues of principal components and factor analysis

Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 3 and the number of components = 2

Factor analysis 1

```
##
## Loadings:
##      ML2      ML3      ML1
## itg_1  0.733
## itg_2  0.586
## itg_3              0.998
## itg_4  0.239              0.281
## itg_5  0.703 -0.107
## itg_6  0.671  0.101
## itg_7  0.593
## itg_8  0.306  0.386
## itg_9  0.151  0.594
## itg_10 -0.161  0.594
## itg_11              0.504 -0.108
##
##              ML2      ML3      ML1
## SS loadings    2.382  1.146  1.10
## Proportion Var 0.217  0.104  0.10
## Cumulative Var 0.217  0.321  0.42
```

Two factors don't really convince, as factor 3 consists of one item only. Will try two-factor solution.

Factor analysis 2

```
##
## Loadings:
##      ML1      ML2
## itg_1  0.725
## itg_2  0.602
## itg_3  0.182 -0.251
## itg_4  0.323 -0.211
## itg_5  0.711 -0.119
## itg_6  0.660  0.117
## itg_7  0.573
## itg_8  0.325  0.369
## itg_9  0.195  0.531
## itg_10 -0.128  0.556
## itg_11          0.566
##
##      ML1      ML2
## SS loadings  2.456 1.193
## Proportion Var 0.223 0.108
## Cumulative Var 0.223 0.332
```

Suggests that item 3 and item 4 should be dropped.

CFA 2

```
## lavaan 0.6-3 ended normally after 36 iterations
##
## Optimization method          NLMINB
## Number of free parameters    20
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     51.646  47.441
## Degrees of freedom           25      25
## P-value (Chi-square)         0.001    0.004
## Scaling correction factor     1.089
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 634.166 602.164
## Degrees of freedom             36      36
## P-value                       0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)     0.955    0.960
## Tucker-Lewis Index (TLI)       0.936    0.943
##
## Robust Comparative Fit Index (CFI) 0.959
## Robust Tucker-Lewis Index (TLI)  0.941
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)    -4341.632 -4341.632
## Loglikelihood unrestricted model (H1) -4315.809 -4315.809
##
## Number of free parameters        20      20
## Akaike (AIC)                    8723.265  8723.265
## Bayesian (BIC)                   8795.454  8795.454
## Sample-size adjusted Bayesian (BIC) 8732.039  8732.039
##
## Root Mean Square Error of Approximation:
##
## RMSEA                          0.062    0.057
## 90 Percent Confidence Interval  0.038  0.087    0.033  0.081
## P-value RMSEA <= 0.05         0.183    0.284
##
## Robust RMSEA                    0.060
## 90 Percent Confidence Interval  0.033  0.086
##
## Standardized Root Mean Square Residual:
##
## SRMR                          0.044    0.044
##
## Parameter Estimates:
```



```

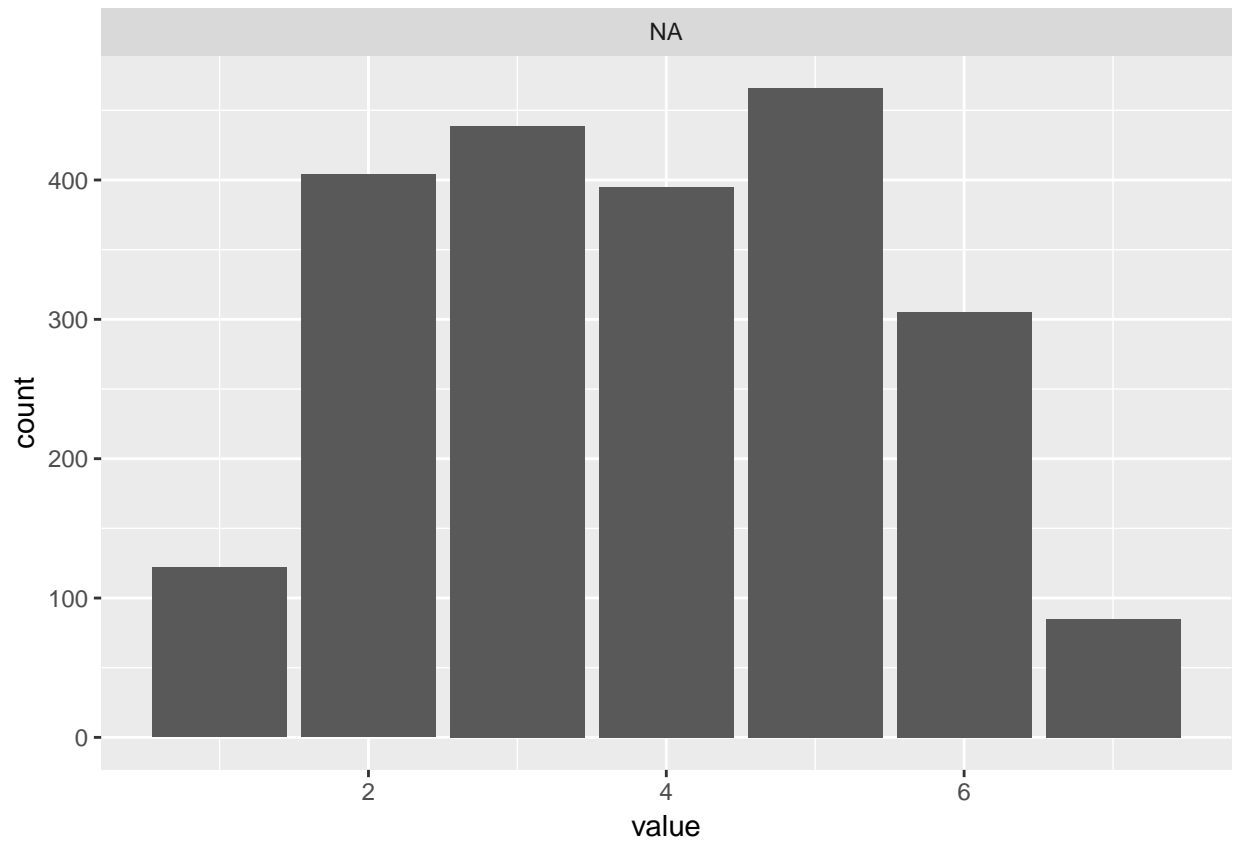
##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## int_1 =~
## itg_1 (a) 1.000 0.564 0.390
## itg_2 (a) 1.000 0.564 0.387
## itg_5 (a) 1.000 0.564 0.377
## itg_6 (a) 1.000 0.564 0.354
## itg_7 (a) 1.000 0.564 0.365
## itg_8 (a) 1.000 0.564 0.341
## int_2 =~
## itg_8 (b) 1.000 0.712 0.431
## itg_9 (b) 1.000 0.712 0.388
## itg_10 (b) 1.000 0.712 0.452
## itg_11 (b) 1.000 0.712 0.395
## itg_gen =~
## itg_1 1.000 0.871 0.602
## itg_2 0.802 0.129 6.217 0.000 0.698 0.479
## itg_5 0.865 0.140 6.183 0.000 0.754 0.503
## itg_6 1.173 0.146 8.016 0.000 1.022 0.641
## itg_7 0.938 0.125 7.500 0.000 0.817 0.529
## itg_8 0.721 0.150 4.808 0.000 0.628 0.380
## itg_9 1.151 0.276 4.162 0.000 1.003 0.546
## itg_10 0.393 0.165 2.383 0.017 0.343 0.218
## itg_11 0.753 0.215 3.495 0.000 0.656 0.364
##
## Covariances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## int_1 ~~
## int_2 0.000 0.000 0.000
## itg_gen 0.000 0.000 0.000
## int_2 ~~
## itg_gen 0.000 0.000 0.000
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .itg_1 1.019 0.146 6.976 0.000 1.019 0.486
## .itg_2 1.322 0.169 7.812 0.000 1.322 0.621
## .itg_5 1.354 0.155 8.724 0.000 1.354 0.605
## .itg_6 1.181 0.184 6.414 0.000 1.181 0.464
## .itg_7 1.404 0.179 7.841 0.000 1.404 0.587
## .itg_8 1.512 0.178 8.476 0.000 1.512 0.554
## .itg_9 1.856 0.260 7.142 0.000 1.856 0.551
## .itg_10 1.852 0.188 9.828 0.000 1.852 0.748
## .itg_11 2.309 0.231 9.998 0.000 2.309 0.711
## int_1 0.318 0.162 1.964 0.050 1.000 1.000
## int_2 0.507 0.093 5.469 0.000 1.000 1.000
## itg_gen 0.759 0.219 3.462 0.001 1.000 1.000

```

The data fit a bifactor model well.

Anxiety

Items



CFA 1

```
## lavaan 0.6-3 ended normally after 28 iterations
##
## Optimization method NLMINB
## Number of free parameters 16
##
## Number of observations 273
##
## Estimator ML Robust
## Model Fit Test Statistic 103.655 74.424
## Degrees of freedom 20 20
## P-value (Chi-square) 0.000 0.000
## Scaling correction factor 1.393
## for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 568.029 463.372
## Degrees of freedom 28 28
## P-value 0.000 0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI) 0.845 0.875
## Tucker-Lewis Index (TLI) 0.783 0.825
##
## Robust Comparative Fit Index (CFI) 0.858
## Robust Tucker-Lewis Index (TLI) 0.801
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0) -3716.797 -3716.797
## Loglikelihood unrestricted model (H1) -3664.970 -3664.970
##
## Number of free parameters 16 16
## Akaike (AIC) 7465.594 7465.594
## Bayesian (BIC) 7523.345 7523.345
## Sample-size adjusted Bayesian (BIC) 7472.613 7472.613
##
## Root Mean Square Error of Approximation:
##
## RMSEA 0.124 0.100
## 90 Percent Confidence Interval 0.101 0.148 0.080 0.121
## P-value RMSEA <= 0.05 0.000 0.000
##
## Robust RMSEA 0.118
## 90 Percent Confidence Interval 0.090 0.147
##
## Standardized Root Mean Square Residual:
##
## SRMR 0.070 0.070
##
## Parameter Estimates:
```

```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## anx =~
## anx_1 1.000 0.972 0.646
## anx_2 0.951 0.132 7.202 0.000 0.924 0.588
## anx_3 0.878 0.117 7.485 0.000 0.853 0.573
## anx_4 0.826 0.109 7.588 0.000 0.803 0.581
## anx_5 0.525 0.112 4.681 0.000 0.510 0.354
## anx_6 0.933 0.107 8.746 0.000 0.907 0.633
## anx_7 0.931 0.119 7.803 0.000 0.905 0.604
## anx_8 0.953 0.118 8.068 0.000 0.926 0.621
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .anx_1 1.319 0.163 8.100 0.000 1.319 0.583
## .anx_2 1.621 0.184 8.794 0.000 1.621 0.655
## .anx_3 1.490 0.197 7.574 0.000 1.490 0.672
## .anx_4 1.268 0.124 10.217 0.000 1.268 0.663
## .anx_5 1.817 0.149 12.233 0.000 1.817 0.875
## .anx_6 1.230 0.157 7.836 0.000 1.230 0.599
## .anx_7 1.424 0.160 8.905 0.000 1.424 0.635
## .anx_8 1.368 0.142 9.612 0.000 1.368 0.615
## anx 0.945 0.174 5.446 0.000 1.000 1.000

```

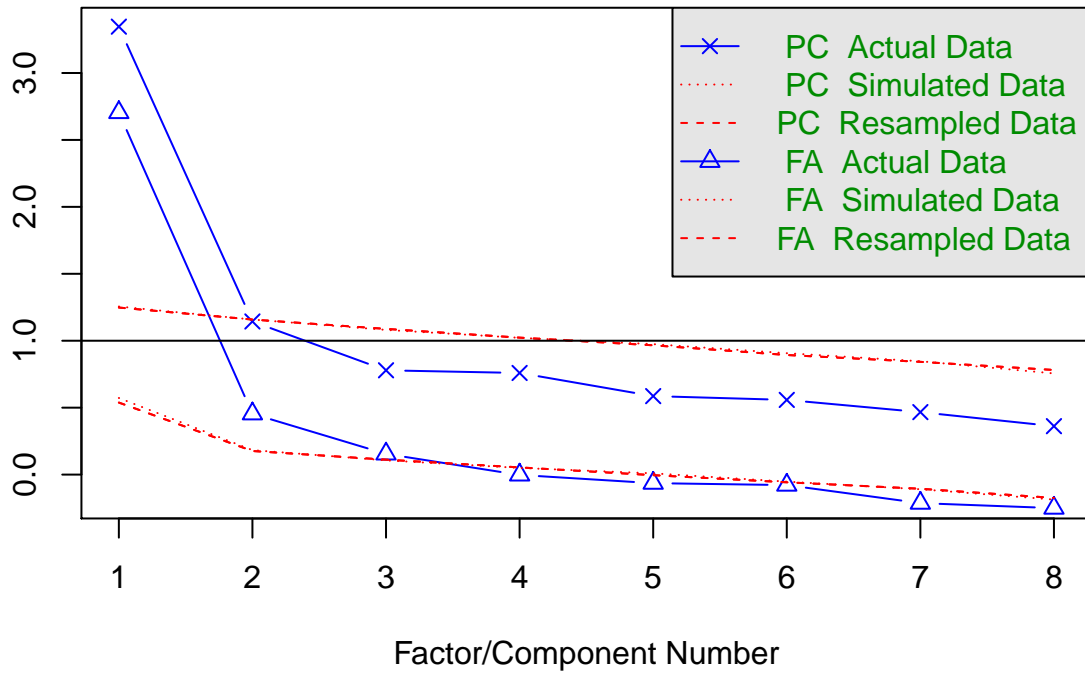
Does not show adequate fit.

EFA 1

Parallel analysis

eigenvalues of principal components and factor analysis

Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 2 and the number of components = 1

Implies three dimension.

Factor analysis

```
##
## Loadings:
##      ML2      ML1
## anx_1      0.844
## anx_2  0.623
## anx_3      0.583
## anx_4  0.526  0.115
## anx_5      0.415
## anx_6  0.468  0.252
## anx_7  0.253  0.420
## anx_8  0.802
##
##      ML2      ML1
## SS loadings      1.6 1.485
## Proportion Var  0.2 0.186
## Cumulative Var  0.2 0.385
```

Seems appropriate. First, try bifactor solution.

