Study 2: Code Translation from SPSS to R

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Reported Results for Study 2

Moral Relevance

- Ratings for individualizing foundations were higher than ratings for the binding foundations for relevance items F(1, 1205) = 1215.62, p < .001, $\eta^2 = .50$.
- This effect was moderated by politics F(1, 1205) = 450.42, p < .001, $\eta^2 = .27$.

Moral Judgment

- Ratings for individualizing foundations were higher than ratings for the binding foundations for relevance items F(1, 1200) = 635.58, p < .001, $\eta^2 = .35$.
- This effect was moderated by politics $F(1, 1200) = 649.40, p < .001, \eta^2 = .35$.

Crombach's Alpha

Moral Relevance

Harm: .71Fairness: .70Ingroup: .71Authority: .64Purity: .76

Moral Judgment

Harm: .50Fairness: .39Ingroup: .24Authority: .64Purity: .74

Setup

```
# Load Data
s2 <- read.csv("GrahamS2data.csv")</pre>
########## Load Packages #############
library(psych)
library(tidyverse)
## -- Attaching packages ----- tidyverse 1.2.1 --
## v ggplot2 3.2.0
                    v purrr
                             0.3.2
## v tibble 2.1.3
                    v dplyr
                             0.8.1
                    v stringr 1.4.0
## v tidyr
           0.8.3
## v readr
           1.3.1
                    v forcats 0.4.0
## -- Conflicts -----
                          ----- tidyverse conflicts() --
## x ggplot2::%+%() masks psych::%+%()
## x ggplot2::alpha() masks psych::alpha()
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
# Gender
str(s2$gender)
   int [1:2135] -1 -1 1 -1 -1 -1 -1 1 -1 ...
s2$gender <- as.factor(s2$gender)</pre>
class(s2$gender)
## [1] "factor"
```

Code Translation

For each of the code translations, the original SPSS code is presented followed by the code in R. Results are also presented with each code chunk.

Descriptive Stats – Demographics

```
FREQUENCIES
/VARIABLES=politics gender citizen resduce byear
/STATISTICS=MEAN
/ORDER= ANALYSIS.
```

```
describe(s2$politics)
                         \#Political\ ideology\ (-3 = Very\ Liberal)
##
      vars
                          sd median trimmed mad min max range skew kurtosis
                  mean
          1 2135 -0.74 1.71
                                                          3
                                  -1
                                        -0.85 1.48
                                                    -3
                                                                    0.4
                                                                            -0.85
##
        se
## X1 0.04
table(s2$gender) #Gender: 1 = Female, -1 = Male
##
##
     -1
            1
    790 1343
##
table(s2$citizen)
                     #Country of Citizenship
##
##
                      bd
                           bg
                                 br
                                      by
                                            ca
                                                 cl
                                                                  de
                                                                        ес
                                                                             fi
           ar
                au
                                                       cn
                                                             СО
                                                                                   gh
##
      5
            1
                 3
                       1
                            1
                                  1
                                            12
                                                  1
                                                        2
                                                              2
                                                                   9
                                                                         2
                                                                              2
                                       1
                                                                                    1
##
                il
                                      kh
                                            kr
                                                 lr
     gу
           hr
                      in
                           jm
                                 jр
                                                       mx
                                                             my
                                                                  рa
                                                                        ph
                                                                             pk
                                                                                   pr
##
                 2
                       8
                            1
                                       1
                                             1
                                                   1
                                                        2
                                                                   1
                                                                         1
                                                                              1
                                                                                    1
      1
            1
                                  1
                                                              1
##
          ru
                                            uk
                                                 um
     ro
                se
                      tr
                           tw
                                 ua
                                       ug
                                                       us
                            2
##
      2
            1
                  1
                       1
                                  2
                                        1
                                            11
                                                   5 2041
table(s2$resdnce)
                     #Country of Residence
##
##
           af
                au
                      bd
                           bw
                                 ca
                                       cn
                                                  et
                                                       fi
                                                             hk
                                                                  hr
                                                                        ie
                                                                             in
                                                                                   jр
##
                                  5
                                                                         1
     18
            1
                 1
                       5
                            1
                                       1
                                             1
                                                   1
                                                        1
                                                              1
                                                                   1
                                                                              1
                                                                                    2
##
     kr
           mx
                ph
                      pl
                           pr
                                 th
                                      tw
                                                 uk
                                            ug
                                                       us
                                                             uy
                                                                  vg
                       2
##
      1
            1
                 1
                            1
                                  1
                                       1
                                             1
                                                   4 2079
                                                              1
                                                                   1
describe(s2$byear)
                      #Birth Year
##
      vars
                   mean
                            sd median trimmed
                                                  mad min max range skew
## X1
          1 2135 1974.2 12.99
                                  1978 1975.81 11.86 1928 2002
                                                                      74 -0.94
##
      kurtosis
                  se
## X1
              0 0.28
```

Alpha Reliability – MFQ

RELIABILITY

/VARIABLES=Harmed Astrology Unnat Friend Duties Rights Group Disgust Loyalty Violence Desires Profiting Attract Decency Unfair Interests Weak Author Uplifting Rank Emotionally Traditions Treated Betray Respect Slap Heritage Chastity Romantic Terror Brother Revolting Wellbeing Compassion Line Kill Grouploy Govharm Sexroles Soldier Sin Justice Wrongdisgust Fairly Kidrespect

```
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
MFQ <- s2 %>% select(c("Harmed", "Astrology", "Unnat", "Friend", "Duties",
    "Rights", "Group", "Disgust", "Loyalty", "Violence", "Desires", "Profiting",
    "Attract", "Decency", "Unfair", "Interests", "Weak", "Author", "Uplifting",
    "Rank", "Emotionally", "Traditions", "Treated", "Betray", "Respect",
    "Slap", "Heritage", "Chastity", "Romantic", "Terror", "Brother", "Revolting",
    "Wellbeing", "Compassion", "Line", "Kill", "Grouploy", "Govharm", "Sexroles",
    "Soldier", "Sin", "Justice", "Wrongdisgust", "Fairly", "Kidrespect"))
psych::alpha(MFQ, na.rm = TRUE, check.keys = TRUE)
## Warning in psych::alpha(MFQ, na.rm = TRUE, check.keys = TRUE): Some items were negati
## This is indicated by a negative sign for the variable name.
##
## Reliability analysis
## Call: psych::alpha(x = MFQ, na.rm = TRUE, check.keys = TRUE)
##
##
     raw_alpha std.alpha G6(smc) average_r S/N
                                                              sd median r
                                                  ase mean
         0.85
                   0.85
                                     0.12 5.9 0.0045 3.7 0.59
##
                            0.9
                                                                   0.099
##
## lower alpha upper
                          95% confidence boundaries
## 0.84 0.85 0.86
##
## Reliability if an item is dropped:
##
                raw alpha std.alpha G6(smc) average r S/N alpha se var.r
## Harmed
                     0.85
                               0.85
                                       0.89
                                                 0.12 5.8
                                                            0.0046 0.023
## Astrology
                     0.85
                               0.86
                                       0.90
                                                 0.12 5.9
                                                            0.0045 0.023
## Unnat
                     0.84
                               0.85
                                       0.89
                                                 0.11 5.6
                                                            0.0048 0.023
## Friend
                     0.85
                               0.85
                                       0.89
                                                 0.12 5.7
                                                            0.0046 0.023
## Duties
                     0.85
                               0.85
                                       0.89
                                                 0.11 5.6
                                                            0.0047 0.023
## Rights
                                                 0.12 5.8
                     0.85
                               0.85
                                       0.89
                                                            0.0045 0.022
## Group
                     0.85
                               0.85
                                       0.89
                                                 0.11 5.6
                                                            0.0047 0.023
## Disgust
                     0.84
                               0.85
                                       0.89
                                                 0.11 5.5
                                                            0.0048 0.022
## Loyalty
                                                 0.11 5.5
                     0.84
                               0.85
                                       0.89
                                                            0.0048 0.023
## Violence
                     0.85
                               0.85
                                       0.89
                                                 0.11 5.7
                                                            0.0046 0.023
## Desires
                     0.85
                               0.85
                                       0.89
                                                 0.11 5.6
                                                            0.0047 0.023
## Profiting
                     0.85
                               0.85
                                       0.89
                                                 0.12 5.8
                                                            0.0046 0.023
                                                 0.12 5.9
## Attract
                     0.85
                               0.85
                                       0.89
                                                            0.0045 0.023
                                                 0.11 5.5
## Decency
                     0.84
                               0.85
                                       0.89
                                                            0.0048 0.022
## Unfair
                                                 0.11 5.7
                     0.85
                               0.85
                                       0.89
                                                            0.0046 0.023
## Interests
                     0.85
                               0.85
                                       0.89
                                                 0.11 5.6
                                                            0.0046 0.023
## Weak
                     0.85
                               0.85
                                       0.89
                                                 0.11 5.7
                                                            0.0046 0.023
```

