Complex CFA

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Load and inspect data

I would check if I have enough observations for each category, if we're dealing with ordered-categorical data.

```
item_dat <- readRDS(file = "Item data.Rda")
summary(item_dat)
```

```
##          satsisf_1          satsisf_2          satsisf_3
##  not_agree    : 69   not_agree    :163   not_agree    :188
##  partial_agree:562   partial_agree:427   partial_agree:428
##  fully_agree  :119   fully_agree  :160   fully_agree  :134
##          satsisf_4          satsisf_5          satsisf_6
##  not_agree    :113   not_agree    : 47   not_agree    : 81
##  partial_agree:480   partial_agree:551   partial_agree:538
##  fully_agree  :157   fully_agree  :152   fully_agree  :131
##          satsisf_7          satsisf_8          satsisf_9
##  not_agree    :141   not_agree    : 35   not_agree    :146
##  partial_agree:482   partial_agree:611   partial_agree:435
##  fully_agree  :127   fully_agree  :104   fully_agree  :169
##          satsisf_10         satsisf_11         satsisf_12
##  not_agree    :186   not_agree    :122   not_agree    : 97
##  partial_agree:454   partial_agree:577   partial_agree:513
##  fully_agree  :110   fully_agree  : 51   fully_agree  :140
##          satsisf_13           closen_1           closen_2
##  not_agree    :131   not_agree    :117   not_agree    : 80
##  partial_agree:403   partial_agree:347   partial_agree:505
##  fully_agree  :216   fully_agree  :286   fully_agree  :165
##           closen_3           closen_4           closen_5
##  not_agree    :164   not_agree    :111   not_agree    :110
##  partial_agree:416   partial_agree:482   partial_agree:534
##  fully_agree  :170   fully_agree  :157   fully_agree  :106
##           closen_6           closen_7           closen_8
##  not_agree    : 38   not_agree    :124   not_agree    : 77
##  partial_agree:563   partial_agree:444   partial_agree:619
##  fully_agree  :149   fully_agree  :182   fully_agree  : 54
##           common_1           common_2           common_3
##  not_agree    : 97   not_agree    : 42   not_agree    :200
##  partial_agree:420   partial_agree:523   partial_agree:419
##  fully_agree  :233   fully_agree  :185   fully_agree  :131
##           common_4           common_5           common_6
```

```
##  not_agree    : 71   not_agree    : 92   not_agree    : 79
##  partial_agree:370   partial_agree:616   partial_agree:535
##  fully_agree  :309   fully_agree  : 42   fully_agree  :136
##           common_7            common_8            secur_1
##  not_agree    : 80   not_agree    : 99   not_agree    :173
##  partial_agree:517   partial_agree:437   partial_agree:297
##  fully_agree  :153   fully_agree  :214   fully_agree  :280
##           secur_2             secur_3             secur_4
##  not_agree    :158   not_agree    :201   not_agree    :232
##  partial_agree:423   partial_agree:225   partial_agree:251
##  fully_agree  :169   fully_agree  :324   fully_agree  :267
##           secur_5             secur_6             secur_7
##  not_agree    :151   not_agree    :264   not_agree    :224
##  partial_agree:299   partial_agree:278   partial_agree:287
##  fully_agree  :300   fully_agree  :208   fully_agree  :239
##           secur_8              five_1              five_2
##  not_agree    :189   not_agree    :168   not_agree    : 71
##  partial_agree:278   partial_agree:516   partial_agree:439
##  fully_agree  :283   fully_agree  : 66   fully_agree  :240
##            five_3              five_4              five_5
##  not_agree    :167   not_agree    :103   not_agree    :102
##  partial_agree:378   partial_agree:437   partial_agree:428
##  fully_agree  :205   fully_agree  :210   fully_agree  :220
##            five_6              five_7              five_8
##  not_agree    :120   not_agree    : 52   not_agree    :177
##  partial_agree:412   partial_agree:489   partial_agree:414
##  fully_agree  :218   fully_agree  :209   fully_agree  :159
```

```
library("lavaan")
```

```
## This is lavaan 0.6-15
## lavaan is FREE software! Please report any bugs.
```

```
names(item_dat)
```

```
##  [1] "satsisf_1"  "satsisf_2"  "satsisf_3"  "satsisf_4"  "satsisf_5"
##  [6] "satsisf_6"  "satsisf_7"  "satsisf_8"  "satsisf_9"  "satsisf_10"
## [11] "satsisf_11" "satsisf_12" "satsisf_13" "closen_1"   "closen_2"
## [16] "closen_3"   "closen_4"   "closen_5"   "closen_6"   "closen_7"
## [21] "closen_8"   "common_1"   "common_2"   "common_3"   "common_4"
## [26] "common_5"   "common_6"   "common_7"   "common_8"   "secur_1"
## [31] "secur_2"    "secur_3"    "secur_4"    "secur_5"    "secur_6"
## [36] "secur_7"    "secur_8"    "five_1"     "five_2"     "five_3"
## [41] "five_4"     "five_5"     "five_6"     "five_7"     "five_8"
```

```
mod <- '
  satisf =~ satsisf_1 + satsisf_2 + satsisf_3 + satsisf_4 + satsisf_5 +
  satsisf_6 + satsisf_7 + satsisf_8 + satsisf_9 + satsisf_10 + satsisf_11 +
  satsisf_12 + satsisf_13

  closen =~ closen_1 + closen_2 + closen_3 + closen_4 + closen_5 + closen_6 +
  closen_7 + closen_8
```

```
  common =~ common_1 + common_2 + common_3 + common_4 + common_5 + common_6 +
  common_7 + common_8

  secur =~ secur_1 + secur_2 + secur_3 + secur_4 + secur_5 + secur_6 +
  secur_7 + secur_8

  five =~ five_1 + five_2 + five_3 + five_4 + five_5 + five_6 +
  five_7 + five_8

  value =~ closen + common + secur + five

  friendship =~ lambda*satisf + lambda*value

'
fit <- cfa(mod, data = item_dat, ordered = names(item_dat))
summary(fit, standardized=TRUE, fit.measures=TRUE)
```

```
## lavaan 0.6.15 ended normally after 70 iterations
##
##   Estimator                                         DWLS
##   Optimization method                           NLMINB
##   Number of model parameters                       140
##
##   Number of observations                           750
##
## Model Test User Model:
##                                              Standard      Scaled
##   Test Statistic                              600.027     954.866
##   Degrees of freedom                              940         940
##   P-value (Chi-square)                          1.000       0.361
##   Scaling correction factor                                 1.399
##   Shift parameter                                         526.105
##     simple second-order correction
##
## Model Test Baseline Model:
##
##   Test statistic                            227503.089   49688.427
##   Degrees of freedom                               990         990
##   P-value                                        0.000       0.000
##   Scaling correction factor                                  4.651
##
## User Model versus Baseline Model:
##
##   Comparative Fit Index (CFI)                    1.000       1.000
##   Tucker-Lewis Index (TLI)                       1.002       1.000
##
##   Robust Comparative Fit Index (CFI)                         0.977
##   Robust Tucker-Lewis Index (TLI)                            0.976
##
## Root Mean Square Error of Approximation:
##
##   RMSEA                                          0.000       0.005
##   90 Percent confidence interval - lower         0.000       0.000
```

```
##   90 Percent confidence interval - upper         0.000       0.011
##   P-value H_0: RMSEA <= 0.050                    1.000       1.000
##   P-value H_0: RMSEA >= 0.080                    0.000       0.000
##
##   Robust RMSEA                                               0.035
##   90 Percent confidence interval - lower                     0.027
##   90 Percent confidence interval - upper                     0.043
##   P-value H_0: Robust RMSEA <= 0.050                         0.999
##   P-value H_0: Robust RMSEA >= 0.080                         0.000
##
## Standardized Root Mean Square Residual:
##
##   SRMR                                           0.031       0.031
##
## Parameter Estimates:
##
##   Standard errors                             Robust.sem
##   Information                                   Expected
##   Information saturated (h1) model        Unstructured
##
## Latent Variables:
##                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##   satisf =~
##     stssf_1          1.000                               0.817    0.817
##     stssf_2          0.976    0.037   26.306    0.000    0.798    0.798
##     stssf_3          0.988    0.040   24.966    0.000    0.807    0.807
##     stssf_4          0.999    0.039   25.452    0.000    0.816    0.816
##     stssf_5          0.956    0.044   21.976    0.000    0.782    0.782
##     stssf_6          0.985    0.042   23.311    0.000    0.805    0.805
##     stssf_7          1.035    0.040   25.824    0.000    0.846    0.846
##     stssf_8          1.033    0.045   22.852    0.000    0.844    0.844
##     stssf_9          1.009    0.037   27.105    0.000    0.825    0.825
##     stss_10          0.989    0.040   24.924    0.000    0.808    0.808
##     stss_11          0.941    0.043   21.960    0.000    0.769    0.769
##     stss_12          1.051    0.037   28.220    0.000    0.859    0.859
##     stss_13          1.020    0.037   27.214    0.000    0.834    0.834
##   closen =~
##     closn_1          1.000                               0.860    0.860
##     closn_2          1.028    0.030   33.940    0.000    0.884    0.884
##     closn_3          0.973    0.029   33.816    0.000    0.837    0.837
##     closn_4          0.978    0.032   30.279    0.000    0.840    0.840
##     closn_5          0.992    0.032   31.466    0.000    0.853    0.853
##     closn_6          0.953    0.037   26.042    0.000    0.819    0.819
##     closn_7          1.011    0.031   32.981    0.000    0.869    0.869
##     closn_8          0.970    0.038   25.197    0.000    0.834    0.834
##   common =~
##     commn_1          1.000                               0.869    0.869
##     commn_2          1.033    0.032   32.579    0.000    0.898    0.898
##     commn_3          0.998    0.030   32.931    0.000    0.867    0.867
##     commn_4          0.976    0.031   31.726    0.000    0.848    0.848
##     commn_5          0.965    0.037   26.353    0.000    0.838    0.838
##     commn_6          0.944    0.031   30.712    0.000    0.820    0.820
##     commn_7          0.940    0.032   29.390    0.000    0.817    0.817
##     commn_8          0.969    0.029   33.050    0.000    0.842    0.842
```

```
##   secur =~
##     secur_1           1.000                               0.913    0.913
##     secur_2           0.972    0.019   52.563    0.000    0.888    0.888
##     secur_3           0.994    0.018   55.854    0.000    0.907    0.907
##     secur_4           1.013    0.016   61.949    0.000    0.925    0.925
##     secur_5           1.007    0.017   60.867    0.000    0.919    0.919
##     secur_6           0.989    0.017   59.110    0.000    0.903    0.903
##     secur_7           0.969    0.017   55.627    0.000    0.885    0.885
##     secur_8           0.999    0.017   58.728    0.000    0.912    0.912
##   five =~
##     five_1            1.000                               0.874    0.874
##     five_2            0.996    0.030   33.252    0.000    0.871    0.871
##     five_3            0.980    0.031   31.873    0.000    0.856    0.856
##     five_4            0.960    0.028   34.132    0.000    0.839    0.839
##     five_5            1.004    0.030   32.997    0.000    0.878    0.878
##     five_6            0.989    0.029   34.425    0.000    0.865    0.865
##     five_7            0.978    0.031   31.674    0.000    0.855    0.855
##     five_8            0.983    0.030   33.119    0.000    0.859    0.859
##   value =~
##     closen            1.000                               0.836    0.836
##     common            0.976    0.041   24.041    0.000    0.806    0.806
##     secur             1.147    0.044   26.097    0.000    0.902    0.902
##     five              0.982    0.043   22.584    0.000    0.807    0.807
##   friendship =~
##     satisf  (lmbd)    1.000                               0.635    0.635
##     value   (lmbd)    1.000                               0.722    0.722
##
## Intercepts:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.000                               0.000    0.000
##    .satsisf_2         0.000                               0.000    0.000
##    .satsisf_3         0.000                               0.000    0.000
##    .satsisf_4         0.000                               0.000    0.000
##    .satsisf_5         0.000                               0.000    0.000
##    .satsisf_6         0.000                               0.000    0.000
##    .satsisf_7         0.000                               0.000    0.000
##    .satsisf_8         0.000                               0.000    0.000
##    .satsisf_9         0.000                               0.000    0.000
##    .satsisf_10        0.000                               0.000    0.000
##    .satsisf_11        0.000                               0.000    0.000
##    .satsisf_12        0.000                               0.000    0.000
##    .satsisf_13        0.000                               0.000    0.000
##    .closen_1          0.000                               0.000    0.000
##    .closen_2          0.000                               0.000    0.000
##    .closen_3          0.000                               0.000    0.000
##    .closen_4          0.000                               0.000    0.000
##    .closen_5          0.000                               0.000    0.000
##    .closen_6          0.000                               0.000    0.000
##    .closen_7          0.000                               0.000    0.000
##    .closen_8          0.000                               0.000    0.000
##    .common_1          0.000                               0.000    0.000
##    .common_2          0.000                               0.000    0.000
##    .common_3          0.000                               0.000    0.000
##    .common_4          0.000                               0.000    0.000
```

```
##    .common_5          0.000                                0.000    0.000
##    .common_6          0.000                                0.000    0.000
##    .common_7          0.000                                0.000    0.000
##    .common_8          0.000                                0.000    0.000
##    .secur_1           0.000                                0.000    0.000
##    .secur_2           0.000                                0.000    0.000
##    .secur_3           0.000                                0.000    0.000
##    .secur_4           0.000                                0.000    0.000
##    .secur_5           0.000                                0.000    0.000
##    .secur_6           0.000                                0.000    0.000
##    .secur_7           0.000                                0.000    0.000
##    .secur_8           0.000                                0.000    0.000
##    .five_1            0.000                                0.000    0.000
##    .five_2            0.000                                0.000    0.000
##    .five_3            0.000                                0.000    0.000
##    .five_4            0.000                                0.000    0.000
##    .five_5            0.000                                0.000    0.000
##    .five_6            0.000                                0.000    0.000
##    .five_7            0.000                                0.000    0.000
##    .five_8            0.000                                0.000    0.000
##    .satisf            0.000                                0.000    0.000
##    .closen            0.000                                0.000    0.000
##    .common            0.000                                0.000    0.000
##    .secur             0.000                                0.000    0.000
##    .five              0.000                                0.000    0.000
##    .value             0.000                                0.000    0.000
##     friendship        0.000                                0.000    0.000
##
## Thresholds:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1|t1     -1.329    0.064  -20.764    0.000   -1.329   -1.329
##     satsisf_1|t2      1.000    0.055   18.125    0.000    1.000    1.000
##     satsisf_2|t1     -0.781    0.051  -15.242    0.000   -0.781   -0.781
##     satsisf_2|t2      0.795    0.051   15.447    0.000    0.795    0.795
##     satsisf_3|t1     -0.672    0.050  -13.512    0.000   -0.672   -0.672
##     satsisf_3|t2      0.920    0.054   17.175    0.000    0.920    0.920
##     satsisf_4|t1     -1.034    0.056  -18.491    0.000   -1.034   -1.034
##     satsisf_4|t2      0.809    0.052   15.650    0.000    0.809    0.809
##     satsisf_5|t1     -1.533    0.072  -21.331    0.000   -1.533   -1.533
##     satsisf_5|t2      0.832    0.052   15.987    0.000    0.832    0.832
##     satsisf_6|t1     -1.237    0.061  -20.245    0.000   -1.237   -1.237
##     satsisf_6|t2      0.936    0.054   17.368    0.000    0.936    0.936
##     satsisf_7|t1     -0.885    0.053  -16.718    0.000   -0.885   -0.885
##     satsisf_7|t2      0.957    0.054   17.624    0.000    0.957    0.957
##     satsisf_8|t1     -1.678    0.079  -21.250    0.000   -1.678   -1.678
##     satsisf_8|t2      1.086    0.057   19.023    0.000    1.086    1.086
##     satsisf_9|t1     -0.861    0.053  -16.388    0.000   -0.861   -0.861
##     satsisf_9|t2      0.754    0.051   14.831    0.000    0.754    0.754
##     satsisf_10|t1    -0.681    0.050  -13.652    0.000   -0.681   -0.681
##     satsisf_10|t2     1.051    0.056   18.671    0.000    1.051    1.051
##     satsisf_11|t1    -0.984    0.055  -17.939    0.000   -0.984   -0.984
##     satsisf_11|t2     1.491    0.070   21.281    0.000    1.491    1.491
##     satsisf_12|t1    -1.130    0.058  -19.419    0.000   -1.130   -1.130
##     satsisf_12|t2     0.890    0.053   16.784    0.000    0.890    0.890
```

```
##     satsisf_13|t1    -0.936    0.054  -17.368    0.000   -0.936   -0.936
##     satsisf_13|t2     0.559    0.048   11.532    0.000    0.559    0.559
##     closen_1|t1      -1.011    0.055  -18.248    0.000   -1.011   -1.011
##     closen_1|t2       0.302    0.047    6.486    0.000    0.302    0.302
##     closen_2|t1      -1.244    0.061  -20.292    0.000   -1.244   -1.244
##     closen_2|t2       0.772    0.051   15.106    0.000    0.772    0.772
##     closen_3|t1      -0.777    0.051  -15.174    0.000   -0.777   -0.777
##     closen_3|t2       0.750    0.051   14.762    0.000    0.750    0.750
##     closen_4|t1      -1.045    0.056  -18.612    0.000   -1.045   -1.045
##     closen_4|t2       0.809    0.052   15.650    0.000    0.809    0.809
##     closen_5|t1      -1.051    0.056  -18.671    0.000   -1.051   -1.051
##     closen_5|t2       1.074    0.057   18.907    0.000    1.074    1.074
##     closen_6|t1      -1.638    0.077  -21.310    0.000   -1.638   -1.638
##     closen_6|t2       0.846    0.052   16.188    0.000    0.846    0.846
##     closen_7|t1      -0.973    0.055  -17.813    0.000   -0.973   -0.973
##     closen_7|t2       0.698    0.050   13.931    0.000    0.698    0.698
##     closen_8|t1      -1.267    0.062  -20.429    0.000   -1.267   -1.267
##     closen_8|t2       1.461    0.069   21.224    0.000    1.461    1.461
##     common_1|t1      -1.130    0.058  -19.419    0.000   -1.130   -1.130
##     common_1|t2       0.494    0.048   10.316    0.000    0.494    0.494
##     common_2|t1      -1.589    0.074  -21.345    0.000   -1.589   -1.589
##     common_2|t2       0.685    0.050   13.722    0.000    0.685    0.685
##     common_3|t1      -0.623    0.049  -12.668    0.000   -0.623   -0.623
##     common_3|t2       0.936    0.054   17.368    0.000    0.936    0.936
##     common_4|t1      -1.313    0.063  -20.685    0.000   -1.313   -1.313
##     common_4|t2       0.222    0.046    4.813    0.000    0.222    0.222
##     common_5|t1      -1.162    0.059  -19.690    0.000   -1.162   -1.162
##     common_5|t2       1.589    0.074   21.345    0.000    1.589    1.589
##     common_6|t1      -1.252    0.062  -20.338    0.000   -1.252   -1.252
##     common_6|t2       0.910    0.053   17.045    0.000    0.910    0.910
##     common_7|t1      -1.244    0.061  -20.292    0.000   -1.244   -1.244
##     common_7|t2       0.827    0.052   15.920    0.000    0.827    0.827
##     common_8|t1      -1.117    0.058  -19.308    0.000   -1.117   -1.117
##     common_8|t2       0.567    0.049   11.674    0.000    0.567    0.567
##     secur_1|t1       -0.737    0.051  -14.556    0.000   -0.737   -0.737
##     secur_1|t2        0.323    0.047    6.921    0.000    0.323    0.323
##     secur_2|t1       -0.804    0.052  -15.582    0.000   -0.804   -0.804
##     secur_2|t2        0.754    0.051   14.831    0.000    0.754    0.754
##     secur_3|t1       -0.619    0.049  -12.597    0.000   -0.619   -0.619
##     secur_3|t2        0.171    0.046    3.720    0.000    0.171    0.171
##     secur_4|t1       -0.498    0.048  -10.387    0.000   -0.498   -0.498
##     secur_4|t2        0.369    0.047    7.864    0.000    0.369    0.369
##     secur_5|t1       -0.837    0.052  -16.054    0.000   -0.837   -0.837
##     secur_5|t2        0.253    0.046    5.468    0.000    0.253    0.253
##     secur_6|t1       -0.380    0.047   -8.081    0.000   -0.380   -0.380
##     secur_6|t2        0.591    0.049   12.101    0.000    0.591    0.591
##     secur_7|t1       -0.528    0.048  -10.961    0.000   -0.528   -0.528
##     secur_7|t2        0.471    0.048    9.885    0.000    0.471    0.471
##     secur_8|t1       -0.668    0.050  -13.442    0.000   -0.668   -0.668
##     secur_8|t2        0.312    0.047    6.703    0.000    0.312    0.312
##     five_1|t1        -0.759    0.051  -14.900    0.000   -0.759   -0.759
##     five_1|t2         1.353    0.065   20.876    0.000    1.353    1.353
##     five_2|t1        -1.313    0.063  -20.685    0.000   -1.313   -1.313
##     five_2|t2         0.468    0.048    9.813    0.000    0.468    0.468
```

```