CFA 2

```
## lavaan 0.6-3 ended normally after 35 iterations
##
## Optimization method          NLMINB
## Number of free parameters    18
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     49.242  36.984
## Degrees of freedom           18      18
## P-value (Chi-square)         0.000    0.005
## Scaling correction factor     1.331
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 568.029 463.372
## Degrees of freedom              28      28
## P-value                        0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.942    0.956
## Tucker-Lewis Index (TLI)        0.910    0.932
##
## Robust Comparative Fit Index (CFI)      0.953
## Robust Tucker-Lewis Index (TLI)        0.926
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)      -3689.591 -3689.591
## Loglikelihood unrestricted model (H1) -3664.970 -3664.970
##
## Number of free parameters          18      18
## Akaike (AIC)                      7415.181  7415.181
## Bayesian (BIC)                     7480.152  7480.152
## Sample-size adjusted Bayesian (BIC) 7423.078  7423.078
##
## Root Mean Square Error of Approximation:
##
## RMSEA                            0.080    0.062
## 90 Percent Confidence Interval    0.054  0.107    0.037  0.087
## P-value RMSEA <= 0.05            0.032    0.193
##
## Robust RMSEA                      0.072
## 90 Percent Confidence Interval    0.038  0.105
##
## Standardized Root Mean Square Residual:
##
## SRMR                            0.041    0.041
##
## Parameter Estimates:
```

```

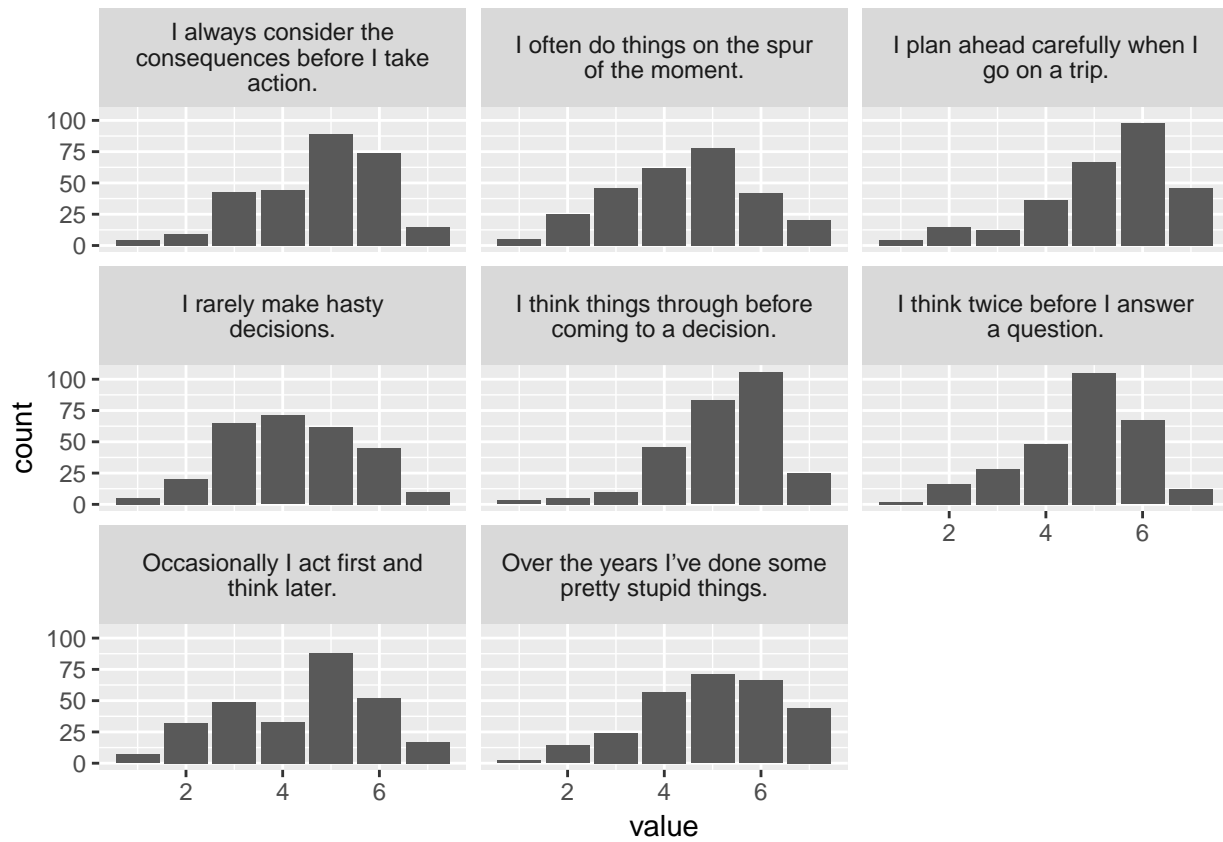
##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## anx_one =~
##   anx_2 (a) 1.000 0.436 0.277
##   anx_4 (a) 1.000 0.436 0.316
##   anx_6 (a) 1.000 0.436 0.303
##   anx_8 (a) 1.000 0.436 0.294
## anx_two =~
##   anx_1 (b) 1.000 0.597 0.399
##   anx_3 (b) 1.000 0.597 0.402
##   anx_5 (b) 1.000 0.597 0.414
##   anx_7 (b) 1.000 0.597 0.396
## anx_gen =~
##   anx_2 1.000 0.898 0.569
##   anx_4 0.844 0.136 6.223 0.000 0.758 0.548
##   anx_7 0.889 0.271 3.282 0.001 0.798 0.529
##   anx_8 1.009 0.146 6.917 0.000 0.906 0.611
##   anx_1 0.984 0.282 3.490 0.000 0.883 0.590
##   anx_3 0.843 0.258 3.269 0.001 0.757 0.509
##   anx_5 0.406 0.186 2.190 0.029 0.365 0.253
##   anx_6 0.967 0.151 6.418 0.000 0.869 0.604
##
## Covariances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## anx_one ~~
##   anx_two 0.000 0.000 0.000
##   anx_gen 0.000 0.000 0.000
## anx_two ~~
##   anx_gen 0.000 0.000 0.000
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .anx_2 1.494 0.184 8.112 0.000 1.494 0.600
## .anx_4 1.147 0.118 9.737 0.000 1.147 0.600
## .anx_6 1.126 0.152 7.406 0.000 1.126 0.544
## .anx_8 1.186 0.131 9.040 0.000 1.186 0.540
## .anx_1 1.107 0.148 7.461 0.000 1.107 0.493
## .anx_3 1.279 0.187 6.827 0.000 1.279 0.579
## .anx_5 1.589 0.153 10.362 0.000 1.589 0.764
## .anx_7 1.279 0.153 8.352 0.000 1.279 0.563
## anx_one 0.190 0.209 0.912 0.362 1.000 1.000
## anx_two 0.357 0.168 2.120 0.034 1.000 1.000
## anx_gen 0.806 0.267 3.025 0.002 1.000 1.000

```

Shows an adequate solution.

Risk avoidance

Items



CFA 1

```
## lavaan 0.6-3 ended normally after 42 iterations
##
## Optimization method          NLMINB
## Number of free parameters    16
##
## Number of observations        273
##
## Estimator                     ML      Robust
## Model Fit Test Statistic      116.607  98.156
## Degrees of freedom            20      20
## P-value (Chi-square)          0.000    0.000
## Scaling correction factor      1.188
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic  575.375  418.315
## Degrees of freedom              28      28
## P-value                         0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.824    0.800
## Tucker-Lewis Index (TLI)        0.753    0.720
##
## Robust Comparative Fit Index (CFI)      0.827
## Robust Tucker-Lewis Index (TLI)        0.758
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)      -3488.796  -3488.796
## Loglikelihood unrestricted model (H1) -3430.492  -3430.492
##
## Number of free parameters          16      16
## Akaike (AIC)                      7009.591  7009.591
## Bayesian (BIC)                    7067.343  7067.343
## Sample-size adjusted Bayesian (BIC)  7016.611  7016.611
##
## Root Mean Square Error of Approximation:
##
## RMSEA                            0.133    0.120
## 90 Percent Confidence Interval      0.110  0.157    0.098  0.142
## P-value RMSEA <= 0.05              0.000    0.000
##
## Robust RMSEA                      0.130
## 90 Percent Confidence Interval      0.105  0.157
##
## Standardized Root Mean Square Residual:
##
## SRMR                            0.086    0.086
##
## Parameter Estimates:
```

```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## ria =~
## ria_1 1.000 0.416 4.631 0.000 0.400 0.288
## ria_2 1.928 0.416 4.631 0.000 0.771 0.690
## ria_3 1.774 0.378 4.689 0.000 0.710 0.469
## ria_4 2.389 0.534 4.477 0.000 0.956 0.741
## ria_5 1.697 0.390 4.351 0.000 0.679 0.480
## ria_6 2.067 0.447 4.624 0.000 0.827 0.618
## ria_7 1.796 0.425 4.228 0.000 0.719 0.522
## ria_8 1.994 0.426 4.680 0.000 0.797 0.651
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .ria_1 1.763 0.141 12.513 0.000 1.763 0.917
## .ria_2 0.653 0.071 9.134 0.000 0.653 0.523
## .ria_3 1.789 0.160 11.194 0.000 1.789 0.780
## .ria_4 0.751 0.101 7.428 0.000 0.751 0.451
## .ria_5 1.542 0.125 12.348 0.000 1.542 0.770
## .ria_6 1.105 0.122 9.026 0.000 1.105 0.618
## .ria_7 1.379 0.164 8.404 0.000 1.379 0.728
## .ria_8 0.866 0.095 9.075 0.000 0.866 0.577
## ria 0.160 0.071 2.267 0.023 1.000 1.000

```

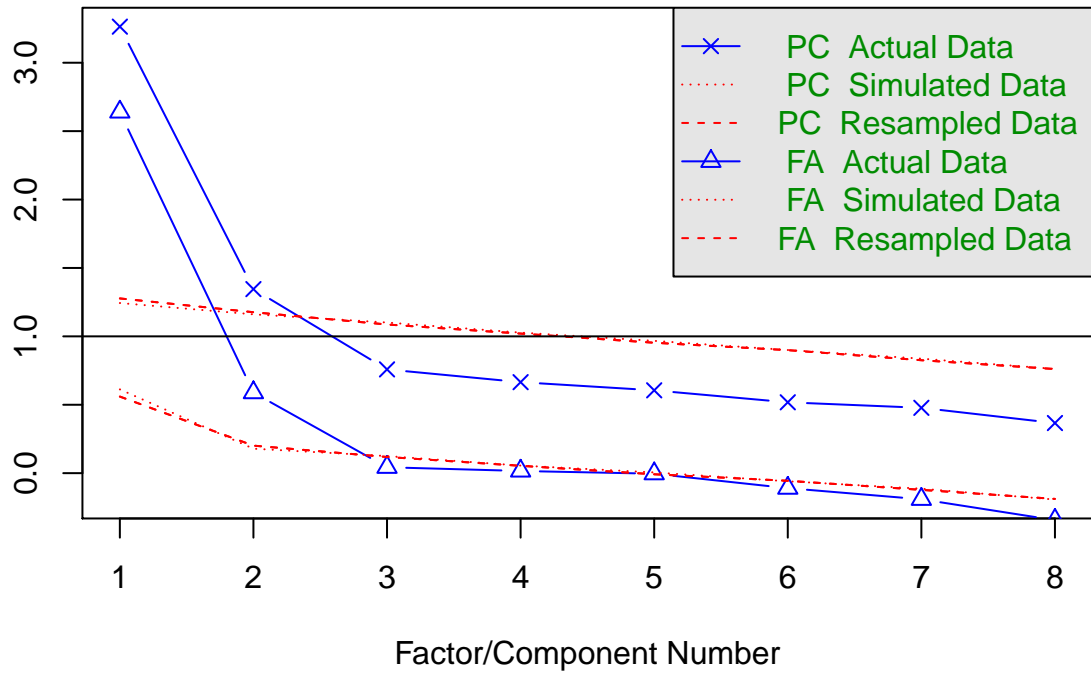
Does not show sufficient fit.

EFA 1

Parallel analysis

eigenvalues of principal components and factor analysis

Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 2 and the number of components = 2

Factor analysis

```
##
## Loadings:
##      ML2      ML1
## ria_1      0.466
## ria_2  0.745
## ria_3      0.892
## ria_4  0.687  0.107
## ria_5  0.192  0.498
## ria_6  0.554
## ria_7  0.647 -0.153
## ria_8  0.627
##
##              ML2    ML1
## SS loadings    2.182 1.308
## Proportion Var 0.273 0.164
## Cumulative Var 0.273 0.436
```

Produces a plausible solution.

CFA 2

```
## lavaan 0.6-3 did NOT end normally after 4490 iterations
## ** WARNING ** Estimates below are most likely unreliable
##
## Optimization method          NLMINB
## Number of free parameters    24
##
## Number of observations       273
##
## Estimator                    ML
## Model Fit Test Statistic     NA
## Degrees of freedom           NA
## P-value                      NA
##
## Parameter Estimates:
##
## Information                  Expected
## Information saturated (h1) model Structured
## Standard Errors              Robust.sem
##
## Latent Variables:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##  ria_one =~
##    ria_2      (a)    1.000              0.804  0.714
##    ria_4      (a)    1.000              0.804  0.642
##    ria_5              0.536      NA      0.431  0.305
##    ria_6      (a)    1.000              0.804  0.595
##    ria_7      (a)    1.000              0.804  0.585
##    ria_8      (a)    1.000              0.804  0.646
##  ria_two =~
##    ria_1              1.000              NaN   NaN
##    ria_3              0.000      NA      NaN   NaN
##    ria_5              0.000      NA      NaN   NaN
##  ria_gen =~
##    ria_1              1.000              0.005  0.003
##    ria_2              80.676      NA      0.369  0.328
##    ria_3              403.087      NA      1.845  1.219
##    ria_4              108.522      NA      0.497  0.397
##    ria_5              146.971      NA      0.673  0.475
##    ria_6              88.574      NA      0.405  0.300
##    ria_7              51.765      NA      0.237  0.172
##    ria_8              93.436      NA      0.428  0.344
##
## Covariances:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##  ria_one ~~
##    ria_two      -0.257      NA      -0.004 -0.004
##    ria_gen      -0.001      NA      -0.172 -0.172
##  ria_two ~~
##    ria_gen       0.006      NA       0.015  0.015
##
## Variances:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
```

##	.ria_2	0.586	NA	0.586	0.462
##	.ria_4	0.814	NA	0.814	0.519
##	.ria_5	1.464	NA	1.464	0.731
##	.ria_6	1.128	NA	1.128	0.618
##	.ria_7	1.254	NA	1.254	0.663
##	.ria_8	0.837	NA	0.837	0.541
##	.ria_1	7154.260	NA	7154.260	3722.042
##	.ria_3	-1.113	NA	-1.113	-0.486
##	ria_one	0.646	NA	1.000	1.000
##	ria_two	-7152.349	NA	NaN	NaN
##	ria_gen	0.000	NA	1.000	1.000

Does not produce a good-fitting model. Try single-dimension next.