##	Author	0.85	0.85	0.89	0.11 5.6	0.0047 0.023
##	Uplifting	0.85	0.85	0.89	0.11 5.6	0.0047 0.023
##	Rank	0.85	0.85	0.89	0.12 5.8	0.0045 0.024
##	Emotionally	0.85	0.85	0.89	0.12 5.8	0.0046 0.022
##	Traditions	0.84	0.85	0.89	0.11 5.5	0.0047 0.023
##	Treated	0.85	0.85	0.89	0.12 5.8	0.0045 0.022
##	Betray	0.84	0.85	0.89	0.11 5.5	0.0048 0.023
##	Respect	0.84	0.85	0.89	0.11 5.5	0.0048 0.022
##	Slap-	0.86	0.86	0.90	0.12 6.1	0.0044 0.022
##	Heritage	0.85	0.85	0.89	0.11 5.6	0.0047 0.023
##	Chastity	0.85	0.85	0.89	0.11 5.7	0.0047 0.023
##	Romantic	0.85	0.86	0.90	0.12 5.9	0.0045 0.023
##	Terror	0.85	0.85	0.89	0.12 5.8	0.0046 0.022
##	Brother	0.85	0.86	0.90	0.12 6.0	0.0044 0.023
##	Revolting	0.84	0.85	0.89	0.11 5.6	0.0047 0.023
##	Wellbeing	0.85	0.86	0.90	0.12 5.9	0.0045 0.022
##	Compassion	0.85	0.85	0.89	0.12 5.8	0.0045 0.023
##	Line	0.85	0.86	0.90	0.12 6.0	0.0044 0.023
##	Kill	0.85	0.86	0.90	0.12 5.9	0.0044 0.023
##	Grouploy	0.85	0.85	0.89	0.12 5.8	0.0046 0.023
##	Govharm	0.85	0.85	0.89	0.11 5.7	0.0046 0.023
##	Sexroles	0.85	0.85	0.89	0.12 5.8	0.0046 0.022
##	Soldier	0.85	0.85	0.89	0.12 5.8	0.0046 0.023
##	Sin	0.85	0.85	0.89	0.11 5.7	0.0047 0.023
##	Justice	0.85	0.85	0.89	0.12 5.9	0.0045 0.023
##	Wrongdisgust	0.84	0.85	0.89	0.11 5.6	0.0047 0.022
##	Fairly	0.85	0.85	0.89	0.12 5.8	0.0045 0.023
##	Kidrespect	0.84	0.85	0.89	0.11 5.6	0.0047 0.023
##		med.r				
##	Harmed	0.101				
##	Astrology	0.109				
##	Unnat	0.097				
##	Friend	0.099				
##	Duties	0.097				
##	Rights	0.103				
##	Group	0.096				
##	Disgust	0.096				
##	Loyalty	0.097				
##	Violence	0.099				
##	Desires	0.097				
##	Profiting	0.099				
##	Attract	0.105				
	Decency	0.097				
##	Unfair	0.099				
##	Interests	0.097				

```
0.099
## Weak
## Author
                 0.098
## Uplifting
                 0.096
## Rank
                 0.104
## Emotionally
                 0.099
## Traditions
                 0.097
## Treated
                 0.101
## Betray
                 0.095
## Respect
                 0.097
## Slap-
                 0.112
## Heritage
                 0.099
## Chastity
                 0.100
## Romantic
                 0.106
## Terror
                 0.099
## Brother
                 0.110
## Revolting
                 0.098
## Wellbeing
                 0.104
## Compassion
                 0.104
## Line
                 0.111
## Kill
                 0.105
## Grouploy
                 0.103
## Govharm
                 0.097
## Sexroles
                 0.099
## Soldier
                 0.101
## Sin
                 0.099
## Justice
                 0.105
## Wrongdisgust 0.099
## Fairly
                 0.105
## Kidrespect
                 0.097
##
##
    Item statistics
##
                    n raw.r
                               std.r
                                      r.cor r.drop mean
                                                            sd
                                      0.314 0.250
## Harmed
                 1209 0.366
                              0.3357
                                                     5.2 1.11
## Astrology
                 1206 0.135
                              0.1401
                                      0.091
                                              0.084
                                                     1.3 0.56
                                      0.540
                                              0.510
## Unnat
                 1206 0.536
                              0.5436
                                                     3.8 1.47
## Friend
                                      0.348
                 1204 0.401
                              0.3674
                                              0.309
                                                     3.5 1.60
## Duties
                 1202 0.454
                              0.4674
                                      0.449
                                              0.419
                                                     4.2 1.27
## Rights
                 1204 0.321
                              0.2904
                                      0.274
                                              0.189
                                                     5.1 1.15
## Group
                 1203 0.479
                              0.4611
                                      0.448
                                              0.404
                                                     3.6 1.47
## Disgust
                 1201 0.594
                              0.5947
                                      0.599
                                              0.571
                                                     3.0 1.37
## Loyalty
                 1202 0.574
                              0.5684
                                      0.566
                                              0.524
                                                     3.7 1.40
## Violence
                                      0.372
                 1202 0.400
                              0.3865
                                              0.307
                                                     5.1 1.14
## Desires
                              0.4989
                                      0.484
                                              0.448
                 1202 0.506
                                                     3.7 1.37
                 1201 0.381
                              0.3401
                                      0.316
                                              0.258
                                                     3.7 1.42
## Profiting
## Attract
                 1202 0.264
                              0.2311
                                      0.200
                                              0.177
                                                     2.1 1.34
```

```
## Decency
                 1201 0.563
                             0.5932
                                      0.597
                                             0.572
                                                    3.4 1.54
## Unfair
                 1201 0.418
                             0.4014
                                      0.385
                                             0.319
                                                     4.8 1.15
## Interests
                1200 0.488
                             0.4544
                                      0.438
                                             0.382
                                                     3.9 1.31
## Weak
                 1198 0.453
                             0.4305
                                      0.419
                                             0.343
                                                     4.5 1.27
## Author
                             0.5045
                                      0.495
                 1196 0.525
                                             0.431
                                                    4.4 1.25
## Uplifting
                 1199 0.527
                             0.5128
                                      0.501
                                             0.452
                                                     3.9 1.40
## Rank
                                      0.233
                                             0.203
                1196 0.303
                             0.2713
                                                     2.7 1.43
                             0.3272
                                      0.309
## Emotionally
                1198 0.380
                                             0.233
                                                     4.4 1.31
## Traditions
                1200 0.539
                             0.5517
                                      0.549
                                             0.517
                                                     3.0 1.33
                 1200 0.357
                                                     4.5 1.24
## Treated
                             0.3149
                                      0.301
                                             0.216
## Betray
                 1199 0.601
                             0.5931
                                      0.594
                                             0.542
                                                     3.6 1.34
                 1199 0.548
## Respect
                             0.5925
                                      0.597
                                             0.569
                                                     3.7 1.39
## Slap-
                 1203 0.061 -0.0081 -0.062 -0.054
                                                     2.5 1.47
                                      0.432
## Heritage
                1202 0.520
                             0.4463
                                             0.420
                                                     3.7 1.50
                                      0.389
## Chastity
                1195 0.507
                             0.4062
                                             0.381
                                                     3.9 1.65
## Romantic
                1201 0.279
                             0.1544
                                      0.110
                                             0.114
                                                    3.3 1.72
                                      0.279
## Terror
                1200 0.443
                             0.3005
                                             0.283
                                                     3.1 1.69
## Brother
                1198 0.187
                             0.1267
                                      0.082
                                             0.064
                                                    3.9 1.71
## Revolting
                1198 0.564
                             0.4913
                                      0.482
                                             0.472
                                                     3.3 1.70
## Wellbeing
                1196 0.331
                             0.1868
                                      0.154
                                             0.163
                                                     2.9 1.52
## Compassion
                1197 0.157
                             0.2556
                                      0.226
                                             0.173
                                                     4.7 1.19
## Line
                1195 0.161
                             0.1161
                                      0.069
                                             0.052
                                                     4.2 1.52
## Kill
                1196 0.137
                             0.1670
                                      0.131
                                             0.077
                                                     3.7 1.81
## Grouploy
                1197 0.305
                             0.2712
                                      0.234
                                             0.223
                                                    2.8 1.36
## Govharm
                1197 0.346
                             0.3780
                                      0.353
                                             0.314
                                                    4.5 1.35
## Sexroles
                             0.2943
                                      0.269
                                             0.273
                1196 0.412
                                                    3.1 1.66
## Soldier
                1196 0.384
                             0.2700
                                      0.241
                                             0.240
                                                     3.6 1.61
## Sin
                1196 0.535
                             0.4357
                                      0.424
                                             0.418
                                                     2.3 1.53
                1197 0.159
                             0.2359
                                      0.209
## Justice
                                             0.148
                                                     5.0 1.15
## Wrongdisgust 1196 0.586
                             0.4714
                                      0.470
                                             0.462
                                                     3.1 1.66
## Fairly
                 1193 0.188
                             0.2466
                                      0.223
                                             0.157
                                                     4.8 1.28
## Kidrespect
                1196 0.556
                             0.5031
                                      0.498
                                             0.484
                                                     4.8 1.26
##
## Non missing response frequency for each item
##
                         2
                              3
                                    4
                                         5
                    1
                                              6 miss
                 0.01 0.01 0.06 0.13 0.25 0.54 0.43
## Harmed
                0.80 0.14 0.06 0.00 0.00 0.00 0.44
## Astrology
## Unnat
                0.07 0.15 0.20 0.24 0.20 0.15 0.44
## Friend
                0.15 0.16 0.19 0.20 0.18 0.13 0.44
## Duties
                0.03 0.07 0.17 0.30 0.27 0.16 0.44
## Rights
                0.01 0.02 0.08 0.14 0.26 0.49 0.44
## Group
                0.10 0.15 0.22 0.24 0.19 0.10 0.44
## Disgust
                0.13 0.27 0.26 0.18 0.11 0.05 0.44
## Loyalty
                0.06 0.15 0.22 0.27 0.18 0.12 0.44
## Violence
                0.01 0.02 0.07 0.13 0.28 0.48 0.44
```

```
0.06 0.15 0.25 0.26 0.18 0.10 0.44
## Desires
                0.08 0.14 0.22 0.27 0.19 0.11 0.44
## Profiting
## Attract
                0.45 0.24 0.15 0.09 0.04 0.03 0.44
## Decency
                0.12 0.20 0.23 0.19 0.15 0.12 0.44
## Unfair
                0.01 0.03 0.08 0.23 0.32 0.33 0.44
                0.04 0.10 0.21 0.30 0.21 0.13 0.44
## Interests
## Weak
                0.03 0.04 0.14 0.25 0.28 0.26 0.44
## Author
                0.02 0.05 0.16 0.27 0.28 0.22 0.44
## Uplifting
                0.05 0.12 0.20 0.26 0.21 0.16 0.44
## Rank
                0.27 0.24 0.21 0.16 0.08 0.04 0.44
## Emotionally 0.02 0.07 0.15 0.26 0.26 0.24 0.44
## Traditions
                0.11 0.28 0.26 0.20 0.09 0.05 0.44
## Treated
                0.02 0.05 0.13 0.26 0.28 0.27 0.44
                0.05 0.15 0.28 0.25 0.15 0.11 0.44
## Betray
## Respect
                0.06 0.16 0.23 0.27 0.17 0.11 0.44
## Slap
                0.05 0.09 0.10 0.18 0.28 0.30 0.44
                0.09 0.17 0.14 0.25 0.24 0.11 0.44
## Heritage
## Chastity
                0.11 0.15 0.11 0.22 0.20 0.21 0.44
## Romantic
                0.21 0.17 0.13 0.18 0.17 0.13 0.44
## Terror
                0.27 0.15 0.12 0.23 0.13 0.10 0.44
## Brother
                0.13 0.10 0.15 0.18 0.19 0.24 0.44
## Revolting
                0.20 0.19 0.14 0.17 0.17 0.13 0.44
## Wellbeing
                0.25 0.23 0.17 0.20 0.10 0.06 0.44
## Compassion
                0.01 0.05 0.09 0.21 0.35 0.28 0.44
## Line
                0.07 0.11 0.10 0.21 0.28 0.24 0.44
## Kill
                0.16 0.16 0.15 0.09 0.21 0.23 0.44
## Grouploy
                0.21 0.25 0.23 0.18 0.10 0.02 0.44
## Govharm
                0.03 0.07 0.10 0.21 0.31 0.28 0.44
## Sexroles
                0.24 0.18 0.11 0.24 0.13 0.09 0.44
## Soldier
                0.14 0.16 0.15 0.20 0.23 0.13 0.44
## Sin
                0.46 0.18 0.10 0.14 0.07 0.04 0.44
## Justice
                0.02 0.03 0.04 0.14 0.33 0.44 0.44
## Wrongdisgust 0.24 0.20 0.13 0.19 0.17 0.08 0.44
## Fairly
                0.02 0.05 0.08 0.17 0.29 0.39 0.44
## Kidrespect
                0.03 0.05 0.05 0.21 0.32 0.33 0.44
```

Alpha Reliability – MFQ with reverse code scores

RELIABILITY

/VARIABLES=Harmed Astrology Unnat Friend Duties Rights Group Disgust Loyalty Violence Desires Profiting Attract Decency Unfair Interests Weak Author Uplifting Rank Emotionally Traditions Treated Betray Respect Slap Heritage Chastity Romantic Revolting Wellbeing Compassion Line Kill Grouploy Govharm Sexroles Soldier Sin Justice Wrongdisgust Fairly Kidrespect TerrorRev

```
BrotherRev
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
MFQrev <- s2 %>% select(c("Harmed", "Astrology", "Unnat", "Friend", "Duties",
    "Rights", "Group", "Disgust", "Loyalty", "Violence", "Desires", "Profiting",
    "Attract", "Decency", "Unfair", "Interests", "Weak", "Author", "Uplifting",
    "Rank", "Emotionally", "Traditions", "Treated", "Betray", "Respect",
    "Slap", "Heritage", "Chastity", "Romantic", "Revolting", "Wellbeing",
    "Compassion", "Line", "Kill", "Grouploy", "Govharm", "Sexroles", "Soldier",
    "Sin", "Justice", "Wrongdisgust", "Fairly", "Kidrespect", "TerrorRev",
    "BrotherRev"))
psych::alpha(MFQrev, na.rm = TRUE, check.keys = TRUE)
## Warning in psych::alpha(MFQrev, na.rm = TRUE, check.keys = TRUE): Some items were neg
## This is indicated by a negative sign for the variable name.
##
## Reliability analysis
## Call: psych::alpha(x = MFQrev, na.rm = TRUE, check.keys = TRUE)
##
##
     raw alpha std.alpha G6(smc) average r S/N
                                                              sd median r
                                                   ase mean
         0.85
                   0.85
                            0.9
                                      0.12 5.9 0.0045 3.7 0.59
                                                                   0.099
##
##
   lower alpha upper
                          95% confidence boundaries
## 0.84 0.85 0.86
##
## Reliability if an item is dropped:
                raw alpha std.alpha G6(smc) average_r S/N alpha se var.r
##
## Harmed
                     0.85
                               0.85
                                        0.89
                                                  0.12 5.8
                                                             0.0046 0.023
## Astrology
                     0.85
                               0.86
                                        0.90
                                                  0.12 5.9
                                                             0.0045 0.023
## Unnat
                     0.84
                               0.85
                                       0.89
                                                  0.11 5.6
                                                             0.0048 0.023
## Friend
                                                  0.12 5.7
                                                             0.0046 0.023
                     0.85
                               0.85
                                       0.89
## Duties
                     0.85
                               0.85
                                       0.89
                                                  0.11 5.6
                                                             0.0047 0.023
## Rights
                     0.85
                               0.85
                                       0.89
                                                  0.12 5.8
                                                             0.0045 0.022
## Group
                                                  0.11 5.6
                     0.85
                               0.85
                                       0.89
                                                             0.0047 0.023
## Disgust
                     0.84
                               0.85
                                       0.89
                                                  0.11 5.5
                                                             0.0048 0.022
## Loyalty
                     0.84
                               0.85
                                       0.89
                                                  0.11 5.5
                                                             0.0048 0.023
## Violence
                     0.85
                                                  0.11 5.7
                                                             0.0046 0.023
                               0.85
                                       0.89
## Desires
                     0.85
                                                  0.11 5.6
                                                             0.0047 0.023
                               0.85
                                       0.89
## Profiting
                     0.85
                               0.85
                                       0.89
                                                  0.12 5.8
                                                             0.0046 0.023
## Attract
                     0.85
                               0.85
                                        0.89
                                                  0.12 5.9
                                                             0.0045 0.023
## Decency
                     0.84
                               0.85
                                        0.89
                                                  0.11 5.5
                                                             0.0048 0.022
## Unfair
                     0.85
                               0.85
                                       0.89
                                                  0.11 5.7
                                                             0.0046 0.023
```