##     five_3|t1        -0.763    0.051  -14.969    0.000   -0.763   -0.763
##     five_3|t2         0.603    0.049   12.314    0.000    0.603    0.603
##     five_4|t1        -1.092    0.057  -19.081    0.000   -1.092   -1.092
##     five_4|t2         0.583    0.049   11.959    0.000    0.583    0.583
##     five_5|t1        -1.098    0.057  -19.138    0.000   -1.098   -1.098
##     five_5|t2         0.544    0.048   11.246    0.000    0.544    0.544
##     five_6|t1        -0.994    0.055  -18.063    0.000   -0.994   -0.994
##     five_6|t2         0.551    0.048   11.389    0.000    0.551    0.551
##     five_7|t1        -1.481    0.070  -21.263    0.000   -1.481   -1.481
##     five_7|t2         0.587    0.049   12.030    0.000    0.587    0.587
##     five_8|t1        -0.719    0.050  -14.279    0.000   -0.719   -0.719
##     five_8|t2         0.800    0.052   15.515    0.000    0.800    0.800
##
## Variances:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.332                               0.332    0.332
##    .satsisf_2         0.364                               0.364    0.364
##    .satsisf_3         0.349                               0.349    0.349
##    .satsisf_4         0.334                               0.334    0.334
##    .satsisf_5         0.389                               0.389    0.389
##    .satsisf_6         0.352                               0.352    0.352
##    .satsisf_7         0.284                               0.284    0.284
##    .satsisf_8         0.288                               0.288    0.288
##    .satsisf_9         0.320                               0.320    0.320
##    .satsisf_10        0.347                               0.347    0.347
##    .satsisf_11        0.409                               0.409    0.409
##    .satsisf_12        0.263                               0.263    0.263
##    .satsisf_13        0.305                               0.305    0.305
##    .closen_1          0.261                               0.261    0.261
##    .closen_2          0.219                               0.219    0.219
##    .closen_3          0.300                               0.300    0.300
##    .closen_4          0.294                               0.294    0.294
##    .closen_5          0.273                               0.273    0.273
##    .closen_6          0.329                               0.329    0.329
##    .closen_7          0.244                               0.244    0.244
##    .closen_8          0.305                               0.305    0.305
##    .common_1          0.245                               0.245    0.245
##    .common_2          0.193                               0.193    0.193
##    .common_3          0.248                               0.248    0.248
##    .common_4          0.281                               0.281    0.281
##    .common_5          0.297                               0.297    0.297
##    .common_6          0.327                               0.327    0.327
##    .common_7          0.333                               0.333    0.333
##    .common_8          0.291                               0.291    0.291
##    .secur_1           0.166                               0.166    0.166
##    .secur_2           0.211                               0.211    0.211
##    .secur_3           0.176                               0.176    0.176
##    .secur_4           0.144                               0.144    0.144
##    .secur_5           0.155                               0.155    0.155
##    .secur_6           0.185                               0.185    0.185
##    .secur_7           0.217                               0.217    0.217
##    .secur_8           0.168                               0.168    0.168
##    .five_1            0.236                               0.236    0.236
##    .five_2            0.241                               0.241    0.241
```

```
##    .five_3           0.267                                  0.267    0.267
##    .five_4           0.295                                  0.295    0.295
##    .five_5           0.230                                  0.230    0.230
##    .five_6           0.252                                  0.252    0.252
##    .five_7           0.269                                  0.269    0.269
##    .five_8           0.262                                  0.262    0.262
##    .satisf           0.399    0.038   10.633    0.000       0.597    0.597
##    .closen           0.223    0.021   10.455    0.000       0.302    0.302
##    .common           0.264    0.024   11.200    0.000       0.350    0.350
##    .secur            0.156    0.023    6.825    0.000       0.187    0.187
##    .five             0.266    0.026   10.263    0.000       0.348    0.348
##    .value            0.247    0.031    7.917    0.000       0.479    0.479
##     friendship       0.269    0.024   11.311    0.000       1.000    1.000
##
## Scales y*:
##                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1        1.000                                1.000    1.000
##     satsisf_2        1.000                                1.000    1.000
##     satsisf_3        1.000                                1.000    1.000
##     satsisf_4        1.000                                1.000    1.000
##     satsisf_5        1.000                                1.000    1.000
##     satsisf_6        1.000                                1.000    1.000
##     satsisf_7        1.000                                1.000    1.000
##     satsisf_8        1.000                                1.000    1.000
##     satsisf_9        1.000                                1.000    1.000
##     satsisf_10       1.000                                1.000    1.000
##     satsisf_11       1.000                                1.000    1.000
##     satsisf_12       1.000                                1.000    1.000
##     satsisf_13       1.000                                1.000    1.000
##     closen_1         1.000                                1.000    1.000
##     closen_2         1.000                                1.000    1.000
##     closen_3         1.000                                1.000    1.000
##     closen_4         1.000                                1.000    1.000
##     closen_5         1.000                                1.000    1.000
##     closen_6         1.000                                1.000    1.000
##     closen_7         1.000                                1.000    1.000
##     closen_8         1.000                                1.000    1.000
##     common_1         1.000                                1.000    1.000
##     common_2         1.000                                1.000    1.000
##     common_3         1.000                                1.000    1.000
##     common_4         1.000                                1.000    1.000
##     common_5         1.000                                1.000    1.000
##     common_6         1.000                                1.000    1.000
##     common_7         1.000                                1.000    1.000
##     common_8         1.000                                1.000    1.000
##     secur_1          1.000                                1.000    1.000
##     secur_2          1.000                                1.000    1.000
##     secur_3          1.000                                1.000    1.000
##     secur_4          1.000                                1.000    1.000
##     secur_5          1.000                                1.000    1.000
##     secur_6          1.000                                1.000    1.000
##     secur_7          1.000                                1.000    1.000
##     secur_8          1.000                                1.000    1.000
##     five_1           1.000                                1.000    1.000
```

```
##     five_2           1.000                                1.000    1.000
##     five_3           1.000                                1.000    1.000
##     five_4           1.000                                1.000    1.000
##     five_5           1.000                                1.000    1.000
##     five_6           1.000                                1.000    1.000
##     five_7           1.000                                1.000    1.000
##     five_8           1.000                                1.000    1.000
```

Multigroup / measurement invariance

```
total_score <- rowSums(sapply(item_dat, as.numeric))
total_score <- total_score / max(total_score)
set.seed(42)
autism <- 1 - rbinom(750, 1, prob = total_score)
tapply(total_score, autism, mean)
```

```
##         0         1
## 0.7204483 0.6373002
```

```
tapply(total_score, autism, sd)
```

```
##         0         1
## 0.1211463 0.1181256
```

```
item_dat$autism <- autism

## Configural invariance model (same patterns)
fit.c <- cfa(mod, data = item_dat, ordered = names(item_dat), group = "autism")
```

```
## Warning in lavaanify(model = FLAT, constraints = constraints, varTable = DataOV, : lavaan WARNING: us
##   setting implies imposing equality constraints across all the groups;
##   If this is not intended, either remove the label(s), or use a vector
##   of labels (one for each group);
##   See the Multiple groups section in the man page of model.syntax.
```

```
summary(fit.c, standardized=TRUE, fit.measures=TRUE)
```

```
## lavaan 0.6.15 ended normally after 81 iterations
##
##   Estimator                                         DWLS
##   Optimization method                           NLMINB
##   Number of model parameters                       280
##
##   Number of observations per group:
##     1                                              226
##     0                                              524
##
## Model Test User Model:
```

```
##                                                   Standard      Scaled
##   Test Statistic                                 1231.754    1903.994
##   Degrees of freedom                                1880        1880
##   P-value (Chi-square)                             1.000       0.344
##   Scaling correction factor                                    1.711
##   Shift parameter                                           1184.003
##     simple second-order correction
##   Test statistic for each group:
##     1                                             641.904     731.989
##     0                                             589.849    1172.005
##
## Model Test Baseline Model:
##
##   Test statistic                              201318.242   43188.153
##   Degrees of freedom                            1980        1980
##   P-value                                       0.000       0.000
##   Scaling correction factor                                  4.837
##
## User Model versus Baseline Model:
##
##   Comparative Fit Index (CFI)                      1.000       0.999
##   Tucker-Lewis Index (TLI)                         1.003       0.999
##
##   Robust Comparative Fit Index (CFI)                              NA
##   Robust Tucker-Lewis Index (TLI)                                 NA
##
## Root Mean Square Error of Approximation:
##
##   RMSEA                                            0.000       0.006
##   90 Percent confidence interval - lower           0.000       0.000
##   90 Percent confidence interval - upper           0.000       0.014
##   P-value H_0: RMSEA <= 0.050                      1.000       1.000
##   P-value H_0: RMSEA >= 0.080                      0.000       0.000
##
##   Robust RMSEA                                                    NA
##   90 Percent confidence interval - lower                          NA
##   90 Percent confidence interval - upper                          NA
##   P-value H_0: Robust RMSEA <= 0.050                              NA
##   P-value H_0: Robust RMSEA >= 0.080                              NA
##
## Standardized Root Mean Square Residual:
##
##   SRMR                                             0.045       0.045
##
## Parameter Estimates:
##
##   Standard errors                            Robust.sem
##   Information                                  Expected
##   Information saturated (h1) model         Unstructured
##
##
## Group 1 [1]:
##
## Latent Variables:
```

```
##                  Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##   satisf =~
##     stssf_1         1.000                              0.834    0.834
##     stssf_2         0.942    0.069   13.681    0.000    0.786    0.786
##     stssf_3         1.024    0.071   14.334    0.000    0.855    0.855
##     stssf_4         0.937    0.070   13.459    0.000    0.782    0.782
##     stssf_5         0.915    0.076   11.995    0.000    0.763    0.763
##     stssf_6         0.903    0.077   11.681    0.000    0.753    0.753
##     stssf_7         0.965    0.073   13.183    0.000    0.805    0.805
##     stssf_8         0.985    0.079   12.439    0.000    0.822    0.822
##     stssf_9         0.901    0.069   13.070    0.000    0.752    0.752
##     stss_10         0.995    0.075   13.190    0.000    0.830    0.830
##     stss_11         0.987    0.070   14.098    0.000    0.824    0.824
##     stss_12         1.008    0.072   13.961    0.000    0.841    0.841
##     stss_13         0.958    0.067   14.292    0.000    0.799    0.799
##   closen =~
##     closn_1         1.000                              0.845    0.845
##     closn_2         1.009    0.056   18.080    0.000    0.853    0.853
##     closn_3         1.029    0.053   19.274    0.000    0.870    0.870
##     closn_4         0.992    0.062   15.919    0.000    0.838    0.838
##     closn_5         1.020    0.058   17.594    0.000    0.862    0.862
##     closn_6         0.991    0.070   14.134    0.000    0.837    0.837
##     closn_7         0.916    0.065   14.155    0.000    0.774    0.774
##     closn_8         0.946    0.073   12.960    0.000    0.799    0.799
##   common =~
##     commn_1         1.000                              0.850    0.850
##     commn_2         1.026    0.062   16.581    0.000    0.873    0.873
##     commn_3         1.016    0.057   17.775    0.000    0.864    0.864
##     commn_4         0.987    0.058   16.929    0.000    0.839    0.839
##     commn_5         1.032    0.075   13.835    0.000    0.878    0.878
##     commn_6         0.995    0.053   18.895    0.000    0.846    0.846
##     commn_7         0.957    0.062   15.365    0.000    0.814    0.814
##     commn_8         0.983    0.052   18.824    0.000    0.835    0.835
##   secur =~
##     secur_1         1.000                              0.899    0.899
##     secur_2         1.001    0.033   30.139    0.000    0.900    0.900
##     secur_3         1.002    0.033   30.187    0.000    0.901    0.901
##     secur_4         1.051    0.033   31.471    0.000    0.945    0.945
##     secur_5         1.021    0.030   34.116    0.000    0.918    0.918
##     secur_6         1.024    0.026   38.694    0.000    0.921    0.921
##     secur_7         1.017    0.030   34.399    0.000    0.915    0.915
##     secur_8         1.012    0.032   31.922    0.000    0.910    0.910
##   five =~
##     five_1          1.000                              0.885    0.885
##     five_2          0.991    0.050   19.820    0.000    0.877    0.877
##     five_3          0.961    0.050   19.327    0.000    0.851    0.851
##     five_4          0.988    0.052   19.188    0.000    0.875    0.875
##     five_5          0.922    0.055   16.693    0.000    0.816    0.816
##     five_6          0.985    0.049   19.973    0.000    0.872    0.872
##     five_7          0.962    0.054   17.741    0.000    0.852    0.852
##     five_8          0.991    0.048   20.473    0.000    0.877    0.877
##   value =~
##     closen          1.000                              0.809    0.809
##     common          1.002    0.080   12.465    0.000    0.806    0.806
```

```
##     secur             1.146    0.085   13.409    0.000    0.872    0.872
##     five              1.020    0.081   12.561    0.000    0.788    0.788
##   friendship =~
##     satisf  (lmbd)    1.000                              0.562    0.562
##     value   (lmbd)    1.000                              0.686    0.686
##
## Intercepts:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.000                              0.000    0.000
##    .satsisf_2         0.000                              0.000    0.000
##    .satsisf_3         0.000                              0.000    0.000
##    .satsisf_4         0.000                              0.000    0.000
##    .satsisf_5         0.000                              0.000    0.000
##    .satsisf_6         0.000                              0.000    0.000
##    .satsisf_7         0.000                              0.000    0.000
##    .satsisf_8         0.000                              0.000    0.000
##    .satsisf_9         0.000                              0.000    0.000
##    .satsisf_10        0.000                              0.000    0.000
##    .satsisf_11        0.000                              0.000    0.000
##    .satsisf_12        0.000                              0.000    0.000
##    .satsisf_13        0.000                              0.000    0.000
##    .closen_1          0.000                              0.000    0.000
##    .closen_2          0.000                              0.000    0.000
##    .closen_3          0.000                              0.000    0.000
##    .closen_4          0.000                              0.000    0.000
##    .closen_5          0.000                              0.000    0.000
##    .closen_6          0.000                              0.000    0.000
##    .closen_7          0.000                              0.000    0.000
##    .closen_8          0.000                              0.000    0.000
##    .common_1          0.000                              0.000    0.000
##    .common_2          0.000                              0.000    0.000
##    .common_3          0.000                              0.000    0.000
##    .common_4          0.000                              0.000    0.000
##    .common_5          0.000                              0.000    0.000
##    .common_6          0.000                              0.000    0.000
##    .common_7          0.000                              0.000    0.000
##    .common_8          0.000                              0.000    0.000
##    .secur_1           0.000                              0.000    0.000
##    .secur_2           0.000                              0.000    0.000
##    .secur_3           0.000                              0.000    0.000
##    .secur_4           0.000                              0.000    0.000
##    .secur_5           0.000                              0.000    0.000
##    .secur_6           0.000                              0.000    0.000
##    .secur_7           0.000                              0.000    0.000
##    .secur_8           0.000                              0.000    0.000
##    .five_1            0.000                              0.000    0.000
##    .five_2            0.000                              0.000    0.000
##    .five_3            0.000                              0.000    0.000
##    .five_4            0.000                              0.000    0.000
##    .five_5            0.000                              0.000    0.000
##    .five_6            0.000                              0.000    0.000
##    .five_7            0.000                              0.000    0.000
##    .five_8            0.000                              0.000    0.000
##    .satisf            0.000                              0.000    0.000
```

```
##    .closen            0.000                               0.000    0.000
##    .common            0.000                               0.000    0.000
##    .secur             0.000                               0.000    0.000
##    .five              0.000                               0.000    0.000
##    .value             0.000                               0.000    0.000
##     friendship        0.000                               0.000    0.000
##
## Thresholds:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1|t1     -1.114    0.105  -10.574    0.000   -1.114   -1.114
##     satsisf_1|t2      1.297    0.115   11.302    0.000    1.297    1.297
##     satsisf_2|t1     -0.654    0.090   -7.240    0.000   -0.654   -0.654
##     satsisf_2|t2      0.979    0.100    9.814    0.000    0.979    0.979
##     satsisf_3|t1     -0.484    0.087   -5.556    0.000   -0.484   -0.484
##     satsisf_3|t2      1.156    0.107   10.774    0.000    1.156    1.156
##     satsisf_4|t1     -0.893    0.097   -9.230    0.000   -0.893   -0.893
##     satsisf_4|t2      1.054    0.103   10.258    0.000    1.054    1.054
##     satsisf_5|t1     -1.272    0.113  -11.223    0.000   -1.272   -1.272
##     satsisf_5|t2      1.114    0.105   10.574    0.000    1.114    1.114
##     satsisf_6|t1     -1.114    0.105  -10.574    0.000   -1.114   -1.114
##     satsisf_6|t2      1.156    0.107   10.774    0.000    1.156    1.156
##     satsisf_7|t1     -0.681    0.091   -7.495    0.000   -0.681   -0.681
##     satsisf_7|t2      1.223    0.111   11.054    0.000    1.223    1.223
##     satsisf_8|t1     -1.378    0.120  -11.508    0.000   -1.378   -1.378
##     satsisf_8|t2      1.297    0.115   11.302    0.000    1.297    1.297
##     satsisf_9|t1     -0.696    0.091   -7.622    0.000   -0.696   -0.696
##     satsisf_9|t2      1.073    0.104   10.366    0.000    1.073    1.073
##     satsisf_10|t1    -0.497    0.087   -5.686    0.000   -0.497   -0.497
##     satsisf_10|t2     1.247    0.112   11.141    0.000    1.247    1.247
##     satsisf_11|t1    -0.783    0.093   -8.376    0.000   -0.783   -0.783
##     satsisf_11|t2     1.753    0.152   11.555    0.000    1.753    1.753
##     satsisf_12|t1    -0.927    0.098   -9.466    0.000   -0.927   -0.927
##     satsisf_12|t2     1.156    0.107   10.774    0.000    1.156    1.156
##     satsisf_13|t1    -0.681    0.091   -7.495    0.000   -0.681   -0.681
##     satsisf_13|t2     0.798    0.094    8.500    0.000    0.798    0.798
##     closen_1|t1      -0.724    0.092   -7.875    0.000   -0.724   -0.724
##     closen_1|t2       0.668    0.091    7.368    0.000    0.668    0.668
##     closen_2|t1      -0.783    0.093   -8.376    0.000   -0.783   -0.783
##     closen_2|t2       1.178    0.108   10.870    0.000    1.178    1.178
##     closen_3|t1      -0.423    0.086   -4.900    0.000   -0.423   -0.423
##     closen_3|t2       1.093    0.104   10.471    0.000    1.093    1.093
##     closen_4|t1      -0.724    0.092   -7.875    0.000   -0.724   -0.724
##     closen_4|t2       1.223    0.111   11.054    0.000    1.223    1.223
##     closen_5|t1      -0.668    0.091   -7.368    0.000   -0.668   -0.668
##     closen_5|t2       1.576    0.135   11.710    0.000    1.576    1.576
##     closen_6|t1      -1.438    0.124  -11.613    0.000   -1.438   -1.438
##     closen_6|t2       1.200    0.109   10.964    0.000    1.200    1.200
##     closen_7|t1      -0.654    0.090   -7.240    0.000   -0.654   -0.654
##     closen_7|t2       1.093    0.104   10.471    0.000    1.093    1.093
##     closen_8|t1      -0.944    0.099   -9.583    0.000   -0.944   -0.944
##     closen_8|t2       1.753    0.152   11.555    0.000    1.753    1.753
##     common_1|t1      -0.783    0.093   -8.376    0.000   -0.783   -0.783
##     common_1|t2       0.893    0.097    9.230    0.000    0.893    0.893
##     common_2|t1      -1.272    0.113  -11.223    0.000   -1.272   -1.272
```