CFA 3

```
## lavaan 0.6-3 ended normally after 24 iterations
##
## Optimization method          NLMINB
## Number of free parameters    10
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     6.589    5.268
## Degrees of freedom           5        5
## P-value (Chi-square)         0.253    0.384
## Scaling correction factor     1.251
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 360.534 217.930
## Degrees of freedom             10      10
## P-value                        0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)     0.995    0.999
## Tucker-Lewis Index (TLI)       0.991    0.997
##
## Robust Comparative Fit Index (CFI) 0.999
## Robust Tucker-Lewis Index (TLI)  0.998
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)   -2081.818 -2081.818
## Loglikelihood unrestricted model (H1) -2078.523 -2078.523
##
## Number of free parameters       10      10
## Akaike (AIC)                   4183.636 4183.636
## Bayesian (BIC)                  4219.731 4219.731
## Sample-size adjusted Bayesian (BIC) 4188.023 4188.023
##
## Root Mean Square Error of Approximation:
##
## RMSEA                          0.034    0.014
## 90 Percent Confidence Interval  0.000 0.096 0.000 0.080
## P-value RMSEA <= 0.05         0.585    0.744
##
## Robust RMSEA                   0.016
## 90 Percent Confidence Interval  0.000 0.096
##
## Standardized Root Mean Square Residual:
##
## SRMR                          0.023    0.023
##
## Parameter Estimates:
```



```

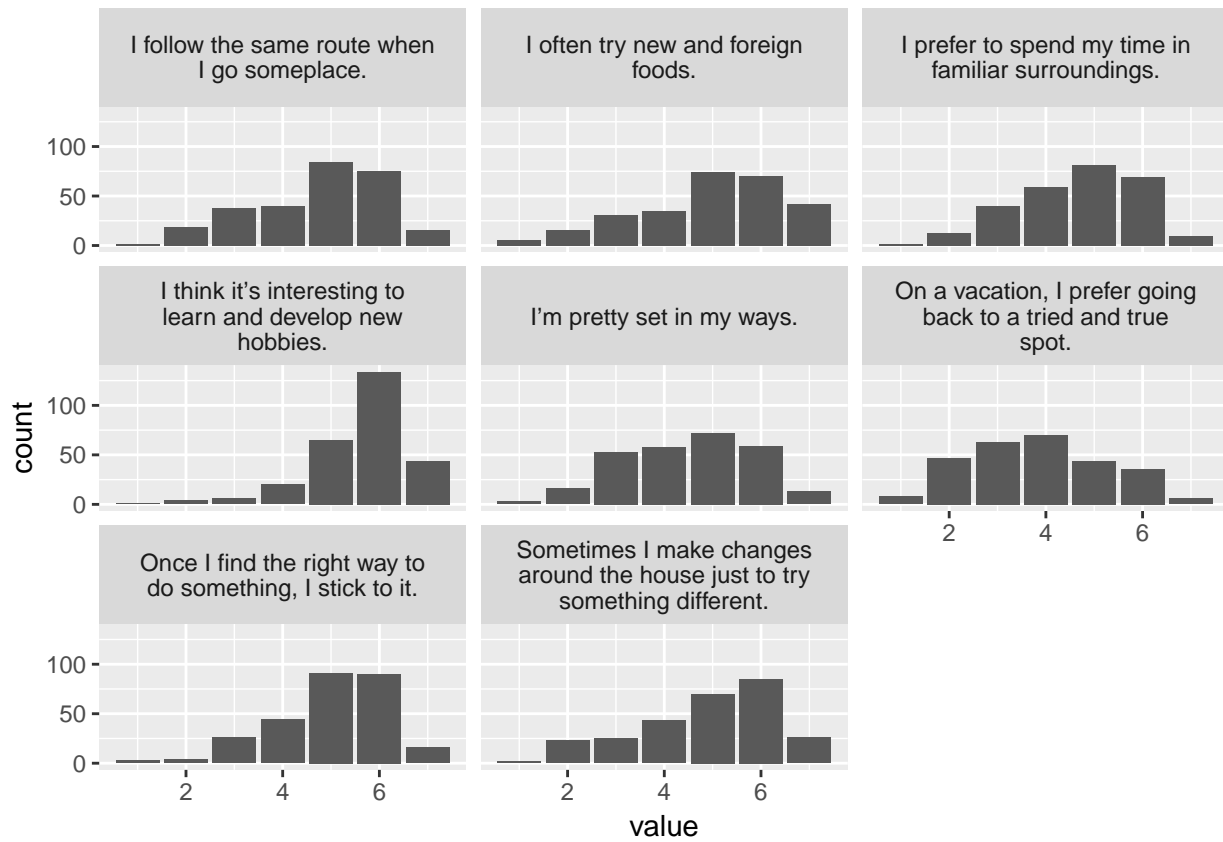
##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## ria_gen =~
## ria_2 1.000 0.810 0.725
## ria_4 1.180 0.135 8.752 0.000 0.955 0.740
## ria_6 0.974 0.123 7.890 0.000 0.789 0.590
## ria_7 0.963 0.102 9.489 0.000 0.780 0.566
## ria_8 0.998 0.101 9.918 0.000 0.808 0.660
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .ria_2 0.592 0.079 7.497 0.000 0.592 0.475
## .ria_4 0.752 0.109 6.924 0.000 0.752 0.452
## .ria_6 1.167 0.112 10.378 0.000 1.167 0.652
## .ria_7 1.287 0.166 7.746 0.000 1.287 0.679
## .ria_8 0.848 0.101 8.415 0.000 0.848 0.565
## ria_gen 0.655 0.132 4.963 0.000 1.000 1.000

```

Shows an adequate solution.

Traditionalism

Items



CFA 1

```
## lavaan 0.6-3 ended normally after 27 iterations
##
## Optimization method          NLMINB
## Number of free parameters    16
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     114.157 103.153
## Degrees of freedom           20      20
## P-value (Chi-square)         0.000   0.000
## Scaling correction factor     1.107
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 389.347 325.626
## Degrees of freedom             28      28
## P-value                        0.000   0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.739   0.721
## Tucker-Lewis Index (TLI)        0.635   0.609
##
## Robust Comparative Fit Index (CFI)      0.741
## Robust Tucker-Lewis Index (TLI)        0.638
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)      -3511.023 -3511.023
## Loglikelihood unrestricted model (H1) -3453.944 -3453.944
##
## Number of free parameters          16      16
## Akaike (AIC)                      7054.046 7054.046
## Bayesian (BIC)                    7111.798 7111.798
## Sample-size adjusted Bayesian (BIC) 7061.065 7061.065
##
## Root Mean Square Error of Approximation:
##
## RMSEA                            0.131   0.123
## 90 Percent Confidence Interval    0.108 0.155   0.102 0.146
## P-value RMSEA <= 0.05            0.000   0.000
##
## Robust RMSEA                      0.130
## 90 Percent Confidence Interval    0.106 0.155
##
## Standardized Root Mean Square Residual:
##
## SRMR                            0.095   0.095
##
## Parameter Estimates:
```

```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## tra_gen =~
## tra_1 1.000 0.910 0.685
## tra_2 -0.014 0.090 -0.156 0.876 -0.013 -0.013
## tra_3 0.791 0.100 7.886 0.000 0.720 0.633
## tra_4 0.204 0.125 1.625 0.104 0.186 0.124
## tra_5 0.948 0.109 8.713 0.000 0.863 0.692
## tra_6 0.071 0.124 0.571 0.568 0.065 0.046
## tra_7 0.733 0.111 6.585 0.000 0.667 0.470
## tra_8 0.841 0.117 7.170 0.000 0.766 0.569
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .tra_1 0.938 0.128 7.332 0.000 0.938 0.531
## .tra_2 0.961 0.111 8.661 0.000 0.961 1.000
## .tra_3 0.776 0.094 8.268 0.000 0.776 0.599
## .tra_4 2.207 0.164 13.447 0.000 2.207 0.985
## .tra_5 0.813 0.113 7.186 0.000 0.813 0.522
## .tra_6 1.998 0.148 13.473 0.000 1.998 0.998
## .tra_7 1.570 0.127 12.347 0.000 1.570 0.779
## .tra_8 1.223 0.136 9.015 0.000 1.223 0.676
## tra_gen 0.829 0.146 5.680 0.000 1.000 1.000

```

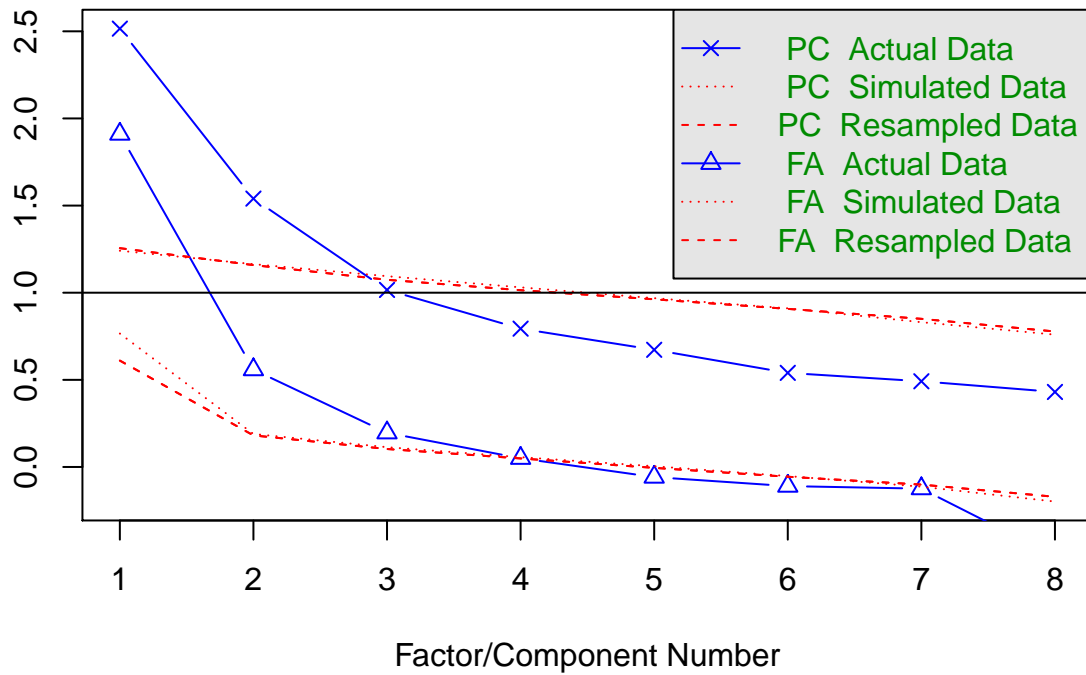
Data show poor fit to the model.

EFA 1

Parallel analysis

eigenvalues of principal components and factor analysis

Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 3 and the number of components = 2

Factor analysis

```
##
## Loadings:
##      ML1      ML3      ML2
## tra_1      0.344  0.408
## tra_2  0.996
## tra_3      0.769
## tra_4  0.218  0.329 -0.193
## tra_5      0.698
## tra_6  0.458 -0.143  0.211
## tra_7      0.566
## tra_8 -0.122  0.317  0.314
##
##              ML1      ML3      ML2
## SS loadings    1.271  1.155  0.949
## Proportion Var 0.159  0.144  0.119
## Cumulative Var 0.159  0.303  0.422
```

Does not show a convincing solution.

Factor analysis

```
##
## Loadings:
##      ML2      ML1
## tra_1 0.687
## tra_2      0.997
## tra_3 0.635
## tra_4 0.128 0.255
## tra_5 0.690
## tra_6      0.433
## tra_7 0.470
## tra_8 0.573 -0.121
##
##      ML2      ML1
## SS loadings 1.92 1.277
## Proportion Var 0.24 0.160
## Cumulative Var 0.24 0.399
```

Implies a single dimension, as on factor 2 there is only one significant loading.

CFA 2

```
## lavaan 0.6-3 ended normally after 24 iterations
##
## Optimization method          NLMINB
## Number of free parameters    10
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     12.362  10.686
## Degrees of freedom           5       5
## P-value (Chi-square)         0.030   0.058
## Scaling correction factor     1.157
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 283.858 243.214
## Degrees of freedom             10      10
## P-value                        0.000   0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)     0.973   0.976
## Tucker-Lewis Index (TLI)       0.946   0.951
##
## Robust Comparative Fit Index (CFI) 0.976
## Robust Tucker-Lewis Index (TLI) 0.952
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)    -2151.223 -2151.223
## Loglikelihood unrestricted model (H1) -2145.042 -2145.042
##
## Number of free parameters        10      10
## Akaike (AIC)                    4322.447  4322.447
## Bayesian (BIC)                   4358.541  4358.541
## Sample-size adjusted Bayesian (BIC) 4326.834  4326.834
##
## Root Mean Square Error of Approximation:
##
## RMSEA                          0.073   0.065
## 90 Percent Confidence Interval  0.021  0.126   0.005  0.115
## P-value RMSEA <= 0.05         0.188   0.266
##
## Robust RMSEA                    0.069
## 90 Percent Confidence Interval      NA  0.128
##
## Standardized Root Mean Square Residual:
##
## SRMR                          0.034   0.034
##
## Parameter Estimates:
```



```

##
## Information Expected
## Information saturated (h1) model Structured
## Standard Errors Robust.sem
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## tra_gen =~
## tra_1 1.000 0.916 0.689
## tra_3 0.794 0.099 7.993 0.000 0.727 0.639
## tra_5 0.933 0.107 8.706 0.000 0.854 0.684
## tra_7 0.725 0.110 6.589 0.000 0.664 0.468
## tra_8 0.836 0.116 7.174 0.000 0.765 0.569
##
## Variances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .tra_1 0.928 0.128 7.234 0.000 0.928 0.525
## .tra_3 0.767 0.093 8.225 0.000 0.767 0.592
## .tra_5 0.829 0.113 7.350 0.000 0.829 0.532
## .tra_7 1.574 0.127 12.423 0.000 1.574 0.781
## .tra_8 1.224 0.136 9.005 0.000 1.224 0.677
## tra_gen 0.838 0.146 5.729 0.000 1.000 1.000

```

Shows adequate fit.

Results

Structural regression model

In what follows, we present the results of the structural regression model, in which we predict the three dimensions of privacy on the basis of the aforementioned personality facets. The personality facets are modelled as latent factors with single indicators, in which the indicators' error variances are specified using the results from the CFAs.

```
## lavaan 0.6-3 ended normally after 48 iterations
##
## Optimization method          NLMINB
## Number of free parameters    67
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     242.667  226.975
## Degrees of freedom           137      137
## P-value (Chi-square)         0.000    0.000
## Scaling correction factor     1.069
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic 1409.494 1317.911
## Degrees of freedom             187      187
## P-value                        0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.914    0.920
## Tucker-Lewis Index (TLI)        0.882    0.891
##
## Robust Comparative Fit Index (CFI)      0.920
## Robust Tucker-Lewis Index (TLI)        0.891
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)      -6845.604 -6845.604
## Loglikelihood unrestricted model (H1) -6724.271 -6724.271
##
## Number of free parameters          67      67
## Akaike (AIC)                      13825.208 13825.208
## Bayesian (BIC)                     14067.042 14067.042
## Sample-size adjusted Bayesian (BIC) 13854.602 13854.602
##
## Root Mean Square Error of Approximation:
##
## RMSEA                            0.053    0.049
## 90 Percent Confidence Interval      0.042  0.064    0.038  0.060
## P-value RMSEA <= 0.05              0.307    0.544
##
## Robust RMSEA                      0.051
```

```

## 90 Percent Confidence Interval                                0.039  0.062
##
## Standardized Root Mean Square Residual:
##
## SRMR                                0.056            0.056
##
## Parameter Estimates:
##
## Information                                Expected
## Information saturated (h1) model          Structured
## Standard Errors                          Robust.sem
##
## Latent Variables:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
## pri_nee_gov =~
##   pri_nee_soc_1      1.000
##   pri_nee_soc_2      0.979    0.092   10.649    0.000    1.054    0.707
##   pri_nee_soc_3      1.022    0.090   11.405    0.000    1.101    0.765
##   pri_nee_soc_4      1.144    0.088   12.925    0.000    1.232    0.808
##   pri_nee_soc_9      1.017    0.090   11.290    0.000    1.096    0.731
## pri_nee_int =~
##   pri_nee_gen_1      1.000
##   pri_nee_int_2      0.460    0.153    3.002    0.003    0.425    0.278
##   pri_nee_int_7      0.737    0.121    6.115    0.000    0.680    0.531
##   pri_nee_int_9      0.768    0.121    6.322    0.000    0.708    0.543
## pri_nee_ano =~
##   pri_nee_soc_6      1.000
##   pri_nee_soc_7      1.152    0.147    7.844    0.000    1.050    0.743
##   pri_nee_soc_8      0.929    0.121    7.690    0.000    0.848    0.575
##   pri_nee_int_2      0.656    0.138    4.768    0.000    0.598    0.391
## soc =~
##   soc_gen            1.000
##   soc_gen            0.808    0.887
## anx =~
##   anx_gen            1.000
##   anx_gen            0.679    0.902
## tra =~
##   tra_gen            1.000
##   tra_gen            0.686    0.858
## ria =~
##   ria_gen            1.000
##   ria_gen            0.639    0.881
## itg =~
##   itg_gen            1.000
##   itg_gen            0.620    0.887
##
## Regressions:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
## pri_nee_gov ~
##   soc          -0.243    0.110   -2.205    0.027   -0.182   -0.182
##   itg          -0.062    0.150   -0.414    0.679   -0.036   -0.036
##   anx          -0.269    0.132   -2.037    0.042   -0.170   -0.170
##   tra           0.162    0.143    1.138    0.255    0.103    0.103
##   ria           0.236    0.161    1.468    0.142    0.140    0.140
##   male          0.344    0.153    2.249    0.025    0.320    0.143
##   age           0.027    0.012    2.217    0.027    0.025    0.067
##   inc           0.044    0.069    0.647    0.518    0.041    0.041
## pri_nee_int ~
##   soc          -0.380    0.097   -3.922    0.000   -0.333   -0.333