##	Interests	0.85	0.85	0.89	0.11 5.6	0.0046 0.023
	Weak	0.85	0.85	0.89	0.11 5.7	0.0046 0.023
	Author	0.85	0.85	0.89	0.11 5.6	0.0047 0.023
	Uplifting	0.85	0.85	0.89	0.11 5.6	0.0047 0.023
	Rank	0.85	0.85	0.89	0.12 5.8	0.0045 0.024
##	Emotionally	0.85	0.85	0.89	0.12 5.8	0.0046 0.022
##	Traditions	0.84	0.85	0.89	0.11 5.5	0.0047 0.023
##	Treated	0.85	0.85	0.89	0.12 5.8	0.0045 0.022
##	Betray	0.84	0.85	0.89	0.11 5.5	0.0048 0.023
	Respect	0.84	0.85	0.89	0.11 5.5	0.0048 0.022
##	Slap-	0.86	0.86	0.90	0.12 6.1	0.0044 0.022
##	Heritage	0.85	0.85	0.89	0.11 5.6	0.0047 0.023
##	Chastity	0.85	0.85	0.89	0.11 5.7	0.0047 0.023
	Romantic	0.85	0.86	0.90	0.12 5.9	0.0045 0.023
##	Revolting	0.84	0.85	0.89	0.11 5.6	0.0047 0.023
	Wellbeing	0.85	0.86	0.90	0.12 5.9	0.0045 0.022
##		0.85	0.85	0.89	0.12 5.8	0.0045 0.023
##	Line	0.85	0.86	0.90	0.12 6.0	0.0044 0.023
##	Kill	0.85	0.86	0.90	0.12 5.9	0.0044 0.023
##	Grouploy	0.85	0.85	0.89	0.12 5.8	0.0046 0.023
##	Govharm	0.85	0.85	0.89	0.11 5.7	0.0046 0.023
##	Sexroles	0.85	0.85	0.89	0.12 5.8	0.0046 0.022
##	Soldier	0.85	0.85	0.89	0.12 5.8	0.0046 0.023
##	Sin	0.85	0.85	0.89	0.11 5.7	0.0047 0.023
##	Justice	0.85	0.85	0.89	0.12 5.9	0.0045 0.023
##	Wrongdisgust	0.84	0.85	0.89	0.11 5.6	0.0047 0.022
##	Fairly	0.85	0.85	0.89	0.12 5.8	0.0045 0.023
##	Kidrespect	0.84	0.85	0.89	0.11 5.6	0.0047 0.023
##	TerrorRev-	0.85	0.85	0.89	0.12 5.8	0.0046 0.022
##	BrotherRev-	0.85	0.86	0.90	0.12 6.0	0.0044 0.023
##		med.r				
##	Harmed	0.101				
	Astrology	0.109				
	Unnat	0.097				
	Friend	0.099				
	Duties	0.097				
	Rights	0.103				
	Group	0.096				
	Disgust	0.096				
	Loyalty	0.097				
	Violence	0.099				
	Desires	0.097				
	Profiting	0.099				
	Attract	0.105				
##	Decency	0.097				

```
0.099
## Unfair
## Interests
                 0.097
## Weak
                 0.099
## Author
                 0.098
## Uplifting
                 0.096
## Rank
                 0.104
## Emotionally
                 0.099
## Traditions
                 0.097
## Treated
                 0.101
## Betray
                 0.095
## Respect
                 0.097
## Slap-
                 0.112
## Heritage
                 0.099
## Chastity
                 0.100
## Romantic
                 0.106
## Revolting
                 0.098
## Wellbeing
                 0.104
## Compassion
                 0.104
## Line
                 0.111
## Kill
                 0.105
## Grouploy
                 0.103
## Govharm
                 0.097
## Sexroles
                 0.099
## Soldier
                 0.101
## Sin
                 0.099
## Justice
                 0.105
## Wrongdisgust 0.099
## Fairly
                 0.105
## Kidrespect
                 0.097
## TerrorRev-
                 0.099
## BrotherRev-
                 0.110
##
##
    Item statistics
##
                               std.r
                                      r.cor r.drop mean
                    n raw.r
## Harmed
                 1209 0.366
                              0.3357
                                      0.314
                                              0.250
                                                     5.2 1.11
                 1206 0.135
                              0.1401
                                      0.091
                                                     1.3 0.56
## Astrology
                                              0.084
## Unnat
                 1206 0.536
                              0.5436
                                      0.540
                                              0.510
                                                     3.8 1.47
## Friend
                 1204 0.401
                              0.3674
                                      0.348
                                              0.309
                                                     3.5 1.60
                                      0.449
## Duties
                 1202 0.454
                              0.4674
                                              0.419
                                                     4.2 1.27
                                      0.274
## Rights
                 1204 0.321
                              0.2904
                                              0.189
                                                     5.1 1.15
                                      0.448
## Group
                 1203 0.479
                              0.4611
                                              0.404
                                                     3.6 1.47
## Disgust
                                      0.599
                                              0.571
                 1201 0.594
                              0.5947
                                                     3.0 1.37
## Loyalty
                              0.5684
                                      0.566
                                              0.524
                 1202 0.574
                                                     3.7 1.40
## Violence
                 1202 0.400
                              0.3865
                                      0.372
                                              0.307
                                                     5.1 1.14
## Desires
                 1202 0.506
                              0.4989
                                      0.484
                                              0.448
                                                     3.7 1.37
```

```
## Profiting
                 1201 0.381
                             0.3401
                                      0.316
                                             0.258
                                                    3.7 1.42
## Attract
                 1202 0.264
                             0.2311
                                      0.200
                                             0.177
                                                     2.1 1.34
## Decency
                 1201 0.563
                             0.5932
                                      0.597
                                             0.572
                                                     3.4 1.54
## Unfair
                 1201 0.418
                             0.4014
                                      0.385
                                             0.319
                                                     4.8 1.15
                             0.4544
                                      0.438
## Interests
                 1200 0.488
                                             0.382
                                                     3.9 1.31
## Weak
                 1198 0.453
                             0.4305
                                      0.419
                                             0.343
                                                     4.5 1.27
                             0.5045
                                      0.495
## Author
                 1196 0.525
                                             0.431
                                                     4.4 1.25
## Uplifting
                 1199 0.527
                             0.5128
                                      0.501
                                             0.452
                                                     3.9 1.40
## Rank
                 1196 0.303
                             0.2713
                                      0.233
                                             0.203
                                                     2.7 1.43
                             0.3272
                                      0.309
                                             0.233
## Emotionally
                 1198 0.380
                                                     4.4 1.31
## Traditions
                 1200 0.539
                             0.5517
                                      0.549
                                             0.517
                                                     3.0 1.33
                 1200 0.357
## Treated
                             0.3149
                                      0.301
                                             0.216
                                                     4.5 1.24
## Betray
                 1199 0.601
                             0.5931
                                      0.594
                                             0.542
                                                     3.6 1.34
## Respect
                 1199 0.548
                             0.5925
                                      0.597
                                             0.569
                                                     3.7 1.39
## Slap-
                 1203 0.061 -0.0081 -0.062 -0.054
                                                     2.5 1.47
## Heritage
                 1202 0.520
                             0.4463
                                      0.432
                                             0.420
                                                     3.7 1.50
                                      0.389
## Chastity
                 1195 0.507
                             0.4062
                                             0.381
                                                     3.9 1.65
## Romantic
                 1201 0.279
                             0.1544
                                      0.110
                                             0.114
                                                    3.3 1.72
## Revolting
                 1198 0.564
                             0.4913
                                      0.482
                                             0.472
                                                     3.3 1.70
## Wellbeing
                 1196 0.331
                             0.1868
                                      0.154
                                             0.163
                                                     2.9 1.52
## Compassion
                 1197 0.157
                             0.2556
                                      0.226
                                             0.173
                                                     4.7 1.19
## Line
                 1195 0.161
                             0.1161
                                      0.069
                                             0.052
                                                    4.2 1.52
## Kill
                 1196 0.137
                             0.1670
                                      0.131
                                             0.077
                                                     3.7 1.81
## Grouploy
                 1197 0.305
                             0.2712
                                      0.234
                                             0.223
                                                    2.8 1.36
## Govharm
                 1197 0.346
                             0.3780
                                      0.353
                                             0.314
                                                    4.5 1.35
## Sexroles
                             0.2943
                                      0.269
                                             0.273
                 1196 0.412
                                                    3.1 1.66
## Soldier
                 1196 0.384
                             0.2700
                                      0.241
                                             0.240
                                                     3.6 1.61
## Sin
                 1196 0.535
                             0.4357
                                      0.424
                                             0.418
                                                     2.3 1.53
                             0.2359
                                      0.209
## Justice
                 1197 0.159
                                             0.148
                                                     5.0 1.15
## Wrongdisgust 1196 0.586
                             0.4714
                                      0.470
                                             0.462
                                                     3.1 1.66
## Fairly
                 1193 0.188
                             0.2466
                                      0.223
                                             0.157
                                                     4.8 1.28
## Kidrespect
                 1196 0.556
                             0.5031
                                      0.498
                                             0.484
                                                     4.8 1.26
## TerrorRev-
                 1200 0.443
                                      0.279
                                             0.283
                             0.3005
                                                     3.1 1.69
                 1198 0.187
## BrotherRev-
                             0.1267
                                      0.082
                                             0.064
                                                     3.9 1.71
##
## Non missing response frequency for each item
##
                    1
                         2
                              3
                                    4
                                         5
                                              6 miss
## Harmed
                 0.01 0.01 0.06 0.13 0.25 0.54 0.43
                 0.80 0.14 0.06 0.00 0.00 0.00 0.44
## Astrology
                 0.07 0.15 0.20 0.24 0.20 0.15 0.44
## Unnat
## Friend
                 0.15 0.16 0.19 0.20 0.18 0.13 0.44
                 0.03 0.07 0.17 0.30 0.27 0.16 0.44
## Duties
                 0.01 0.02 0.08 0.14 0.26 0.49 0.44
## Rights
## Group
                 0.10 0.15 0.22 0.24 0.19 0.10 0.44
## Disgust
                 0.13 0.27 0.26 0.18 0.11 0.05 0.44
```

```
## Loyalty
                0.06 0.15 0.22 0.27 0.18 0.12 0.44
                0.01 0.02 0.07 0.13 0.28 0.48 0.44
## Violence
## Desires
                0.06 0.15 0.25 0.26 0.18 0.10 0.44
## Profiting
                0.08 0.14 0.22 0.27 0.19 0.11 0.44
                0.45 0.24 0.15 0.09 0.04 0.03 0.44
## Attract
                0.12 0.20 0.23 0.19 0.15 0.12 0.44
## Decency
## Unfair
                0.01 0.03 0.08 0.23 0.32 0.33 0.44
## Interests
                0.04 0.10 0.21 0.30 0.21 0.13 0.44
## Weak
                0.03 0.04 0.14 0.25 0.28 0.26 0.44
                0.02 0.05 0.16 0.27 0.28 0.22 0.44
## Author
## Uplifting
                0.05 0.12 0.20 0.26 0.21 0.16 0.44
## Rank
                0.27 0.24 0.21 0.16 0.08 0.04 0.44
## Emotionally 0.02 0.07 0.15 0.26 0.26 0.24 0.44
                0.11 0.28 0.26 0.20 0.09 0.05 0.44
## Traditions
## Treated
                0.02 0.05 0.13 0.26 0.28 0.27 0.44
                0.05 0.15 0.28 0.25 0.15 0.11 0.44
## Betray
                0.06 0.16 0.23 0.27 0.17 0.11 0.44
## Respect
## Slap
                0.05 0.09 0.10 0.18 0.28 0.30 0.44
                0.09 0.17 0.14 0.25 0.24 0.11 0.44
## Heritage
## Chastity
                0.11 0.15 0.11 0.22 0.20 0.21 0.44
                0.21 0.17 0.13 0.18 0.17 0.13 0.44
## Romantic
## Revolting
                0.20 0.19 0.14 0.17 0.17 0.13 0.44
## Wellbeing
                0.25 0.23 0.17 0.20 0.10 0.06 0.44
## Compassion
                0.01 0.05 0.09 0.21 0.35 0.28 0.44
## Line
                0.07 0.11 0.10 0.21 0.28 0.24 0.44
## Kill
                0.16 0.16 0.15 0.09 0.21 0.23 0.44
                0.21 0.25 0.23 0.18 0.10 0.02 0.44
## Grouploy
## Govharm
                0.03 0.07 0.10 0.21 0.31 0.28 0.44
                0.24 0.18 0.11 0.24 0.13 0.09 0.44
## Sexroles
## Soldier
                0.14 0.16 0.15 0.20 0.23 0.13 0.44
## Sin
                0.46 0.18 0.10 0.14 0.07 0.04 0.44
                0.02 0.03 0.04 0.14 0.33 0.44 0.44
## Justice
## Wrongdisgust 0.24 0.20 0.13 0.19 0.17 0.08 0.44
## Fairly
                0.02 0.05 0.08 0.17 0.29 0.39 0.44
## Kidrespect
                0.03 0.05 0.05 0.21 0.32 0.33 0.44
                0.10 0.13 0.23 0.12 0.15 0.27 0.44
## TerrorRev
## BrotherRev
                0.24 0.19 0.18 0.15 0.10 0.13 0.44
```