```
##     common_2|t2       1.200    0.109   10.964    0.000    1.200    1.200
##     common_3|t1      -0.327    0.085   -3.846    0.000   -0.327   -0.327
##     common_3|t2       1.438    0.124   11.613    0.000    1.438    1.438
##     common_4|t1      -1.114    0.105  -10.574    0.000   -1.114   -1.114
##     common_4|t2       0.497    0.087    5.686    0.000    0.497    0.497
##     common_5|t1      -0.910    0.097   -9.348    0.000   -0.910   -0.910
##     common_5|t2       2.218    0.224    9.918    0.000    2.218    2.218
##     common_6|t1      -0.979    0.100   -9.814    0.000   -0.979   -0.979
##     common_6|t2       1.323    0.116   11.376    0.000    1.323    1.323
##     common_7|t1      -0.979    0.100   -9.814    0.000   -0.979   -0.979
##     common_7|t2       1.297    0.115   11.302    0.000    1.297    1.297
##     common_8|t1      -0.783    0.093   -8.376    0.000   -0.783   -0.783
##     common_8|t2       0.798    0.094    8.500    0.000    0.798    0.798
##     secur_1|t1       -0.509    0.088   -5.817    0.000   -0.509   -0.509
##     secur_1|t2        0.753    0.093    8.127    0.000    0.753    0.753
##     secur_2|t1       -0.387    0.086   -4.506    0.000   -0.387   -0.387
##     secur_2|t2        1.272    0.113   11.223    0.000    1.272    1.272
##     secur_3|t1       -0.190    0.084   -2.257    0.024   -0.190   -0.190
##     secur_3|t2        0.547    0.088    6.208    0.000    0.547    0.547
##     secur_4|t1       -0.122    0.084   -1.461    0.144   -0.122   -0.122
##     secur_4|t2        0.798    0.094    8.500    0.000    0.798    0.798
##     secur_5|t1       -0.423    0.086   -4.900    0.000   -0.423   -0.423
##     secur_5|t2        0.710    0.092    7.749    0.000    0.710    0.710
##     secur_6|t1       -0.078    0.084   -0.930    0.352   -0.078   -0.078
##     secur_6|t2        1.035    0.102   10.149    0.000    1.035    1.035
##     secur_7|t1       -0.258    0.084   -3.053    0.002   -0.258   -0.258
##     secur_7|t2        0.814    0.094    8.623    0.000    0.814    0.814
##     secur_8|t1       -0.269    0.085   -3.185    0.001   -0.269   -0.269
##     secur_8|t2        0.739    0.092    8.001    0.000    0.739    0.739
##     five_1|t1        -0.375    0.086   -4.374    0.000   -0.375   -0.375
##     five_1|t2         1.807    0.158   11.449    0.000    1.807    1.807
##     five_2|t1        -0.997    0.100   -9.927    0.000   -0.997   -0.997
##     five_2|t2         0.845    0.095    8.868    0.000    0.845    0.845
##     five_3|t1        -0.435    0.086   -5.032    0.000   -0.435   -0.435
##     five_3|t2         0.910    0.097    9.348    0.000    0.910    0.910
##     five_4|t1        -0.710    0.092   -7.749    0.000   -0.710   -0.710
##     five_4|t2         0.893    0.097    9.230    0.000    0.893    0.893
##     five_5|t1        -0.753    0.093   -8.127    0.000   -0.753   -0.753
##     five_5|t2         0.962    0.099    9.699    0.000    0.962    0.962
##     five_6|t1        -0.600    0.089   -6.726    0.000   -0.600   -0.600
##     five_6|t2         0.997    0.100    9.927    0.000    0.997    0.997
##     five_7|t1        -1.035    0.102  -10.149    0.000   -1.035   -1.035
##     five_7|t2         0.979    0.100    9.814    0.000    0.979    0.979
##     five_8|t1        -0.423    0.086   -4.900    0.000   -0.423   -0.423
##     five_8|t2         1.114    0.105   10.574    0.000    1.114    1.114
##
## Variances:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.304                               0.304    0.304
##    .satsisf_2         0.383                               0.383    0.383
##    .satsisf_3         0.270                               0.270    0.270
##    .satsisf_4         0.388                               0.388    0.388
##    .satsisf_5         0.417                               0.417    0.417
##    .satsisf_6         0.432                               0.432    0.432
```

```
##    .satsisf_7        0.352                                  0.352    0.352
##    .satsisf_8        0.325                                  0.325    0.325
##    .satsisf_9        0.434                                  0.434    0.434
##    .satsisf_10       0.311                                  0.311    0.311
##    .satsisf_11       0.321                                  0.321    0.321
##    .satsisf_12       0.293                                  0.293    0.293
##    .satsisf_13       0.362                                  0.362    0.362
##    .closen_1         0.286                                  0.286    0.286
##    .closen_2         0.273                                  0.273    0.273
##    .closen_3         0.243                                  0.243    0.243
##    .closen_4         0.297                                  0.297    0.297
##    .closen_5         0.258                                  0.258    0.258
##    .closen_6         0.299                                  0.299    0.299
##    .closen_7         0.400                                  0.400    0.400
##    .closen_8         0.361                                  0.361    0.361
##    .common_1         0.277                                  0.277    0.277
##    .common_2         0.238                                  0.238    0.238
##    .common_3         0.253                                  0.253    0.253
##    .common_4         0.296                                  0.296    0.296
##    .common_5         0.230                                  0.230    0.230
##    .common_6         0.284                                  0.284    0.284
##    .common_7         0.337                                  0.337    0.337
##    .common_8         0.302                                  0.302    0.302
##    .secur_1          0.191                                  0.191    0.191
##    .secur_2          0.189                                  0.189    0.189
##    .secur_3          0.189                                  0.189    0.189
##    .secur_4          0.107                                  0.107    0.107
##    .secur_5          0.157                                  0.157    0.157
##    .secur_6          0.152                                  0.152    0.152
##    .secur_7          0.163                                  0.163    0.163
##    .secur_8          0.172                                  0.172    0.172
##    .five_1           0.217                                  0.217    0.217
##    .five_2           0.231                                  0.231    0.231
##    .five_3           0.277                                  0.277    0.277
##    .five_4           0.235                                  0.235    0.235
##    .five_5           0.334                                  0.334    0.334
##    .five_6           0.240                                  0.240    0.240
##    .five_7           0.275                                  0.275    0.275
##    .five_8           0.230                                  0.230    0.230
##    .satisf           0.476    0.077    6.178    0.000       0.684    0.684
##    .closen           0.247    0.042    5.926    0.000       0.345    0.345
##    .common           0.253    0.045    5.680    0.000       0.350    0.350
##    .secur            0.194    0.042    4.678    0.000       0.240    0.240
##    .five             0.297    0.050    5.960    0.000       0.379    0.379
##    .value            0.248    0.055    4.468    0.000       0.530    0.530
##     friendship       0.220    0.045    4.844    0.000       1.000    1.000
##
## Scales y*:
##                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1        1.000                                1.000    1.000
##     satsisf_2        1.000                                1.000    1.000
##     satsisf_3        1.000                                1.000    1.000
##     satsisf_4        1.000                                1.000    1.000
##     satsisf_5        1.000                                1.000    1.000
```

```
##     satsisf_6         1.000                                1.000    1.000
##     satsisf_7         1.000                                1.000    1.000
##     satsisf_8         1.000                                1.000    1.000
##     satsisf_9         1.000                                1.000    1.000
##     satsisf_10        1.000                                1.000    1.000
##     satsisf_11        1.000                                1.000    1.000
##     satsisf_12        1.000                                1.000    1.000
##     satsisf_13        1.000                                1.000    1.000
##     closen_1          1.000                                1.000    1.000
##     closen_2          1.000                                1.000    1.000
##     closen_3          1.000                                1.000    1.000
##     closen_4          1.000                                1.000    1.000
##     closen_5          1.000                                1.000    1.000
##     closen_6          1.000                                1.000    1.000
##     closen_7          1.000                                1.000    1.000
##     closen_8          1.000                                1.000    1.000
##     common_1          1.000                                1.000    1.000
##     common_2          1.000                                1.000    1.000
##     common_3          1.000                                1.000    1.000
##     common_4          1.000                                1.000    1.000
##     common_5          1.000                                1.000    1.000
##     common_6          1.000                                1.000    1.000
##     common_7          1.000                                1.000    1.000
##     common_8          1.000                                1.000    1.000
##     secur_1           1.000                                1.000    1.000
##     secur_2           1.000                                1.000    1.000
##     secur_3           1.000                                1.000    1.000
##     secur_4           1.000                                1.000    1.000
##     secur_5           1.000                                1.000    1.000
##     secur_6           1.000                                1.000    1.000
##     secur_7           1.000                                1.000    1.000
##     secur_8           1.000                                1.000    1.000
##     five_1            1.000                                1.000    1.000
##     five_2            1.000                                1.000    1.000
##     five_3            1.000                                1.000    1.000
##     five_4            1.000                                1.000    1.000
##     five_5            1.000                                1.000    1.000
##     five_6            1.000                                1.000    1.000
##     five_7            1.000                                1.000    1.000
##     five_8            1.000                                1.000    1.000
##
##
## Group 2 [0]:
##
## Latent Variables:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##   satisf =~
##     stssf_1           1.000                               0.801    0.801
##     stssf_2           1.008    0.046   22.090    0.000    0.807    0.807
##     stssf_3           0.977    0.050   19.682    0.000    0.783    0.783
##     stssf_4           1.032    0.049   21.006    0.000    0.827    0.827
##     stssf_5           0.969    0.054   17.821    0.000    0.776    0.776
##     stssf_6           1.030    0.051   20.301    0.000    0.825    0.825
##     stssf_7           1.075    0.050   21.598    0.000    0.861    0.861
```

```
##     stssf_8           1.059    0.057   18.710    0.000    0.848    0.848
##     stssf_9           1.053    0.045   23.555    0.000    0.844    0.844
##     stss_10           0.999    0.048   20.890    0.000    0.800    0.800
##     stss_11           0.928    0.055   16.784    0.000    0.743    0.743
##     stss_12           1.076    0.047   22.916    0.000    0.862    0.862
##     stss_13           1.045    0.046   22.570    0.000    0.837    0.837
##   closen =~
##     closn_1           1.000                               0.860    0.860
##     closn_2           1.027    0.038   26.787    0.000    0.883    0.883
##     closn_3           0.937    0.037   25.614    0.000    0.806    0.806
##     closn_4           0.962    0.041   23.579    0.000    0.828    0.828
##     closn_5           0.961    0.042   23.102    0.000    0.826    0.826
##     closn_6           0.940    0.046   20.628    0.000    0.808    0.808
##     closn_7           1.043    0.037   28.323    0.000    0.897    0.897
##     closn_8           0.985    0.049   19.967    0.000    0.847    0.847
##   common =~
##     commn_1           1.000                               0.862    0.862
##     commn_2           1.034    0.041   25.193    0.000    0.891    0.891
##     commn_3           0.995    0.040   25.103    0.000    0.858    0.858
##     commn_4           0.992    0.040   25.093    0.000    0.855    0.855
##     commn_5           0.960    0.046   21.047    0.000    0.827    0.827
##     commn_6           0.925    0.042   21.881    0.000    0.797    0.797
##     commn_7           0.931    0.041   22.723    0.000    0.802    0.802
##     commn_8           0.978    0.039   25.123    0.000    0.843    0.843
##   secur =~
##     secur_1           1.000                               0.919    0.919
##     secur_2           0.942    0.024   39.079    0.000    0.865    0.865
##     secur_3           0.982    0.023   43.283    0.000    0.902    0.902
##     secur_4           0.989    0.020   50.043    0.000    0.909    0.909
##     secur_5           0.986    0.021   46.372    0.000    0.906    0.906
##     secur_6           0.971    0.022   44.119    0.000    0.892    0.892
##     secur_7           0.948    0.022   42.588    0.000    0.871    0.871
##     secur_8           0.984    0.022   44.504    0.000    0.904    0.904
##   five =~
##     five_1            1.000                               0.857    0.857
##     five_2            1.001    0.041   24.482    0.000    0.858    0.858
##     five_3            1.001    0.044   22.751    0.000    0.858    0.858
##     five_4            0.946    0.039   23.948    0.000    0.810    0.810
##     five_5            1.041    0.041   25.091    0.000    0.892    0.892
##     five_6            0.983    0.040   24.335    0.000    0.842    0.842
##     five_7            0.978    0.043   22.668    0.000    0.838    0.838
##     five_8            0.989    0.042   23.523    0.000    0.848    0.848
##   value =~
##     closen            1.000                               0.828    0.828
##     common            0.950    0.051   18.658    0.000    0.785    0.785
##     secur             1.167    0.056   20.703    0.000    0.905    0.905
##     five              0.949    0.054   17.442    0.000    0.789    0.789
##   friendship =~
##     satisf  (lmbd)    1.000                               0.634    0.634
##     value   (lmbd)    1.000                               0.714    0.714
##
## Intercepts:
##                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.000                               0.000    0.000
```

```
##    .satsisf_2        0.000                             0.000    0.000
##    .satsisf_3        0.000                             0.000    0.000
##    .satsisf_4        0.000                             0.000    0.000
##    .satsisf_5        0.000                             0.000    0.000
##    .satsisf_6        0.000                             0.000    0.000
##    .satsisf_7        0.000                             0.000    0.000
##    .satsisf_8        0.000                             0.000    0.000
##    .satsisf_9        0.000                             0.000    0.000
##    .satsisf_10       0.000                             0.000    0.000
##    .satsisf_11       0.000                             0.000    0.000
##    .satsisf_12       0.000                             0.000    0.000
##    .satsisf_13       0.000                             0.000    0.000
##    .closen_1         0.000                             0.000    0.000
##    .closen_2         0.000                             0.000    0.000
##    .closen_3         0.000                             0.000    0.000
##    .closen_4         0.000                             0.000    0.000
##    .closen_5         0.000                             0.000    0.000
##    .closen_6         0.000                             0.000    0.000
##    .closen_7         0.000                             0.000    0.000
##    .closen_8         0.000                             0.000    0.000
##    .common_1         0.000                             0.000    0.000
##    .common_2         0.000                             0.000    0.000
##    .common_3         0.000                             0.000    0.000
##    .common_4         0.000                             0.000    0.000
##    .common_5         0.000                             0.000    0.000
##    .common_6         0.000                             0.000    0.000
##    .common_7         0.000                             0.000    0.000
##    .common_8         0.000                             0.000    0.000
##    .secur_1          0.000                             0.000    0.000
##    .secur_2          0.000                             0.000    0.000
##    .secur_3          0.000                             0.000    0.000
##    .secur_4          0.000                             0.000    0.000
##    .secur_5          0.000                             0.000    0.000
##    .secur_6          0.000                             0.000    0.000
##    .secur_7          0.000                             0.000    0.000
##    .secur_8          0.000                             0.000    0.000
##    .five_1           0.000                             0.000    0.000
##    .five_2           0.000                             0.000    0.000
##    .five_3           0.000                             0.000    0.000
##    .five_4           0.000                             0.000    0.000
##    .five_5           0.000                             0.000    0.000
##    .five_6           0.000                             0.000    0.000
##    .five_7           0.000                             0.000    0.000
##    .five_8           0.000                             0.000    0.000
##    .satisf           0.000                             0.000    0.000
##    .closen           0.000                             0.000    0.000
##    .common           0.000                             0.000    0.000
##    .secur            0.000                             0.000    0.000
##    .five             0.000                             0.000    0.000
##    .value            0.000                             0.000    0.000
##     friendship       0.000                             0.000    0.000
##
## Thresholds:
##                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
```

```
##     satsisf_1|t1    -1.444    0.082  -17.695    0.000   -1.444   -1.444
##     satsisf_1|t2     0.896    0.064   14.083    0.000    0.896    0.896
##     satsisf_2|t1    -0.840    0.062  -13.450    0.000   -0.840   -0.840
##     satsisf_2|t2     0.723    0.060   11.982    0.000    0.723    0.723
##     satsisf_3|t1    -0.761    0.061  -12.477    0.000   -0.761   -0.761
##     satsisf_3|t2     0.833    0.062   13.370    0.000    0.833    0.833
##     satsisf_4|t1    -1.101    0.069  -16.004    0.000   -1.101   -1.101
##     satsisf_4|t2     0.717    0.060   11.899    0.000    0.717    0.717
##     satsisf_5|t1    -1.687    0.095  -17.736    0.000   -1.687   -1.687
##     satsisf_5|t2     0.730    0.060   12.065    0.000    0.730    0.730
##     satsisf_6|t1    -1.297    0.075  -17.210    0.000   -1.297   -1.297
##     satsisf_6|t2     0.854    0.063   13.610    0.000    0.854    0.854
##     satsisf_7|t1    -0.985    0.066  -15.002    0.000   -0.985   -0.985
##     satsisf_7|t2     0.861    0.063   13.689    0.000    0.861    0.861
##     satsisf_8|t1    -1.873    0.109  -17.183    0.000   -1.873   -1.873
##     satsisf_8|t2     1.009    0.066   15.224    0.000    1.009    1.009
##     satsisf_9|t1    -0.940    0.065  -14.548    0.000   -0.940   -0.940
##     satsisf_9|t2     0.639    0.059   10.812    0.000    0.639    0.639
##     satsisf_10|t1   -0.768    0.061  -12.559    0.000   -0.768   -0.768
##     satsisf_10|t2    0.978    0.065   14.927    0.000    0.978    0.978
##     satsisf_11|t1   -1.083    0.068  -15.867    0.000   -1.083   -1.083
##     satsisf_11|t2    1.404    0.080   17.599    0.000    1.404    1.404
##     satsisf_12|t1   -1.233    0.073  -16.887    0.000   -1.233   -1.233
##     satsisf_12|t2    0.794    0.062   12.885    0.000    0.794    0.794
##     satsisf_13|t1   -1.066    0.068  -15.727    0.000   -1.066   -1.066
##     satsisf_13|t2    0.466    0.057    8.169    0.000    0.466    0.466
##     closen_1|t1     -1.164    0.071  -16.465    0.000   -1.164   -1.164
##     closen_1|t2      0.159    0.055    2.878    0.004    0.159    0.159
##     closen_2|t1     -1.562    0.088  -17.830    0.000   -1.562   -1.562
##     closen_2|t2      0.633    0.059   10.728    0.000    0.633    0.633
##     closen_3|t1     -0.962    0.065  -14.776    0.000   -0.962   -0.962
##     closen_3|t2      0.627    0.059   10.643    0.000    0.627    0.627
##     closen_4|t1     -1.223    0.073  -16.830    0.000   -1.223   -1.223
##     closen_4|t2      0.668    0.060   11.232    0.000    0.668    0.668
##     closen_5|t1     -1.275    0.075  -17.107    0.000   -1.275   -1.275
##     closen_5|t2      0.925    0.064   14.394    0.000    0.925    0.925
##     closen_6|t1     -1.750    0.099  -17.602    0.000   -1.750   -1.750
##     closen_6|t2      0.723    0.060   11.982    0.000    0.723    0.723
##     closen_7|t1     -1.146    0.070  -16.336    0.000   -1.146   -1.146
##     closen_7|t2      0.559    0.058    9.625    0.000    0.559    0.559
##     closen_8|t1     -1.457    0.082  -17.722    0.000   -1.457   -1.457
##     closen_8|t2      1.367    0.078   17.485    0.000    1.367    1.367
##     common_1|t1     -1.331    0.077  -17.354    0.000   -1.331   -1.331
##     common_1|t2      0.346    0.056    6.182    0.000    0.346    0.346
##     common_2|t1     -1.796    0.103  -17.469    0.000   -1.796   -1.796
##     common_2|t2      0.515    0.058    8.942    0.000    0.515    0.515
##     common_3|t1     -0.768    0.061  -12.559    0.000   -0.768   -0.768
##     common_3|t2      0.780    0.061   12.722    0.000    0.780    0.780
##     common_4|t1     -1.417    0.080  -17.633    0.000   -1.417   -1.417
##     common_4|t2      0.110    0.055    2.006    0.045    0.110    0.110
##     common_5|t1     -1.297    0.075  -17.210    0.000   -1.297   -1.297
##     common_5|t2      1.444    0.082   17.695    0.000    1.444    1.444
##     common_6|t1     -1.404    0.080  -17.599    0.000   -1.404   -1.404
##     common_6|t2      0.774    0.061   12.641    0.000    0.774    0.774
```