```

```

##      itg          0.037    0.127    0.292    0.770    0.025    0.025
##      anx          0.003    0.111    0.029    0.977    0.002    0.002
##      tra          0.183    0.147    1.239    0.215    0.136    0.136
##      ria          0.399    0.139    2.862    0.004    0.276    0.276
##      male         0.299    0.139    2.153    0.031    0.324    0.145
##      age          0.016    0.012    1.329    0.184    0.017    0.045
##      inc          0.022    0.076    0.286    0.775    0.024    0.024
## pri_nee_ano ~
##      soc          -0.240    0.094   -2.550    0.011   -0.213   -0.213
##      itg          -0.366    0.137   -2.669    0.008   -0.249   -0.249
##      anx          -0.147    0.113   -1.299    0.194   -0.109   -0.109
##      tra          -0.012    0.133   -0.087    0.931   -0.009   -0.009
##      ria          0.039    0.126    0.312    0.755    0.028    0.028
##      male         0.303    0.145    2.081    0.037    0.332    0.148
##      age          0.034    0.016    2.100    0.036    0.037    0.098
##      inc          0.130    0.073    1.777    0.076    0.143    0.143
##
## Covariances:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      soc ~~
##      anx        -0.148    0.043   -3.431    0.001   -0.270   -0.270
##      tra        -0.086    0.043   -1.993    0.046   -0.155   -0.155
##      ria        -0.049    0.047   -1.044    0.297   -0.094   -0.094
##      itg         0.039    0.040    0.968    0.333    0.078    0.078
##      anx ~~
##      tra         0.081    0.039    2.049    0.040    0.174    0.174
##      ria         0.035    0.038    0.923    0.356    0.081    0.081
##      itg        -0.015    0.032   -0.478    0.633   -0.037   -0.037
##      tra ~~
##      ria         0.177    0.039    4.591    0.000    0.404    0.404
##      itg        -0.004    0.036   -0.124    0.902   -0.010   -0.010
##      ria ~~
##      itg         0.118    0.029    4.012    0.000    0.297    0.297
## .pri_nee_gov ~~
##      .pri_nee_int 0.270    0.081    3.352    0.001    0.345    0.345
##      .pri_nee_ano 0.589    0.103    5.718    0.000    0.702    0.702
## .pri_nee_int ~~
##      .pri_nee_ano 0.218    0.076    2.870    0.004    0.340    0.340
##
## Variances:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      .soc_gen     0.177          0.177    0.213
##      .itg_gen      0.104          0.104    0.213
##      .anx_gen      0.106          0.106    0.187
##      .tra_gen      0.169          0.169    0.264
##      .ria_gen      0.118          0.118    0.224
##      .pri_nee_soc_1 0.953    0.099    9.594    0.000    0.953    0.451
##      .pri_nee_soc_2 1.112    0.154    7.244    0.000    1.112    0.500
##      .pri_nee_soc_3 0.858    0.119    7.212    0.000    0.858    0.414
##      .pri_nee_soc_4 0.807    0.115    6.997    0.000    0.807    0.347
##      .pri_nee_soc_9 1.046    0.107    9.762    0.000    1.046    0.466
##      .pri_nee_gen_1 0.935    0.141    6.618    0.000    0.935    0.523
##      .pri_nee_int_2 1.622    0.153   10.600    0.000    1.622    0.694
##      .pri_nee_int_7 1.179    0.127    9.295    0.000    1.179    0.718

```

##	.pri_nee_int_9	1.201	0.155	7.761	0.000	1.201	0.705
##	.pri_nee_soc_6	1.485	0.172	8.657	0.000	1.485	0.641
##	.pri_nee_soc_7	0.897	0.135	6.670	0.000	0.897	0.449
##	.pri_nee_soc_8	1.456	0.176	8.259	0.000	1.456	0.670
##	.pri_nee_gov	1.023	0.162	6.322	0.000	0.882	0.882
##	.pri_nee_int	0.598	0.142	4.212	0.000	0.702	0.702
##	.pri_nee_ano	0.688	0.158	4.357	0.000	0.827	0.827
##	soc	0.653	0.074	8.851	0.000	1.000	1.000
##	anx	0.461	0.043	10.673	0.000	1.000	1.000
##	tra	0.471	0.052	8.980	0.000	1.000	1.000
##	ria	0.409	0.059	6.972	0.000	1.000	1.000
##	itg	0.384	0.036	10.823	0.000	1.000	1.000

Tables

Final items measuring need for privacy

name	content
pri_nee_soc_1	I need government agencies to respect my privacy, even if that hinders a greater societal cause.
pri_nee_soc_2	I need the information that companies (e.g., Amazon, Facebook, or Google) have about me to stay private so that the government can never access it.
pri_nee_soc_3	I don't want the government to gather information about me, even if that makes it more difficult for them to spend tax income efficiently.
pri_nee_soc_4	I don't want government agencies to monitor my personal communication, even if doing so prevents future terrorist attacks.
pri_nee_soc_6	I need to be able to use a fake name on social network sites to preserve my privacy.
pri_nee_soc_7	I feel the need to avoid places with video surveillance.
pri_nee_soc_8	I prefer not to carry my ID with me all the time to preserve my privacy.
pri_nee_soc_9	I feel the need to protect my privacy from government agencies.
pri_nee_int_2	My need for privacy is so strong that it prevents me from using Facebook actively.
pri_nee_int_7	I don't feel the need to tell my friends all my secrets.
pri_nee_int_9	I feel the need to protect my privacy from other people.
pri_nee_gen_1	I prefer it when other people do not know much about me.

Psychometrics

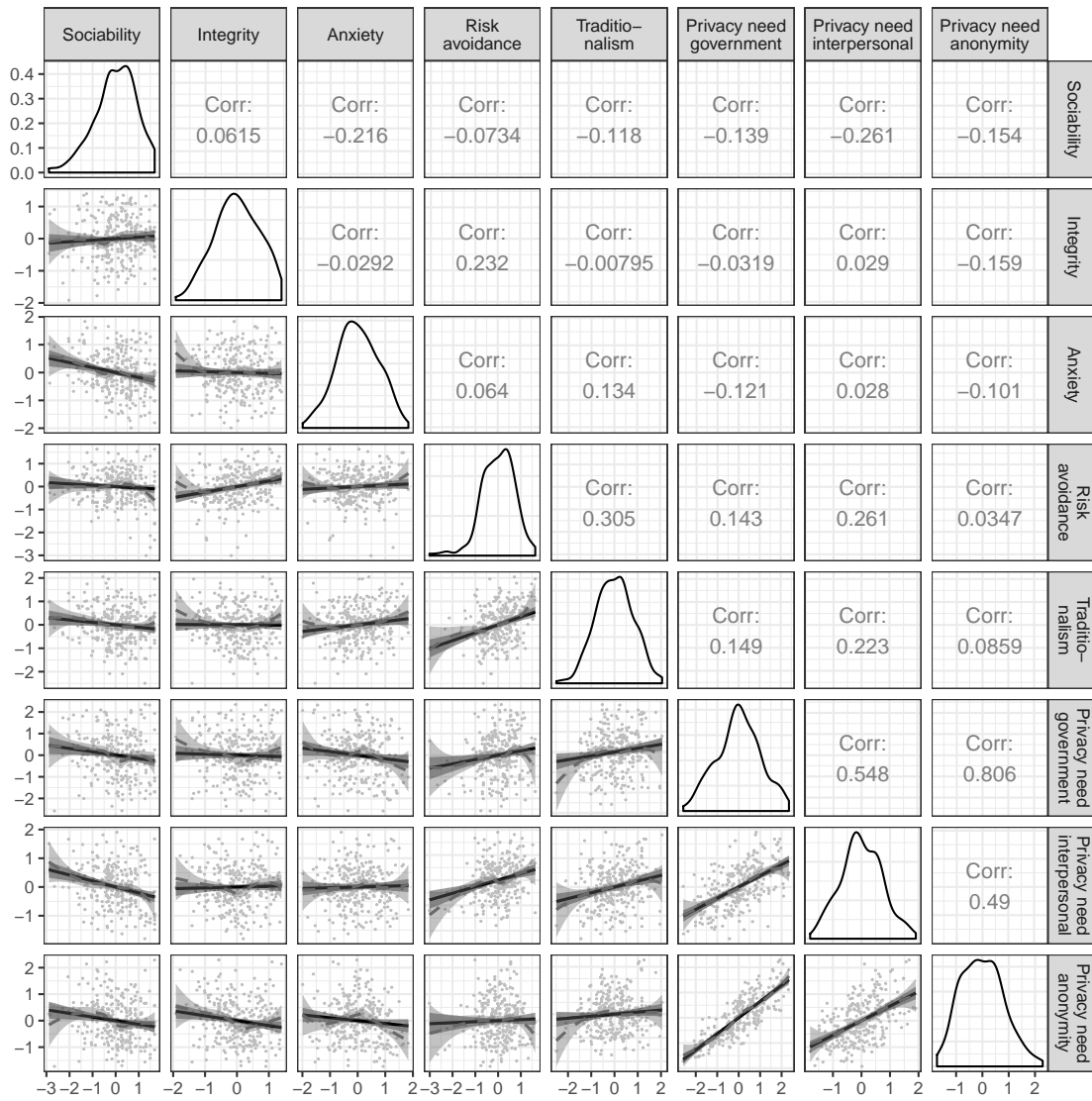
	m	sd	chisq	df	pvalue	cfi	tli	rmsea	srmr	omega	alpha	ave
(Combined)	4.18	1.62	101.72	50	< .001	.94	.92	.06	.06	.85	.88	.46
Government	4.13	1.49	7.26	5	.202	1.00	.99	.04	.02	.87	.87	.57
Interpersonal	4.21	1.59	10.22	2	.006	.93	.78	.12	.04	.62	.62	.30
Anonymity	2.92	1.50	3.16	2	.206	.99	.98	.05	.03	.69	.70	.37
Sociability	4.70	1.50	6.20	2	.045	.98	.94	.09	.03	.79	.79	.49
Integrity	4.56	1.84	47.44	25	.004	.96	.94	.06	.04	.79	.83	.41
Anxiety	4.41	1.53	36.98	18	.005	.96	.93	.06	.04	.80	.82	.42
Risk avoidance	4.30	1.56	5.27	5	.384	1.00	1.00	.01	.02	.79	.79	.43
Traditionality	3.91	1.60	10.69	5	.058	.98	.95	.06	.03	.74	.74	.37

Structural regression model

Outcome	Predictor	b	ll	ul	beta	p
Privacy need government	Sociability	-0.24	-0.46	-0.03	-.18	.027
Privacy need government	Integrity	-0.06	-0.36	0.23	-.04	.679
Privacy need government	Anxiety	-0.27	-0.53	-0.01	-.17	.042
Privacy need government	Traditionalism	0.16	-0.12	0.44	.10	.255
Privacy need government	Risk avoidance	0.24	-0.08	0.55	.14	.142
Privacy need government	Male	0.34	0.04	0.64	.14	.025
Privacy need government	Age	0.03	< 0.01	0.05	.07	.027
Privacy need government	Income	0.04	-0.09	0.18	.04	.518
Privacy need interpersonal	Sociability	-0.38	-0.57	-0.19	-.33	< .001
Privacy need interpersonal	Integrity	0.04	-0.21	0.29	.02	.770
Privacy need interpersonal	Anxiety	< 0.01	-0.21	0.22	< .01	.977
Privacy need interpersonal	Traditionalism	0.18	-0.11	0.47	.14	.215
Privacy need interpersonal	Risk avoidance	0.40	0.13	0.67	.28	.004
Privacy need interpersonal	Male	0.30	0.03	0.57	.14	.031
Privacy need interpersonal	Age	0.02	-0.01	0.04	.04	.184
Privacy need interpersonal	Income	0.02	-0.13	0.17	.02	.775
Privacy need anonymity	Sociability	-0.24	-0.43	-0.06	-.21	.011
Privacy need anonymity	Integrity	-0.37	-0.63	-0.10	-.25	.008
Privacy need anonymity	Anxiety	-0.15	-0.37	0.07	-.11	.194
Privacy need anonymity	Traditionalism	-0.01	-0.27	0.25	-.01	.931
Privacy need anonymity	Risk avoidance	0.04	-0.21	0.29	.03	.755
Privacy need anonymity	Male	0.30	0.02	0.59	.15	.037
Privacy need anonymity	Age	0.03	< 0.01	0.07	.10	.036
Privacy need anonymity	Income	0.13	-0.01	0.27	.14	.076