Alpha Reliability - Relevance

RELIABILITY

/VARIABLES=Harmed Astrology Unnat Friend Duties Rights Group Disgust Loyalty Violence Desires Profiting Attract Decency Unfair Interests Weak Author Uplifting Rank Emotionally Traditions Treated Betray Respect Slap

```
Heritage Chastity Romantic Revolting Wellbeing Compassion Line Kill
  Grouploy Govharm Sexroles Soldier Sin Justice Wrongdisgust Fairly
  Kidrespect TerrorRev BrotherRev
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
Relevance <- s2 %>% select(c("Harmed", "Astrology", "Unnat", "Friend",
    "Duties", "Rights", "Group", "Disgust", "Loyalty", "Violence", "Desires",
    "Profiting", "Attract", "Decency", "Unfair", "Interests", "Weak", "Author",
    "Uplifting", "Rank", "Emotionally", "Traditions", "Treated", "Betray",
    "Respect"))
psych::alpha(Relevance)
##
## Reliability analysis
## Call: psych::alpha(x = Relevance)
##
##
     raw_alpha std.alpha G6(smc) average_r S/N
                                                   ase mean
                                                              sd median r
##
         0.86
                   0.86
                                     0.19
                                                                    0.17
                           0.88
                                             6 0.0044
                                                       3.8 0.64
##
    lower alpha upper
                          95% confidence boundaries
## 0.85 0.86 0.87
##
## Reliability if an item is dropped:
##
               raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r med.r
## Harmed
                    0.86
                              0.85
                                      0.88
                                                 0.20 5.8
                                                            0.0045 0.017
                                                                          0.18
                    0.86
                              0.86
                                                 0.21 6.2
                                                            0.0044 0.016
## Astrology
                                      0.89
                                                                          0.19
## Unnat
                    0.85
                              0.85
                                      0.88
                                                 0.19 5.7
                                                            0.0046 0.017
                                                                          0.17
## Friend
                                                 0.20 5.9
                    0.86
                              0.85
                                      0.88
                                                            0.0044 0.018
                                                                          0.18
## Duties
                    0.85
                              0.85
                                      0.88
                                                 0.19 5.8
                                                            0.0045 0.018
                                                                          0.17
## Rights
                    0.86
                              0.85
                                      0.88
                                                 0.20 5.8
                                                            0.0045 0.016
                                                                          0.18
## Group
                    0.85
                              0.85
                                      0.88
                                                 0.19 5.7
                                                            0.0046 0.018
                                                                          0.17
## Disgust
                    0.85
                              0.85
                                      0.88
                                                 0.19 5.6
                                                            0.0046 0.017
                                                                          0.17
                                                            0.0047 0.017
## Loyalty
                    0.85
                              0.85
                                      0.88
                                                 0.19 5.6
                                                                          0.17
## Violence
                                                 0.19 5.8
                    0.85
                              0.85
                                      0.88
                                                            0.0045 0.017
                                                                          0.17
## Desires
                    0.85
                              0.85
                                      0.88
                                                 0.19 5.7
                                                            0.0046 0.018
                                                                          0.16
## Profiting
                    0.86
                              0.85
                                      0.88
                                                 0.19 5.8
                                                            0.0045 0.018
                                                                          0.17
                                                 0.20 6.1
                                                            0.0043 0.016
## Attract
                    0.86
                              0.86
                                      0.88
                                                                          0.18
## Decency
                    0.85
                              0.85
                                                 0.19 5.7
                                                            0.0046 0.017
                                      0.88
                                                                          0.17
## Unfair
                                                 0.19 5.7
                    0.85
                              0.85
                                      0.88
                                                            0.0045 0.017
                                                                          0.17
## Interests
                    0.85
                              0.85
                                      0.88
                                                 0.19 5.7
                                                            0.0046 0.018
                                                                          0.16
## Weak
                                                 0.19 5.7
                                                            0.0046 0.017
                    0.85
                              0.85
                                      0.88
                                                                          0.17
## Author
                    0.85
                              0.85
                                      0.88
                                                 0.19 5.6
                                                            0.0046 0.017
                                                                          0.16
```

```
## Uplifting
                     0.85
                                0.85
                                        0.88
                                                   0.19 5.6
                                                               0.0046 0.018
                                                                              0.16
## Rank
                     0.86
                                0.86
                                         0.88
                                                   0.20 6.0
                                                               0.0044 0.018
                                                                              0.18
## Emotionally
                     0.85
                                0.85
                                         0.88
                                                   0.19 5.8
                                                               0.0045 0.017
                                                                              0.17
## Traditions
                     0.85
                                0.85
                                         0.88
                                                   0.19 5.7
                                                               0.0046 0.017
                                                                              0.17
                                                   0.19 5.8
## Treated
                     0.86
                                0.85
                                         0.88
                                                               0.0045 0.016
                                                                              0.18
                                                   0.19 5.5
                                                               0.0047 0.017
## Betray
                     0.85
                                0.85
                                         0.88
                                                                              0.16
                                                   0.19 5.7
                                                               0.0046 0.017
## Respect
                     0.85
                                0.85
                                         0.88
                                                                              0.17
##
    Item statistics
##
##
                   n raw.r std.r r.cor r.drop mean
## Harmed
                1209
                      0.42
                            0.44
                                   0.40
                                           0.35
                                                 5.2 1.11
## Astrology
                1206
                      0.16
                            0.19
                                   0.12
                                           0.12
                                                 1.3 0.56
## Unnat
                1206
                      0.51
                            0.50
                                   0.48
                                           0.44
                                                 3.8 1.47
## Friend
                1204
                      0.43
                            0.41
                                   0.37
                                           0.34
                                                 3.5 1.60
## Duties
                1202
                      0.46
                             0.46
                                   0.42
                                           0.39
                                                 4.2 1.27
                      0.41
## Rights
                1204
                             0.43
                                   0.41
                                           0.34
                                                 5.1 1.15
                      0.52
                            0.51
## Group
                1203
                                   0.48
                                           0.44
                                                 3.6 1.47
                                                 3.0 1.37
## Disgust
                1201
                      0.57
                             0.55
                                   0.54
                                           0.51
## Loyalty
                      0.59
                             0.58
                                   0.56
                                           0.53
                1202
                                                 3.7 1.40
## Violence
                1202
                      0.45
                             0.47
                                   0.45
                                           0.39
                                                 5.1 1.14
## Desires
                1202
                      0.53
                            0.52
                                           0.46
                                                 3.7 1.37
                                   0.49
## Profiting
                1201
                      0.44
                             0.44
                                   0.41
                                           0.36
                                                 3.7 1.42
                      0.30
                                           0.21
## Attract
                1202
                            0.28
                                   0.23
                                                 2.1 1.34
## Decency
                1201
                      0.52
                            0.50
                                   0.49
                                           0.45
                                                 3.4 1.54
## Unfair
                1201
                      0.47
                             0.49
                                   0.46
                                           0.41
                                                 4.8 1.15
                      0.54
                             0.54
                                           0.47
## Interests
                1200
                                   0.52
                                                 3.9 1.31
## Weak
                1198
                      0.52
                             0.54
                                   0.52
                                           0.46
                                                 4.5 1.27
## Author
                1196
                      0.57
                             0.58
                                   0.56
                                           0.51
                                                 4.4 1.25
## Uplifting
                1199
                      0.56
                            0.56
                                   0.53
                                           0.50
                                                 3.9 1.40
## Rank
                1196
                      0.34
                             0.34
                                   0.28
                                           0.26
                                                 2.7 1.43
## Emotionally 1198
                      0.46
                             0.47
                                   0.44
                                           0.39
                                                 4.4 1.31
## Traditions
                1200
                      0.53
                            0.52
                                   0.49
                                           0.46
                                                 3.0 1.33
                      0.44
                                           0.37
## Treated
                1200
                             0.46
                                   0.43
                                                 4.5 1.24
## Betray
                1199
                      0.63
                             0.62
                                   0.61
                                           0.58
                                                 3.6 1.34
                                   0.47
                      0.51
                                           0.44
                                                 3.7 1.39
## Respect
                1199
                             0.49
##
## Non missing response frequency for each item
##
                   1
                         2
                              3
                                   4
                                         5
                0.01 0.01 0.06 0.13 0.25 0.54 0.43
## Harmed
                0.80 0.14 0.06 0.00 0.00 0.00 0.44
## Astrology
## Unnat
                0.07 0.15 0.20 0.24 0.20 0.15 0.44
## Friend
                0.15 0.16 0.19 0.20 0.18 0.13 0.44
                0.03 0.07 0.17 0.30 0.27 0.16 0.44
## Duties
                0.01 0.02 0.08 0.14 0.26 0.49 0.44
## Rights
## Group
                0.10 0.15 0.22 0.24 0.19 0.10 0.44
```

```
## Disgust
              0.13 0.27 0.26 0.18 0.11 0.05 0.44
## Loyalty
              0.06 0.15 0.22 0.27 0.18 0.12 0.44
## Violence
              0.01 0.02 0.07 0.13 0.28 0.48 0.44
## Desires
              0.06 0.15 0.25 0.26 0.18 0.10 0.44
## Profiting
              0.08 0.14 0.22 0.27 0.19 0.11 0.44
## Attract
              0.45 0.24 0.15 0.09 0.04 0.03 0.44
## Decency
              0.12 0.20 0.23 0.19 0.15 0.12 0.44
## Unfair
              0.01 0.03 0.08 0.23 0.32 0.33 0.44
## Interests
              0.04 0.10 0.21 0.30 0.21 0.13 0.44
## Weak
              0.03 0.04 0.14 0.25 0.28 0.26 0.44
## Author
              0.02 0.05 0.16 0.27 0.28 0.22 0.44
## Uplifting
              0.05 0.12 0.20 0.26 0.21 0.16 0.44
## Rank
              0.27 0.24 0.21 0.16 0.08 0.04 0.44
## Emotionally 0.02 0.07 0.15 0.26 0.26 0.24 0.44
## Traditions 0.11 0.28 0.26 0.20 0.09 0.05 0.44
## Treated
              0.02 0.05 0.13 0.26 0.28 0.27 0.44
              0.05 0.15 0.28 0.25 0.15 0.11 0.44
## Betray
## Respect
              0.06 0.16 0.23 0.27 0.17 0.11 0.44
```

Alpha Reliability – Judgment

```
RELIABILITY
/VARIABLES=Slap Heritage Chastity Romantic Revolting Wellbeing Compassion
 Line Kill Grouploy Govharm Sexroles Soldier Sin Justice Wrongdisgust
 Fairly Kidrespect TerrorRev BrotherRev
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
Judgment <- s2 %>% select(c("Slap", "Heritage", "Chastity", "Romantic",
    "Revolting", "Wellbeing", "Compassion", "Line", "Kill", "Grouploy",
    "Govharm", "Sexroles", "Soldier", "Sin", "Justice", "Wrongdisgust",
    "Fairly", "Kidrespect", "TerrorRev", "BrotherRev"))
psych::alpha(Judgment, check.keys = TRUE)
## Warning in psych::alpha(Judgment, check.keys = TRUE): Some items were negatively corr
  This is indicated by a negative sign for the variable name.
##
## Reliability analysis
## Call: psych::alpha(x = Judgment, check.keys = TRUE)
##
##
     raw_alpha std.alpha G6(smc) average_r S/N
                                                  ase mean
                                                              sd median r
##
         0.75
                   0.75
                           0.78
                                     0.13
                                            3 0.0074 3.2 0.65
                                                                    0.12
```

```
##
##
    lower alpha upper
                           95% confidence boundaries
## 0.74 0.75 0.77
##
   Reliability if an item is dropped:
##
##
                 raw alpha std.alpha G6(smc) average r S/N alpha se var.r
## Slap-
                      0.76
                                 0.75
                                         0.79
                                                    0.14 3.0
                                                                0.0074 0.023
## Heritage
                      0.73
                                 0.73
                                         0.77
                                                    0.12 2.7
                                                                0.0081 0.023
## Chastity
                      0.73
                                 0.73
                                         0.77
                                                    0.12 2.6
                                                                0.0081 0.022
## Romantic
                      0.74
                                 0.74
                                         0.78
                                                    0.13 2.8
                                                                0.0077 0.025
## Revolting
                      0.73
                                 0.73
                                         0.77
                                                    0.12 2.7
                                                                0.0080 0.022
                                                    0.12 2.6
## Wellbeing
                      0.73
                                 0.73
                                         0.77
                                                                0.0081 0.023
## Compassion-
                      0.75
                                 0.75
                                         0.78
                                                    0.13 2.9
                                                                0.0075 0.023
                      0.76
                                 0.76
                                         0.79
                                                    0.14 3.2
## Line
                                                                0.0071 0.023
## Kill-
                                                    0.13 2.9
                      0.76
                                 0.75
                                         0.78
                                                                0.0073 0.023
## Grouploy
                      0.75
                                 0.75
                                         0.79
                                                    0.13 3.0
                                                                0.0075 0.024
## Govharm
                      0.76
                                 0.76
                                         0.79
                                                    0.14 3.2
                                                                0.0072 0.020
## Sexroles
                      0.73
                                 0.72
                                         0.76
                                                    0.12 2.6
                                                                0.0083 0.023
## Soldier
                      0.73
                                 0.73
                                         0.77
                                                    0.12 2.7
                                                                0.0081 0.023
## Sin
                      0.73
                                 0.73
                                         0.76
                                                    0.12 2.7
                                                                0.0081 0.022
                                 0.75
                                         0.78
                                                    0.13 2.9
## Justice-
                      0.75
                                                                0.0075 0.022
## Wrongdisgust
                                                    0.12 2.5
                      0.72
                                 0.72
                                         0.76
                                                                0.0084 0.021
## Fairly-
                                         0.78
                                                    0.13 2.9
                      0.75
                                 0.75
                                                                0.0075 0.022
## Kidrespect
                      0.73
                                 0.72
                                         0.76
                                                    0.12 2.6
                                                                0.0081 0.022
                                                    0.12 2.5
                                 0.72
                                         0.76
## TerrorRev-
                      0.72
                                                                0.0084 0.022
## BrotherRev-
                      0.77
                                 0.76
                                         0.79
                                                    0.14 3.1
                                                                0.0071 0.023
##
                 med.r
## Slap-
                  0.13
## Heritage
                  0.12
## Chastity
                  0.12
## Romantic
                  0.12
## Revolting
                  0.12
## Wellbeing
                  0.10
## Compassion-
                  0.13
## Line
                  0.14
## Kill-
                  0.13
## Grouploy
                  0.13
## Govharm
                  0.13
## Sexroles
                  0.10
## Soldier
                  0.11
## Sin
                  0.12
## Justice-
                  0.13
## Wrongdisgust
                  0.12
## Fairly-
                  0.13
## Kidrespect
                  0.12
```

```
## TerrorRev-
                 0.10
## BrotherRev-
                 0.13
##
##
    Item statistics
##
                   n raw.r std.r
                                     r.cor
                                            r.drop mean
                                            0.1277
                                                    2.5 1.5
## Slap-
                1203 0.242 0.250
                                   1.6e-01
## Heritage
                1202 0.538 0.536
                                   5.1e-01
                                            0.4468
                                                     3.7 1.5
## Chastity
                1195 0.567 0.552
                                   5.3e-01
                                            0.4692
                                                     3.9 1.7
## Romantic
                                   3.5e-01
                1201 0.427 0.415
                                            0.3088
                                                    3.3 1.7
## Revolting
                1198 0.535 0.521
                                   5.0e-01
                                            0.4280
                                                     3.3 1.7
## Wellbeing
                1196 0.548 0.552
                                   5.2e-01
                                            0.4570
                                                     2.9 1.5
## Compassion-
                1197 0.286 0.320
                                   2.6e-01
                                            0.1981
                                                     2.3 1.2
## Line
                1195 0.144 0.138
                                   3.4e-02
                                            0.0255
                                                     4.2 1.5
## Kill-
                1196 0.321 0.311
                                   2.4e-01
                                            0.1863
                                                     3.3 1.8
## Grouploy
                1197 0.284 0.294
                                   2.1e-01
                                            0.1825
                                                     2.8 1.4
                1197 0.098 0.095 -9.6e-05 -0.0084
                                                     4.5 1.4
## Govharm
                                                     3.1 1.7
## Sexroles
                1196 0.602 0.595
                                   5.8e-01
                                            0.5091
## Soldier
                1196 0.551 0.548
                                   5.2e-01
                                            0.4536
                                                     3.6 1.6
## Sin
                1196 0.552 0.546
                                   5.3e-01
                                            0.4598
                                                     2.3 1.5
## Justice-
                1197 0.280 0.317
                                   2.7e-01
                                            0.1952
                                                     2.0 1.2
## Wrongdisgust 1196 0.646 0.633
                                   6.4e-01
                                            0.5605
                                                    3.1 1.7
## Fairly-
                1193 0.284 0.310
                                   2.6e-01
                                            0.1879
                                                     2.2 1.3
## Kidrespect
                1196 0.568 0.571
                                   5.6e-01
                                            0.4958
                                                     4.8 1.3
## TerrorRev-
                1200 0.647 0.644
                                   6.4e-01
                                            0.5625
                                                     3.1 1.7
                1198 0.172 0.156
## BrotherRev-
                                   5.4e-02
                                            0.0401
                                                    3.9 1.7
##
## Non missing response frequency for each item
##
                         2
                              3
                                   4
                                        5
                   1
                                              6 miss
                0.05 0.09 0.10 0.18 0.28 0.30 0.44
## Slap
## Heritage
                0.09 0.17 0.14 0.25 0.24 0.11 0.44
## Chastity
                0.11 0.15 0.11 0.22 0.20 0.21 0.44
## Romantic
                0.21 0.17 0.13 0.18 0.17 0.13 0.44
                0.20 0.19 0.14 0.17 0.17 0.13 0.44
## Revolting
## Wellbeing
                0.25 0.23 0.17 0.20 0.10 0.06 0.44
                0.01 0.05 0.09 0.21 0.35 0.28 0.44
## Compassion
                0.07 0.11 0.10 0.21 0.28 0.24 0.44
## Line
## Kill
                0.16 0.16 0.15 0.09 0.21 0.23 0.44
## Grouploy
                0.21 0.25 0.23 0.18 0.10 0.02 0.44
## Govharm
                0.03 0.07 0.10 0.21 0.31 0.28 0.44
                0.24 0.18 0.11 0.24 0.13 0.09 0.44
## Sexroles
## Soldier
                0.14 0.16 0.15 0.20 0.23 0.13 0.44
## Sin
                0.46 0.18 0.10 0.14 0.07 0.04 0.44
                0.02 0.03 0.04 0.14 0.33 0.44 0.44
## Justice
## Wrongdisgust 0.24 0.20 0.13 0.19 0.17 0.08 0.44
## Fairly
                0.02 0.05 0.08 0.17 0.29 0.39 0.44
```

```
## Kidrespect 0.03 0.05 0.05 0.21 0.32 0.33 0.44

## TerrorRev 0.10 0.13 0.23 0.12 0.15 0.27 0.44

## BrotherRev 0.24 0.19 0.18 0.15 0.10 0.13 0.44
```