```
##     common_7|t1      -1.391    0.079  -17.563    0.000   -1.391   -1.391
##     common_7|t2       0.674    0.060   11.316    0.000    0.674    0.674
##     common_8|t1      -1.308    0.076  -17.259    0.000   -1.308   -1.308
##     common_8|t2       0.477    0.057    8.341    0.000    0.477    0.477
##     secur_1|t1       -0.847    0.063  -13.530    0.000   -0.847   -0.847
##     secur_1|t2        0.159    0.055    2.878    0.004    0.159    0.159
##     secur_2|t1       -1.033    0.067  -15.442    0.000   -1.033   -1.033
##     secur_2|t2        0.587    0.058   10.050    0.000    0.587    0.587
##     secur_3|t1       -0.840    0.062  -13.450    0.000   -0.840   -0.840
##     secur_3|t2        0.019    0.055    0.349    0.727    0.019    0.019
##     secur_4|t1       -0.681    0.060  -11.399    0.000   -0.681   -0.681
##     secur_4|t2        0.207    0.055    3.749    0.000    0.207    0.207
##     secur_5|t1       -1.066    0.068  -15.727    0.000   -1.066   -1.066
##     secur_5|t2        0.077    0.055    1.396    0.163    0.077    0.077
##     secur_6|t1       -0.520    0.058   -9.027    0.000   -0.520   -0.520
##     secur_6|t2        0.434    0.057    7.652    0.000    0.434    0.434
##     secur_7|t1       -0.657    0.059  -11.064    0.000   -0.657   -0.657
##     secur_7|t2        0.341    0.056    6.096    0.000    0.341    0.341
##     secur_8|t1       -0.875    0.063  -13.848    0.000   -0.875   -0.875
##     secur_8|t2        0.149    0.055    2.704    0.007    0.149    0.149
##     five_1|t1        -0.962    0.065  -14.776    0.000   -0.962   -0.962
##     five_1|t2         1.223    0.073   16.830    0.000    1.223    1.223
##     five_2|t1        -1.500    0.084  -17.787    0.000   -1.500   -1.500
##     five_2|t2         0.326    0.056    5.836    0.000    0.326    0.326
##     five_3|t1        -0.932    0.064  -14.471    0.000   -0.932   -0.932
##     five_3|t2         0.487    0.057    8.513    0.000    0.487    0.487
##     five_4|t1        -1.319    0.076  -17.308    0.000   -1.319   -1.319
##     five_4|t2         0.466    0.057    8.169    0.000    0.466    0.466
##     five_5|t1        -1.297    0.075  -17.210    0.000   -1.297   -1.297
##     five_5|t2         0.393    0.056    6.962    0.000    0.393    0.393
##     five_6|t1        -1.223    0.073  -16.830    0.000   -1.223   -1.223
##     five_6|t2         0.393    0.056    6.962    0.000    0.393    0.393
##     five_7|t1        -1.820    0.105  -17.386    0.000   -1.820   -1.820
##     five_7|t2         0.445    0.057    7.825    0.000    0.445    0.445
##     five_8|t1        -0.868    0.063  -13.769    0.000   -0.868   -0.868
##     five_8|t2         0.687    0.060   11.483    0.000    0.687    0.687
##
## Variances:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.358                               0.358    0.358
##    .satsisf_2         0.348                               0.348    0.348
##    .satsisf_3         0.387                               0.387    0.387
##    .satsisf_4         0.316                               0.316    0.316
##    .satsisf_5         0.398                               0.398    0.398
##    .satsisf_6         0.319                               0.319    0.319
##    .satsisf_7         0.259                               0.259    0.259
##    .satsisf_8         0.280                               0.280    0.280
##    .satsisf_9         0.288                               0.288    0.288
##    .satsisf_10        0.360                               0.360    0.360
##    .satsisf_11        0.448                               0.448    0.448
##    .satsisf_12        0.256                               0.256    0.256
##    .satsisf_13        0.299                               0.299    0.299
##    .closen_1          0.261                               0.261    0.261
##    .closen_2          0.221                               0.221    0.221
```

```
##    .closen_3          0.351                                  0.351    0.351
##    .closen_4          0.315                                  0.315    0.315
##    .closen_5          0.317                                  0.317    0.317
##    .closen_6          0.347                                  0.347    0.347
##    .closen_7          0.196                                  0.196    0.196
##    .closen_8          0.283                                  0.283    0.283
##    .common_1          0.257                                  0.257    0.257
##    .common_2          0.206                                  0.206    0.206
##    .common_3          0.264                                  0.264    0.264
##    .common_4          0.269                                  0.269    0.269
##    .common_5          0.316                                  0.316    0.316
##    .common_6          0.364                                  0.364    0.364
##    .common_7          0.357                                  0.357    0.357
##    .common_8          0.290                                  0.290    0.290
##    .secur_1           0.156                                  0.156    0.156
##    .secur_2           0.251                                  0.251    0.251
##    .secur_3           0.186                                  0.186    0.186
##    .secur_4           0.175                                  0.175    0.175
##    .secur_5           0.180                                  0.180    0.180
##    .secur_6           0.204                                  0.204    0.204
##    .secur_7           0.241                                  0.241    0.241
##    .secur_8           0.183                                  0.183    0.183
##    .five_1            0.266                                  0.266    0.266
##    .five_2            0.264                                  0.264    0.264
##    .five_3            0.264                                  0.264    0.264
##    .five_4            0.344                                  0.344    0.344
##    .five_5            0.205                                  0.205    0.205
##    .five_6            0.291                                  0.291    0.291
##    .five_7            0.298                                  0.298    0.298
##    .five_8            0.282                                  0.282    0.282
##    .satisf            0.384    0.045    8.601    0.000       0.598    0.598
##    .closen            0.232    0.027    8.715    0.000       0.314    0.314
##    .common            0.285    0.030    9.568    0.000       0.384    0.384
##    .secur             0.153    0.030    5.088    0.000       0.181    0.181
##    .five              0.277    0.033    8.412    0.000       0.378    0.378
##    .value             0.249    0.038    6.592    0.000       0.491    0.491
##     friendship        0.258    0.027    9.474    0.000       1.000    1.000
##
## Scales y*:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1         1.000                                1.000    1.000
##     satsisf_2         1.000                                1.000    1.000
##     satsisf_3         1.000                                1.000    1.000
##     satsisf_4         1.000                                1.000    1.000
##     satsisf_5         1.000                                1.000    1.000
##     satsisf_6         1.000                                1.000    1.000
##     satsisf_7         1.000                                1.000    1.000
##     satsisf_8         1.000                                1.000    1.000
##     satsisf_9         1.000                                1.000    1.000
##     satsisf_10        1.000                                1.000    1.000
##     satsisf_11        1.000                                1.000    1.000
##     satsisf_12        1.000                                1.000    1.000
##     satsisf_13        1.000                                1.000    1.000
##     closen_1          1.000                                1.000    1.000
```

```
##     closen_2          1.000                                1.000    1.000
##     closen_3          1.000                                1.000    1.000
##     closen_4          1.000                                1.000    1.000
##     closen_5          1.000                                1.000    1.000
##     closen_6          1.000                                1.000    1.000
##     closen_7          1.000                                1.000    1.000
##     closen_8          1.000                                1.000    1.000
##     common_1          1.000                                1.000    1.000
##     common_2          1.000                                1.000    1.000
##     common_3          1.000                                1.000    1.000
##     common_4          1.000                                1.000    1.000
##     common_5          1.000                                1.000    1.000
##     common_6          1.000                                1.000    1.000
##     common_7          1.000                                1.000    1.000
##     common_8          1.000                                1.000    1.000
##     secur_1           1.000                                1.000    1.000
##     secur_2           1.000                                1.000    1.000
##     secur_3           1.000                                1.000    1.000
##     secur_4           1.000                                1.000    1.000
##     secur_5           1.000                                1.000    1.000
##     secur_6           1.000                                1.000    1.000
##     secur_7           1.000                                1.000    1.000
##     secur_8           1.000                                1.000    1.000
##     five_1            1.000                                1.000    1.000
##     five_2            1.000                                1.000    1.000
##     five_3            1.000                                1.000    1.000
##     five_4            1.000                                1.000    1.000
##     five_5            1.000                                1.000    1.000
##     five_6            1.000                                1.000    1.000
##     five_7            1.000                                1.000    1.000
##     five_8            1.000                                1.000    1.000
```

```
## Metric invariance model (same loadings)
fit.m <- cfa(mod, data = item_dat, ordered = names(item_dat), group = "autism",
             group.equal = c("loadings"))
summary(fit.m, standardized=TRUE, fit.measures=TRUE)
```

```
## lavaan 0.6.15 ended normally after 72 iterations
##
##   Estimator                                         DWLS
##   Optimization method                           NLMINB
##   Number of model parameters                       280
##   Number of equality constraints                    43
##
##   Number of observations per group:
##     1                                              226
##     0                                              524
##
## Model Test User Model:
##                                               Standard      Scaled
##   Test Statistic                              1396.834    1927.458
##   Degrees of freedom                             1923        1923
##   P-value (Chi-square)                          1.000       0.467
##   Scaling correction factor                                 2.062
```

```
##   Shift parameter                                        1249.981
##     simple second-order correction
##   Test statistic for each group:
##     1                                          760.052     745.293
##     0                                          636.782    1182.165
##
## Model Test Baseline Model:
##
##   Test statistic                             201318.242   43188.153
##   Degrees of freedom                               1980        1980
##   P-value                                         0.000       0.000
##   Scaling correction factor                                   4.837
##
## User Model versus Baseline Model:
##
##   Comparative Fit Index (CFI)                     1.000       1.000
##   Tucker-Lewis Index (TLI)                        1.003       1.000
##
##   Robust Comparative Fit Index (CFI)                             NA
##   Robust Tucker-Lewis Index (TLI)                                NA
##
## Root Mean Square Error of Approximation:
##
##   RMSEA                                           0.000       0.002
##   90 Percent confidence interval - lower          0.000       0.000
##   90 Percent confidence interval - upper          0.000       0.012
##   P-value H_0: RMSEA <= 0.050                     1.000       1.000
##   P-value H_0: RMSEA >= 0.080                     0.000       0.000
##
##   Robust RMSEA                                                   NA
##   90 Percent confidence interval - lower                         NA
##   90 Percent confidence interval - upper                         NA
##   P-value H_0: Robust RMSEA <= 0.050                             NA
##   P-value H_0: Robust RMSEA >= 0.080                             NA
##
## Standardized Root Mean Square Residual:
##
##   SRMR                                            0.048       0.048
##
## Parameter Estimates:
##
##   Standard errors                             Robust.sem
##   Information                                   Expected
##   Information saturated (h1) model        Unstructured
##
##
## Group 1 [1]:
##
## Latent Variables:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##   satisf =~
##     stssf_1           1.000                               0.800    0.800
##     stssf_2 (.p2.)    0.991    0.038   25.953    0.000    0.793    0.793
##     stssf_3 (.p3.)    0.991    0.041   24.182    0.000    0.793    0.793
```

```
##     stssf_4 (.p4.)    1.009    0.041   24.830    0.000    0.807    0.807
##     stssf_5 (.p5.)    0.955    0.045   21.228    0.000    0.764    0.764
##     stssf_6 (.p6.)    1.000    0.042   23.528    0.000    0.800    0.800
##     stssf_7 (.p7.)    1.046    0.041   25.251    0.000    0.837    0.837
##     stssf_8 (.p8.)    1.040    0.047   22.223    0.000    0.832    0.832
##     stssf_9 (.p9.)    1.014    0.037   27.076    0.000    0.811    0.811
##     stss_10 (.10.)    0.998    0.040   24.661    0.000    0.798    0.798
##     stss_11 (.11.)    0.947    0.044   21.472    0.000    0.757    0.757
##     stss_12 (.12.)    1.057    0.039   26.850    0.000    0.846    0.846
##     stss_13 (.13.)    1.023    0.038   26.634    0.000    0.818    0.818
##   closen =~
##     closn_1           1.000                               0.851    0.851
##     closn_2 (.15.)    1.022    0.032   32.177    0.000    0.870    0.870
##     closn_3 (.16.)    0.966    0.030   32.097    0.000    0.822    0.822
##     closn_4 (.17.)    0.972    0.034   28.432    0.000    0.828    0.828
##     closn_5 (.18.)    0.980    0.034   28.974    0.000    0.835    0.835
##     closn_6 (.19.)    0.956    0.038   24.979    0.000    0.813    0.813
##     closn_7 (.20.)    1.016    0.032   32.126    0.000    0.865    0.865
##     closn_8 (.21.)    0.972    0.041   23.674    0.000    0.828    0.828
##   common =~
##     commn_1           1.000                               0.863    0.863
##     commn_2 (.23.)    1.032    0.034   30.183    0.000    0.891    0.891
##     commn_3 (.24.)    1.000    0.033   30.617    0.000    0.863    0.863
##     commn_4 (.25.)    0.990    0.033   30.116    0.000    0.855    0.855
##     commn_5 (.26.)    0.979    0.039   25.105    0.000    0.846    0.846
##     commn_6 (.27.)    0.947    0.033   28.279    0.000    0.817    0.817
##     commn_7 (.28.)    0.937    0.034   27.393    0.000    0.809    0.809
##     commn_8 (.29.)    0.979    0.031   31.184    0.000    0.845    0.845
##   secur =~
##     secur_1           1.000                               0.925    0.925
##     secur_2 (.31.)    0.961    0.020   49.139    0.000    0.888    0.888
##     secur_3 (.32.)    0.988    0.019   52.788    0.000    0.914    0.914
##     secur_4 (.33.)    1.009    0.017   58.918    0.000    0.934    0.934
##     secur_5 (.34.)    0.996    0.017   57.616    0.000    0.921    0.921
##     secur_6 (.35.)    0.988    0.017   57.957    0.000    0.914    0.914
##     secur_7 (.36.)    0.970    0.018   54.921    0.000    0.897    0.897
##     secur_8 (.37.)    0.993    0.018   54.801    0.000    0.918    0.918
##   five =~
##     five_1            1.000                               0.876    0.876
##     five_2  (.39.)    0.996    0.032   31.353    0.000    0.872    0.872
##     five_3  (.40.)    0.987    0.034   29.362    0.000    0.865    0.865
##     five_4  (.41.)    0.959    0.031   30.613    0.000    0.840    0.840
##     five_5  (.42.)    1.001    0.033   30.429    0.000    0.877    0.877
##     five_6  (.43.)    0.982    0.031   31.300    0.000    0.860    0.860
##     five_7  (.44.)    0.971    0.034   28.698    0.000    0.850    0.850
##     five_8  (.45.)    0.988    0.032   30.801    0.000    0.866    0.866
##   value =~
##     closen            1.000                               0.824    0.824
##     common  (.47.)    0.967    0.043   22.420    0.000    0.785    0.785
##     secur   (.48.)    1.162    0.047   24.558    0.000    0.881    0.881
##     five    (.49.)    0.973    0.045   21.459    0.000    0.779    0.779
##   friendship =~
##     satisf  (lmbd)    1.000                               0.580    0.580
##     value   (lmbd)    1.000                               0.661    0.661
```

```
##
## Intercepts:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.000                               0.000    0.000
##    .satsisf_2         0.000                               0.000    0.000
##    .satsisf_3         0.000                               0.000    0.000
##    .satsisf_4         0.000                               0.000    0.000
##    .satsisf_5         0.000                               0.000    0.000
##    .satsisf_6         0.000                               0.000    0.000
##    .satsisf_7         0.000                               0.000    0.000
##    .satsisf_8         0.000                               0.000    0.000
##    .satsisf_9         0.000                               0.000    0.000
##    .satsisf_10        0.000                               0.000    0.000
##    .satsisf_11        0.000                               0.000    0.000
##    .satsisf_12        0.000                               0.000    0.000
##    .satsisf_13        0.000                               0.000    0.000
##    .closen_1          0.000                               0.000    0.000
##    .closen_2          0.000                               0.000    0.000
##    .closen_3          0.000                               0.000    0.000
##    .closen_4          0.000                               0.000    0.000
##    .closen_5          0.000                               0.000    0.000
##    .closen_6          0.000                               0.000    0.000
##    .closen_7          0.000                               0.000    0.000
##    .closen_8          0.000                               0.000    0.000
##    .common_1          0.000                               0.000    0.000
##    .common_2          0.000                               0.000    0.000
##    .common_3          0.000                               0.000    0.000
##    .common_4          0.000                               0.000    0.000
##    .common_5          0.000                               0.000    0.000
##    .common_6          0.000                               0.000    0.000
##    .common_7          0.000                               0.000    0.000
##    .common_8          0.000                               0.000    0.000
##    .secur_1           0.000                               0.000    0.000
##    .secur_2           0.000                               0.000    0.000
##    .secur_3           0.000                               0.000    0.000
##    .secur_4           0.000                               0.000    0.000
##    .secur_5           0.000                               0.000    0.000
##    .secur_6           0.000                               0.000    0.000
##    .secur_7           0.000                               0.000    0.000
##    .secur_8           0.000                               0.000    0.000
##    .five_1            0.000                               0.000    0.000
##    .five_2            0.000                               0.000    0.000
##    .five_3            0.000                               0.000    0.000
##    .five_4            0.000                               0.000    0.000
##    .five_5            0.000                               0.000    0.000
##    .five_6            0.000                               0.000    0.000
##    .five_7            0.000                               0.000    0.000
##    .five_8            0.000                               0.000    0.000
##    .satisf            0.000                               0.000    0.000
##    .closen            0.000                               0.000    0.000
##    .common            0.000                               0.000    0.000
##    .secur             0.000                               0.000    0.000
##    .five              0.000                               0.000    0.000
##    .value             0.000                               0.000    0.000
```