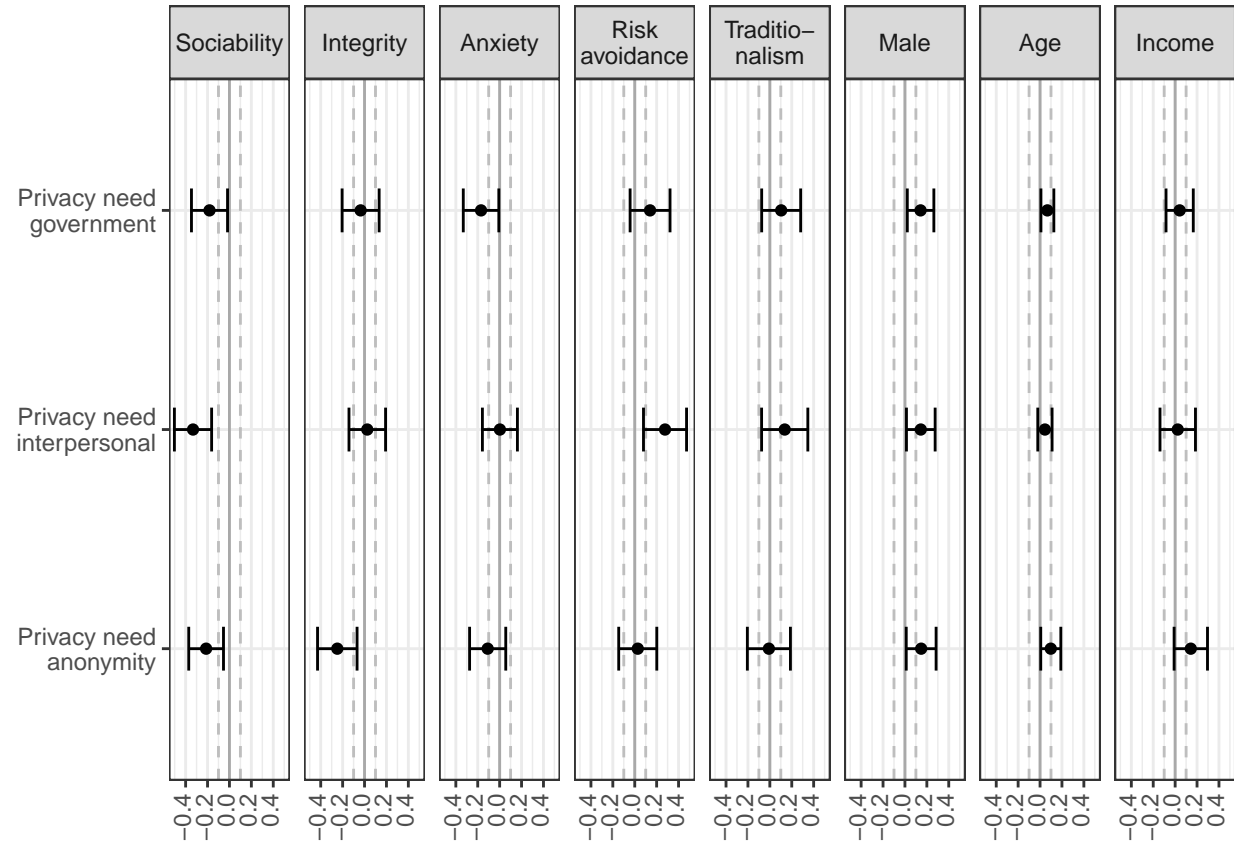
Figures

Bivariate relations

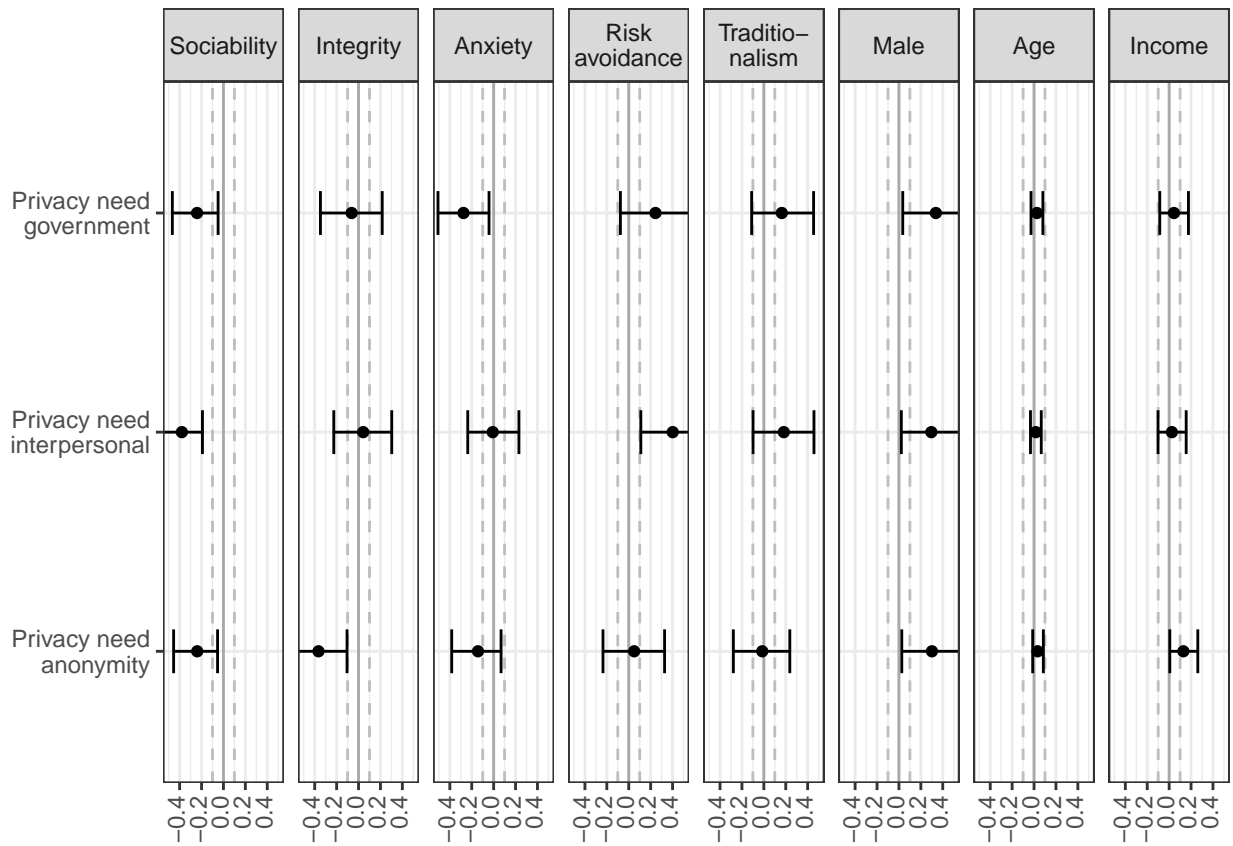


Structural regression model

Confidence intervals estimated using lavaan's standardized solution.



Confidence intervals estimated using Bootstrap approach with 2000 draws. Note that the results differ slightly from the regular approach, which is why in the paper we present the results using lavaan's standardized solution.



Additional analyses

Structural regression model with need for privacy measured as bifactor

Results

```
## lavaan 0.6-3 ended normally after 95 iterations
##
## Optimization method          NLMINB
## Number of free parameters    84
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     190.360  177.781
## Degrees of freedom           120      120
## P-value (Chi-square)         0.000    0.000
## Scaling correction factor     1.071
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic  1409.494  1317.911
## Degrees of freedom              187      187
## P-value                        0.000    0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)      0.942    0.949
## Tucker-Lewis Index (TLI)        0.910    0.920
##
## Robust Comparative Fit Index (CFI)      0.949
## Robust Tucker-Lewis Index (TLI)        0.920
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)      -6819.451  -6819.451
## Loglikelihood unrestricted model (H1) -6724.271  -6724.271
##
## Number of free parameters          84      84
## Akaike (AIC)                      13806.901  13806.901
## Bayesian (BIC)                     14110.097  14110.097
## Sample-size adjusted Bayesian (BIC)  13843.754  13843.754
##
## Root Mean Square Error of Approximation:
##
## RMSEA                            0.046    0.042
## 90 Percent Confidence Interval      0.033  0.058    0.029  0.054
## P-value RMSEA <= 0.05              0.676    0.854
##
## Robust RMSEA                      0.043
## 90 Percent Confidence Interval      0.029  0.056
```

```

## Standardized Root Mean Square Residual:
##
##      SRMR                      0.046          0.046
##
## Parameter Estimates:
##
##      Information                      Expected
##      Information saturated (h1) model      Structured
##      Standard Errors                      Robust.sem
##
## Latent Variables:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
##      pri_nee_gen =~
##      pri_nee_soc_1      1.000
##      pri_nee_soc_2      1.110      0.129      8.622      0.000      0.846      0.583
##      pri_nee_soc_3      1.119      0.115      9.750      0.000      0.939      0.629
##      pri_nee_soc_4      1.117      0.110     10.113      0.000      0.947      0.658
##      pri_nee_soc_9      1.117      0.110     10.113      0.000      0.945      0.621
##      pri_nee_soc_9      1.299      0.144      9.048      0.000      0.945      0.621
##      pri_nee_gen_1      0.410      0.127      3.241      0.001      0.945      0.621
##      pri_nee_int_2      0.847      0.171      4.947      0.000      1.099      0.730
##      pri_nee_int_7      0.040      0.125      0.319      0.750      0.347      0.260
##      pri_nee_int_9      0.847      0.171      4.947      0.000      0.717      0.468
##      pri_nee_int_7      0.040      0.125      0.319      0.750      0.034      0.026
##      pri_nee_int_9      0.645      0.128      5.027      0.000      0.546      0.418
##      pri_nee_soc_6      1.027      0.180      5.700      0.000      0.869      0.570
##      pri_nee_soc_7      0.993      0.203      4.893      0.000      0.840      0.596
##      pri_nee_soc_8      0.934      0.174      5.361      0.000      0.840      0.596
##      pri_nee_soc_8      0.934      0.174      5.361      0.000      0.790      0.535
##      pri_nee_gov =~
##      pri_nee_soc_1      1.000
##      pri_nee_soc_2      0.757      0.149      5.075      0.000      0.828      0.570
##      pri_nee_soc_3      0.757      0.149      5.075      0.000      0.627      0.420
##      pri_nee_soc_3      0.864      0.140      6.165      0.000      0.627      0.420
##      pri_nee_soc_4      1.212      0.153      7.930      0.000      0.715      0.497
##      pri_nee_soc_9      1.212      0.153      7.930      0.000      0.715      0.497
##      pri_nee_soc_9      0.605      0.156      3.868      0.000      1.004      0.660
##      pri_nee_soc_9      0.605      0.156      3.868      0.000      0.501      0.333
##      pri_nee_int =~
##      pri_nee_gen_1      1.000
##      pri_nee_int_2      0.423      0.156      2.718      0.007      0.808      0.605
##      pri_nee_int_7      0.423      0.156      2.718      0.007      0.342      0.223
##      pri_nee_int_7      1.019      0.189      5.397      0.000      0.823      0.643
##      pri_nee_int_9      0.599      0.135      4.432      0.000      0.823      0.643
##      pri_nee_int_9      0.599      0.135      4.432      0.000      0.484      0.371
##      pri_nee_ano =~
##      pri_nee_soc_6      1.000
##      pri_nee_soc_7      2.319      0.922      2.514      0.012      0.808      0.605
##      pri_nee_soc_7      2.319      0.922      2.514      0.012      0.868      0.616
##      pri_nee_soc_8      1.174      0.465      2.522      0.012      0.868      0.616
##      pri_nee_int_2      0.856      0.422      2.029      0.042      0.440      0.298
##      pri_nee_int_2      0.856      0.422      2.029      0.042      0.320      0.209
##      soc =~
##      soc_gen            1.000
##      soc_gen            1.000
##      itg =~
##      itg_gen            1.000
##      itg_gen            1.000
##      anx =~
##      anx_gen            1.000
##      anx_gen            1.000
##      ria =~
##      ria_gen            1.000
##      ria_gen            1.000
##      tra =~
##      tra_gen            1.000
##      tra_gen            1.000
##
## Regressions:
##      Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all

```

```

## pri_nee_gen ~
## soc -0.163 0.115 -1.425 0.154 -0.156 -0.156
## itg -0.149 0.163 -0.911 0.362 -0.109 -0.109
## anx 0.139 0.152 0.914 0.360 0.111 0.111
## ria 0.430 0.191 2.253 0.024 0.325 0.325
## tra -0.330 0.198 -1.669 0.095 -0.268 -0.268
## male 0.243 0.181 1.344 0.179 0.287 0.128
## age 0.049 0.021 2.341 0.019 0.058 0.153
## inc 0.085 0.080 1.071 0.284 0.101 0.101
## pri_nee_gov ~
## soc -0.077 0.138 -0.559 0.576 -0.075 -0.075
## itg 0.109 0.181 0.604 0.546 0.082 0.082
## anx -0.470 0.181 -2.601 0.009 -0.385 -0.385
## ria -0.269 0.199 -1.352 0.176 -0.208 -0.208
## tra 0.596 0.248 2.405 0.016 0.494 0.494
## male 0.077 0.209 0.371 0.711 0.093 0.042
## age -0.028 0.023 -1.216 0.224 -0.033 -0.088
## inc -0.051 0.082 -0.621 0.535 -0.061 -0.061
## pri_nee_int ~
## soc -0.294 0.090 -3.264 0.001 -0.294 -0.294
## itg 0.095 0.125 0.764 0.445 0.073 0.073
## anx -0.069 0.106 -0.654 0.513 -0.058 -0.058
## ria 0.233 0.148 1.571 0.116 0.184 0.184
## tra 0.291 0.148 1.961 0.050 0.247 0.247
## male 0.187 0.136 1.381 0.167 0.232 0.103
## age -0.006 0.011 -0.557 0.577 -0.008 -0.020
## inc -0.022 0.067 -0.325 0.745 -0.027 -0.027
## pri_nee_ano ~
## soc -0.049 0.066 -0.753 0.452 -0.107 -0.107
## itg -0.136 0.097 -1.395 0.163 -0.225 -0.225
## anx -0.177 0.109 -1.621 0.105 -0.321 -0.321
## ria -0.232 0.143 -1.616 0.106 -0.395 -0.395
## tra 0.186 0.131 1.412 0.158 0.340 0.340
## male 0.067 0.098 0.684 0.494 0.180 0.080
## age -0.008 0.009 -0.876 0.381 -0.022 -0.058
## inc 0.028 0.047 0.586 0.558 0.074 0.074
##
## Covariances:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_gen ~~
## .pri_nee_gov 0.000 0.000 0.000
## .pri_nee_int 0.000 0.000 0.000
## .pri_nee_ano 0.000 0.000 0.000
## .pri_nee_gov ~~
## .pri_nee_int 0.000 0.000 0.000
## .pri_nee_ano 0.000 0.000 0.000
## .pri_nee_int ~~
## .pri_nee_ano 0.000 0.000 0.000
## soc ~~
## itg 0.039 0.040 0.970 0.332 0.078 0.078
## anx -0.148 0.043 -3.428 0.001 -0.269 -0.269
## ria -0.048 0.047 -1.041 0.298 -0.094 -0.094
## tra -0.086 0.043 -1.995 0.046 -0.156 -0.156
## itg ~~

```

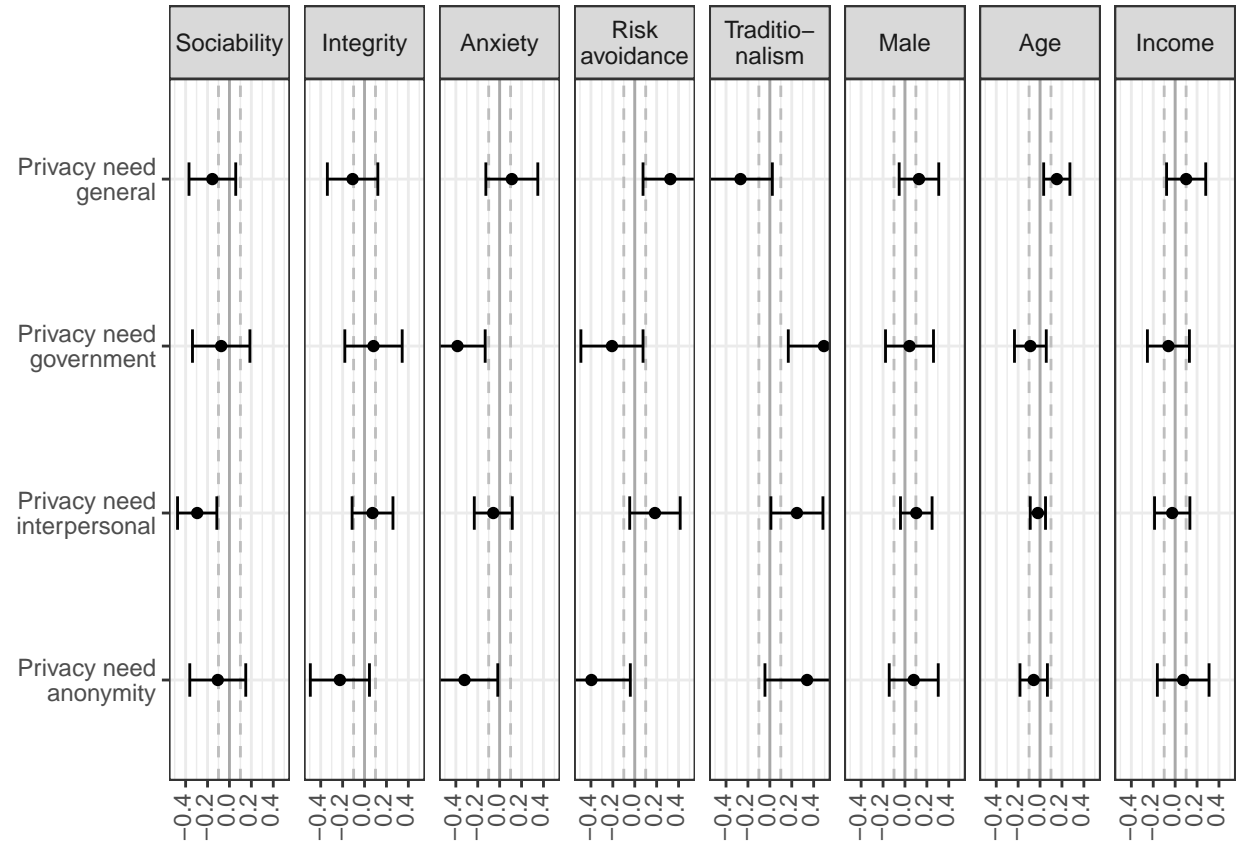
```

##      anx      -0.015    0.032   -0.480    0.632   -0.037   -0.037
##      ria      0.118    0.029    4.009    0.000    0.297    0.297
##      tra     -0.004    0.036   -0.122    0.903   -0.010   -0.010
##  anx ~~
##      ria      0.035    0.038    0.917    0.359    0.080    0.080
##      tra      0.081    0.039    2.052    0.040    0.174    0.174
##  ria ~~
##      tra      0.178    0.039    4.600    0.000    0.405    0.405
##
## Variances:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      .soc_gen    0.177
##      .itg_gen    0.104
##      .anx_gen    0.106
##      .ria_gen    0.118
##      .tra_gen    0.169
##      .pri_nee_soc_1 0.914    0.107    8.522    0.000    0.914    0.433
##      .pri_nee_soc_2 1.127    0.151    7.481    0.000    1.127    0.506
##      .pri_nee_soc_3 0.864    0.117    7.366    0.000    0.864    0.417
##      .pri_nee_soc_4 0.695    0.127    5.476    0.000    0.695    0.300
##      .pri_nee_soc_9 0.966    0.111    8.700    0.000    0.966    0.427
##      .pri_nee_gen_1 0.973    0.143    6.820    0.000    0.973    0.545
##      .pri_nee_int_2 1.636    0.154   10.594    0.000    1.636    0.698
##      .pri_nee_int_7 0.956    0.146    6.554    0.000    0.956    0.583
##      .pri_nee_int_9 1.139    0.140    8.142    0.000    1.139    0.667
##      .pri_nee_soc_6 1.511    0.164    9.224    0.000    1.511    0.649
##      .pri_nee_soc_7 0.702    0.220    3.188    0.001    0.702    0.354
##      .pri_nee_soc_8 1.445    0.167    8.658    0.000    1.445    0.663
##      .pri_nee_gen    0.572    0.151    3.775    0.000    0.799    0.799
##      .pri_nee_gov    0.475    0.152    3.118    0.002    0.692    0.692
##      .pri_nee_int    0.484    0.127    3.802    0.000    0.740    0.740
##      .pri_nee_ano    0.090    0.069    1.302    0.193    0.639    0.639
##      soc          0.653    0.074    8.853    0.000    1.000    1.000
##      itg          0.384    0.036   10.823    0.000    1.000    1.000
##      anx          0.461    0.043   10.671    0.000    1.000    1.000
##      ria          0.408    0.059    6.964    0.000    1.000    1.000
##      tra          0.471    0.052    8.992    0.000    1.000    1.000
##
## R-Square:
##      Estimate
##      soc_gen    0.787
##      itg_gen    0.787
##      anx_gen    0.813
##      ria_gen    0.776
##      tra_gen    0.736
##      pri_nee_soc_1 0.567
##      pri_nee_soc_2 0.494
##      pri_nee_soc_3 0.583
##      pri_nee_soc_4 0.700
##      pri_nee_soc_9 0.573
##      pri_nee_gen_1 0.455
##      pri_nee_int_2 0.302
##      pri_nee_int_7 0.417
##      pri_nee_int_9 0.333