${\bf Alpha\ Reliability-Judgment\ Harm}$

```
RELIABILITY
/VARIABLES=Slap Govharm Kill Compassion
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
HarmJud <- s2 %>% select(c("Slap", "Govharm", "Kill", "Compassion"))
psych::alpha(HarmJud)
##
## Reliability analysis
## Call: psych::alpha(x = HarmJud)
##
     raw alpha std.alpha G6(smc) average r S/N
##
                                                 ase mean
                                                            sd median r
##
        0.49
                    0.5
                           0.43
                                      0.2
                                            1 0.017 4.4 0.93
                                                                  0.22
##
                         95% confidence boundaries
## lower alpha upper
## 0.46 0.49 0.53
##
## Reliability if an item is dropped:
##
             raw alpha std.alpha G6(smc) average r S/N alpha se
                                                                    var.r
## Slap
                   0.46
                             0.47
                                     0.38
                                               0.23 0.90
                                                            0.020 0.00034
                   0.44
                             0.45
                                     0.36
                                               0.21 0.82
## Govharm
                                                            0.020 0.00201
## Kill
                   0.37
                             0.38
                                     0.29
                                               0.17 0.61
                                                           0.024 0.00278
## Compassion
                            0.41
                                    0.32
                   0.41
                                               0.19 0.69
                                                            0.021 0.00370
##
             med.r
## Slap
              0.22
## Govharm
              0.23
## Kill
               0.16
## Compassion 0.22
##
## Item statistics
##
                 n raw.r std.r r.cor r.drop mean sd
             1203 0.60 0.60 0.35
                                       0.25 4.5 1.5
## Slap
## Govharm
              1197
                   0.59 0.62 0.38
                                       0.27 4.5 1.4
## Kill
             1196
                   0.74 0.67 0.49
                                       0.35 3.7 1.8
## Compassion 1197
                   0.59 0.65 0.45
                                       0.32 4.7 1.2
```

```
##
## Non missing response frequency for each item
##
                 1
                      2
                           3
                                4
                                     5
                                          6 miss
## Slap
              0.05 0.09 0.10 0.18 0.28 0.30 0.44
## Govharm
              0.03 0.07 0.10 0.21 0.31 0.28 0.44
## Kill
              0.16 0.16 0.15 0.09 0.21 0.23 0.44
## Compassion 0.01 0.05 0.09 0.21 0.35 0.28 0.44
Alpha Reliability – Harm
RELIABILITY
/VARIABLES=Slap Govharm Kill Compassion Harmed Emotionally Weak Violence
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
Harm <- s2 %>% select(c("Slap", "Govharm", "Kill", "Compassion", "Harmed",
    "Emotionally", "Weak", "Violence"))
psych::alpha(Harm)
##
## Reliability analysis
## Call: psych::alpha(x = Harm)
##
##
     raw alpha std.alpha G6(smc) average r S/N
                                                              sd median r
                                                  ase mean
                   0.72
                                     0.24 2.6 0.0097 4.6 0.88
##
          0.7
                           0.71
                                                                    0.22
##
## lower alpha upper
                          95% confidence boundaries
## 0.68 0.7 0.72
##
## Reliability if an item is dropped:
##
               raw alpha std.alpha G6(smc) average r S/N alpha se var.r
## Slap
                    0.70
                              0.72
                                      0.70
                                                0.27 2.6
                                                           0.0098 0.0082
```

Govharm 0.69 0.71 0.70 0.26 2.5 0.0101 0.0100 ## Kill 0.69 0.70 0.68 0.25 2.3 0.0104 0.0117 ## Compassion 0.67 0.69 0.68 0.24 2.3 0.0108 0.0111 ## Harmed 0.23 2.1 0.66 0.68 0.66 0.0110 0.0068 ## Emotionally 0.65 0.67 0.65 0.22 2.0 0.0115 0.0074 ## Weak 0.24 2.2 0.0108 0.0080 0.67 0.69 0.67 ## Violence 0.67 0.65 0.22 2.0 0.0113 0.0076 0.66

med.r ## Slap 0.23 ## Govharm 0.23

```
## Kill
               0.22
               0.21
## Compassion
## Harmed
               0.22
## Emotionally 0.22
## Weak
               0.22
## Violence
               0.21
##
##
   Item statistics
##
                 n raw.r std.r r.cor r.drop mean sd
              1203 0.54 0.46 0.32
                                       0.27 4.5 1.5
## Slap
## Govharm
              1197 0.52 0.49 0.36
                                       0.31 4.5 1.4
## Kill
              1196 0.67 0.55 0.44
                                      0.37 3.7 1.8
## Compassion 1197 0.58 0.58 0.48
                                       0.41 4.7 1.2
## Harmed
              1209 0.66 0.63 0.57
                                       0.46 5.2 1.1
## Emotionally 1198 0.70 0.67 0.62
                                       0.51 4.4 1.3
              1198 0.63 0.60 0.52
                                       0.41 4.5 1.3
## Weak
## Violence
              1202 0.67 0.66 0.61
                                       0.50 5.1 1.1
##
## Non missing response frequency for each item
                      2
                                4
                                     5
##
                 1
                           3
                                          6 miss
              0.05 0.09 0.10 0.18 0.28 0.30 0.44
## Slap
## Govharm
              0.03 0.07 0.10 0.21 0.31 0.28 0.44
## Kill
              0.16 0.16 0.15 0.09 0.21 0.23 0.44
## Compassion 0.01 0.05 0.09 0.21 0.35 0.28 0.44
## Harmed
              0.01 0.01 0.06 0.13 0.25 0.54 0.43
## Emotionally 0.02 0.07 0.15 0.26 0.26 0.24 0.44
## Weak
              0.03 0.04 0.14 0.25 0.28 0.26 0.44
## Violence
              0.01 0.02 0.07 0.13 0.28 0.48 0.44
```

Alpha Reliability – Relevance Harm

```
RELIABILITY
/VARIABLES=Harmed Emotionally Weak Violence
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
HarmRel <- s2 %>% select(c("Harmed", "Emotionally", "Weak", "Violence"))
psych::alpha(HarmRel)

##
## Reliability analysis
## Call: psych::alpha(x = HarmRel)
```

```
##
##
     raw alpha std.alpha G6(smc) average r S/N ase mean
                                                           sd median r
##
        0.71
                   0.72
                           0.66
                                     0.39 2.5 0.01 4.8 0.89
                                                                  0.4
##
                         95% confidence boundaries
  lower alpha upper
## 0.69 0.71 0.73
##
## Reliability if an item is dropped:
##
              raw alpha std.alpha G6(smc) average r S/N alpha se
                    0.64
                              0.64
                                      0.55
                                                0.37 1.8
## Harmed
                                                            0.013 0.00252
## Emotionally
                    0.63
                              0.64
                                      0.55
                                                0.37 1.8
                                                            0.014 0.00562
## Weak
                                               0.43 2.2
                    0.69
                              0.69
                                      0.60
                                                            0.012 0.00061
## Violence
                              0.65
                                      0.55
                                               0.38 1.8
                    0.65
                                                            0.013 0.00146
##
              med.r
                0.39
## Harmed
## Emotionally 0.34
## Weak
                0.41
## Violence
               0.39
##
##
  Item statistics
                  n raw.r std.r r.cor r.drop mean sd
##
## Harmed
               1209 0.74 0.75 0.63
                                       0.53 5.2 1.1
## Emotionally 1198 0.77 0.75 0.63
                                       0.53 4.4 1.3
## Weak
               1198 0.71 0.69 0.52
                                       0.45 4.5 1.3
## Violence
               1202 0.73 0.74 0.61
                                       0.51 5.1 1.1
## Non missing response frequency for each item
                       2
                                 4
                                      5
##
                  1
                            3
              0.01 0.01 0.06 0.13 0.25 0.54 0.43
## Harmed
## Emotionally 0.02 0.07 0.15 0.26 0.26 0.24 0.44
## Weak
              0.03 0.04 0.14 0.25 0.28 0.26 0.44
              0.01 0.02 0.07 0.13 0.28 0.48 0.44
## Violence
Alpha Reliability – Relevance Fairness
RELIABILITY
/VARIABLES=Rights Profiting Unfair Treated
/SCALE('ALL VARIABLES')
```

ALL/MODEL=ALPHA

/STATISTICS=DESCRIPTIVE SCALE

/SUMMARY=TOTAL.

```
FairnessRel <- s2 %>% select(c("Rights", "Profiting", "Unfair", "Treated"))
psych::alpha(FairnessRel)
```

```
##
## Reliability analysis
## Call: psych::alpha(x = FairnessRel)
##
    raw alpha std.alpha G6(smc) average r S/N
                                                           sd median r
##
                                                ase mean
                                    0.38 2.5 0.011 4.5 0.91
                  0.71
##
         0.7
                          0.66
                                                                 0.38
##
## lower alpha upper
                         95% confidence boundaries
## 0.68 0.7 0.72
##
## Reliability if an item is dropped:
            raw alpha std.alpha G6(smc) average r S/N alpha se var.r med.r
##
                 0.62
                           0.63
                                             0.36 1.7
## Rights
                                   0.53
                                                         0.014 0.0018 0.37
                 0.71
                           0.71
                                             0.45 2.5
                                                         0.011 0.0036
## Profiting
                                   0.63
                                                                       0.45
## Unfair
                 0.64
                                             0.38 1.8
                           0.65
                                   0.57
                                                        0.014 0.0167 0.37
## Treated
                 0.59
                           0.60
                                   0.52
                                             0.34 1.5
                                                        0.015 0.0095 0.31
##
## Item statistics
##
               n raw.r std.r r.cor r.drop mean sd
## Rights
            1204 0.74 0.76 0.65
                                     0.53 5.1 1.2
## Profiting 1201 0.70 0.66 0.46
                                     0.39 3.7 1.4
## Unfair
            1201 0.72 0.73 0.59
                                     0.50 4.8 1.2
## Treated
            1200 0.78 0.78 0.68
                                     0.56 4.5 1.2
##
## Non missing response frequency for each item
##
               1
                    2
                         3
                              4
                                   5
                                        6 miss
## Rights
            0.01 0.02 0.08 0.14 0.26 0.49 0.44
## Profiting 0.08 0.14 0.22 0.27 0.19 0.11 0.44
            0.01 0.03 0.08 0.23 0.32 0.33 0.44
## Unfair
## Treated
            0.02 0.05 0.13 0.26 0.28 0.27 0.44
```

Alpha Reliability – Fairness

```
##
## Reliability analysis
## Call: psych::alpha(x = Fairness)
##
##
     raw alpha std.alpha G6(smc) average r S/N ase mean
                                                            sd median r
##
         0.69
                   0.71
                           0.72
                                     0.24 2.5 0.01 4.5 0.84
                                                                  0.26
##
  lower alpha upper
                          95% confidence boundaries
## 0.67 0.69 0.71
##
## Reliability if an item is dropped:
             raw alpha std.alpha G6(smc) average_r S/N alpha se var.r med.r
##
                                               0.21 1.9
## Rights
                  0.63
                            0.66
                                    0.65
                                                          0.0125 0.018
                                                                        0.19
                  0.67
                                               0.25 2.3
## Profiting
                            0.70
                                    0.70
                                                          0.0111 0.023
                                                                        0.26
## Unfair
                  0.64
                            0.67
                                    0.67
                                               0.22 2.0
                                                          0.0120 0.022
                                                                        0.19
                                               0.21 1.8
## Treated
                  0.61
                            0.64
                                    0.64
                                                          0.0130 0.018
                                                                        0.19
                                               0.23 2.1
## Fairly
                  0.64
                            0.68
                                    0.67
                                                          0.0119 0.020
                                                                        0.26
## Justice
                  0.65
                            0.68
                                    0.67
                                               0.23 2.1
                                                          0.0118 0.020
                                                                       0.26
## Line
                  0.73
                            0.74
                                    0.74
                                               0.29 2.9
                                                          0.0092 0.013
                                                                        0.28
                                               0.26 2.5
## TerrorRev
                  0.69
                            0.71
                                    0.71
                                                          0.0102 0.022 0.27
##
##
   Item statistics
##
                n raw.r std.r r.cor r.drop mean sd
## Rights
             1204 0.69 0.69
                               0.65
                                      0.54 5.1 1.2
## Profiting 1201 0.62 0.53
                               0.41
                                      0.34
                                            3.7 1.4
## Unfair
             1201 0.67 0.65
                                      0.48
                                            4.8 1.2
                               0.58
## Treated
             1200 0.74 0.73
                               0.70
                                      0.59
                                            4.5 1.2
## Fairly
             1193 0.64 0.62
                               0.56
                                      0.44
                                            4.8 1.3
## Justice
             1197 0.61
                               0.55
                         0.61
                                      0.44
                                            5.0 1.2
## Line
             1195
                                            4.2 1.5
                   0.42
                         0.32
                               0.14
                                      0.11
## TerrorRev 1200 0.58
                         0.47
                               0.32
                                      0.27
                                            3.9 1.7
## Non missing response frequency for each item
                     2
                          3
##
                1
                               4
                                    5
             0.01 0.02 0.08 0.14 0.26 0.49 0.44
## Rights
## Profiting 0.08 0.14 0.22 0.27 0.19 0.11 0.44
## Unfair
             0.01 0.03 0.08 0.23 0.32 0.33 0.44
## Treated
             0.02 0.05 0.13 0.26 0.28 0.27 0.44
## Fairly
             0.02 0.05 0.08 0.17 0.29 0.39 0.44
## Justice
             0.02 0.03 0.04 0.14 0.33 0.44 0.44
             0.07 0.11 0.10 0.21 0.28 0.24 0.44
## Line
## TerrorRev 0.10 0.13 0.23 0.12 0.15 0.27 0.44
```