```
##     friendship        0.000                                0.000    0.000
##
## Thresholds:
##                     Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1|t1      -1.114    0.105  -10.574    0.000   -1.114   -1.114
##     satsisf_1|t2       1.297    0.115   11.302    0.000    1.297    1.297
##     satsisf_2|t1      -0.654    0.090   -7.240    0.000   -0.654   -0.654
##     satsisf_2|t2       0.979    0.100    9.814    0.000    0.979    0.979
##     satsisf_3|t1      -0.484    0.087   -5.556    0.000   -0.484   -0.484
##     satsisf_3|t2       1.156    0.107   10.774    0.000    1.156    1.156
##     satsisf_4|t1      -0.893    0.097   -9.230    0.000   -0.893   -0.893
##     satsisf_4|t2       1.054    0.103   10.258    0.000    1.054    1.054
##     satsisf_5|t1      -1.272    0.113  -11.223    0.000   -1.272   -1.272
##     satsisf_5|t2       1.114    0.105   10.574    0.000    1.114    1.114
##     satsisf_6|t1      -1.114    0.105  -10.574    0.000   -1.114   -1.114
##     satsisf_6|t2       1.156    0.107   10.774    0.000    1.156    1.156
##     satsisf_7|t1      -0.681    0.091   -7.495    0.000   -0.681   -0.681
##     satsisf_7|t2       1.223    0.111   11.054    0.000    1.223    1.223
##     satsisf_8|t1      -1.378    0.120  -11.508    0.000   -1.378   -1.378
##     satsisf_8|t2       1.297    0.115   11.302    0.000    1.297    1.297
##     satsisf_9|t1      -0.696    0.091   -7.622    0.000   -0.696   -0.696
##     satsisf_9|t2       1.073    0.104   10.366    0.000    1.073    1.073
##     satsisf_10|t1     -0.497    0.087   -5.686    0.000   -0.497   -0.497
##     satsisf_10|t2      1.247    0.112   11.141    0.000    1.247    1.247
##     satsisf_11|t1     -0.783    0.093   -8.376    0.000   -0.783   -0.783
##     satsisf_11|t2      1.753    0.152   11.555    0.000    1.753    1.753
##     satsisf_12|t1     -0.927    0.098   -9.466    0.000   -0.927   -0.927
##     satsisf_12|t2      1.156    0.107   10.774    0.000    1.156    1.156
##     satsisf_13|t1     -0.681    0.091   -7.495    0.000   -0.681   -0.681
##     satsisf_13|t2      0.798    0.094    8.500    0.000    0.798    0.798
##     closen_1|t1       -0.724    0.092   -7.875    0.000   -0.724   -0.724
##     closen_1|t2        0.668    0.091    7.368    0.000    0.668    0.668
##     closen_2|t1       -0.783    0.093   -8.376    0.000   -0.783   -0.783
##     closen_2|t2        1.178    0.108   10.870    0.000    1.178    1.178
##     closen_3|t1       -0.423    0.086   -4.900    0.000   -0.423   -0.423
##     closen_3|t2        1.093    0.104   10.471    0.000    1.093    1.093
##     closen_4|t1       -0.724    0.092   -7.875    0.000   -0.724   -0.724
##     closen_4|t2        1.223    0.111   11.054    0.000    1.223    1.223
##     closen_5|t1       -0.668    0.091   -7.368    0.000   -0.668   -0.668
##     closen_5|t2        1.576    0.135   11.710    0.000    1.576    1.576
##     closen_6|t1       -1.438    0.124  -11.613    0.000   -1.438   -1.438
##     closen_6|t2        1.200    0.109   10.964    0.000    1.200    1.200
##     closen_7|t1       -0.654    0.090   -7.240    0.000   -0.654   -0.654
##     closen_7|t2        1.093    0.104   10.471    0.000    1.093    1.093
##     closen_8|t1       -0.944    0.099   -9.583    0.000   -0.944   -0.944
##     closen_8|t2        1.753    0.152   11.555    0.000    1.753    1.753
##     common_1|t1       -0.783    0.093   -8.376    0.000   -0.783   -0.783
##     common_1|t2        0.893    0.097    9.230    0.000    0.893    0.893
##     common_2|t1       -1.272    0.113  -11.223    0.000   -1.272   -1.272
##     common_2|t2        1.200    0.109   10.964    0.000    1.200    1.200
##     common_3|t1       -0.327    0.085   -3.846    0.000   -0.327   -0.327
##     common_3|t2        1.438    0.124   11.613    0.000    1.438    1.438
##     common_4|t1       -1.114    0.105  -10.574    0.000   -1.114   -1.114
##     common_4|t2        0.497    0.087    5.686    0.000    0.497    0.497
```

```
##     common_5|t1      -0.910    0.097   -9.348    0.000   -0.910   -0.910
##     common_5|t2       2.218    0.224    9.918    0.000    2.218    2.218
##     common_6|t1      -0.979    0.100   -9.814    0.000   -0.979   -0.979
##     common_6|t2       1.323    0.116   11.376    0.000    1.323    1.323
##     common_7|t1      -0.979    0.100   -9.814    0.000   -0.979   -0.979
##     common_7|t2       1.297    0.115   11.302    0.000    1.297    1.297
##     common_8|t1      -0.783    0.093   -8.376    0.000   -0.783   -0.783
##     common_8|t2       0.798    0.094    8.500    0.000    0.798    0.798
##     secur_1|t1       -0.509    0.088   -5.817    0.000   -0.509   -0.509
##     secur_1|t2        0.753    0.093    8.127    0.000    0.753    0.753
##     secur_2|t1       -0.387    0.086   -4.506    0.000   -0.387   -0.387
##     secur_2|t2        1.272    0.113   11.223    0.000    1.272    1.272
##     secur_3|t1       -0.190    0.084   -2.257    0.024   -0.190   -0.190
##     secur_3|t2        0.547    0.088    6.208    0.000    0.547    0.547
##     secur_4|t1       -0.122    0.084   -1.461    0.144   -0.122   -0.122
##     secur_4|t2        0.798    0.094    8.500    0.000    0.798    0.798
##     secur_5|t1       -0.423    0.086   -4.900    0.000   -0.423   -0.423
##     secur_5|t2        0.710    0.092    7.749    0.000    0.710    0.710
##     secur_6|t1       -0.078    0.084   -0.930    0.352   -0.078   -0.078
##     secur_6|t2        1.035    0.102   10.149    0.000    1.035    1.035
##     secur_7|t1       -0.258    0.084   -3.053    0.002   -0.258   -0.258
##     secur_7|t2        0.814    0.094    8.623    0.000    0.814    0.814
##     secur_8|t1       -0.269    0.085   -3.185    0.001   -0.269   -0.269
##     secur_8|t2        0.739    0.092    8.001    0.000    0.739    0.739
##     five_1|t1        -0.375    0.086   -4.374    0.000   -0.375   -0.375
##     five_1|t2         1.807    0.158   11.449    0.000    1.807    1.807
##     five_2|t1        -0.997    0.100   -9.927    0.000   -0.997   -0.997
##     five_2|t2         0.845    0.095    8.868    0.000    0.845    0.845
##     five_3|t1        -0.435    0.086   -5.032    0.000   -0.435   -0.435
##     five_3|t2         0.910    0.097    9.348    0.000    0.910    0.910
##     five_4|t1        -0.710    0.092   -7.749    0.000   -0.710   -0.710
##     five_4|t2         0.893    0.097    9.230    0.000    0.893    0.893
##     five_5|t1        -0.753    0.093   -8.127    0.000   -0.753   -0.753
##     five_5|t2         0.962    0.099    9.699    0.000    0.962    0.962
##     five_6|t1        -0.600    0.089   -6.726    0.000   -0.600   -0.600
##     five_6|t2         0.997    0.100    9.927    0.000    0.997    0.997
##     five_7|t1        -1.035    0.102  -10.149    0.000   -1.035   -1.035
##     five_7|t2         0.979    0.100    9.814    0.000    0.979    0.979
##     five_8|t1        -0.423    0.086   -4.900    0.000   -0.423   -0.423
##     five_8|t2         1.114    0.105   10.574    0.000    1.114    1.114
##
## Variances:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.360                               0.360    0.360
##    .satsisf_2         0.372                               0.372    0.372
##    .satsisf_3         0.371                               0.371    0.371
##    .satsisf_4         0.348                               0.348    0.348
##    .satsisf_5         0.417                               0.417    0.417
##    .satsisf_6         0.360                               0.360    0.360
##    .satsisf_7         0.299                               0.299    0.299
##    .satsisf_8         0.307                               0.307    0.307
##    .satsisf_9         0.343                               0.343    0.343
##    .satsisf_10        0.363                               0.363    0.363
##    .satsisf_11        0.426                               0.426    0.426
```

```
##    .satsisf_12       0.285                                 0.285    0.285
##    .satsisf_13       0.331                                 0.331    0.331
##    .closen_1         0.275                                 0.275    0.275
##    .closen_2         0.244                                 0.244    0.244
##    .closen_3         0.324                                 0.324    0.324
##    .closen_4         0.315                                 0.315    0.315
##    .closen_5         0.303                                 0.303    0.303
##    .closen_6         0.338                                 0.338    0.338
##    .closen_7         0.252                                 0.252    0.252
##    .closen_8         0.315                                 0.315    0.315
##    .common_1         0.255                                 0.255    0.255
##    .common_2         0.207                                 0.207    0.207
##    .common_3         0.255                                 0.255    0.255
##    .common_4         0.269                                 0.269    0.269
##    .common_5         0.285                                 0.285    0.285
##    .common_6         0.332                                 0.332    0.332
##    .common_7         0.345                                 0.345    0.345
##    .common_8         0.286                                 0.286    0.286
##    .secur_1          0.144                                 0.144    0.144
##    .secur_2          0.211                                 0.211    0.211
##    .secur_3          0.164                                 0.164    0.164
##    .secur_4          0.128                                 0.128    0.128
##    .secur_5          0.152                                 0.152    0.152
##    .secur_6          0.164                                 0.164    0.164
##    .secur_7          0.195                                 0.195    0.195
##    .secur_8          0.157                                 0.157    0.157
##    .five_1           0.233                                 0.233    0.233
##    .five_2           0.239                                 0.239    0.239
##    .five_3           0.252                                 0.252    0.252
##    .five_4           0.294                                 0.294    0.294
##    .five_5           0.230                                 0.230    0.230
##    .five_6           0.260                                 0.260    0.260
##    .five_7           0.277                                 0.277    0.277
##    .five_8           0.251                                 0.251    0.251
##    .satisf           0.425    0.052    8.184    0.000     0.664    0.664
##    .closen           0.233    0.033    7.052    0.000     0.322    0.322
##    .common           0.286    0.034    8.376    0.000     0.383    0.383
##    .secur            0.192    0.038    5.050    0.000     0.225    0.225
##    .five             0.302    0.036    8.339    0.000     0.393    0.393
##    .value            0.276    0.045    6.135    0.000     0.563    0.563
##     friendship       0.215    0.042    5.111    0.000     1.000    1.000
##
## Scales y*:
##                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1        1.000                                1.000    1.000
##     satsisf_2        1.000                                1.000    1.000
##     satsisf_3        1.000                                1.000    1.000
##     satsisf_4        1.000                                1.000    1.000
##     satsisf_5        1.000                                1.000    1.000
##     satsisf_6        1.000                                1.000    1.000
##     satsisf_7        1.000                                1.000    1.000
##     satsisf_8        1.000                                1.000    1.000
##     satsisf_9        1.000                                1.000    1.000
##     satsisf_10       1.000                                1.000    1.000
```

```
##     satsisf_11        1.000                                    1.000    1.000
##     satsisf_12        1.000                                    1.000    1.000
##     satsisf_13        1.000                                    1.000    1.000
##     closen_1          1.000                                    1.000    1.000
##     closen_2          1.000                                    1.000    1.000
##     closen_3          1.000                                    1.000    1.000
##     closen_4          1.000                                    1.000    1.000
##     closen_5          1.000                                    1.000    1.000
##     closen_6          1.000                                    1.000    1.000
##     closen_7          1.000                                    1.000    1.000
##     closen_8          1.000                                    1.000    1.000
##     common_1          1.000                                    1.000    1.000
##     common_2          1.000                                    1.000    1.000
##     common_3          1.000                                    1.000    1.000
##     common_4          1.000                                    1.000    1.000
##     common_5          1.000                                    1.000    1.000
##     common_6          1.000                                    1.000    1.000
##     common_7          1.000                                    1.000    1.000
##     common_8          1.000                                    1.000    1.000
##     secur_1           1.000                                    1.000    1.000
##     secur_2           1.000                                    1.000    1.000
##     secur_3           1.000                                    1.000    1.000
##     secur_4           1.000                                    1.000    1.000
##     secur_5           1.000                                    1.000    1.000
##     secur_6           1.000                                    1.000    1.000
##     secur_7           1.000                                    1.000    1.000
##     secur_8           1.000                                    1.000    1.000
##     five_1            1.000                                    1.000    1.000
##     five_2            1.000                                    1.000    1.000
##     five_3            1.000                                    1.000    1.000
##     five_4            1.000                                    1.000    1.000
##     five_5            1.000                                    1.000    1.000
##     five_6            1.000                                    1.000    1.000
##     five_7            1.000                                    1.000    1.000
##     five_8            1.000                                    1.000    1.000
##
##
## Group 2 [0]:
##
## Latent Variables:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##   satisf =~
##     stssf_1           1.000                               0.813    0.813
##     stssf_2 (.p2.)    0.991    0.038   25.953    0.000    0.806    0.806
##     stssf_3 (.p3.)    0.991    0.041   24.182    0.000    0.806    0.806
##     stssf_4 (.p4.)    1.009    0.041   24.830    0.000    0.821    0.821
##     stssf_5 (.p5.)    0.955    0.045   21.228    0.000    0.777    0.777
##     stssf_6 (.p6.)    1.000    0.042   23.528    0.000    0.813    0.813
##     stssf_7 (.p7.)    1.046    0.041   25.251    0.000    0.851    0.851
##     stssf_8 (.p8.)    1.040    0.047   22.223    0.000    0.846    0.846
##     stssf_9 (.p9.)    1.014    0.037   27.076    0.000    0.825    0.825
##     stss_10 (.10.)    0.998    0.040   24.661    0.000    0.812    0.812
##     stss_11 (.11.)    0.947    0.044   21.472    0.000    0.770    0.770
##     stss_12 (.12.)    1.057    0.039   26.850    0.000    0.860    0.860
```

```
##     stss_13 (.13.)    1.023    0.038   26.634    0.000    0.832    0.832
##   closen =~
##     closn_1           1.000                               0.858    0.858
##     closn_2 (.15.)    1.022    0.032   32.177    0.000    0.877    0.877
##     closn_3 (.16.)    0.966    0.030   32.097    0.000    0.829    0.829
##     closn_4 (.17.)    0.972    0.034   28.432    0.000    0.834    0.834
##     closn_5 (.18.)    0.980    0.034   28.974    0.000    0.842    0.842
##     closn_6 (.19.)    0.956    0.038   24.979    0.000    0.820    0.820
##     closn_7 (.20.)    1.016    0.032   32.126    0.000    0.872    0.872
##     closn_8 (.21.)    0.972    0.041   23.674    0.000    0.834    0.834
##   common =~
##     commn_1           1.000                               0.857    0.857
##     commn_2 (.23.)    1.032    0.034   30.183    0.000    0.884    0.884
##     commn_3 (.24.)    1.000    0.033   30.617    0.000    0.857    0.857
##     commn_4 (.25.)    0.990    0.033   30.116    0.000    0.849    0.849
##     commn_5 (.26.)    0.979    0.039   25.105    0.000    0.840    0.840
##     commn_6 (.27.)    0.947    0.033   28.279    0.000    0.811    0.811
##     commn_7 (.28.)    0.937    0.034   27.393    0.000    0.804    0.804
##     commn_8 (.29.)    0.979    0.031   31.184    0.000    0.839    0.839
##   secur =~
##     secur_1           1.000                               0.907    0.907
##     secur_2 (.31.)    0.961    0.020   49.139    0.000    0.871    0.871
##     secur_3 (.32.)    0.988    0.019   52.788    0.000    0.897    0.897
##     secur_4 (.33.)    1.009    0.017   58.918    0.000    0.916    0.916
##     secur_5 (.34.)    0.996    0.017   57.616    0.000    0.903    0.903
##     secur_6 (.35.)    0.988    0.017   57.957    0.000    0.897    0.897
##     secur_7 (.36.)    0.970    0.018   54.921    0.000    0.880    0.880
##     secur_8 (.37.)    0.993    0.018   54.801    0.000    0.901    0.901
##   five =~
##     five_1            1.000                               0.863    0.863
##     five_2  (.39.)    0.996    0.032   31.353    0.000    0.860    0.860
##     five_3  (.40.)    0.987    0.034   29.362    0.000    0.852    0.852
##     five_4  (.41.)    0.959    0.031   30.613    0.000    0.828    0.828
##     five_5  (.42.)    1.001    0.033   30.429    0.000    0.865    0.865
##     five_6  (.43.)    0.982    0.031   31.300    0.000    0.848    0.848
##     five_7  (.44.)    0.971    0.034   28.698    0.000    0.838    0.838
##     five_8  (.45.)    0.988    0.032   30.801    0.000    0.853    0.853
##   value =~
##     closen            1.000                               0.819    0.819
##     common  (.47.)    0.967    0.043   22.420    0.000    0.794    0.794
##     secur   (.48.)    1.162    0.047   24.558    0.000    0.901    0.901
##     five    (.49.)    0.973    0.045   21.459    0.000    0.793    0.793
##   friendship =~
##     satisf  (lmbd)    1.000                               0.625    0.625
##     value   (lmbd)    1.000                               0.723    0.723
##
## Intercepts:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.000                               0.000    0.000
##    .satsisf_2         0.000                               0.000    0.000
##    .satsisf_3         0.000                               0.000    0.000
##    .satsisf_4         0.000                               0.000    0.000
##    .satsisf_5         0.000                               0.000    0.000
##    .satsisf_6         0.000                               0.000    0.000
```

```
##    .satsisf_7         0.000                                0.000    0.000
##    .satsisf_8         0.000                                0.000    0.000
##    .satsisf_9         0.000                                0.000    0.000
##    .satsisf_10        0.000                                0.000    0.000
##    .satsisf_11        0.000                                0.000    0.000
##    .satsisf_12        0.000                                0.000    0.000
##    .satsisf_13        0.000                                0.000    0.000
##    .closen_1          0.000                                0.000    0.000
##    .closen_2          0.000                                0.000    0.000
##    .closen_3          0.000                                0.000    0.000
##    .closen_4          0.000                                0.000    0.000
##    .closen_5          0.000                                0.000    0.000
##    .closen_6          0.000                                0.000    0.000
##    .closen_7          0.000                                0.000    0.000
##    .closen_8          0.000                                0.000    0.000
##    .common_1          0.000                                0.000    0.000
##    .common_2          0.000                                0.000    0.000
##    .common_3          0.000                                0.000    0.000
##    .common_4          0.000                                0.000    0.000
##    .common_5          0.000                                0.000    0.000
##    .common_6          0.000                                0.000    0.000
##    .common_7          0.000                                0.000    0.000
##    .common_8          0.000                                0.000    0.000
##    .secur_1           0.000                                0.000    0.000
##    .secur_2           0.000                                0.000    0.000
##    .secur_3           0.000                                0.000    0.000
##    .secur_4           0.000                                0.000    0.000
##    .secur_5           0.000                                0.000    0.000
##    .secur_6           0.000                                0.000    0.000
##    .secur_7           0.000                                0.000    0.000
##    .secur_8           0.000                                0.000    0.000
##    .five_1            0.000                                0.000    0.000
##    .five_2            0.000                                0.000    0.000
##    .five_3            0.000                                0.000    0.000
##    .five_4            0.000                                0.000    0.000
##    .five_5            0.000                                0.000    0.000
##    .five_6            0.000                                0.000    0.000
##    .five_7            0.000                                0.000    0.000
##    .five_8            0.000                                0.000    0.000
##    .satisf            0.000                                0.000    0.000
##    .closen            0.000                                0.000    0.000
##    .common            0.000                                0.000    0.000
##    .secur             0.000                                0.000    0.000
##    .five              0.000                                0.000    0.000
##    .value             0.000                                0.000    0.000
##     friendship        0.000                                0.000    0.000
##
## Thresholds:
##                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1|t1    -1.444    0.082  -17.695    0.000   -1.444   -1.444
##     satsisf_1|t2     0.896    0.064   14.083    0.000    0.896    0.896
##     satsisf_2|t1    -0.840    0.062  -13.450    0.000   -0.840   -0.840
##     satsisf_2|t2     0.723    0.060   11.982    0.000    0.723    0.723
##     satsisf_3|t1    -0.761    0.061  -12.477    0.000   -0.761   -0.761
```