```

##	pri_nee_soc_6	0.351
##	pri_nee_soc_7	0.646
##	pri_nee_soc_8	0.337
##	pri_nee_gen	0.201
##	pri_nee_gov	0.308
##	pri_nee_int	0.260
##	pri_nee_ano	0.361

Visualization



Structural regression model with individual items

```
## lavaan 0.6-3 ended normally after 121 iterations
##
## Optimization method          NLMINB
## Number of free parameters    465
##
## Number of observations       273
##
## Estimator                    ML      Robust
## Model Fit Test Statistic     0.000    0.000
## Degrees of freedom           0        0
## Minimum Function Value       0.000000000000
## Scaling correction factor          NA
##   for the Satorra-Bentler correction
##
## Model test baseline model:
##
## Minimum Function Test Statistic    2449.509    2142.747
## Degrees of freedom                 435        435
## P-value                           0.000        0.000
##
## User model versus baseline model:
##
## Comparative Fit Index (CFI)        1.000        1.000
## Tucker-Lewis Index (TLI)          1.000        1.000
##
## Robust Comparative Fit Index (CFI)          NA
## Robust Tucker-Lewis Index (TLI)            NA
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0)        -12098.427    -12098.427
## Loglikelihood unrestricted model (H1)  -12098.427    -12098.427
##
## Number of free parameters           465        465
## Akaike (AIC)                       25126.855    25126.855
## Bayesian (BIC)                     26805.259    26805.259
## Sample-size adjusted Bayesian (BIC)  25330.858    25330.858
##
## Root Mean Square Error of Approximation:
##
## RMSEA                             0.000        0.000
## 90 Percent Confidence Interval      0.000    0.000    0.000    0.000
## P-value RMSEA <= 0.05              NA        NA
##
## Robust RMSEA                       0.000
## 90 Percent Confidence Interval      0.000    0.000
##
## Standardized Root Mean Square Residual:
##
## SRMR                             0.000        0.000
##
## Parameter Estimates:
```

```

##
## Information
## Information saturated (h1) model
## Standard Errors
## Expected
## Structured
## Robust.sem
##
## Regressions:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## pri_nee_gen_1 ~
## itg_gen -0.081 0.116 -0.701 0.483 -0.081 -0.042
## soc_gen -0.356 0.086 -4.127 0.000 -0.356 -0.243
## anx_gen -0.029 0.106 -0.278 0.781 -0.029 -0.017
## tra_gen 0.224 0.114 1.957 0.050 0.224 0.134
## ria_gen 0.302 0.113 2.663 0.008 0.302 0.164
## male 0.266 0.171 1.557 0.120 0.266 0.089
## age 0.003 0.015 0.218 0.828 0.003 0.007
## inc 0.106 0.079 1.339 0.181 0.106 0.080
## pri_nee_gen_2 ~
## itg_gen 0.005 0.125 0.038 0.969 0.005 0.002
## soc_gen -0.310 0.092 -3.357 0.001 -0.310 -0.204
## anx_gen 0.055 0.122 0.455 0.649 0.055 0.030
## tra_gen 0.151 0.126 1.197 0.231 0.151 0.087
## ria_gen 0.136 0.115 1.177 0.239 0.136 0.071
## male 0.605 0.196 3.085 0.002 0.605 0.195
## age 0.025 0.017 1.424 0.154 0.025 0.048
## inc -0.072 0.087 -0.827 0.408 -0.072 -0.052
## pri_nee_gen_3 ~
## itg_gen 0.388 0.099 3.931 0.000 0.388 0.240
## soc_gen 0.061 0.077 0.801 0.423 0.061 0.050
## anx_gen 0.120 0.093 1.286 0.198 0.120 0.080
## tra_gen 0.127 0.095 1.328 0.184 0.127 0.090
## ria_gen 0.186 0.097 1.919 0.055 0.186 0.120
## male 0.086 0.150 0.573 0.567 0.086 0.034
## age 0.022 0.020 1.068 0.285 0.022 0.051
## inc -0.119 0.079 -1.493 0.135 -0.119 -0.105
## pri_nee_gen_4 ~
## itg_gen 0.173 0.082 2.102 0.036 0.173 0.115
## soc_gen 0.162 0.080 2.030 0.042 0.162 0.141
## anx_gen 0.136 0.077 1.769 0.077 0.136 0.097
## tra_gen 0.236 0.084 2.796 0.005 0.236 0.180
## ria_gen 0.199 0.087 2.302 0.021 0.199 0.137
## male 0.122 0.141 0.868 0.386 0.122 0.052
## age -0.014 0.014 -0.966 0.334 -0.014 -0.035
## inc -0.060 0.067 -0.895 0.371 -0.060 -0.057
## pri_nee_soc_1 ~
## itg_gen 0.003 0.132 0.023 0.982 0.003 0.001
## soc_gen -0.161 0.103 -1.570 0.116 -0.161 -0.101
## anx_gen -0.230 0.138 -1.671 0.095 -0.230 -0.119
## tra_gen 0.187 0.128 1.460 0.144 0.187 0.102
## ria_gen 0.195 0.122 1.595 0.111 0.195 0.097
## male 0.200 0.201 0.992 0.321 0.200 0.061
## age 0.021 0.020 1.041 0.298 0.021 0.038
## inc 0.020 0.084 0.241 0.809 0.020 0.014
## pri_nee_soc_2 ~
## itg_gen 0.017 0.139 0.121 0.904 0.017 0.008

```

##	soc_gen	-0.112	0.102	-1.097	0.273	-0.112	-0.068
##	anx_gen	-0.022	0.144	-0.155	0.877	-0.022	-0.011
##	tra_gen	0.214	0.117	1.826	0.068	0.214	0.114
##	ria_gen	0.208	0.143	1.453	0.146	0.208	0.101
##	male	0.461	0.196	2.349	0.019	0.461	0.137
##	age	0.012	0.023	0.518	0.604	0.012	0.021
##	inc	0.039	0.092	0.420	0.674	0.039	0.026
##	pri_nee_soc_3 ~						
##	itg_gen	-0.030	0.135	-0.223	0.824	-0.030	-0.015
##	soc_gen	-0.277	0.101	-2.751	0.006	-0.277	-0.174
##	anx_gen	-0.240	0.128	-1.872	0.061	-0.240	-0.125
##	tra_gen	0.205	0.124	1.661	0.097	0.205	0.114
##	ria_gen	0.136	0.134	1.015	0.310	0.136	0.068
##	male	0.384	0.188	2.037	0.042	0.384	0.118
##	age	0.034	0.017	2.045	0.041	0.034	0.062
##	inc	0.048	0.094	0.513	0.608	0.048	0.033
##	pri_nee_soc_4 ~						
##	itg_gen	-0.066	0.143	-0.458	0.647	-0.066	-0.030
##	soc_gen	-0.207	0.111	-1.869	0.062	-0.207	-0.123
##	anx_gen	-0.271	0.137	-1.972	0.049	-0.271	-0.133
##	tra_gen	0.210	0.130	1.613	0.107	0.210	0.110
##	ria_gen	0.147	0.135	1.093	0.275	0.147	0.070
##	male	0.347	0.210	1.652	0.099	0.347	0.101
##	age	0.030	0.015	1.980	0.048	0.030	0.051
##	inc	0.059	0.096	0.619	0.536	0.059	0.039
##	pri_nee_soc_5 ~						
##	itg_gen	0.012	0.138	0.085	0.932	0.012	0.005
##	soc_gen	-0.143	0.110	-1.291	0.197	-0.143	-0.082
##	anx_gen	-0.158	0.144	-1.101	0.271	-0.158	-0.075
##	tra_gen	0.111	0.133	0.834	0.404	0.111	0.056
##	ria_gen	0.135	0.162	0.838	0.402	0.135	0.062
##	male	0.545	0.230	2.367	0.018	0.545	0.154
##	age	0.045	0.023	1.994	0.046	0.045	0.076
##	inc	-0.051	0.092	-0.555	0.579	-0.051	-0.032
##	pri_nee_soc_6 ~						
##	itg_gen	-0.250	0.140	-1.782	0.075	-0.250	-0.114
##	soc_gen	-0.132	0.107	-1.226	0.220	-0.132	-0.079
##	anx_gen	-0.011	0.134	-0.084	0.933	-0.011	-0.006
##	tra_gen	0.017	0.126	0.137	0.891	0.017	0.009
##	ria_gen	0.055	0.132	0.420	0.675	0.055	0.026
##	male	0.099	0.203	0.485	0.627	0.099	0.029
##	age	0.048	0.021	2.245	0.025	0.048	0.082
##	inc	0.159	0.108	1.470	0.142	0.159	0.104
##	pri_nee_soc_7 ~						
##	itg_gen	-0.359	0.127	-2.835	0.005	-0.359	-0.177
##	soc_gen	-0.193	0.089	-2.177	0.029	-0.193	-0.124
##	anx_gen	-0.198	0.129	-1.537	0.124	-0.198	-0.105
##	tra_gen	0.057	0.112	0.509	0.611	0.057	0.032
##	ria_gen	-0.086	0.114	-0.756	0.450	-0.086	-0.044
##	male	0.445	0.209	2.128	0.033	0.445	0.140
##	age	0.028	0.017	1.621	0.105	0.028	0.053
##	inc	0.140	0.090	1.561	0.119	0.140	0.099
##	pri_nee_soc_8 ~						
##	itg_gen	-0.326	0.129	-2.522	0.012	-0.326	-0.154