Alpha Reliability – Judgment Fairness

```
RELIABILITY
/VARIABLES=Fairly Justice Line TerrorRev
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
FairnessJud <- s2 %>% select(c("Fairly", "Justice", "Line", "TerrorRev"))
psych::alpha(FairnessJud)
##
## Reliability analysis
## Call: psych::alpha(x = FairnessJud)
##
##
    raw_alpha std.alpha G6(smc) average_r S/N
                                                 ase mean
                                                            sd median r
##
        0.39
                  0.44
                          0.43
                                    0.16 0.78 0.022 4.5 0.85
                                                                  0.11
##
## lower alpha upper
                         95% confidence boundaries
## 0.35 0.39 0.44
##
## Reliability if an item is dropped:
            raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r med.r
##
## Fairly
                 0.18
                           0.20
                                   0.15
                                            0.078 0.25
                                                          0.030 0.0071 0.052
## Justice
                 0.20
                           0.21
                                   0.17
                                            0.083 0.27
                                                          0.030 0.0092 0.048
## Line
                 0.51
                           0.55
                                          0.290 1.23
                                   0.49
                                                          0.019 0.0349 0.192
                                         0.202 0.76
## TerrorRev
                 0.39
                           0.43
                                   0.41
                                                          0.024 0.0692 0.052
##
## Item statistics
##
               n raw.r std.r r.cor r.drop mean sd
## Fairly
            1193 0.67 0.71 0.636 0.360 4.8 1.3
## Justice
            1197 0.64 0.71 0.623 0.362 5.0 1.2
## Line
            1195 0.49 0.45 0.071 0.046 4.2 1.5
## TerrorRev 1200 0.64 0.56 0.263 0.172 3.9 1.7
##
## Non missing response frequency for each item
                    2
                         3
                              4
                                   5
## Fairly
            0.02 0.05 0.08 0.17 0.29 0.39 0.44
            0.02 0.03 0.04 0.14 0.33 0.44 0.44
## Justice
            0.07 0.11 0.10 0.21 0.28 0.24 0.44
## Line
## TerrorRev 0.10 0.13 0.23 0.12 0.15 0.27 0.44
```

Alpha Reliability – Judgment Fairness minus terror

```
RELIABILITY
/VARIABLES=Fairly Justice Line
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
FairnessJud <- s2 %>% select(c("Fairly", "Justice", "Line"))
psych::alpha(FairnessJud)
##
## Reliability analysis
## Call: psych::alpha(x = FairnessJud)
##
##
    raw_alpha std.alpha G6(smc) average_r S/N
                                                 ase mean
                                                            sd median r
##
        0.39
                  0.43
                          0.41
                                     0.2 0.76 0.024 4.7 0.89
                                                                 0.052
##
## lower alpha upper
                         95% confidence boundaries
## 0.34 0.39 0.44
##
## Reliability if an item is dropped:
          raw alpha std.alpha G6(smc) average r S/N alpha se var.r med.r
##
## Fairly
              0.095
                        0.098
                                0.052
                                          0.052 0.11
                                                        0.038
                                                                 NA 0.052
## Justice
              0.090
                        0.091
                                0.048
                                          0.048 0.10
                                                        0.039
                                                                 NA 0.048
## Line
              0.669
                        0.671
                                0.505
                                          0.505 2.04
                                                        0.014
                                                                NA 0.505
##
## Item statistics
             n raw.r std.r r.cor r.drop mean sd
##
## Fairly 1193 0.72 0.76 0.616 0.335 4.8 1.3
## Justice 1197 0.70 0.76 0.619 0.357
                                         5.0 1.2
## Line
          1195 0.62 0.54 0.078 0.057 4.2 1.5
## Non missing response frequency for each item
                  2
                       3
                            4
##
              1
                                 5
                                      6 miss
## Fairly 0.02 0.05 0.08 0.17 0.29 0.39 0.44
## Justice 0.02 0.03 0.04 0.14 0.33 0.44 0.44
## Line
          0.07 0.11 0.10 0.21 0.28 0.24 0.44
```

Alpha Reliability - Relevance In-group

```
RELIABILITY
/VARIABLES=Betray Interests Loyalty Group Friend
```

```
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
IngroupRel <- s2 %>% select(c("Betray", "Interests", "Loyalty", "Group",
    "Friend"))
psych::alpha(IngroupRel)
##
## Reliability analysis
## Call: psych::alpha(x = IngroupRel)
##
##
    raw alpha std.alpha G6(smc) average r S/N
                                                            sd median r
                                                 ase mean
        0.71
                  0.71
                          0.69
                                    0.33 2.5 0.0099 3.7 0.97
##
                                                                  0.34
##
   lower alpha upper
                         95% confidence boundaries
## 0.69 0.71 0.73
##
## Reliability if an item is dropped:
            raw alpha std.alpha G6(smc) average_r S/N alpha se var.r med.r
##
## Betray
                 0.62
                           0.62
                                   0.57
                                             0.29 1.6
                                                         0.013 0.012 0.31
## Interests
                 0.71
                           0.72
                                             0.39 2.5
                                                         0.010 0.008 0.38
                                   0.67
## Loyalty
                 0.64
                           0.64
                                   0.60
                                             0.31 1.8
                                                         0.013 0.015 0.33
## Group
                 0.65
                           0.65
                                   0.61
                                             0.32 1.9
                                                         0.013 0.017 0.31
## Friend
                 0.69
                           0.70
                                   0.65
                                             0.36 2.3
                                                         0.011 0.011 0.37
##
##
   Item statistics
##
               n raw.r std.r r.cor r.drop mean sd
## Betray
            1199 0.74 0.76 0.69
                                     0.57
                                           3.6 1.3
## Interests 1200 0.57 0.59 0.42
                                     0.34 3.9 1.3
## Loyalty
            1202 0.72 0.73 0.64
                                     0.54
                                           3.7 1.4
## Group
            1203 0.72 0.71 0.60
                                     0.51
                                           3.6 1.5
## Friend
            1204 0.66 0.63 0.48
                                     0.40 3.5 1.6
##
## Non missing response frequency for each item
##
                    2
                         3
                1
                              4
                                   5
                                         6 miss
## Betray
            0.05 0.15 0.28 0.25 0.15 0.11 0.44
## Interests 0.04 0.10 0.21 0.30 0.21 0.13 0.44
## Loyalty
            0.06 0.15 0.22 0.27 0.18 0.12 0.44
## Group
            0.10 0.15 0.22 0.24 0.19 0.10 0.44
## Friend
            0.15 0.16 0.19 0.20 0.18 0.13 0.44
```

Alpha Reliability – In-group

```
RELIABILITY
/VARIABLES=Betray Interests Loyalty Group Friend BrotherRev Romantic
 Wellbeing Grouploy
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
Ingroup <- s2 %>% select(c("Betray", "Interests", "Loyalty", "Group", "Friend",
    "BrotherRev", "Romantic", "Wellbeing", "Grouploy"))
psych::alpha(Ingroup)
## Reliability analysis
## Call: psych::alpha(x = Ingroup)
##
##
    raw alpha std.alpha G6(smc) average r S/N
                                                ase mean sd median r
##
        0.59
                  0.61
                          0.63
                                    0.15 1.6 0.013 3.4 0.9
                                                                 0.1
##
## lower alpha upper
                         95% confidence boundaries
## 0.56 0.59 0.62
##
##
  Reliability if an item is dropped:
##
             raw alpha std.alpha G6(smc) average r S/N alpha se var.r med.r
                  0.50
                            0.52
                                    0.53
                                              0.12 1.1
## Betray
                                                          0.016 0.016 0.090
                                              0.16 1.5
## Interests
                  0.58
                            0.60
                                    0.61
                                                          0.014 0.021 0.093
## Loyalty
                            0.52
                                    0.54
                                              0.12 1.1
                                                          0.016 0.018 0.090
                  0.50
## Group
                            0.54
                                    0.56
                                              0.13 1.2
                                                          0.016 0.020 0.093
                  0.52
## Friend
                  0.54
                            0.56
                                 0.58
                                              0.14 1.3
                                                          0.015 0.022 0.090
## BrotherRev
                  0.61
                            0.63
                                    0.64
                                              0.18 1.7
                                                          0.013 0.024 0.126
## Romantic
                  0.62
                            0.63
                                 0.65
                                              0.18 1.7
                                                          0.012 0.024 0.126
## Wellbeing
                  0.60
                            0.62
                                    0.64
                                              0.17 1.7
                                                          0.013 0.025 0.125
                  0.57
                            0.59
                                    0.61
                                              0.15 1.4
                                                          0.014 0.027 0.093
## Grouploy
##
## Item statistics
##
                n raw.r std.r r.cor r.drop mean sd
## Betray
             1199
                   0.68 0.68 0.68 0.510 3.6 1.3
## Interests 1200 0.48 0.44 0.33 0.218 3.9 1.3
## Loyalty
             1202 0.67
                        0.68 0.67 0.510 3.7 1.4
## Group
             1203 0.65 0.62 0.58 0.439 3.6 1.5
             1204 0.61 0.55 0.49 0.366 3.5 1.6
## Friend
                   0.42 0.32 0.14 0.106 3.1 1.7
## BrotherRev 1198
## Romantic
             1201
                   0.48 0.32 0.13 0.095 3.3 1.7
```

```
## Wellbeing 1196 0.45 0.34 0.16 0.132 2.9 1.5
## Grouploy
              1197 0.49 0.47 0.35 0.265 2.8 1.4
##
## Non missing response frequency for each item
                                4
                                    5
##
                 1
                      2
                           3
                                          6 miss
## Betray
             0.05 0.15 0.28 0.25 0.15 0.11 0.44
## Interests 0.04 0.10 0.21 0.30 0.21 0.13 0.44
## Loyalty
             0.06 0.15 0.22 0.27 0.18 0.12 0.44
## Group
             0.10 0.15 0.22 0.24 0.19 0.10 0.44
## Friend
             0.15 0.16 0.19 0.20 0.18 0.13 0.44
## BrotherRev 0.24 0.19 0.18 0.15 0.10 0.13 0.44
## Romantic 0.21 0.17 0.13 0.18 0.17 0.13 0.44
## Wellbeing 0.25 0.23 0.17 0.20 0.10 0.06 0.44
## Grouploy
             0.21 0.25 0.23 0.18 0.10 0.02 0.44
Alpha Reliability – Judgment In-group
RELIABILITY
/VARIABLES=BrotherRev Romantic Wellbeing Grouploy
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
IngroupJud <- s2 %>% select(c("BrotherRev", "Romantic", "Wellbeing", "Grouploy"))
psych::alpha(IngroupJud)
##
## Reliability analysis
## Call: psych::alpha(x = IngroupJud)
##
##
     raw_alpha std.alpha G6(smc) average_r S/N
                                                            sd median r
                                                 ase mean
##
        0.24
                  0.25
                          0.21
                                   0.076 0.33 0.027
                                                                 0.071
                                                       3 0.88
##
    lower alpha upper
                         95% confidence boundaries
```

raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r

0.126 0.43

0.064 0.21

0.051 0.16

0.063 0.20

0.026 0.0016

0.032 0.0034

0.033 0.0014

0.031 0.0081

0.227

0.125

0.099

0.129

30

Reliability if an item is dropped:

0.30

0.16

0.13

0.16

med.r

0.30

0.17

0.14

0.17

0.19 0.24 0.29

BrotherRev

Romantic

Grouploy

Wellbeing

##

##

##

```
## BrotherRev 0.126
## Romantic 0.055
## Wellbeing 0.055
## Grouploy
             0.011
##
## Item statistics
                n raw.r std.r r.cor r.drop mean sd
## BrotherRev 1198 0.52 0.49 0.08 0.037 3.1 1.7
## Romantic 1201
                  0.61 0.57 0.30 0.139 3.3 1.7
## Wellbeing 1196 0.57 0.59 0.34 0.164 2.9 1.5
## Grouploy 1197 0.51 0.57 0.29 0.143 2.8 1.4
##
## Non missing response frequency for each item
                     2
                              4
                1
                         3
                                   5
                                        6 miss
## BrotherRev 0.24 0.19 0.18 0.15 0.10 0.13 0.44
## Romantic 0.21 0.17 0.13 0.18 0.17 0.13 0.44
## Wellbeing 0.25 0.23 0.17 0.20 0.10 0.06 0.44
## Grouploy 0.21 0.25 0.23 0.18 0.10 0.02 0.44
```