```
##     satsisf_3|t2      0.833    0.062   13.370    0.000    0.833    0.833
##     satsisf_4|t1     -1.101    0.069  -16.004    0.000   -1.101   -1.101
##     satsisf_4|t2      0.717    0.060   11.899    0.000    0.717    0.717
##     satsisf_5|t1     -1.687    0.095  -17.736    0.000   -1.687   -1.687
##     satsisf_5|t2      0.730    0.060   12.065    0.000    0.730    0.730
##     satsisf_6|t1     -1.297    0.075  -17.210    0.000   -1.297   -1.297
##     satsisf_6|t2      0.854    0.063   13.610    0.000    0.854    0.854
##     satsisf_7|t1     -0.985    0.066  -15.002    0.000   -0.985   -0.985
##     satsisf_7|t2      0.861    0.063   13.689    0.000    0.861    0.861
##     satsisf_8|t1     -1.873    0.109  -17.183    0.000   -1.873   -1.873
##     satsisf_8|t2      1.009    0.066   15.224    0.000    1.009    1.009
##     satsisf_9|t1     -0.940    0.065  -14.548    0.000   -0.940   -0.940
##     satsisf_9|t2      0.639    0.059   10.812    0.000    0.639    0.639
##     satsisf_10|t1    -0.768    0.061  -12.559    0.000   -0.768   -0.768
##     satsisf_10|t2     0.978    0.065   14.927    0.000    0.978    0.978
##     satsisf_11|t1    -1.083    0.068  -15.867    0.000   -1.083   -1.083
##     satsisf_11|t2     1.404    0.080   17.599    0.000    1.404    1.404
##     satsisf_12|t1    -1.233    0.073  -16.887    0.000   -1.233   -1.233
##     satsisf_12|t2     0.794    0.062   12.885    0.000    0.794    0.794
##     satsisf_13|t1    -1.066    0.068  -15.727    0.000   -1.066   -1.066
##     satsisf_13|t2     0.466    0.057    8.169    0.000    0.466    0.466
##     closen_1|t1      -1.164    0.071  -16.465    0.000   -1.164   -1.164
##     closen_1|t2       0.159    0.055    2.878    0.004    0.159    0.159
##     closen_2|t1      -1.562    0.088  -17.830    0.000   -1.562   -1.562
##     closen_2|t2       0.633    0.059   10.728    0.000    0.633    0.633
##     closen_3|t1      -0.962    0.065  -14.776    0.000   -0.962   -0.962
##     closen_3|t2       0.627    0.059   10.643    0.000    0.627    0.627
##     closen_4|t1      -1.223    0.073  -16.830    0.000   -1.223   -1.223
##     closen_4|t2       0.668    0.060   11.232    0.000    0.668    0.668
##     closen_5|t1      -1.275    0.075  -17.107    0.000   -1.275   -1.275
##     closen_5|t2       0.925    0.064   14.394    0.000    0.925    0.925
##     closen_6|t1      -1.750    0.099  -17.602    0.000   -1.750   -1.750
##     closen_6|t2       0.723    0.060   11.982    0.000    0.723    0.723
##     closen_7|t1      -1.146    0.070  -16.336    0.000   -1.146   -1.146
##     closen_7|t2       0.559    0.058    9.625    0.000    0.559    0.559
##     closen_8|t1      -1.457    0.082  -17.722    0.000   -1.457   -1.457
##     closen_8|t2       1.367    0.078   17.485    0.000    1.367    1.367
##     common_1|t1      -1.331    0.077  -17.354    0.000   -1.331   -1.331
##     common_1|t2       0.346    0.056    6.182    0.000    0.346    0.346
##     common_2|t1      -1.796    0.103  -17.469    0.000   -1.796   -1.796
##     common_2|t2       0.515    0.058    8.942    0.000    0.515    0.515
##     common_3|t1      -0.768    0.061  -12.559    0.000   -0.768   -0.768
##     common_3|t2       0.780    0.061   12.722    0.000    0.780    0.780
##     common_4|t1      -1.417    0.080  -17.633    0.000   -1.417   -1.417
##     common_4|t2       0.110    0.055    2.006    0.045    0.110    0.110
##     common_5|t1      -1.297    0.075  -17.210    0.000   -1.297   -1.297
##     common_5|t2       1.444    0.082   17.695    0.000    1.444    1.444
##     common_6|t1      -1.404    0.080  -17.599    0.000   -1.404   -1.404
##     common_6|t2       0.774    0.061   12.641    0.000    0.774    0.774
##     common_7|t1      -1.391    0.079  -17.563    0.000   -1.391   -1.391
##     common_7|t2       0.674    0.060   11.316    0.000    0.674    0.674
##     common_8|t1      -1.308    0.076  -17.259    0.000   -1.308   -1.308
##     common_8|t2       0.477    0.057    8.341    0.000    0.477    0.477
##     secur_1|t1       -0.847    0.063  -13.530    0.000   -0.847   -0.847
```

```
##     secur_1|t2        0.159    0.055    2.878    0.004    0.159    0.159
##     secur_2|t1       -1.033    0.067  -15.442    0.000   -1.033   -1.033
##     secur_2|t2        0.587    0.058   10.050    0.000    0.587    0.587
##     secur_3|t1       -0.840    0.062  -13.450    0.000   -0.840   -0.840
##     secur_3|t2        0.019    0.055    0.349    0.727    0.019    0.019
##     secur_4|t1       -0.681    0.060  -11.399    0.000   -0.681   -0.681
##     secur_4|t2        0.207    0.055    3.749    0.000    0.207    0.207
##     secur_5|t1       -1.066    0.068  -15.727    0.000   -1.066   -1.066
##     secur_5|t2        0.077    0.055    1.396    0.163    0.077    0.077
##     secur_6|t1       -0.520    0.058   -9.027    0.000   -0.520   -0.520
##     secur_6|t2        0.434    0.057    7.652    0.000    0.434    0.434
##     secur_7|t1       -0.657    0.059  -11.064    0.000   -0.657   -0.657
##     secur_7|t2        0.341    0.056    6.096    0.000    0.341    0.341
##     secur_8|t1       -0.875    0.063  -13.848    0.000   -0.875   -0.875
##     secur_8|t2        0.149    0.055    2.704    0.007    0.149    0.149
##     five_1|t1        -0.962    0.065  -14.776    0.000   -0.962   -0.962
##     five_1|t2         1.223    0.073   16.830    0.000    1.223    1.223
##     five_2|t1        -1.500    0.084  -17.787    0.000   -1.500   -1.500
##     five_2|t2         0.326    0.056    5.836    0.000    0.326    0.326
##     five_3|t1        -0.932    0.064  -14.471    0.000   -0.932   -0.932
##     five_3|t2         0.487    0.057    8.513    0.000    0.487    0.487
##     five_4|t1        -1.319    0.076  -17.308    0.000   -1.319   -1.319
##     five_4|t2         0.466    0.057    8.169    0.000    0.466    0.466
##     five_5|t1        -1.297    0.075  -17.210    0.000   -1.297   -1.297
##     five_5|t2         0.393    0.056    6.962    0.000    0.393    0.393
##     five_6|t1        -1.223    0.073  -16.830    0.000   -1.223   -1.223
##     five_6|t2         0.393    0.056    6.962    0.000    0.393    0.393
##     five_7|t1        -1.820    0.105  -17.386    0.000   -1.820   -1.820
##     five_7|t2         0.445    0.057    7.825    0.000    0.445    0.445
##     five_8|t1        -0.868    0.063  -13.769    0.000   -0.868   -0.868
##     five_8|t2         0.687    0.060   11.483    0.000    0.687    0.687
##
## Variances:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.338                               0.338    0.338
##    .satsisf_2         0.350                               0.350    0.350
##    .satsisf_3         0.350                               0.350    0.350
##    .satsisf_4         0.326                               0.326    0.326
##    .satsisf_5         0.397                               0.397    0.397
##    .satsisf_6         0.339                               0.339    0.339
##    .satsisf_7         0.275                               0.275    0.275
##    .satsisf_8         0.284                               0.284    0.284
##    .satsisf_9         0.320                               0.320    0.320
##    .satsisf_10        0.341                               0.341    0.341
##    .satsisf_11        0.407                               0.407    0.407
##    .satsisf_12        0.260                               0.260    0.260
##    .satsisf_13        0.308                               0.308    0.308
##    .closen_1          0.263                               0.263    0.263
##    .closen_2          0.231                               0.231    0.231
##    .closen_3          0.313                               0.313    0.313
##    .closen_4          0.304                               0.304    0.304
##    .closen_5          0.292                               0.292    0.292
##    .closen_6          0.327                               0.327    0.327
##    .closen_7          0.240                               0.240    0.240
```

```
##    .closen_8          0.304                                  0.304    0.304
##    .common_1          0.265                                  0.265    0.265
##    .common_2          0.218                                  0.218    0.218
##    .common_3          0.265                                  0.265    0.265
##    .common_4          0.280                                  0.280    0.280
##    .common_5          0.295                                  0.295    0.295
##    .common_6          0.342                                  0.342    0.342
##    .common_7          0.354                                  0.354    0.354
##    .common_8          0.296                                  0.296    0.296
##    .secur_1           0.177                                  0.177    0.177
##    .secur_2           0.241                                  0.241    0.241
##    .secur_3           0.196                                  0.196    0.196
##    .secur_4           0.162                                  0.162    0.162
##    .secur_5           0.184                                  0.184    0.184
##    .secur_6           0.196                                  0.196    0.196
##    .secur_7           0.225                                  0.225    0.225
##    .secur_8           0.189                                  0.189    0.189
##    .five_1            0.255                                  0.255    0.255
##    .five_2            0.261                                  0.261    0.261
##    .five_3            0.274                                  0.274    0.274
##    .five_4            0.314                                  0.314    0.314
##    .five_5            0.252                                  0.252    0.252
##    .five_6            0.281                                  0.281    0.281
##    .five_7            0.298                                  0.298    0.298
##    .five_8            0.272                                  0.272    0.272
##    .satisf            0.403    0.041    9.889    0.000    0.609    0.609
##    .closen            0.242    0.024   10.090    0.000    0.328    0.328
##    .common            0.272    0.027   10.049    0.000    0.370    0.370
##    .secur             0.155    0.026    5.874    0.000    0.188    0.188
##    .five              0.277    0.028    9.729    0.000    0.371    0.371
##    .value             0.236    0.034    7.027    0.000    0.478    0.478
##     friendship        0.258    0.026    9.784    0.000    1.000    1.000
##
## Scales y*:
##                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1        1.000                                1.000    1.000
##     satsisf_2        1.000                                1.000    1.000
##     satsisf_3        1.000                                1.000    1.000
##     satsisf_4        1.000                                1.000    1.000
##     satsisf_5        1.000                                1.000    1.000
##     satsisf_6        1.000                                1.000    1.000
##     satsisf_7        1.000                                1.000    1.000
##     satsisf_8        1.000                                1.000    1.000
##     satsisf_9        1.000                                1.000    1.000
##     satsisf_10       1.000                                1.000    1.000
##     satsisf_11       1.000                                1.000    1.000
##     satsisf_12       1.000                                1.000    1.000
##     satsisf_13       1.000                                1.000    1.000
##     closen_1         1.000                                1.000    1.000
##     closen_2         1.000                                1.000    1.000
##     closen_3         1.000                                1.000    1.000
##     closen_4         1.000                                1.000    1.000
##     closen_5         1.000                                1.000    1.000
##     closen_6         1.000                                1.000    1.000
```

```
##     closen_7          1.000                                1.000    1.000
##     closen_8          1.000                                1.000    1.000
##     common_1          1.000                                1.000    1.000
##     common_2          1.000                                1.000    1.000
##     common_3          1.000                                1.000    1.000
##     common_4          1.000                                1.000    1.000
##     common_5          1.000                                1.000    1.000
##     common_6          1.000                                1.000    1.000
##     common_7          1.000                                1.000    1.000
##     common_8          1.000                                1.000    1.000
##     secur_1           1.000                                1.000    1.000
##     secur_2           1.000                                1.000    1.000
##     secur_3           1.000                                1.000    1.000
##     secur_4           1.000                                1.000    1.000
##     secur_5           1.000                                1.000    1.000
##     secur_6           1.000                                1.000    1.000
##     secur_7           1.000                                1.000    1.000
##     secur_8           1.000                                1.000    1.000
##     five_1            1.000                                1.000    1.000
##     five_2            1.000                                1.000    1.000
##     five_3            1.000                                1.000    1.000
##     five_4            1.000                                1.000    1.000
##     five_5            1.000                                1.000    1.000
##     five_6            1.000                                1.000    1.000
##     five_7            1.000                                1.000    1.000
##     five_8            1.000                                1.000    1.000
```

```
## Compare fit
anova(fit.m, fit.c)
```

```
##
## Scaled Chi-Squared Difference Test (method = "satorra.2000")
##
## lavaan NOTE:
##     The "Chisq" column contains standard test statistics, not the
##     robust test that should be reported per model. A robust difference
##     test is a function of two standard (not robust) statistics.
##
##        Df AIC BIC  Chisq Chisq diff Df diff Pr(>Chisq)
## fit.c 1880         1231.8
## fit.m 1923         1396.8     37.411      43     0.7117
```

```
## Threshold invariance model (same loadings, same thresholds)
fit.t <- cfa(mod, data = item_dat, ordered = names(item_dat), group = "autism",
             group.equal = c("loadings", "thresholds"))
```

```
## Warning in lav_model_vcov(lavmodel = lavmodel, lavsamplestats = lavsamplestats, : lavaan WARNING:
##     The variance-covariance matrix of the estimated parameters (vcov)
##     does not appear to be positive definite! The smallest eigenvalue
##     (= 1.835518e-14) is close to zero. This may be a symptom that the
##     model is not identified.
```

We get a lot of warnings, which may indicate something wrong with the model. We print the model anyway:

```
summary(fit.t, standardized=TRUE, fit.measures=TRUE)
```

```
## lavaan 0.6.15 ended normally after 126 iterations
##
##   Estimator                                         DWLS
##   Optimization method                              NLMINB
##   Number of model parameters                          332
##   Number of equality constraints                      133
##
##   Number of observations per group:
##     1                                                 226
##     0                                                 524
##
## Model Test User Model:
##                                                   Standard      Scaled
##   Test Statistic                                1294.072    1978.569
##   Degrees of freedom                                1961        1961
##   P-value (Chi-square)                             1.000       0.386
##   Scaling correction factor                                    1.751
##   Shift parameter                                           1239.338
##     simple second-order correction
##   Test statistic for each group:
##     1                                             683.929     764.144
##     0                                             610.143    1214.425
##
## Model Test Baseline Model:
##
##   Test statistic                              201318.242   43188.153
##   Degrees of freedom                            1980        1980
##   P-value                                          0.000       0.000
##   Scaling correction factor                                    4.837
##
## User Model versus Baseline Model:
##
##   Comparative Fit Index (CFI)                      1.000       1.000
##   Tucker-Lewis Index (TLI)                         1.003       1.000
##
##   Robust Comparative Fit Index (CFI)                             NA
##   Robust Tucker-Lewis Index (TLI)                                NA
##
## Root Mean Square Error of Approximation:
##
##   RMSEA                                            0.000       0.005
##   90 Percent confidence interval - lower           0.000       0.000
##   90 Percent confidence interval - upper           0.000       0.013
##   P-value H_0: RMSEA <= 0.050                      1.000       1.000
##   P-value H_0: RMSEA >= 0.080                      0.000       0.000
##
##   Robust RMSEA                                                   NA
##   90 Percent confidence interval - lower                         NA
##   90 Percent confidence interval - upper                         NA
##   P-value H_0: Robust RMSEA <= 0.050                             NA
##   P-value H_0: Robust RMSEA >= 0.080                             NA
```

```
##
## Standardized Root Mean Square Residual:
##
##   SRMR                                           0.045       0.045
##
## Parameter Estimates:
##
##   Standard errors                             Robust.sem
##   Information                                   Expected
##   Information saturated (h1) model          Unstructured
##
##
## Group 1 [1]:
##
## Latent Variables:
##                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##   satisf =~
##     stssf_1           1.000                               0.831    0.831
##     stssf_2 (.p2.)    0.947    0.064   14.773    0.000    0.787    0.787
##     stssf_3 (.p3.)    1.022    0.066   15.546    0.000    0.849    0.849
##     stssf_4 (.p4.)    0.950    0.064   14.870    0.000    0.789    0.789
##     stssf_5 (.p5.)    0.917    0.068   13.551    0.000    0.761    0.761
##     stssf_6 (.p6.)    0.920    0.068   13.443    0.000    0.764    0.764
##     stssf_7 (.p7.)    0.975    0.067   14.588    0.000    0.810    0.810
##     stssf_8 (.p8.)    0.980    0.069   14.130    0.000    0.814    0.814
##     stssf_9 (.p9.)    0.918    0.064   14.348    0.000    0.763    0.763
##     stss_10 (.10.)    0.993    0.069   14.359    0.000    0.825    0.825
##     stss_11 (.11.)    0.979    0.063   15.595    0.000    0.814    0.814
##     stss_12 (.12.)    1.014    0.066   15.467    0.000    0.842    0.842
##     stss_13 (.13.)    0.961    0.062   15.487    0.000    0.798    0.798
##   closen =~
##     closn_1           1.000                               0.846    0.846
##     closn_2 (.15.)    1.004    0.053   18.782    0.000    0.850    0.850
##     closn_3 (.16.)    1.023    0.051   19.908    0.000    0.865    0.865
##     closn_4 (.17.)    0.991    0.060   16.645    0.000    0.839    0.839
##     closn_5 (.18.)    1.018    0.055   18.454    0.000    0.861    0.861
##     closn_6 (.19.)    0.991    0.065   15.232    0.000    0.839    0.839
##     closn_7 (.20.)    0.924    0.062   15.013    0.000    0.782    0.782
##     closn_8 (.21.)    0.946    0.068   14.011    0.000    0.801    0.801
##   common =~
##     commn_1           1.000                               0.849    0.849
##     commn_2 (.23.)    1.032    0.059   17.532    0.000    0.876    0.876
##     commn_3 (.24.)    1.021    0.055   18.544    0.000    0.867    0.867
##     commn_4 (.25.)    0.989    0.056   17.610    0.000    0.840    0.840
##     commn_5 (.26.)    1.035    0.070   14.688    0.000    0.880    0.880
##     commn_6 (.27.)    0.993    0.050   19.921    0.000    0.844    0.844
##     commn_7 (.28.)    0.962    0.059   16.401    0.000    0.817    0.817
##     commn_8 (.29.)    0.976    0.050   19.568    0.000    0.829    0.829
##   secur =~
##     secur_1           1.000                               0.901    0.901
##     secur_2 (.31.)    1.000    0.033   30.658    0.000    0.901    0.901
##     secur_3 (.32.)    0.999    0.033   30.452    0.000    0.900    0.900
##     secur_4 (.33.)    1.049    0.033   31.821    0.000    0.945    0.945
##     secur_5 (.34.)    1.019    0.030   34.493    0.000    0.918    0.918
```