##	soc_gen	-0.291	0.103	-2.829	0.005	-0.291	-0.180
##	anx_gen	-0.060	0.119	-0.503	0.615	-0.060	-0.030
##	tra_gen	-0.020	0.125	-0.158	0.874	-0.020	-0.011
##	ria_gen	0.217	0.113	1.920	0.055	0.217	0.106
##	male	0.104	0.197	0.528	0.598	0.104	0.031
##	age	0.047	0.019	2.449	0.014	0.047	0.084
##	inc	0.161	0.096	1.665	0.096	0.161	0.109
##	pri_nee_soc_9 ~						
##	itg_gen	-0.123	0.138	-0.897	0.370	-0.123	-0.057
##	soc_gen	-0.175	0.110	-1.588	0.112	-0.175	-0.106
##	anx_gen	-0.199	0.151	-1.313	0.189	-0.199	-0.100
##	tra_gen	-0.179	0.130	-1.378	0.168	-0.179	-0.095
##	ria_gen	0.336	0.139	2.409	0.016	0.336	0.162
##	male	0.424	0.218	1.951	0.051	0.424	0.126
##	age	0.043	0.019	2.258	0.024	0.043	0.076
##	inc	0.060	0.091	0.664	0.507	0.060	0.040
##	pri_nee_int_1 ~						
##	itg_gen	0.206	0.136	1.516	0.129	0.206	0.099
##	soc_gen	-0.049	0.103	-0.480	0.631	-0.049	-0.031
##	anx_gen	-0.205	0.130	-1.584	0.113	-0.205	-0.106
##	tra_gen	-0.032	0.122	-0.259	0.795	-0.032	-0.017
##	ria_gen	0.295	0.132	2.232	0.026	0.295	0.147
##	male	-0.189	0.212	-0.893	0.372	-0.189	-0.058
##	age	-0.042	0.027	-1.538	0.124	-0.042	-0.075
##	inc	-0.069	0.094	-0.736	0.462	-0.069	-0.047
##	pri_nee_int_2 ~						
##	itg_gen	-0.023	0.143	-0.162	0.871	-0.023	-0.011
##	soc_gen	-0.227	0.100	-2.269	0.023	-0.227	-0.135
##	anx_gen	-0.010	0.139	-0.070	0.944	-0.010	-0.005
##	tra_gen	-0.087	0.128	-0.684	0.494	-0.087	-0.046
##	ria_gen	0.058	0.128	0.458	0.647	0.058	0.028
##	male	0.651	0.212	3.069	0.002	0.651	0.190
##	age	0.017	0.028	0.596	0.551	0.017	0.029
##	inc	0.018	0.090	0.199	0.843	0.018	0.012
##	pri_nee_int_3 ~						
##	itg_gen	0.207	0.121	1.718	0.086	0.207	0.100
##	soc_gen	-0.164	0.097	-1.692	0.091	-0.164	-0.103
##	anx_gen	-0.158	0.120	-1.312	0.189	-0.158	-0.082
##	tra_gen	0.223	0.119	1.883	0.060	0.223	0.123
##	ria_gen	0.374	0.125	3.005	0.003	0.374	0.187
##	male	-0.037	0.185	-0.200	0.841	-0.037	-0.011
##	age	0.024	0.017	1.392	0.164	0.024	0.043
##	inc	-0.027	0.095	-0.286	0.775	-0.027	-0.019
##	pri_nee_int_4 ~						
##	itg_gen	-0.193	0.113	-1.715	0.086	-0.193	-0.101
##	soc_gen	0.052	0.079	0.657	0.511	0.052	0.036
##	anx_gen	0.287	0.110	2.603	0.009	0.287	0.162
##	tra_gen	0.277	0.114	2.438	0.015	0.277	0.167
##	ria_gen	0.176	0.109	1.622	0.105	0.176	0.096
##	male	-0.215	0.170	-1.261	0.207	-0.215	-0.072
##	age	0.032	0.037	0.865	0.387	0.032	0.063
##	inc	0.180	0.066	2.721	0.007	0.180	0.135
##	pri_nee_int_5 ~						
##	itg_gen	0.155	0.130	1.196	0.232	0.155	0.075

```

##      soc_gen      -0.200    0.095   -2.098    0.036   -0.200   -0.126
##      anx_gen      -0.142    0.141   -1.005    0.315   -0.142   -0.074
##      tra_gen      -0.234    0.124   -1.886    0.059   -0.234   -0.130
##      ria_gen      -0.081    0.141   -0.577    0.564   -0.081   -0.041
##      male         0.661    0.204    3.240    0.001    0.661    0.204
##      age          -0.001    0.019   -0.062    0.950   -0.001   -0.002
##      inc          -0.143    0.080   -1.798    0.072   -0.143   -0.099
## pri_nee_int_6 ~
##      itg_gen      -0.070    0.116   -0.603    0.546   -0.070   -0.037
##      soc_gen      -0.281    0.093   -3.018    0.003   -0.281   -0.195
##      anx_gen       0.156    0.118    1.331    0.183    0.156    0.090
##      tra_gen       0.084    0.107    0.779    0.436    0.084    0.051
##      ria_gen      -0.063    0.128   -0.491    0.623   -0.063   -0.035
##      male         0.664    0.177    3.744    0.000    0.664    0.226
##      age          0.032    0.028    1.136    0.256    0.032    0.065
##      inc          0.102    0.075    1.357    0.175    0.102    0.078
## pri_nee_int_7 ~
##      itg_gen       0.105    0.107    0.976    0.329    0.105    0.057
##      soc_gen      -0.210    0.085   -2.461    0.014   -0.210   -0.149
##      anx_gen      -0.076    0.113   -0.673    0.501   -0.076   -0.045
##      tra_gen       0.187    0.118    1.583    0.113    0.187    0.117
##      ria_gen       0.261    0.116    2.259    0.024    0.261    0.148
##      male         0.172    0.173    0.991    0.322    0.172    0.060
##      age          -0.002    0.014   -0.140    0.888   -0.002   -0.004
##      inc          -0.071    0.087   -0.817    0.414   -0.071   -0.056
## pri_nee_int_8 ~
##      itg_gen       0.237    0.135    1.748    0.080    0.237    0.116
##      soc_gen      -0.101    0.093   -1.082    0.279   -0.101   -0.064
##      anx_gen      -0.082    0.128   -0.642    0.521   -0.082   -0.043
##      tra_gen       0.177    0.125    1.414    0.157    0.177    0.099
##      ria_gen       0.116    0.134    0.871    0.384    0.116    0.059
##      male         -0.295    0.205   -1.441    0.150   -0.295   -0.092
##      age          -0.041    0.020   -2.033    0.042   -0.041   -0.075
##      inc          -0.074    0.089   -0.836    0.403   -0.074   -0.052
## pri_nee_int_9 ~
##      itg_gen       0.104    0.110    0.951    0.341    0.104    0.056
##      soc_gen      -0.164    0.084   -1.965    0.049   -0.164   -0.115
##      anx_gen       0.202    0.120    1.691    0.091    0.202    0.117
##      tra_gen       0.032    0.113    0.285    0.776    0.032    0.020
##      ria_gen       0.294    0.120    2.443    0.015    0.294    0.164
##      male         0.193    0.177    1.091    0.275    0.193    0.066
##      age          0.051    0.020    2.558    0.011    0.051    0.104
##      inc          -0.005    0.084   -0.056    0.955   -0.005   -0.004
##
## Covariances:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      itg_gen ~~
##      soc_gen      0.039    0.040    0.967    0.333    0.039    0.062
##      anx_gen     -0.015    0.032   -0.478    0.633   -0.015   -0.029
##      tra_gen     -0.004    0.036   -0.124    0.902   -0.004   -0.008
##      ria_gen      0.118    0.029    4.012    0.000    0.118    0.232
##      male        -0.022    0.020   -1.136    0.256   -0.022   -0.072
##      age         -0.013    0.199   -0.067    0.947   -0.013   -0.007
##      inc         -0.007    0.043   -0.163    0.870   -0.007   -0.010

```

##	soc_gen ~~						
##	anx_gen	-0.148	0.043	-3.428	0.001	-0.148	-0.216
##	tra_gen	-0.086	0.043	-1.987	0.047	-0.086	-0.118
##	ria_gen	-0.049	0.047	-1.043	0.297	-0.049	-0.073
##	male	0.044	0.024	1.851	0.064	0.044	0.108
##	age	-0.058	0.128	-0.453	0.650	-0.058	-0.024
##	inc	0.078	0.054	1.462	0.144	0.078	0.086
##	anx_gen ~~						
##	tra_gen	0.081	0.039	2.052	0.040	0.081	0.134
##	ria_gen	0.035	0.038	0.923	0.356	0.035	0.064
##	male	-0.104	0.020	-5.149	0.000	-0.104	-0.309
##	age	-0.208	0.073	-2.862	0.004	-0.208	-0.105
##	inc	-0.050	0.043	-1.157	0.247	-0.050	-0.067
##	tra_gen ~~						
##	ria_gen	0.177	0.039	4.586	0.000	0.177	0.305
##	male	0.035	0.023	1.541	0.123	0.035	0.098
##	age	0.116	0.166	0.696	0.486	0.116	0.055
##	inc	0.064	0.046	1.385	0.166	0.064	0.080
##	ria_gen ~~						
##	male	0.004	0.020	0.208	0.835	0.004	0.013
##	age	0.068	0.109	0.627	0.531	0.068	0.036
##	inc	-0.029	0.039	-0.760	0.447	-0.029	-0.041
##	male ~~						
##	age	0.212	0.105	2.009	0.045	0.212	0.180
##	inc	0.025	0.028	0.915	0.360	0.025	0.056
##	age ~~						
##	inc	0.362	0.313	1.158	0.247	0.362	0.137
##	.pri_nee_gen_1 ~~						
##	.pri_nee_gen_2	0.710	0.116	6.127	0.000	0.710	0.440
##	.pri_nee_gen_3	0.418	0.087	4.793	0.000	0.418	0.319
##	.pri_nee_gen_4	0.450	0.079	5.701	0.000	0.450	0.367
##	.pri_nee_soc_1	0.271	0.116	2.338	0.019	0.271	0.155
##	.pri_nee_soc_2	0.334	0.117	2.866	0.004	0.334	0.186
##	.pri_nee_soc_3	0.252	0.113	2.232	0.026	0.252	0.148
##	.pri_nee_soc_4	0.228	0.119	1.911	0.056	0.228	0.125
##	.pri_nee_soc_5	0.173	0.117	1.481	0.139	0.173	0.091
##	.pri_nee_soc_6	0.334	0.120	2.783	0.005	0.334	0.181
##	.pri_nee_soc_7	0.285	0.099	2.892	0.004	0.285	0.172
##	.pri_nee_soc_8	0.251	0.113	2.222	0.026	0.251	0.143
##	.pri_nee_soc_9	0.209	0.116	1.804	0.071	0.209	0.117
##	.pri_nee_int_1	0.100	0.105	0.959	0.337	0.100	0.057
##	.pri_nee_int_2	0.580	0.127	4.565	0.000	0.580	0.315
##	.pri_nee_int_3	0.305	0.110	2.775	0.006	0.305	0.179
##	.pri_nee_int_4	0.267	0.096	2.776	0.006	0.267	0.172
##	.pri_nee_int_5	0.321	0.104	3.077	0.002	0.321	0.189
##	.pri_nee_int_6	0.449	0.101	4.450	0.000	0.449	0.294
##	.pri_nee_int_7	0.528	0.099	5.315	0.000	0.528	0.349
##	.pri_nee_int_8	0.019	0.106	0.180	0.857	0.019	0.011
##	.pri_nee_int_9	0.390	0.101	3.864	0.000	0.390	0.253
##	.pri_nee_gen_2 ~~						
##	.pri_nee_gen_3	0.460	0.087	5.264	0.000	0.460	0.333
##	.pri_nee_gen_4	0.267	0.080	3.344	0.001	0.267	0.206
##	.pri_nee_soc_1	0.198	0.119	1.670	0.095	0.198	0.107
##	.pri_nee_soc_2	0.481	0.120	3.992	0.000	0.481	0.254

##	.pri_nee_soc_3	0.169	0.120	1.413	0.158	0.169	0.094
##	.pri_nee_soc_4	0.187	0.128	1.460	0.144	0.187	0.097
##	.pri_nee_soc_5	0.289	0.127	2.281	0.023	0.289	0.145
##	.pri_nee_soc_6	0.175	0.122	1.434	0.152	0.175	0.090
##	.pri_nee_soc_7	0.183	0.107	1.715	0.086	0.183	0.105
##	.pri_nee_soc_8	0.253	0.133	1.907	0.056	0.253	0.137
##	.pri_nee_soc_9	0.244	0.125	1.953	0.051	0.244	0.129
##	.pri_nee_int_1	0.026	0.112	0.228	0.819	0.026	0.014
##	.pri_nee_int_2	0.317	0.128	2.477	0.013	0.317	0.163
##	.pri_nee_int_3	0.160	0.118	1.357	0.175	0.160	0.089
##	.pri_nee_int_4	0.204	0.097	2.107	0.035	0.204	0.125
##	.pri_nee_int_5	0.238	0.107	2.222	0.026	0.238	0.132
##	.pri_nee_int_6	0.139	0.110	1.261	0.207	0.139	0.086
##	.pri_nee_int_7	0.138	0.099	1.400	0.162	0.138	0.087
##	.pri_nee_int_8	0.085	0.121	0.704	0.482	0.085	0.047
##	.pri_nee_int_9	0.217	0.106	2.047	0.041	0.217	0.134
##	.pri_nee_gen_3 ~~						
##	.pri_nee_gen_4	0.368	0.067	5.468	0.000	0.368	0.352
##	.pri_nee_soc_1	0.072	0.097	0.746	0.456	0.072	0.048
##	.pri_nee_soc_2	0.331	0.098	3.360	0.001	0.331	0.216
##	.pri_nee_soc_3	0.261	0.093	2.805	0.005	0.261	0.179
##	.pri_nee_soc_4	0.083	0.100	0.831	0.406	0.083	0.053
##	.pri_nee_soc_5	0.061	0.097	0.634	0.526	0.061	0.038
##	.pri_nee_soc_6	0.075	0.099	0.752	0.452	0.075	0.047
##	.pri_nee_soc_7	-0.016	0.090	-0.175	0.861	-0.016	-0.011
##	.pri_nee_soc_8	0.053	0.096	0.548	0.583	0.053	0.035
##	.pri_nee_soc_9	0.165	0.090	1.835	0.066	0.165	0.108
##	.pri_nee_int_1	0.229	0.095	2.405	0.016	0.229	0.152
##	.pri_nee_int_2	0.216	0.099	2.183	0.029	0.216	0.137
##	.pri_nee_int_3	0.354	0.092	3.859	0.000	0.354	0.243
##	.pri_nee_int_4	0.329	0.082	3.996	0.000	0.329	0.248
##	.pri_nee_int_5	0.028	0.099	0.281	0.779	0.028	0.019
##	.pri_nee_int_6	-0.070	0.078	-0.902	0.367	-0.070	-0.054
##	.pri_nee_int_7	0.230	0.090	2.542	0.011	0.230	0.178
##	.pri_nee_int_8	0.052	0.088	0.589	0.556	0.052	0.035
##	.pri_nee_int_9	0.482	0.087	5.510	0.000	0.482	0.365
##	.pri_nee_gen_4 ~~						
##	.pri_nee_soc_1	-0.003	0.079	-0.037	0.970	-0.003	-0.002
##	.pri_nee_soc_2	-0.018	0.087	-0.211	0.833	-0.018	-0.013
##	.pri_nee_soc_3	0.092	0.089	1.035	0.301	0.092	0.067
##	.pri_nee_soc_4	-0.003	0.086	-0.032	0.975	-0.003	-0.002
##	.pri_nee_soc_5	0.012	0.088	0.140	0.889	0.012	0.008
##	.pri_nee_soc_6	-0.187	0.082	-2.273	0.023	-0.187	-0.127
##	.pri_nee_soc_7	-0.245	0.079	-3.112	0.002	-0.245	-0.185
##	.pri_nee_soc_8	-0.179	0.086	-2.069	0.039	-0.179	-0.128
##	.pri_nee_soc_9	0.005	0.088	0.056	0.955	0.005	0.003
##	.pri_nee_int_1	0.237	0.081	2.942	0.003	0.237	0.169
##	.pri_nee_int_2	0.017	0.079	0.211	0.833	0.017	0.011
##	.pri_nee_int_3	0.151	0.081	1.853	0.064	0.151	0.111
##	.pri_nee_int_4	0.132	0.070	1.885	0.059	0.132	0.107
##	.pri_nee_int_5	0.118	0.074	1.594	0.111	0.118	0.086
##	.pri_nee_int_6	0.026	0.069	0.371	0.711	0.026	0.021
##	.pri_nee_int_7	0.349	0.071	4.935	0.000	0.349	0.288
##	.pri_nee_int_8	-0.091	0.078	-1.160	0.246	-0.091	-0.066