Alpha Reliability – Judgment In-group minus brother

```
RELIABILITY
/VARIABLES=Romantic Wellbeing Grouploy
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
IngroupJud <- s2 %>% select(c("Romantic", "Wellbeing", "Grouploy"))
psych::alpha(IngroupJud)
##
## Reliability analysis
## Call: psych::alpha(x = IngroupJud)
##
     raw alpha std.alpha G6(smc) average_r S/N
##
                                                  ase mean sd median_r
##
          0.3
                    0.3
                           0.23
                                     0.13 0.43 0.026
                                                        3 1
                                                                 0.13
##
   lower alpha upper
                          95% confidence boundaries
## 0.25 0.3 0.35
##
## Reliability if an item is dropped:
##
             raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r med.r
                  0.22
                            0.22
                                   0.126
                                             0.126 0.29
## Romantic
                                                           0.033
                                                                    NA 0.126
```

```
0.086
## Wellbeing
                 0.15
                           0.16
                                            0.086 0.19
                                                          0.036
                                                                   NA 0.086
                 0.28
                           0.29
                                  0.167
                                            0.167 0.40
                                                          0.031
                                                                   NA 0.167
## Grouploy
##
## Item statistics
               n raw.r std.r r.cor r.drop mean sd
##
## Romantic 1201 0.70 0.65 0.31
                                     0.17 3.3 1.7
## Wellbeing 1196 0.66 0.67
                              0.36
                                     0.20 2.9 1.5
## Grouploy 1197 0.57 0.63 0.25
                                     0.14 2.8 1.4
##
## Non missing response frequency for each item
                1
                    2
                         3
                              4
                                   5
## Romantic 0.21 0.17 0.13 0.18 0.17 0.13 0.44
## Wellbeing 0.25 0.23 0.17 0.20 0.10 0.06 0.44
## Grouploy 0.21 0.25 0.23 0.18 0.10 0.02 0.44
Alpha Reliability – Relevance Authority
RELIABILITY
/VARIABLES=Author Duties Traditions Respect Rank
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
AuthorityRel <- s2 %>% select(c("Author", "Duties", "Traditions", "Respect",
    "Rank"))
psych::alpha(AuthorityRel)
##
## Reliability analysis
## Call: psych::alpha(x = AuthorityRel)
##
     raw alpha std.alpha G6(smc) average r S/N
##
                                                ase mean
                                                           sd median r
                                    0.26 1.8 0.012 3.6 0.86
##
        0.64
                  0.64
                          0.61
##
   lower alpha upper
                         95% confidence boundaries
## 0.61 0.64 0.66
##
## Reliability if an item is dropped:
             raw alpha std.alpha G6(smc) average r S/N alpha se var.r med.r
##
## Author
                  0.60
                            0.61
                                    0.56
                                              0.28 1.5
                                                          0.014 0.0206
                                                                        0.24
## Duties
                  0.57
                            0.57
                                    0.53
                                              0.25 1.4
                                                          0.015 0.0164
                                                                        0.21
## Traditions
                  0.55
                            0.56
                                    0.50
                                              0.24 1.3
                                                          0.016 0.0102 0.22
```

0.47

0.22 1.1

0.017 0.0042 0.21

0.53

0.53

Respect

```
0.67 0.67 0.61
## Rank
                                              0.33 2.0 0.012 0.0093 0.30
##
##
   Item statistics
##
                n raw.r std.r r.cor r.drop mean sd
                                      0.36 4.4 1.2
## Author
             1196 0.60 0.62 0.44
                                      0.42 4.2 1.3
## Duties
             1202
                   0.65
                        0.66 0.53
## Traditions 1200 0.69
                        0.69 0.59
                                      0.47 3.0 1.3
## Respect
             1199
                   0.73
                         0.72 0.66
                                      0.51 3.7 1.4
## Rank
             1196 0.54 0.51 0.28
                                      0.23 2.7 1.4
##
## Non missing response frequency for each item
                      2
                               4
                                    5
##
                 1
                           3
                                         6 miss
## Author
             0.02 0.05 0.16 0.27 0.28 0.22 0.44
             0.03 0.07 0.17 0.30 0.27 0.16 0.44
## Duties
## Traditions 0.11 0.28 0.26 0.20 0.09 0.05 0.44
             0.06 0.16 0.23 0.27 0.17 0.11 0.44
## Respect
## Rank
             0.27 0.24 0.21 0.16 0.08 0.04 0.44
Alpha Reliability – Authority
RELIABILITY
/VARIABLES=Author Duties Traditions Respect Rank Sexroles Soldier
  Heritage Kidrespect
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
Authority <- s2 %>% select(c("Author", "Duties", "Traditions", "Respect",
    "Rank", "Sexroles", "Soldier", "Heritage", "Kidrespect"))
psych::alpha(Authority)
##
## Reliability analysis
## Call: psych::alpha(x = Authority)
##
##
     raw alpha std.alpha G6(smc) average r S/N
                                                 ase mean
                                                            sd median r
        0.73
                  0.73
##
                          0.74
                                    0.23 2.7 0.0088
                                                     3.7 0.91
                                                                  0.23
##
## lower alpha upper
                         95% confidence boundaries
## 0.71 0.73 0.74
##
## Reliability if an item is dropped:
```

raw alpha std.alpha G6(smc) average r S/N alpha se var.r med.r

##

```
0.0090 0.019
                                                                        0.28
## Author
                   0.72
                             0.73
                                     0.73
                                               0.25 2.7
                   0.70
                             0.71
                                     0.71
                                               0.23 2.4
                                                                        0.23
## Duties
                                                          0.0096 0.021
## Traditions
                   0.68
                             0.69
                                     0.69
                                               0.22 2.2
                                                          0.0104 0.018
                                                                        0.21
## Respect
                   0.66
                             0.67
                                     0.67
                                               0.20 2.0
                                                          0.0109 0.014
                                                                        0.20
## Rank
                   0.74
                             0.75
                                     0.75
                                               0.27 3.0
                                                          0.0083 0.015
                                                                        0.29
## Sexroles
                                               0.25 2.6
                   0.72
                             0.72
                                     0.73
                                                          0.0092 0.019
                                                                        0.25
## Soldier
                   0.71
                             0.72
                                     0.72
                                               0.24 2.5
                                                          0.0094 0.018
                                                                        0.23
## Heritage
                   0.69
                             0.70
                                     0.70
                                               0.23 2.3
                                                          0.0101 0.017
                                                                        0.22
                                               0.22 2.2
## Kidrespect
                   0.68
                             0.69
                                     0.69
                                                          0.0103 0.016
                                                                        0.21
##
##
   Item statistics
##
                 n raw.r std.r r.cor r.drop mean sd
                          0.46 0.33
                                       0.27
## Author
              1196 0.51
                                             4.4 1.2
## Duties
                    0.59
                          0.57 0.49
                                       0.41 4.2 1.3
              1202
                          0.67 0.63
## Traditions 1200
                    0.67
                                       0.53 3.0 1.3
## Respect
              1199
                    0.73
                         0.74 0.73
                                       0.61 3.7 1.4
## Rank
              1196
                    0.44
                         0.35 0.20
                                       0.16 2.7 1.4
## Sexroles
              1196 0.61
                          0.50 0.39
                                       0.34 3.1 1.7
## Soldier
              1196
                    0.62
                         0.53 0.43
                                       0.37 3.6 1.6
## Heritage
              1202
                    0.66
                          0.61 0.55
                                       0.46 3.7 1.5
## Kidrespect 1196
                    0.66
                          0.66 0.62
                                       0.53
                                            4.8 1.3
##
## Non missing response frequency for each item
##
                      2
                           3
                                4
                                     5
                                          6 miss
              0.02 0.05 0.16 0.27 0.28 0.22 0.44
## Author
## Duties
              0.03 0.07 0.17 0.30 0.27 0.16 0.44
## Traditions 0.11 0.28 0.26 0.20 0.09 0.05 0.44
## Respect
              0.06 0.16 0.23 0.27 0.17 0.11 0.44
## Rank
              0.27 0.24 0.21 0.16 0.08 0.04 0.44
## Sexroles
              0.24 0.18 0.11 0.24 0.13 0.09 0.44
## Soldier
              0.14 0.16 0.15 0.20 0.23 0.13 0.44
              0.09 0.17 0.14 0.25 0.24 0.11 0.44
## Heritage
## Kidrespect 0.03 0.05 0.05 0.21 0.32 0.33 0.44
```

Alpha Reliability – Judgment Authority

RELIABILITY
/VARIABLES=Sexroles Soldier Heritage Kidrespect
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.

```
AuthorityJud <- s2 %>% select(c("Sexroles", "Soldier", "Heritage", "Kidrespect"))
psych::alpha(AuthorityJud)
##
## Reliability analysis
## Call: psych::alpha(x = AuthorityJud)
##
##
     raw_alpha std.alpha G6(smc) average_r S/N
                                                  ase mean sd median r
##
         0.64
                   0.65
                                      0.32 1.8 0.013 3.8 1.1
                                                                   0.3
                           0.58
##
##
    lower alpha upper
                          95% confidence boundaries
## 0.61 0.64 0.66
##
   Reliability if an item is dropped:
##
##
              raw alpha std.alpha G6(smc) average r S/N alpha se
                                                                    var.r
                   0.59
                             0.60
## Sexroles
                                      0.51
                                                0.34 1.5
                                                            0.015 0.00346
## Soldier
                   0.58
                             0.59
                                      0.49
                                                0.32 1.4
                                                            0.016 0.00173
## Heritage
                   0.58
                             0.59
                                      0.49
                                                0.32 1.4
                                                            0.016 0.00205
## Kidrespect
                             0.54
                                      0.44
                                                0.28 1.2
                   0.54
                                                            0.017 0.00015
##
              med.r
## Sexroles
               0.37
## Soldier
               0.30
## Heritage
               0.30
## Kidrespect
               0.29
##
##
   Item statistics
##
                 n raw.r std.r r.cor r.drop mean
                                       0.39
## Sexroles
              1196
                   0.70
                         0.67 0.49
                                              3.1 1.7
## Soldier
              1196
                    0.71
                          0.69 0.52
                                        0.41
                                             3.6 1.6
                    0.69
                          0.69 0.52
                                        0.41
## Heritage
              1202
                                              3.7 1.5
## Kidrespect 1196
                    0.69
                          0.73 0.60
                                        0.48
                                             4.8 1.3
##
## Non missing response frequency for each item
                      2
                           3
                                      5
              0.24 0.18 0.11 0.24 0.13 0.09 0.44
## Sexroles
## Soldier
              0.14 0.16 0.15 0.20 0.23 0.13 0.44
## Heritage
              0.09 0.17 0.14 0.25 0.24 0.11 0.44
```

Alpha Reliability - Relevance Purity

Kidrespect 0.03 0.05 0.05 0.21 0.32 0.33 0.44

Note: In the Purity relevance scale calculations, the variable *Disgust* refers to a question that was not reported in the original paper

```
RELIABILITY
/VARIABLES=Disgust Decency Desires Uplifting Unnat
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
PurityRel <- s2 %>% select(c("Disgust", "Decency", "Desires", "Uplifting",
    "Unnat"))
psych::alpha(PurityRel)
##
## Reliability analysis
## Call: psych::alpha(x = PurityRel)
##
##
    raw alpha std.alpha G6(smc) average r S/N
                                                 ase mean sd median r
        0.76
                  0.76
                                    0.39 3.2 0.0081 3.6 1
##
                          0.73
                                                                0.35
##
## lower alpha upper
                         95% confidence boundaries
## 0.75 0.76 0.78
##
## Reliability if an item is dropped:
##
            raw alpha std.alpha G6(smc) average r S/N alpha se var.r med.r
## Disgust
                 0.69
                           0.69
                                   0.63
                                             0.36 2.2
                                                        0.0109 0.0052
                                                                       0.34
## Decency
                 0.70
                           0.70
                                   0.65
                                             0.36 2.3
                                                        0.0108 0.0114 0.34
## Desires
                 0.74
                           0.74
                                   0.70
                                             0.41 2.8
                                                        0.0092 0.0168 0.42
## Uplifting
                 0.76
                           0.76
                                   0.71
                                             0.44 3.1
                                                        0.0085 0.0097 0.44
## Unnat
                 0.70
                           0.70
                                             0.37 2.3
                                   0.65
                                                        0.0105 0.0074 0.35
##
##
  Item statistics
##
               n raw.r std.r r.cor r.drop mean sd
## Disgust
            1201 0.77 0.77 0.71
                                     0.61 3.0 1.4
## Decency
            1201 0.77 0.76
                              0.68
                                     0.59 3.4 1.5
## Desires
            1202 0.66 0.67
                              0.53
                                     0.47
                                           3.7 1.4
## Uplifting 1199 0.62 0.63
                              0.47
                                     0.41
                                           3.9 1.4
## Unnat
            1206 0.75 0.75 0.67
                                     0.57 3.8 1.5
##
## Non missing response frequency for each item
##
                1
                    2
                          3
                              4
                                   5
                                        6 miss
## Disgust
            0.13 0.27 0.26 0.18 0.11 0.05 0.44
## Decency
            0.12 0.20 0.23 0.19 0.15 0.12 0.44
## Desires
            0.06 0.15 0.25 0.26 0.18 0.10 0.44
## Uplifting 0.05 0.12 0.20 0.26 0.21 0.16 0.44
## Unnat 0.07 0.15 0.20 0.24 0.20 0.15 0.44
```