```
##     secur_6 (.35.)    1.023    0.026   39.113    0.000    0.921    0.921
##     secur_7 (.36.)    1.014    0.029   34.784    0.000    0.914    0.914
##     secur_8 (.37.)    1.010    0.031   32.271    0.000    0.910    0.910
##   five =~
##     five_1            1.000                               0.886    0.886
##     five_2  (.39.)    0.991    0.048   20.721    0.000    0.878    0.878
##     five_3  (.40.)    0.959    0.047   20.206    0.000    0.850    0.850
##     five_4  (.41.)    0.982    0.049   20.230    0.000    0.871    0.871
##     five_5  (.42.)    0.927    0.053   17.606    0.000    0.822    0.822
##     five_6  (.43.)    0.985    0.047   20.970    0.000    0.873    0.873
##     five_7  (.44.)    0.957    0.051   18.806    0.000    0.848    0.848
##     five_8  (.45.)    0.989    0.046   21.497    0.000    0.876    0.876
##   value =~
##     closen            1.000                               0.811    0.811
##     common  (.47.)    0.999    0.074   13.579    0.000    0.807    0.807
##     secur   (.48.)    1.147    0.081   14.237    0.000    0.874    0.874
##     five    (.49.)    1.012    0.074   13.606    0.000    0.783    0.783
##   friendship =~
##     satisf  (lmbd)    1.000                               0.564    0.564
##     value   (lmbd)    1.000                               0.683    0.683
##
## Intercepts:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.000                               0.000    0.000
##    .satsisf_2         0.000                               0.000    0.000
##    .satsisf_3         0.000                               0.000    0.000
##    .satsisf_4         0.000                               0.000    0.000
##    .satsisf_5         0.000                               0.000    0.000
##    .satsisf_6         0.000                               0.000    0.000
##    .satsisf_7         0.000                               0.000    0.000
##    .satsisf_8         0.000                               0.000    0.000
##    .satsisf_9         0.000                               0.000    0.000
##    .satsisf_10        0.000                               0.000    0.000
##    .satsisf_11        0.000                               0.000    0.000
##    .satsisf_12        0.000                               0.000    0.000
##    .satsisf_13        0.000                               0.000    0.000
##    .closen_1          0.000                               0.000    0.000
##    .closen_2          0.000                               0.000    0.000
##    .closen_3          0.000                               0.000    0.000
##    .closen_4          0.000                               0.000    0.000
##    .closen_5          0.000                               0.000    0.000
##    .closen_6          0.000                               0.000    0.000
##    .closen_7          0.000                               0.000    0.000
##    .closen_8          0.000                               0.000    0.000
##    .common_1          0.000                               0.000    0.000
##    .common_2          0.000                               0.000    0.000
##    .common_3          0.000                               0.000    0.000
##    .common_4          0.000                               0.000    0.000
##    .common_5          0.000                               0.000    0.000
##    .common_6          0.000                               0.000    0.000
##    .common_7          0.000                               0.000    0.000
##    .common_8          0.000                               0.000    0.000
##    .secur_1           0.000                               0.000    0.000
##    .secur_2           0.000                               0.000    0.000
```

```
##    .secur_3           0.000                               0.000    0.000
##    .secur_4           0.000                               0.000    0.000
##    .secur_5           0.000                               0.000    0.000
##    .secur_6           0.000                               0.000    0.000
##    .secur_7           0.000                               0.000    0.000
##    .secur_8           0.000                               0.000    0.000
##    .five_1            0.000                               0.000    0.000
##    .five_2            0.000                               0.000    0.000
##    .five_3            0.000                               0.000    0.000
##    .five_4            0.000                               0.000    0.000
##    .five_5            0.000                               0.000    0.000
##    .five_6            0.000                               0.000    0.000
##    .five_7            0.000                               0.000    0.000
##    .five_8            0.000                               0.000    0.000
##    .satisf            0.000                               0.000    0.000
##    .closen            0.000                               0.000    0.000
##    .common            0.000                               0.000    0.000
##    .secur             0.000                               0.000    0.000
##    .five              0.000                               0.000    0.000
##    .value             0.000                               0.000    0.000
##     friendship        0.000                               0.000    0.000
##
## Thresholds:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     sts_1|1 (.52.)   -1.174    0.098  -11.935    0.000   -1.174   -1.174
##     sts_1|2 (.53.)    1.285    0.098   13.108    0.000    1.285    1.285
##     sts_2|1 (.54.)   -0.576    0.074   -7.765    0.000   -0.576   -0.576
##     sts_2|2 (.55.)    1.020    0.082   12.505    0.000    1.020    1.020
##     sts_3|1 (.56.)   -0.505    0.078   -6.491    0.000   -0.505   -0.505
##     sts_3|2 (.57.)    1.231    0.088   13.941    0.000    1.231    1.231
##     sts_4|1 (.58.)   -0.815    0.081  -10.023    0.000   -0.815   -0.815
##     sts_4|2 (.59.)    1.025    0.079   13.007    0.000    1.025    1.025
##     sts_5|1 (.60.)   -1.350    0.107  -12.647    0.000   -1.350   -1.350
##     sts_5|2 (.61.)    1.054    0.086   12.225    0.000    1.054    1.054
##     sts_6|1 (.62.)   -0.999    0.089  -11.184    0.000   -0.999   -0.999
##     sts_6|2 (.63.)    1.127    0.087   12.961    0.000    1.127    1.127
##     sts_7|1 (.64.)   -0.654    0.078   -8.440    0.000   -0.654   -0.654
##     sts_7|2 (.65.)    1.169    0.089   13.087    0.000    1.169    1.169
##     sts_8|1 (.66.)   -1.462    0.112  -13.040    0.000   -1.462   -1.462
##     sts_8|2 (.67.)    1.309    0.097   13.474    0.000    1.309    1.309
##     sts_9|1 (.68.)   -0.616    0.076   -8.142    0.000   -0.616   -0.616
##     sts_9|2 (.69.)    0.936    0.077   12.123    0.000    0.936    0.936
##     st_10|1 (.70.)   -0.494    0.075   -6.625    0.000   -0.494   -0.494
##     st_10|2 (.71.)    1.329    0.094   14.155    0.000    1.329    1.329
##     st_11|1 (.72.)   -0.851    0.084  -10.156    0.000   -0.851   -0.851
##     st_11|2 (.73.)    1.857    0.129   14.414    0.000    1.857    1.857
##     st_12|1 (.74.)   -0.919    0.088  -10.458    0.000   -0.919   -0.919
##     st_12|2 (.75.)    1.136    0.090   12.685    0.000    1.136    1.136
##     st_13|1 (.76.)   -0.717    0.078   -9.221    0.000   -0.717   -0.717
##     st_13|2 (.77.)    0.777    0.073   10.658    0.000    0.777    0.777
##     cls_1|1 (.78.)   -0.651    0.080   -8.174    0.000   -0.651   -0.651
##     cls_1|2 (.79.)    0.672    0.076    8.851    0.000    0.672    0.672
##     cls_2|1 (.80.)   -0.879    0.087  -10.087    0.000   -0.879   -0.879
##     cls_2|2 (.81.)    1.133    0.089   12.698    0.000    1.133    1.133
```

```
##     cls_3|1 (.82.)   -0.460    0.077   -5.992    0.000   -0.460   -0.460
##     cls_3|2 (.83.)    1.168    0.092   12.650    0.000    1.168    1.168
##     cls_4|1 (.84.)   -0.713    0.084   -8.462    0.000   -0.713   -0.713
##     cls_4|2 (.85.)    1.192    0.095   12.488    0.000    1.192    1.192
##     cls_5|1 (.86.)   -0.732    0.084   -8.734    0.000   -0.732   -0.732
##     cls_5|2 (.87.)    1.496    0.113   13.262    0.000    1.496    1.496
##     cls_6|1 (.88.)   -1.342    0.115  -11.682    0.000   -1.342   -1.342
##     cls_6|2 (.89.)    1.243    0.096   12.938    0.000    1.243    1.243
##     cls_7|1 (.90.)   -0.551    0.074   -7.476    0.000   -0.551   -0.551
##     cls_7|2 (.91.)    0.986    0.089   11.116    0.000    0.986    0.986
##     cls_8|1 (.92.)   -0.896    0.089  -10.112    0.000   -0.896   -0.896
##     cls_8|2 (.93.)    1.764    0.137   12.889    0.000    1.764    1.764
##     cmm_1|1 (.94.)   -0.823    0.086   -9.602    0.000   -0.823   -0.823
##     cmm_1|2 (.95.)    0.866    0.080   10.778    0.000    0.866    0.866
##     cmm_2|1 (.96.)   -1.290    0.106  -12.144    0.000   -1.290   -1.290
##     cmm_2|2 (.97.)    1.078    0.092   11.750    0.000    1.078    1.078
##     cmm_3|1 (.98.)   -0.303    0.074   -4.095    0.000   -0.303   -0.303
##     cmm_3|2 (.99.)    1.354    0.104   13.011    0.000    1.354    1.354
##     cmm_4|1 (.100)   -1.008    0.097  -10.431    0.000   -1.008   -1.008
##     cmm_4|2 (.101)    0.578    0.074    7.832    0.000    0.578    0.578
##     cmm_5|1 (.102)   -0.907    0.091   -9.979    0.000   -0.907   -0.907
##     cmm_5|2 (.103)    2.126    0.173   12.323    0.000    2.126    2.126
##     cmm_6|1 (.104)   -1.010    0.094  -10.795    0.000   -1.010   -1.010
##     cmm_6|2 (.105)    1.341    0.100   13.385    0.000    1.341    1.341
##     cmm_7|1 (.106)   -0.981    0.092  -10.681    0.000   -0.981   -0.981
##     cmm_7|2 (.107)    1.220    0.100   12.148    0.000    1.220    1.220
##     cmm_8|1 (.108)   -0.814    0.084   -9.668    0.000   -0.814   -0.814
##     cmm_8|2 (.109)    0.927    0.079   11.784    0.000    0.927    0.927
##     scr_1|1 (.110)   -0.342    0.077   -4.446    0.000   -0.342   -0.342
##     scr_1|2 (.111)    0.710    0.077    9.263    0.000    0.710    0.710
##     scr_2|1 (.112)   -0.457    0.079   -5.750    0.000   -0.457   -0.457
##     scr_2|2 (.113)    1.167    0.094   12.474    0.000    1.167    1.167
##     scr_3|1 (.114)   -0.242    0.075   -3.251    0.001   -0.242   -0.242
##     scr_3|2 (.115)    0.558    0.073    7.611    0.000    0.558    0.558
##     scr_4|1 (.116)   -0.119    0.075   -1.588    0.112   -0.119   -0.119
##     scr_4|2 (.117)    0.785    0.080    9.782    0.000    0.785    0.785
##     scr_5|1 (.118)   -0.468    0.081   -5.787    0.000   -0.468   -0.468
##     scr_5|2 (.119)    0.651    0.076    8.601    0.000    0.651    0.651
##     scr_6|1 (.120)   -0.002    0.073   -0.021    0.983   -0.002   -0.002
##     scr_6|2 (.121)    1.003    0.087   11.517    0.000    1.003    1.003
##     scr_7|1 (.122)   -0.165    0.075   -2.192    0.028   -0.165   -0.165
##     scr_7|2 (.123)    0.877    0.082   10.662    0.000    0.877    0.877
##     scr_8|1 (.124)   -0.293    0.076   -3.859    0.000   -0.293   -0.293
##     scr_8|2 (.125)    0.706    0.078    9.111    0.000    0.706    0.706
##     fv_1|t1 (.126)   -0.415    0.077   -5.409    0.000   -0.415   -0.415
##     fv_1|t2 (.127)    1.811    0.128   14.142    0.000    1.811    1.811
##     fv_2|t1 (.128)   -0.990    0.095  -10.468    0.000   -0.990   -0.990
##     fv_2|t2 (.129)    0.870    0.081   10.779    0.000    0.870    0.870
##     fv_3|t1 (.130)   -0.407    0.075   -5.448    0.000   -0.407   -0.407
##     fv_3|t2 (.131)    0.986    0.085   11.596    0.000    0.986    0.986
##     fv_4|t1 (.132)   -0.797    0.086   -9.225    0.000   -0.797   -0.797
##     fv_4|t2 (.133)    0.998    0.085   11.749    0.000    0.998    0.998
##     fv_5|t1 (.134)   -0.707    0.080   -8.805    0.000   -0.707   -0.707
##     fv_5|t2 (.135)    0.892    0.083   10.750    0.000    0.892    0.892
```

```
##     fv_6|t1 (.136)   -0.669    0.083   -8.047    0.000   -0.669   -0.669
##     fv_6|t2 (.137)    0.961    0.086   11.178    0.000    0.961    0.961
##     fv_7|t1 (.138)   -1.163    0.097  -11.953    0.000   -1.163   -1.163
##     fv_7|t2 (.139)    0.976    0.086   11.397    0.000    0.976    0.976
##     fv_8|t1 (.140)   -0.375    0.075   -5.028    0.000   -0.375   -0.375
##     fv_8|t2 (.141)    1.218    0.092   13.269    0.000    1.218    1.218
##
## Variances:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.310                               0.310    0.310
##    .satsisf_2         0.381                               0.381    0.381
##    .satsisf_3         0.279                               0.279    0.279
##    .satsisf_4         0.378                               0.378    0.378
##    .satsisf_5         0.420                               0.420    0.420
##    .satsisf_6         0.416                               0.416    0.416
##    .satsisf_7         0.344                               0.344    0.344
##    .satsisf_8         0.337                               0.337    0.337
##    .satsisf_9         0.418                               0.418    0.418
##    .satsisf_10        0.319                               0.319    0.319
##    .satsisf_11        0.338                               0.338    0.338
##    .satsisf_12        0.290                               0.290    0.290
##    .satsisf_13        0.363                               0.363    0.363
##    .closen_1          0.284                               0.284    0.284
##    .closen_2          0.278                               0.278    0.278
##    .closen_3          0.251                               0.251    0.251
##    .closen_4          0.296                               0.296    0.296
##    .closen_5          0.258                               0.258    0.258
##    .closen_6          0.297                               0.297    0.297
##    .closen_7          0.389                               0.389    0.389
##    .closen_8          0.359                               0.359    0.359
##    .common_1          0.279                               0.279    0.279
##    .common_2          0.232                               0.232    0.232
##    .common_3          0.248                               0.248    0.248
##    .common_4          0.295                               0.295    0.295
##    .common_5          0.226                               0.226    0.226
##    .common_6          0.288                               0.288    0.288
##    .common_7          0.332                               0.332    0.332
##    .common_8          0.313                               0.313    0.313
##    .secur_1           0.188                               0.188    0.188
##    .secur_2           0.188                               0.188    0.188
##    .secur_3           0.190                               0.190    0.190
##    .secur_4           0.108                               0.108    0.108
##    .secur_5           0.158                               0.158    0.158
##    .secur_6           0.151                               0.151    0.151
##    .secur_7           0.165                               0.165    0.165
##    .secur_8           0.172                               0.172    0.172
##    .five_1            0.214                               0.214    0.214
##    .five_2            0.229                               0.229    0.229
##    .five_3            0.277                               0.277    0.277
##    .five_4            0.242                               0.242    0.242
##    .five_5            0.325                               0.325    0.325
##    .five_6            0.238                               0.238    0.238
##    .five_7            0.281                               0.281    0.281
##    .five_8            0.232                               0.232    0.232
```

```
##    .satisf           0.471    0.072    6.541    0.000    0.682    0.682
##    .closen           0.245    0.039    6.303    0.000    0.343    0.343
##    .common           0.252    0.042    6.024    0.000    0.349    0.349
##    .secur            0.192    0.040    4.788    0.000    0.237    0.237
##    .five             0.304    0.047    6.423    0.000    0.387    0.387
##    .value            0.251    0.053    4.700    0.000    0.534    0.534
##     friendship       0.219    0.045    4.886    0.000    1.000    1.000
##
## Scales y*:
##                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1        1.000                               1.000    1.000
##     satsisf_2        1.000                               1.000    1.000
##     satsisf_3        1.000                               1.000    1.000
##     satsisf_4        1.000                               1.000    1.000
##     satsisf_5        1.000                               1.000    1.000
##     satsisf_6        1.000                               1.000    1.000
##     satsisf_7        1.000                               1.000    1.000
##     satsisf_8        1.000                               1.000    1.000
##     satsisf_9        1.000                               1.000    1.000
##     satsisf_10       1.000                               1.000    1.000
##     satsisf_11       1.000                               1.000    1.000
##     satsisf_12       1.000                               1.000    1.000
##     satsisf_13       1.000                               1.000    1.000
##     closen_1         1.000                               1.000    1.000
##     closen_2         1.000                               1.000    1.000
##     closen_3         1.000                               1.000    1.000
##     closen_4         1.000                               1.000    1.000
##     closen_5         1.000                               1.000    1.000
##     closen_6         1.000                               1.000    1.000
##     closen_7         1.000                               1.000    1.000
##     closen_8         1.000                               1.000    1.000
##     common_1         1.000                               1.000    1.000
##     common_2         1.000                               1.000    1.000
##     common_3         1.000                               1.000    1.000
##     common_4         1.000                               1.000    1.000
##     common_5         1.000                               1.000    1.000
##     common_6         1.000                               1.000    1.000
##     common_7         1.000                               1.000    1.000
##     common_8         1.000                               1.000    1.000
##     secur_1          1.000                               1.000    1.000
##     secur_2          1.000                               1.000    1.000
##     secur_3          1.000                               1.000    1.000
##     secur_4          1.000                               1.000    1.000
##     secur_5          1.000                               1.000    1.000
##     secur_6          1.000                               1.000    1.000
##     secur_7          1.000                               1.000    1.000
##     secur_8          1.000                               1.000    1.000
##     five_1           1.000                               1.000    1.000
##     five_2           1.000                               1.000    1.000
##     five_3           1.000                               1.000    1.000
##     five_4           1.000                               1.000    1.000
##     five_5           1.000                               1.000    1.000
##     five_6           1.000                               1.000    1.000
##     five_7           1.000                               1.000    1.000
```

```
##     five_8            1.000                                1.000    1.000
##
##
## Group 2 [0]:
##
## Latent Variables:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##   satisf =~
##     stssf_1           1.000                               0.857    0.803
##     stssf_2 (.p2.)    0.947    0.064   14.773    0.000    0.811    0.806
##     stssf_3 (.p3.)    1.022    0.066   15.546    0.000    0.876    0.785
##     stssf_4 (.p4.)    0.950    0.064   14.870    0.000    0.814    0.825
##     stssf_5 (.p5.)    0.917    0.068   13.551    0.000    0.785    0.778
##     stssf_6 (.p6.)    0.920    0.068   13.443    0.000    0.788    0.822
##     stssf_7 (.p7.)    0.975    0.067   14.588    0.000    0.835    0.860
##     stssf_8 (.p8.)    0.980    0.069   14.130    0.000    0.839    0.851
##     stssf_9 (.p9.)    0.918    0.064   14.348    0.000    0.787    0.840
##     stss_10 (.10.)    0.993    0.069   14.359    0.000    0.851    0.801
##     stss_11 (.11.)    0.979    0.063   15.595    0.000    0.839    0.748
##     stss_12 (.12.)    1.014    0.066   15.467    0.000    0.869    0.862
##     stss_13 (.13.)    0.961    0.062   15.487    0.000    0.823    0.838
##   closen =~
##     closn_1           1.000                               0.834    0.859
##     closn_2 (.15.)    1.004    0.053   18.782    0.000    0.837    0.885
##     closn_3 (.16.)    1.023    0.051   19.908    0.000    0.853    0.808
##     closn_4 (.17.)    0.991    0.060   16.645    0.000    0.827    0.827
##     closn_5 (.18.)    1.018    0.055   18.454    0.000    0.849    0.828
##     closn_6 (.19.)    0.991    0.065   15.232    0.000    0.826    0.806
##     closn_7 (.20.)    0.924    0.062   15.013    0.000    0.770    0.895
##     closn_8 (.21.)    0.946    0.068   14.011    0.000    0.789    0.846
##   common =~
##     commn_1           1.000                               0.879    0.863
##     commn_2 (.23.)    1.032    0.059   17.532    0.000    0.906    0.891
##     commn_3 (.24.)    1.021    0.055   18.544    0.000    0.897    0.857
##     commn_4 (.25.)    0.989    0.056   17.610    0.000    0.869    0.853
##     commn_5 (.26.)    1.035    0.070   14.688    0.000    0.910    0.826
##     commn_6 (.27.)    0.993    0.050   19.921    0.000    0.873    0.799
##     commn_7 (.28.)    0.962    0.059   16.401    0.000    0.845    0.801
##     commn_8 (.29.)    0.976    0.050   19.568    0.000    0.857    0.845
##   secur =~
##     secur_1           1.000                               0.875    0.917
##     secur_2 (.31.)    1.000    0.033   30.658    0.000    0.876    0.866
##     secur_3 (.32.)    0.999    0.033   30.452    0.000    0.874    0.903
##     secur_4 (.33.)    1.049    0.033   31.821    0.000    0.918    0.909
##     secur_5 (.34.)    1.019    0.030   34.493    0.000    0.892    0.906
##     secur_6 (.35.)    1.023    0.026   39.113    0.000    0.895    0.892
##     secur_7 (.36.)    1.014    0.029   34.784    0.000    0.888    0.871
##     secur_8 (.37.)    1.010    0.031   32.271    0.000    0.884    0.904
##   five =~
##     five_1            1.000                               0.882    0.857
##     five_2  (.39.)    0.991    0.048   20.721    0.000    0.874    0.857
##     five_3  (.40.)    0.959    0.047   20.206    0.000    0.847    0.857
##     five_4  (.41.)    0.982    0.049   20.230    0.000    0.867    0.813
##     five_5  (.42.)    0.927    0.053   17.606    0.000    0.818    0.890
```