##	.pri_nee_int_9	0.182	0.068	2.666	0.008	0.182	0.148
##	.pri_nee_soc_1 ~~						
##	.pri_nee_soc_2	1.041	0.143	7.293	0.000	1.041	0.507
##	.pri_nee_soc_3	0.977	0.138	7.068	0.000	0.977	0.501
##	.pri_nee_soc_4	1.304	0.156	8.366	0.000	1.304	0.625
##	.pri_nee_soc_5	1.036	0.151	6.879	0.000	1.036	0.478
##	.pri_nee_soc_6	0.609	0.145	4.204	0.000	0.609	0.288
##	.pri_nee_soc_7	0.667	0.124	5.358	0.000	0.667	0.352
##	.pri_nee_soc_8	0.310	0.127	2.446	0.014	0.310	0.155
##	.pri_nee_soc_9	1.118	0.145	7.730	0.000	1.118	0.545
##	.pri_nee_int_1	-0.313	0.134	-2.326	0.020	-0.313	-0.156
##	.pri_nee_int_2	0.422	0.143	2.941	0.003	0.422	0.200
##	.pri_nee_int_3	0.137	0.132	1.036	0.300	0.137	0.070
##	.pri_nee_int_4	0.353	0.108	3.259	0.001	0.353	0.199
##	.pri_nee_int_5	0.016	0.133	0.119	0.905	0.016	0.008
##	.pri_nee_int_6	0.222	0.111	2.001	0.045	0.222	0.127
##	.pri_nee_int_7	0.057	0.125	0.461	0.645	0.057	0.033
##	.pri_nee_int_8	-0.217	0.130	-1.669	0.095	-0.217	-0.110
##	.pri_nee_int_9	0.506	0.137	3.701	0.000	0.506	0.286
##	.pri_nee_soc_2 ~~						
##	.pri_nee_soc_3	0.975	0.134	7.258	0.000	0.975	0.489
##	.pri_nee_soc_4	1.183	0.146	8.081	0.000	1.183	0.554
##	.pri_nee_soc_5	1.044	0.143	7.295	0.000	1.044	0.471
##	.pri_nee_soc_6	0.800	0.137	5.831	0.000	0.800	0.370
##	.pri_nee_soc_7	0.783	0.120	6.529	0.000	0.783	0.404
##	.pri_nee_soc_8	0.611	0.135	4.534	0.000	0.611	0.299
##	.pri_nee_soc_9	1.055	0.145	7.274	0.000	1.055	0.503
##	.pri_nee_int_1	-0.297	0.133	-2.228	0.026	-0.297	-0.145
##	.pri_nee_int_2	0.648	0.149	4.358	0.000	0.648	0.300
##	.pri_nee_int_3	0.145	0.121	1.192	0.233	0.145	0.072
##	.pri_nee_int_4	0.406	0.106	3.817	0.000	0.406	0.224
##	.pri_nee_int_5	0.015	0.130	0.118	0.906	0.015	0.008
##	.pri_nee_int_6	0.183	0.118	1.553	0.120	0.183	0.102
##	.pri_nee_int_7	0.036	0.109	0.332	0.740	0.036	0.020
##	.pri_nee_int_8	-0.296	0.126	-2.351	0.019	-0.296	-0.147
##	.pri_nee_int_9	0.302	0.119	2.545	0.011	0.302	0.167
##	.pri_nee_soc_3 ~~						
##	.pri_nee_soc_4	1.232	0.146	8.438	0.000	1.232	0.608
##	.pri_nee_soc_5	0.865	0.138	6.289	0.000	0.865	0.411
##	.pri_nee_soc_6	0.700	0.138	5.068	0.000	0.700	0.341
##	.pri_nee_soc_7	0.617	0.118	5.231	0.000	0.617	0.335
##	.pri_nee_soc_8	0.495	0.133	3.712	0.000	0.495	0.255
##	.pri_nee_soc_9	1.136	0.138	8.223	0.000	1.136	0.571
##	.pri_nee_int_1	-0.246	0.131	-1.876	0.061	-0.246	-0.126
##	.pri_nee_int_2	0.642	0.125	5.128	0.000	0.642	0.314
##	.pri_nee_int_3	0.287	0.123	2.322	0.020	0.287	0.151
##	.pri_nee_int_4	0.467	0.097	4.820	0.000	0.467	0.271
##	.pri_nee_int_5	0.078	0.115	0.678	0.498	0.078	0.041
##	.pri_nee_int_6	0.189	0.109	1.738	0.082	0.189	0.111
##	.pri_nee_int_7	0.135	0.113	1.200	0.230	0.135	0.080
##	.pri_nee_int_8	-0.249	0.126	-1.977	0.048	-0.249	-0.130
##	.pri_nee_int_9	0.623	0.111	5.606	0.000	0.623	0.363
##	.pri_nee_soc_4 ~~						
##	.pri_nee_soc_5	0.979	0.146	6.716	0.000	0.979	0.435

##	.pri_nee_soc_6	0.727	0.151	4.810	0.000	0.727	0.331
##	.pri_nee_soc_7	0.712	0.131	5.436	0.000	0.712	0.362
##	.pri_nee_soc_8	0.518	0.138	3.757	0.000	0.518	0.249
##	.pri_nee_soc_9	1.156	0.147	7.855	0.000	1.156	0.542
##	.pri_nee_int_1	-0.277	0.136	-2.040	0.041	-0.277	-0.133
##	.pri_nee_int_2	0.522	0.135	3.878	0.000	0.522	0.238
##	.pri_nee_int_3	-0.046	0.132	-0.346	0.729	-0.046	-0.023
##	.pri_nee_int_4	0.218	0.110	1.989	0.047	0.218	0.118
##	.pri_nee_int_5	-0.024	0.130	-0.182	0.855	-0.024	-0.012
##	.pri_nee_int_6	0.164	0.122	1.349	0.177	0.164	0.090
##	.pri_nee_int_7	0.012	0.120	0.102	0.919	0.012	0.007
##	.pri_nee_int_8	-0.316	0.135	-2.349	0.019	-0.316	-0.155
##	.pri_nee_int_9	0.356	0.128	2.776	0.006	0.356	0.194
##	.pri_nee_soc_5 ~~						
##	.pri_nee_soc_6	0.717	0.152	4.705	0.000	0.717	0.314
##	.pri_nee_soc_7	0.671	0.124	5.397	0.000	0.671	0.328
##	.pri_nee_soc_8	0.226	0.134	1.694	0.090	0.226	0.105
##	.pri_nee_soc_9	0.960	0.145	6.619	0.000	0.960	0.434
##	.pri_nee_int_1	-0.339	0.142	-2.396	0.017	-0.339	-0.157
##	.pri_nee_int_2	0.382	0.140	2.723	0.006	0.382	0.168
##	.pri_nee_int_3	-0.170	0.137	-1.242	0.214	-0.170	-0.081
##	.pri_nee_int_4	0.440	0.121	3.653	0.000	0.440	0.230
##	.pri_nee_int_5	-0.040	0.131	-0.303	0.762	-0.040	-0.019
##	.pri_nee_int_6	0.072	0.118	0.607	0.544	0.072	0.038
##	.pri_nee_int_7	0.053	0.117	0.456	0.648	0.053	0.029
##	.pri_nee_int_8	-0.451	0.136	-3.326	0.001	-0.451	-0.212
##	.pri_nee_int_9	0.310	0.131	2.376	0.017	0.310	0.163
##	.pri_nee_soc_6 ~~						
##	.pri_nee_soc_7	0.766	0.136	5.624	0.000	0.766	0.384
##	.pri_nee_soc_8	0.641	0.139	4.623	0.000	0.641	0.304
##	.pri_nee_soc_9	0.733	0.145	5.048	0.000	0.733	0.340
##	.pri_nee_int_1	-0.551	0.140	-3.951	0.000	-0.551	-0.261
##	.pri_nee_int_2	0.791	0.148	5.356	0.000	0.791	0.356
##	.pri_nee_int_3	-0.031	0.132	-0.239	0.811	-0.031	-0.015
##	.pri_nee_int_4	0.355	0.109	3.250	0.001	0.355	0.190
##	.pri_nee_int_5	-0.106	0.132	-0.804	0.422	-0.106	-0.052
##	.pri_nee_int_6	0.337	0.123	2.742	0.006	0.337	0.183
##	.pri_nee_int_7	0.053	0.111	0.482	0.630	0.053	0.029
##	.pri_nee_int_8	-0.413	0.134	-3.080	0.002	-0.413	-0.200
##	.pri_nee_int_9	0.442	0.118	3.739	0.000	0.442	0.238
##	.pri_nee_soc_7 ~~						
##	.pri_nee_soc_8	0.816	0.128	6.369	0.000	0.816	0.432
##	.pri_nee_soc_9	0.803	0.131	6.151	0.000	0.803	0.415
##	.pri_nee_int_1	-0.718	0.124	-5.770	0.000	-0.718	-0.379
##	.pri_nee_int_2	0.661	0.113	5.873	0.000	0.661	0.332
##	.pri_nee_int_3	-0.375	0.115	-3.255	0.001	-0.375	-0.204
##	.pri_nee_int_4	0.046	0.098	0.472	0.637	0.046	0.028
##	.pri_nee_int_5	0.073	0.112	0.650	0.516	0.073	0.040
##	.pri_nee_int_6	0.264	0.107	2.456	0.014	0.264	0.159
##	.pri_nee_int_7	-0.102	0.101	-1.012	0.312	-0.102	-0.062
##	.pri_nee_int_8	-0.372	0.123	-3.036	0.002	-0.372	-0.200
##	.pri_nee_int_9	0.099	0.103	0.958	0.338	0.099	0.059
##	.pri_nee_soc_8 ~~						
##	.pri_nee_soc_9	0.677	0.134	5.050	0.000	0.677	0.331

##	.pri_nee_int_1	-0.559	0.126	-4.435	0.000	-0.559	-0.279
##	.pri_nee_int_2	0.470	0.140	3.356	0.001	0.470	0.224
##	.pri_nee_int_3	-0.127	0.121	-1.045	0.296	-0.127	-0.065
##	.pri_nee_int_4	0.165	0.100	1.659	0.097	0.165	0.093
##	.pri_nee_int_5	-0.010	0.119	-0.085	0.932	-0.010	-0.005
##	.pri_nee_int_6	0.380	0.124	3.059	0.002	0.380	0.217
##	.pri_nee_int_7	0.035	0.109	0.324	0.746	0.035	0.020
##	.pri_nee_int_8	-0.392	0.133	-2.943	0.003	-0.392	-0.200
##	.pri_nee_int_9	0.356	0.108	3.293	0.001	0.356	0.202
##	.pri_nee_soc_9 ~~						
##	.pri_nee_int_1	-0.471	0.128	-3.679	0.000	-0.471	-0.230
##	.pri_nee_int_2	0.538	0.141	3.825	0.000	0.538	0.250
##	.pri_nee_int_3	0.018	0.123	0.145	0.885	0.018	0.009
##	.pri_nee_int_4	0.392	0.102	3.840	0.000	0.392	0.216
##	.pri_nee_int_5	0.080	0.130	0.615	0.538	0.080	0.040
##	.pri_nee_int_6	0.189	0.120	1.579	0.114	0.189	0.106
##	.pri_nee_int_7	0.083	0.115	0.721	0.471	0.083	0.047
##	.pri_nee_int_8	-0.284	0.131	-2.167	0.030	-0.284	-0.141
##	.pri_nee_int_9	0.633	0.116	5.455	0.000	0.633	0.351
##	.pri_nee_int_1 ~~						
##	.pri_nee_int_2	-0.451	0.139	-3.252	0.001	-0.451	-0.214
##	.pri_nee_int_3	0.462	0.125	3.708	0.000	0.462	0.237
##	.pri_nee_int_4	-0.105	0.110	-0.953	0.341	-0.105	-0.059
##	.pri_nee_int_5	0.191	0.120	1.596	0.110	0.191	0.098
##	.pri_nee_int_6	-0.239	0.107	-2.236	0.025	-0.239	-0.136
##	.pri_nee_int_7	0.208	0.111	1.874	0.061	0.208	0.120
##	.pri_nee_int_8	0.502	0.125	4.012	0.000	0.502	0.255
##	.pri_nee_int_9	-0.145	0.108	-1.341	0.180	-0.145	-0.082
##	.pri_nee_int_2 ~~						
##	.pri_nee_int_3	0.269	0.114	2.352	0.019	0.269	0.131
##	.pri_nee_int_4	0.245	0.109	2.245	0.025	0.245	0.131
##	.pri_nee_int_5	0.071	0.139	0.511	0.610	0.071	0.035
##	.pri_nee_int_6	0.552	0.122	4.519	0.000	0.552	0.300
##	.pri_nee_int_7	0.199	0.116	1.707	0.088	0.199	0.109
##	.pri_nee_int_8	-0.173	0.135	-1.280	0.200	-0.173	-0.084
##	.pri_nee_int_9	0.491	0.111	4.408	0.000	0.491	0.265
##	.pri_nee_int_3 ~~						
##	.pri_nee_int_4	0.125	0.098	1.273	0.203	0.125	0.072
##	.pri_nee_int_5	0.010	0.120	0.083	0.934	0.010	0.005
##	.pri_nee_int_6	0.221	0.107	2.060	0.039	0.221	0.130
##	.pri_nee_int_7	0.448	0.111	4.035	0.000	0.448	0.266
##	.pri_nee_int_8	0.179	0.122	1.469	0.142	0.179	0.094
##	.pri_nee_int_9	0.344	0.114	3.025	0.002	0.344	0.201
##	.pri_nee_int_4 ~~						
##	.pri_nee_int_5	-0.090	0.122	-0.735	0.462	-0.090	-0.052
##	.pri_nee_int_6	0.236	0.089	2.644	0.008	0.236	0.152
##	.pri_nee_int_7	0.323	0.092	3.505	0.000	0.323	0.211
##	.pri_nee_int_8	0.005	0.110	0.043	0.966	0.005	0.003
##	.pri_nee_int_9	0.447	0.118	3.779	0.000	0.447	0.286
##	.pri_nee_int_5 ~~						
##	.pri_nee_int_6	0.076	0.112	0.680	0.496	0.076	0.045
##	.pri_nee_int_7	0.166	0.117	1.416	0.157	0.166	0.098
##	.pri_nee_int_8	0.375	0.129	2.908	0.004	0.375	0.196
##	.pri_nee_int_9	0.145	0.111	1.303	0.192	0.145	0.084

```

## .pri_nee_int_6 ~~
## .pri_nee_int_7      0.302    0.094    3.214    0.001    0.302    0.199
## .pri_nee_int_8     -0.098    0.113   -0.866    0.387   -0.098   -0.057
## .pri_nee_int_9      0.190    0.105    1.814    0.070    0.190    0.123
## .pri_nee_int_7 ~~
## .pri_nee_int_8      0.009    0.103    0.084    0.933    0.009    0.005
## .pri_nee_int_9      0.411    0.105    3.913    0.000    0.411    0.269
## .pri_nee_int_8 ~~
## .pri_nee_int_9     -0.227    0.114   -1.989    0.047   -0.227   -0.131
##
## Variances:
##           Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## .pri_nee_gen_1      1.529    0.112   13.691    0.000    1.529    0.859
## .pri_nee_gen_2      1.702    0.130   13.110    0.000    1.702    0.892
## .pri_nee_gen_3      1.120    0.096   11.661    0.000    1.120    0.880
## .pri_nee_gen_4      0.981    0.096   10.170    0.000    0.981    0.887
## .pri_nee_soc_1      2.008    0.162   12.366    0.000    2.008    0.943
## .pri_nee_soc_2      2.101    0.151   13.913    0.000    2.101    0.938
## .pri_nee_soc_3      1.892    0.143   13.215    0.000    1.892    0.906
## .pri_nee_soc_4      2.170    0.165   13.142    0.000    2.170    0.924
## .pri_nee_soc_5      2.338    0.158   14.778    0.000    2.338    0.939
## .pri_nee_soc_6      2.225    0.162   13.753    0.000    2.225    0.958
## .pri_nee_soc_7      1.790    0.142   12.604    0.000    1.790    0.891
## .pri_nee_soc_8      1.994    0.166   11.994    0.000    1.994    0.915
## .pri_nee_soc_9      2.093    0.155   13.464    0.000    2.093    0.925
## .pri_nee_int_1      2.009    0.145   13.864    0.000    2.009    0.944
## .pri_nee_int_2      2.215    0.170   13.007    0.000    2.215    0.948
## .pri_nee_int_3      1.892    0.152   12.445    0.000    1.892    0.900
## .pri_nee_int_4      1.570    0.136   11.590    0.000    1.570    0.884
## .pri_nee_int_5      1.895    0.139   13.594    0.000    1.895    0.910
## .pri_nee_int_6      1.532    0.113   13.561    0.000    1.532    0.890
## .pri_nee_int_7      1.496    0.128   11.674    0.000    1.496    0.913
## .pri_nee_int_8      1.928    0.121   15.980    0.000    1.928    0.945
## .pri_nee_int_9      1.555    0.141   10.995    0.000    1.555    0.915
## itg_gen             0.488    0.036   13.749    0.000    0.488    1.000
## soc_gen             0.830    0.074   11.254    0.000    0.830    1.000
## anx_gen             0.567    0.043   13.153    0.000    0.567    1.000
## tra_gen             0.640    0.053   12.180    0.000    0.640    1.000
## ria_gen             0.527    0.059    8.988    0.000    0.527    1.000
## male                0.199    0.012   16.370    0.000    0.199    1.000
## age                 6.951    4.850    1.433    0.152    6.951    1.000
## inc                 0.999    0.113    8.807    0.000    0.999    1.000

```

Visualization