```
##     five_6  (.43.)    0.985    0.047   20.970    0.000    0.869    0.843
##     five_7  (.44.)    0.957    0.051   18.806    0.000    0.844    0.841
##     five_8  (.45.)    0.989    0.046   21.497    0.000    0.873    0.847
##   value =~
##     closen            1.000                               0.828    0.828
##     common  (.47.)    0.999    0.074   13.579    0.000    0.784    0.784
##     secur   (.48.)    1.147    0.081   14.237    0.000    0.904    0.904
##     five    (.49.)    1.012    0.074   13.606    0.000    0.791    0.791
##   friendship =~
##     satisf  (lmbd)    1.000                               0.604    0.604
##     value   (lmbd)    1.000                               0.750    0.750
##
## Intercepts:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##    .satsisf_1         0.000                               0.000    0.000
##    .satsisf_2         0.000                               0.000    0.000
##    .satsisf_3         0.000                               0.000    0.000
##    .satsisf_4         0.000                               0.000    0.000
##    .satsisf_5         0.000                               0.000    0.000
##    .satsisf_6         0.000                               0.000    0.000
##    .satsisf_7         0.000                               0.000    0.000
##    .satsisf_8         0.000                               0.000    0.000
##    .satsisf_9         0.000                               0.000    0.000
##    .satsisf_10        0.000                               0.000    0.000
##    .satsisf_11        0.000                               0.000    0.000
##    .satsisf_12        0.000                               0.000    0.000
##    .satsisf_13        0.000                               0.000    0.000
##    .closen_1          0.000                               0.000    0.000
##    .closen_2          0.000                               0.000    0.000
##    .closen_3          0.000                               0.000    0.000
##    .closen_4          0.000                               0.000    0.000
##    .closen_5          0.000                               0.000    0.000
##    .closen_6          0.000                               0.000    0.000
##    .closen_7          0.000                               0.000    0.000
##    .closen_8          0.000                               0.000    0.000
##    .common_1          0.000                               0.000    0.000
##    .common_2          0.000                               0.000    0.000
##    .common_3          0.000                               0.000    0.000
##    .common_4          0.000                               0.000    0.000
##    .common_5          0.000                               0.000    0.000
##    .common_6          0.000                               0.000    0.000
##    .common_7          0.000                               0.000    0.000
##    .common_8          0.000                               0.000    0.000
##    .secur_1           0.000                               0.000    0.000
##    .secur_2           0.000                               0.000    0.000
##    .secur_3           0.000                               0.000    0.000
##    .secur_4           0.000                               0.000    0.000
##    .secur_5           0.000                               0.000    0.000
##    .secur_6           0.000                               0.000    0.000
##    .secur_7           0.000                               0.000    0.000
##    .secur_8           0.000                               0.000    0.000
##    .five_1            0.000                               0.000    0.000
##    .five_2            0.000                               0.000    0.000
##    .five_3            0.000                               0.000    0.000
```

```
##    .five_4            0.000                                0.000    0.000
##    .five_5            0.000                                0.000    0.000
##    .five_6            0.000                                0.000    0.000
##    .five_7            0.000                                0.000    0.000
##    .five_8            0.000                                0.000    0.000
##    .satisf            0.069    0.045    1.538    0.124    0.080    0.080
##    .closen            0.077    0.043    1.762    0.078    0.092    0.092
##    .common            0.061    0.044    1.381    0.167    0.070    0.070
##    .secur             0.036    0.039    0.913    0.361    0.041    0.041
##    .five              0.103    0.045    2.273    0.023    0.117    0.117
##    .value             0.187    0.037    5.124    0.000    0.272    0.272
##     friendship        0.256    0.036    7.087    0.000    0.495    0.495
##
## Thresholds:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     sts_1|1 (.52.)   -1.174    0.098  -11.935    0.000   -1.174   -1.100
##     sts_1|2 (.53.)    1.285    0.098   13.108    0.000    1.285    1.204
##     sts_2|1 (.54.)   -0.576    0.074   -7.765    0.000   -0.576   -0.572
##     sts_2|2 (.55.)    1.020    0.082   12.505    0.000    1.020    1.014
##     sts_3|1 (.56.)   -0.505    0.078   -6.491    0.000   -0.505   -0.452
##     sts_3|2 (.57.)    1.231    0.088   13.941    0.000    1.231    1.103
##     sts_4|1 (.58.)   -0.815    0.081  -10.023    0.000   -0.815   -0.827
##     sts_4|2 (.59.)    1.025    0.079   13.007    0.000    1.025    1.039
##     sts_5|1 (.60.)   -1.350    0.107  -12.647    0.000   -1.350   -1.337
##     sts_5|2 (.61.)    1.054    0.086   12.225    0.000    1.054    1.044
##     sts_6|1 (.62.)   -0.999    0.089  -11.184    0.000   -0.999   -1.042
##     sts_6|2 (.63.)    1.127    0.087   12.961    0.000    1.127    1.175
##     sts_7|1 (.64.)   -0.654    0.078   -8.440    0.000   -0.654   -0.673
##     sts_7|2 (.65.)    1.169    0.089   13.087    0.000    1.169    1.204
##     sts_8|1 (.66.)   -1.462    0.112  -13.040    0.000   -1.462   -1.482
##     sts_8|2 (.67.)    1.309    0.097   13.474    0.000    1.309    1.328
##     sts_9|1 (.68.)   -0.616    0.076   -8.142    0.000   -0.616   -0.658
##     sts_9|2 (.69.)    0.936    0.077   12.123    0.000    0.936    0.999
##     st_10|1 (.70.)   -0.494    0.075   -6.625    0.000   -0.494   -0.465
##     st_10|2 (.71.)    1.329    0.094   14.155    0.000    1.329    1.252
##     st_11|1 (.72.)   -0.851    0.084  -10.156    0.000   -0.851   -0.759
##     st_11|2 (.73.)    1.857    0.129   14.414    0.000    1.857    1.655
##     st_12|1 (.74.)   -0.919    0.088  -10.458    0.000   -0.919   -0.911
##     st_12|2 (.75.)    1.136    0.090   12.685    0.000    1.136    1.127
##     st_13|1 (.76.)   -0.717    0.078   -9.221    0.000   -0.717   -0.729
##     st_13|2 (.77.)    0.777    0.073   10.658    0.000    0.777    0.791
##     cls_1|1 (.78.)   -0.651    0.080   -8.174    0.000   -0.651   -0.670
##     cls_1|2 (.79.)    0.672    0.076    8.851    0.000    0.672    0.693
##     cls_2|1 (.80.)   -0.879    0.087  -10.087    0.000   -0.879   -0.930
##     cls_2|2 (.81.)    1.133    0.089   12.698    0.000    1.133    1.198
##     cls_3|1 (.82.)   -0.460    0.077   -5.992    0.000   -0.460   -0.436
##     cls_3|2 (.83.)    1.168    0.092   12.650    0.000    1.168    1.106
##     cls_4|1 (.84.)   -0.713    0.084   -8.462    0.000   -0.713   -0.714
##     cls_4|2 (.85.)    1.192    0.095   12.488    0.000    1.192    1.194
##     cls_5|1 (.86.)   -0.732    0.084   -8.734    0.000   -0.732   -0.714
##     cls_5|2 (.87.)    1.496    0.113   13.262    0.000    1.496    1.460
##     cls_6|1 (.88.)   -1.342    0.115  -11.682    0.000   -1.342   -1.310
##     cls_6|2 (.89.)    1.243    0.096   12.938    0.000    1.243    1.213
##     cls_7|1 (.90.)   -0.551    0.074   -7.476    0.000   -0.551   -0.641
```

```
##     cls_7|2 (.91.)    0.986    0.089   11.116    0.000    0.986    1.145
##     cls_8|1 (.92.)   -0.896    0.089  -10.112    0.000   -0.896   -0.961
##     cls_8|2 (.93.)    1.764    0.137   12.889    0.000    1.764    1.891
##     cmm_1|1 (.94.)   -0.823    0.086   -9.602    0.000   -0.823   -0.808
##     cmm_1|2 (.95.)    0.866    0.080   10.778    0.000    0.866    0.851
##     cmm_2|1 (.96.)   -1.290    0.106  -12.144    0.000   -1.290   -1.269
##     cmm_2|2 (.97.)    1.078    0.092   11.750    0.000    1.078    1.060
##     cmm_3|1 (.98.)   -0.303    0.074   -4.095    0.000   -0.303   -0.289
##     cmm_3|2 (.99.)    1.354    0.104   13.011    0.000    1.354    1.294
##     cmm_4|1 (.100)   -1.008    0.097  -10.431    0.000   -1.008   -0.990
##     cmm_4|2 (.101)    0.578    0.074    7.832    0.000    0.578    0.567
##     cmm_5|1 (.102)   -0.907    0.091   -9.979    0.000   -0.907   -0.824
##     cmm_5|2 (.103)    2.126    0.173   12.323    0.000    2.126    1.931
##     cmm_6|1 (.104)   -1.010    0.094  -10.795    0.000   -1.010   -0.924
##     cmm_6|2 (.105)    1.341    0.100   13.385    0.000    1.341    1.227
##     cmm_7|1 (.106)   -0.981    0.092  -10.681    0.000   -0.981   -0.930
##     cmm_7|2 (.107)    1.220    0.100   12.148    0.000    1.220    1.156
##     cmm_8|1 (.108)   -0.814    0.084   -9.668    0.000   -0.814   -0.802
##     cmm_8|2 (.109)    0.927    0.079   11.784    0.000    0.927    0.913
##     scr_1|1 (.110)   -0.342    0.077   -4.446    0.000   -0.342   -0.358
##     scr_1|2 (.111)    0.710    0.077    9.263    0.000    0.710    0.744
##     scr_2|1 (.112)   -0.457    0.079   -5.750    0.000   -0.457   -0.452
##     scr_2|2 (.113)    1.167    0.094   12.474    0.000    1.167    1.154
##     scr_3|1 (.114)   -0.242    0.075   -3.251    0.001   -0.242   -0.250
##     scr_3|2 (.115)    0.558    0.073    7.611    0.000    0.558    0.577
##     scr_4|1 (.116)   -0.119    0.075   -1.588    0.112   -0.119   -0.117
##     scr_4|2 (.117)    0.785    0.080    9.782    0.000    0.785    0.777
##     scr_5|1 (.118)   -0.468    0.081   -5.787    0.000   -0.468   -0.475
##     scr_5|2 (.119)    0.651    0.076    8.601    0.000    0.651    0.661
##     scr_6|1 (.120)   -0.002    0.073   -0.021    0.983   -0.002   -0.002
##     scr_6|2 (.121)    1.003    0.087   11.517    0.000    1.003    0.999
##     scr_7|1 (.122)   -0.165    0.075   -2.192    0.028   -0.165   -0.162
##     scr_7|2 (.123)    0.877    0.082   10.662    0.000    0.877    0.860
##     scr_8|1 (.124)   -0.293    0.076   -3.859    0.000   -0.293   -0.300
##     scr_8|2 (.125)    0.706    0.078    9.111    0.000    0.706    0.722
##     fv_1|t1 (.126)   -0.415    0.077   -5.409    0.000   -0.415   -0.403
##     fv_1|t2 (.127)    1.811    0.128   14.142    0.000    1.811    1.758
##     fv_2|t1 (.128)   -0.990    0.095  -10.468    0.000   -0.990   -0.970
##     fv_2|t2 (.129)    0.870    0.081   10.779    0.000    0.870    0.853
##     fv_3|t1 (.130)   -0.407    0.075   -5.448    0.000   -0.407   -0.412
##     fv_3|t2 (.131)    0.986    0.085   11.596    0.000    0.986    0.998
##     fv_4|t1 (.132)   -0.797    0.086   -9.225    0.000   -0.797   -0.747
##     fv_4|t2 (.133)    0.998    0.085   11.749    0.000    0.998    0.936
##     fv_5|t1 (.134)   -0.707    0.080   -8.805    0.000   -0.707   -0.769
##     fv_5|t2 (.135)    0.892    0.083   10.750    0.000    0.892    0.970
##     fv_6|t1 (.136)   -0.669    0.083   -8.047    0.000   -0.669   -0.649
##     fv_6|t2 (.137)    0.961    0.086   11.178    0.000    0.961    0.931
##     fv_7|t1 (.138)   -1.163    0.097  -11.953    0.000   -1.163   -1.158
##     fv_7|t2 (.139)    0.976    0.086   11.397    0.000    0.976    0.972
##     fv_8|t1 (.140)   -0.375    0.075   -5.028    0.000   -0.375   -0.364
##     fv_8|t2 (.141)    1.218    0.092   13.269    0.000    1.218    1.182
##
## Variances:
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
```

```
##    .satsisf_1        0.405                                0.405    0.355
##    .satsisf_2        0.354                                0.354    0.350
##    .satsisf_3        0.479                                0.479    0.384
##    .satsisf_4        0.311                                0.311    0.319
##    .satsisf_5        0.403                                0.403    0.395
##    .satsisf_6        0.299                                0.299    0.325
##    .satsisf_7        0.246                                0.246    0.261
##    .satsisf_8        0.268                                0.268    0.275
##    .satsisf_9        0.257                                0.257    0.294
##    .satsisf_10       0.404                                0.404    0.358
##    .satsisf_11       0.554                                0.554    0.440
##    .satsisf_12       0.262                                0.262    0.257
##    .satsisf_13       0.288                                0.288    0.298
##    .closen_1         0.247                                0.247    0.262
##    .closen_2         0.193                                0.193    0.216
##    .closen_3         0.387                                0.387    0.348
##    .closen_4         0.315                                0.315    0.315
##    .closen_5         0.330                                0.330    0.315
##    .closen_6         0.367                                0.367    0.350
##    .closen_7         0.148                                0.148    0.200
##    .closen_8         0.248                                0.248    0.285
##    .common_1         0.265                                0.265    0.255
##    .common_2         0.213                                0.213    0.206
##    .common_3         0.292                                0.292    0.266
##    .common_4         0.282                                0.282    0.272
##    .common_5         0.384                                0.384    0.317
##    .common_6         0.432                                0.432    0.362
##    .common_7         0.398                                0.398    0.358
##    .common_8         0.295                                0.295    0.287
##    .secur_1          0.145                                0.145    0.159
##    .secur_2          0.255                                0.255    0.250
##    .secur_3          0.173                                0.173    0.184
##    .secur_4          0.178                                0.178    0.174
##    .secur_5          0.173                                0.173    0.179
##    .secur_6          0.206                                0.206    0.204
##    .secur_7          0.251                                0.251    0.242
##    .secur_8          0.174                                0.174    0.182
##    .five_1           0.282                                0.282    0.266
##    .five_2           0.277                                0.277    0.266
##    .five_3           0.260                                0.260    0.266
##    .five_4           0.386                                0.386    0.340
##    .five_5           0.176                                0.176    0.209
##    .five_6           0.309                                0.309    0.290
##    .five_7           0.296                                0.296    0.293
##    .five_8           0.301                                0.301    0.283
##    .satisf           0.467    0.082    5.706    0.000    0.636    0.636
##    .closen           0.219    0.037    5.976    0.000    0.315    0.315
##    .common           0.297    0.047    6.390    0.000    0.385    0.385
##    .secur            0.140    0.035    3.975    0.000    0.183    0.183
##    .five             0.291    0.051    5.748    0.000    0.374    0.374
##    .value            0.208    0.051    4.052    0.000    0.438    0.438
##     friendship       0.268    0.037    7.170    0.000    1.000    1.000
##
## Scales y*:
```

```
##                    Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
##     satsisf_1         0.937    0.063   14.882    0.000    0.937    1.000
##     satsisf_2         0.994    0.063   15.657    0.000    0.994    1.000
##     satsisf_3         0.896    0.057   15.799    0.000    0.896    1.000
##     satsisf_4         1.014    0.063   16.030    0.000    1.014    1.000
##     satsisf_5         0.990    0.073   13.561    0.000    0.990    1.000
##     satsisf_6         1.042    0.073   14.215    0.000    1.042    1.000
##     satsisf_7         1.029    0.070   14.668    0.000    1.029    1.000
##     satsisf_8         1.014    0.072   14.138    0.000    1.014    1.000
##     satsisf_9         1.068    0.073   14.582    0.000    1.068    1.000
##     satsisf_10        0.942    0.062   15.159    0.000    0.942    1.000
##     satsisf_11        0.891    0.060   14.942    0.000    0.891    1.000
##     satsisf_12        0.992    0.066   15.046    0.000    0.992    1.000
##     satsisf_13        1.018    0.064   15.933    0.000    1.018    1.000
##     closen_1          1.030    0.067   15.328    0.000    1.030    1.000
##     closen_2          1.058    0.069   15.287    0.000    1.058    1.000
##     closen_3          0.947    0.063   15.081    0.000    0.947    1.000
##     closen_4          1.001    0.071   14.008    0.000    1.001    1.000
##     closen_5          0.976    0.069   14.070    0.000    0.976    1.000
##     closen_6          0.976    0.072   13.545    0.000    0.976    1.000
##     closen_7          1.162    0.089   13.018    0.000    1.162    1.000
##     closen_8          1.072    0.085   12.563    0.000    1.072    1.000
##     common_1          0.982    0.063   15.657    0.000    0.982    1.000
##     common_2          0.983    0.069   14.226    0.000    0.983    1.000
##     common_3          0.955    0.065   14.785    0.000    0.955    1.000
##     common_4          0.982    0.070   14.052    0.000    0.982    1.000
##     common_5          0.908    0.071   12.876    0.000    0.908    1.000
##     common_6          0.915    0.061   14.952    0.000    0.915    1.000
##     common_7          0.948    0.069   13.726    0.000    0.948    1.000
##     common_8          0.985    0.062   15.873    0.000    0.985    1.000
##     secur_1           1.048    0.073   14.419    0.000    1.048    1.000
##     secur_2           0.989    0.068   14.474    0.000    0.989    1.000
##     secur_3           1.033    0.070   14.832    0.000    1.033    1.000
##     secur_4           0.990    0.065   15.231    0.000    0.990    1.000
##     secur_5           1.016    0.068   14.896    0.000    1.016    1.000
##     secur_6           0.996    0.068   14.550    0.000    0.996    1.000
##     secur_7           0.981    0.066   14.846    0.000    0.981    1.000
##     secur_8           1.023    0.068   15.088    0.000    1.023    1.000
##     five_1            0.971    0.064   15.141    0.000    0.971    1.000
##     five_2            0.980    0.064   15.252    0.000    0.980    1.000
##     five_3            1.012    0.067   15.192    0.000    1.012    1.000
##     five_4            0.938    0.062   15.043    0.000    0.938    1.000
##     five_5            1.088    0.080   13.675    0.000    1.088    1.000
##     five_6            0.969    0.065   14.837    0.000    0.969    1.000
##     five_7            0.996    0.070   14.301    0.000    0.996    1.000
##     five_8            0.970    0.060   16.090    0.000    0.970    1.000
```

Identification restrictions seem to have been applied correctly, so that does not seem to be problematic.

```
## Compare fit
anova(fit.m, fit.t)
```

```
## Warning in lavTestLRT(object = object, ..., model.names = NAMES): lavaan WARNING:
```

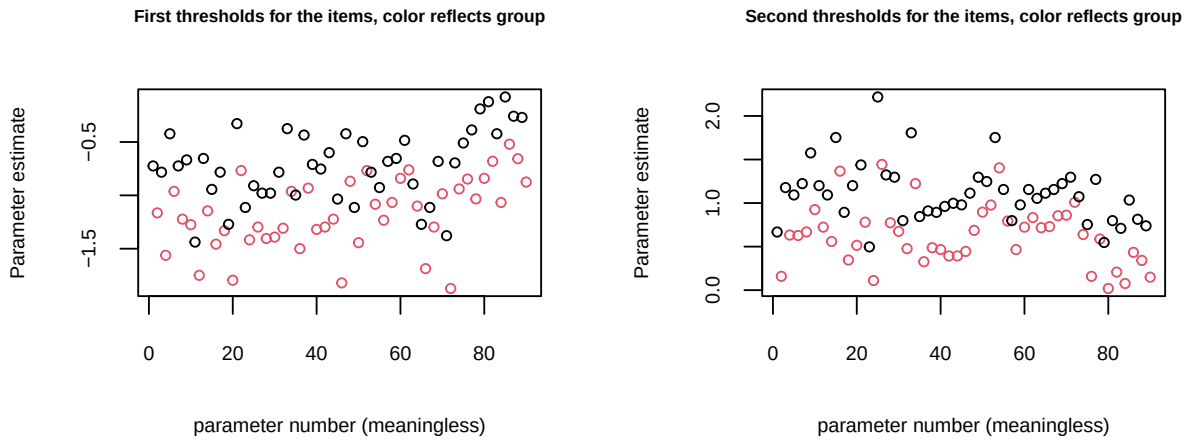
```
##     Some restricted models fit better than less restricted models;
##     either these models are not nested, or the less restricted model
##     failed to reach a global optimum. Smallest difference =
##     -102.76182770073

##
## Scaled Chi-Squared Difference Test (method = "satorra.2000")
##
## lavaan NOTE:
##     The "Chisq" column contains standard test statistics, not the
##     robust test that should be reported per model. A robust difference
##     test is a function of two standard (not robust) statistics.
##
##         Df AIC BIC  Chisq Chisq diff Df diff Pr(>Chisq)
## fit.m 1923         1396.8
## fit.t 1961         1294.1    -158.18      38          1
```

The fit comparison yields lower χ^2 for the more parsimonious model, which should not happen, so I distrust the threshold invariance model.

I would inspect the estimated thresholds from the configural invariance model. There are quite a few, so plotting might help:

```
pars <- parameterestimates(fit.m)
pars <- pars[order(pars$lhs), ]
pars <- pars[pars$op == "|", ]
par(mfrow = c(1, 2))
plot(pars$est[pars$rhs == "t1"], col = pars$group[pars$rhs == "t1"],
     main = "First thresholds for the items, color reflects group",
     cex.main = .6, cex = .7, cex.lab = .7, cex.axis = .7,
     xlab = "parameter number (meaningless)",
     ylab = "Parameter estimate")
plot(pars$est[pars$rhs == "t2"], col = pars$group[pars$rhs == "t2"],
     main = "Second thresholds for the items, color reflects group",
     cex.main = .6, cex = .7, cex.lab = .7, cex.axis = .7,
     xlab = "parameter number (meaningless)",
     ylab = "Parameter estimate")
```



There seems to be a systematic tendency for higher thresholds in the second group.