Alpha Reliability – Purity

```
RELIABILITY
/VARIABLES=Disgust Decency Desires Uplifting Unnat Chastity Sin
  Wrongdisgust Revolting
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
Purity <- s2 %>% select(c("Disgust", "Decency", "Desires", "Uplifting",
    "Unnat", "Chastity", "Sin", "Wrongdisgust", "Revolting"))
psych::alpha(Purity)
## Reliability analysis
## Call: psych::alpha(x = Purity)
##
##
     raw alpha std.alpha G6(smc) average r S/N
                                                   ase mean sd median r
                   0.83
##
         0.83
                           0.83
                                      0.35 4.8 0.0055 3.4 1.1
                                                                   0.35
##
## lower alpha upper
                          95% confidence boundaries
## 0.82 0.83 0.84
##
## Reliability if an item is dropped:
##
                raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r
                     0.80
                                0.80
                                                  0.33 4.0
## Disgust
                                        0.80
                                                             0.0064 0.013
                     0.79
                               0.79
                                        0.79
                                                  0.32 3.8
## Decency
                                                             0.0067 0.014
## Desires
                     0.83
                                                  0.37 4.7
                               0.83
                                        0.82
                                                             0.0056 0.013
## Uplifting
                     0.83
                                        0.83
                                                  0.38 4.9
                                                             0.0055 0.012
                               0.83
## Unnat
                     0.81
                               0.80
                                       0.80
                                                  0.34 4.1
                                                             0.0063 0.014
## Chastity
                     0.82
                               0.82
                                        0.82
                                                  0.36 4.5
                                                             0.0058 0.015
## Sin
                     0.81
                               0.81
                                        0.81
                                                  0.35 4.4
                                                             0.0061 0.015
## Wrongdisgust
                     0.80
                               0.80
                                        0.80
                                                  0.34 4.1
                                                             0.0065 0.011
## Revolting
                               0.81
                                        0.81
                                                  0.35 4.3
                                                             0.0061 0.014
                     0.81
##
                med.r
## Disgust
                 0.34
## Decency
                 0.31
## Desires
                 0.40
## Uplifting
                 0.40
## Unnat
                 0.35
## Chastity
                 0.37
                 0.35
## Sin
                 0.34
## Wrongdisgust
## Revolting
                 0.34
```

```
##
                  n raw.r std.r r.cor r.drop mean sd
## Disgust
               1201 0.74 0.73 0.70
                                       0.63 3.0 1.4
## Decency
               1201 0.76 0.77 0.75
                                       0.69 3.4 1.5
## Desires
               1202 0.59 0.54 0.45
                                       0.40 3.7 1.4
## Uplifting
              1199 0.55 0.51 0.40
                                       0.35 3.9 1.4
## Unnat
               1206 0.72 0.70
                                0.66
                                        0.59 3.8 1.5
## Chastity
               1195 0.65 0.59 0.51
                                       0.47 3.9 1.7
               1196 0.69 0.63 0.57
                                       0.52 2.3 1.5
## Sin
## Wrongdisgust 1196 0.76
                           0.72 0.69
                                        0.62 3.1 1.7
## Revolting
               1198 0.69 0.66 0.60
                                       0.55 3.3 1.7
## Non missing response frequency for each item
                       2
##
                  1
                            3
                                 4
                                      5
## Disgust
               0.13 0.27 0.26 0.18 0.11 0.05 0.44
## Decency
              0.12 0.20 0.23 0.19 0.15 0.12 0.44
## Desires
             0.06 0.15 0.25 0.26 0.18 0.10 0.44
## Uplifting
              0.05 0.12 0.20 0.26 0.21 0.16 0.44
              0.07 0.15 0.20 0.24 0.20 0.15 0.44
## Unnat
## Chastity
              0.11 0.15 0.11 0.22 0.20 0.21 0.44
## Sin
               0.46 0.18 0.10 0.14 0.07 0.04 0.44
## Wrongdisgust 0.24 0.20 0.13 0.19 0.17 0.08 0.44
## Revolting
               0.20 0.19 0.14 0.17 0.17 0.13 0.44
Alpha Reliability – Judgment Purity
RELIABILITY
/VARIABLES=Chastity Sin Wrongdisgust Revolting
/SCALE('ALL VARIABLES')
ALL/MODEL=ALPHA
/STATISTICS=DESCRIPTIVE SCALE
/SUMMARY=TOTAL.
PurityJud <- s2 %>% select(c("Chastity", "Sin", "Wrongdisgust", "Revolting"))
psych::alpha(PurityJud)
##
## Reliability analysis
## Call: psych::alpha(x = PurityJud)
##
##
    raw_alpha std.alpha G6(smc) average_r S/N
                                                ase mean sd median r
                                   0.41 2.8 0.0093 3.1 1.2
##
        0.74
                  0.74
                          0.68
                                                                0.41
```

##

##

Item statistics

```
## lower alpha upper 95% confidence boundaries
## 0.72 0.74 0.75
##
## Reliability if an item is dropped:
               raw alpha std.alpha G6(smc) average r S/N alpha se var.r
##
## Chastity
                    0.72
                              0.72
                                      0.63
                                                0.46 2.6
                                                            0.011 0.0026
## Sin
                    0.67
                              0.67
                                      0.59
                                                0.40 2.0
                                                            0.012 0.0090
                                                0.36 1.7
## Wrongdisgust
                    0.63
                              0.63
                                      0.54
                                                            0.014 0.0024
## Revolting
                    0.69
                              0.69
                                      0.60
                                                0.42 2.2
                                                            0.012 0.0027
##
               med.r
## Chastity
                0.48
## Sin
                0.41
## Wrongdisgust 0.38
## Revolting
                0.41
##
## Item statistics
##
                  n raw.r std.r r.cor r.drop mean sd
## Chastity
               1195 0.70 0.70 0.53
                                        0.46 3.9 1.7
## Sin
               1196 0.74 0.76 0.63
                                        0.54 2.3 1.5
## Wrongdisgust 1196 0.80 0.80 0.71
                                        0.61 3.1 1.7
## Revolting
               1198 0.75 0.74 0.60
                                        0.51 3.3 1.7
##
## Non missing response frequency for each item
                       2
                            3
                                 4
                                      5
               0.11 0.15 0.11 0.22 0.20 0.21 0.44
## Chastity
## Sin
               0.46 0.18 0.10 0.14 0.07 0.04 0.44
## Wrongdisgust 0.24 0.20 0.13 0.19 0.17 0.08 0.44
## Revolting
               0.20 0.19 0.14 0.17 0.17 0.13 0.44
```

Correlation between foundation sub scale averages

CORRELATIONS

/VARIABLES=HarmRel RecRel InRel HyRel PurRel HarmSt RecSt InSt HySt PurSt /PRINT=TWOTAIL NOSIG

```
/MISSING=PAIRWISE.
```

```
## HarmRel RecRel InRel HyRel PurRel ## HarmRel 1.00000000 0.64976599 0.31616816 0.24764826 0.2744038 ## RecRel 0.64976599 1.00000000 0.29412488 0.26405458 0.1865184 ## InRel 0.31616816 0.29412488 1.00000000 0.52483446 0.5137495
```

```
## HyRel
         0.24764826 0.26405458 0.52483446 1.00000000 0.5276993
## PurRel
         1.0000000
## HarmSt
         0.42581076 \quad 0.39306777 \quad 0.12436531 \quad 0.05270075 \quad 0.1230615
## RecSt
         ## InSt
        -0.17179003 -0.22179588 0.20003054 0.10422874 0.1435643
        -0.10633347 -0.18022434 0.26134306 0.41686076 0.3704208
## HySt
## PurSt -0.03516021 -0.08963299 0.28918555 0.36771296 0.5893147
##
             HarmSt
                        RecSt
                                  InSt
                                           HySt
                                                    PurSt
## HarmRel 0.42581076 0.33780842 -0.1717900 -0.1063335 -0.03516021
## RecRel
         ## InRel
         0.12436531 -0.06632827 0.2000305 0.2613431 0.28918555
## HyRel
         0.05270075 -0.05537820 0.1042287 0.4168608 0.36771296
## PurRel
         0.12306152 -0.12389955 0.1435643 0.3704208 0.58931469
## HarmSt
         1.00000000 0.38441502 -0.1769042 -0.1193447 0.04445856
## RecSt 0.38441502 1.00000000 -0.3072186 -0.2590003 -0.26625529
## InSt
        -0.17690418 - 0.30721864  1.0000000  0.3614733  0.24329348
## HySt
         -0.11934472 -0.25900031
                             0.3614733 1.0000000 0.59188056
## PurSt 0.04445856 -0.26625529 0.2432935 0.5918806 1.00000000
```

Correlation of Difference score and politics

```
CORRELATIONS
/VARIABLES=HFminusIAP politics
/PRINT=TWOTAIL NOSIG
/MISSING=PAIRWISE.

cor(s2$HFminusIAP_Avg, s2$politics, method = "pearson", use = "complete.obs")
## [1] -0.5709203
```

Indiv (HandF renamed to HFAvg) and Binding (IandAandP to IAPAvg) paired t-test

```
T-TEST

PAIRS = HandF WITH IandAandP (PAIRED)

/CRITERIA = CI(.95)

/MISSING = ANALYSIS.

t.test(s2$HFAvg, s2$IAPAvg, paired = TRUE)

##

## Paired t-test

##

## data: s2$HFAvg and s2$IAPAvg
```

```
## t = 42.908, df = 1755, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 1.021606 1.119474
## sample estimates:
## mean of the differences
## 1.07054</pre>
```

One sample t-test of diff score (HFminusIAP_Avg)

```
T-TEST
/TESTVAL = 0
/MISSING = ANALYSIS
/VARIABLES = HFminusIAP
/CRITERIA = CI(.95).
t.test(s2$HFminusIAP Avg)
##
##
   One Sample t-test
## data: s2$HFminusIAP Avg
## t = 42.908, df = 1755, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1.021606 1.119474
## sample estimates:
## mean of x
##
     1.07054
```

Oneway Summary variables by gender

ONEWAY

HarmAvg RecAvg InAvg HyAvg PurAvg politri BY gender /MISSING ANALYSIS.

377 observations deleted due to missingness

```
summary(aov(RecAvg ~ gender, data = s2)) #Fairness
##
                Df Sum Sq Mean Sq F value Pr(>F)
                                   45.66 1.91e-11 ***
## gender
                     31.5 31.464
              1749 1205.3
## Residuals
                           0.689
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## 384 observations deleted due to missingness
summary(aov(InAvg ~ gender, data = s2)) #Ingroup
##
                Df Sum Sq Mean Sq F value Pr(>F)
## gender
                        3 3.0454
                                   3.757 0.0527 .
                 1
## Residuals
              1750
                     1418 0.8105
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## 383 observations deleted due to missingness
summary(aov(HyAvg ~ gender, data = s2)) #Authority
##
                Df Sum Sq Mean Sq F value Pr(>F)
                 1
                      2.2 2.2013
                                   2.669 0.102
## gender
              1750 1443.1 0.8246
## Residuals
## 383 observations deleted due to missingness
summary(aov(PurAvg ~ gender, data = s2)) #Purity
##
                Df Sum Sq Mean Sq F value Pr(>F)
                     10.7 10.718
                                   8.837 0.00299 **
## gender
## Residuals
              1751 2123.7
                            1.213
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## 382 observations deleted due to missingness
summary(aov(politri ~ gender, data = s2)) #Politics
##
                Df Sum Sq Mean Sq F value
                                           Pr(>F)
                     30.4 30.434
                                  47.06 8.97e-12 ***
## gender
              2131 1378.0
## Residuals
                            0.647
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## 2 observations deleted due to missingness
```

T-test group by gender for foundation averages

T-TEST

```
GROUPS = gender(-1 1)
/MISSING = ANALYSIS
/VARIABLES = HarmAvg RecAvg InAvg HyAvg PurAvg politri
/CRITERIA = CI(.95).
t.test(HarmAvg ~ gender, data = s2)
                                     #Harm
##
## Welch Two Sample t-test
##
## data: HarmAvg by gender
## t = -11.655, df = 1210.8, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.5899288 -0.4199391
## sample estimates:
## mean in group -1 mean in group 1
##
           3.259120
                            3.764054
t.test(RecAvg ~ gender, data = s2) #Fairness
##
##
   Welch Two Sample t-test
## data: RecAvg by gender
## t = -6.5063, df = 1235.8, p-value = 1.116e-10
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.3595876 -0.1929712
## sample estimates:
## mean in group -1 mean in group 1
           3.338793
                            3.615072
##
t.test(InAvg ~ gender, data = s2) #Ingroup
##
## Welch Two Sample t-test
##
## data: InAvg by gender
## t = 1.9132, df = 1342.5, p-value = 0.05594
\#\# alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.002180462 0.174057307
## sample estimates:
## mean in group -1 mean in group 1
##
           2.402774
                            2.316835
```

```
t.test(HyAvg ~ gender, data = s2) #Authority
##
## Welch Two Sample t-test
##
## data: HyAvg by gender
## t = 1.6001, df = 1308.3, p-value = 0.1098
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.01651548 0.16264375
## sample estimates:
## mean in group -1 mean in group 1
##
           2.744679
                            2.671615
t.test(PurAvg ~ gender, data = s2) #Purity
##
## Welch Two Sample t-test
##
## data: PurAvg by gender
## t = -2.9624, df = 1387.9, p-value = 0.003104
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.26785676 -0.05443767
## sample estimates:
## mean in group -1 mean in group 1
           2.263271
                            2.424418
##
t.test(politri ~ gender, data = s2) #Politics
##
## Welch Two Sample t-test
##
## data: politri by gender
## t = 6.6992, df = 1534.3, p-value = 2.934e-11
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 0.1749308 0.3197826
## sample estimates:
## mean in group -1 mean in group 1
##
         -0.1569620
                          -0.4043187
```

ANCOVA foundation averages by politics with gender

Note: Conducted as 5 different analyses of covariances with politics as main and gender as covariate

```
ANCOVA HarmAvg RecAvg InAvg HyAvg PurAvg BY politics WITH gender
/METHOD = SSTYPE(3)
/INTERCEPT = INCLUDE
/CRITERIA = ALPHA(.05)
/DESIGN = gender politics.
summary(aov(HarmAvg ~ politics * gender, data = s2))
##
                    Df Sum Sq Mean Sq F value Pr(>F)
                         99.1
                                99.07 148.047 <2e-16 ***
## politics
## gender
                     1
                         78.2
                                78.20 116.865 <2e-16 ***
## politics:gender
                     1
                          0.9
                                0.91
                                        1.363 0.243
## Residuals
                  1754 1173.7
                                 0.67
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## 377 observations deleted due to missingness
summary(aov(RecAvg ~ politics * gender, data = s2)) #Fairness
                    Df Sum Sq Mean Sq F value
## politics
                     1 172.2 172.15 286.038 < 2e-16 ***
## gender
                     1
                         13.2
                                13.17 21.888 3.11e-06 ***
## politics:gender
                     1
                          0.0
                                 0.01
                                        0.011
                                                0.916
## Residuals
                  1747 1051.4
                                 0.60
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## 384 observations deleted due to missingness
summary(aov(InAvg ~ politics * gender, data = s2)) #Ingroup
##
                    Df Sum Sq Mean Sq F value
## politics
                         33.5
                                33.47 42.174 1.09e-10 ***
## gender
                          0.7
                                 0.74
                     1
                                        0.933
                                                0.334
## politics:gender
                          0.0
                                 0.01
                                        0.015
                                                0.903
                     1
## Residuals
                  1748 1387.2
                                 0.79
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## 383 observations deleted due to missingness
summary(aov(HyAvg ~ politics * gender, data = s2)) #Authority
                    Df Sum Sq Mean Sq F value Pr(>F)
##
                     1 238.9 238.88 346.359 <2e-16 ***
## politics
```

```
## gender
                               0.84
                                     1.214 0.271
                        0.8
                    1
## politics:gender
                        0.1
                               0.05
                                     0.077 0.781
                    1
## Residuals
              1748 1205.6
                               0.69
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## 383 observations deleted due to missingness
summary(aov(PurAvg ~ politics * gender, data = s2)) #Purity
##
                   Df Sum Sq Mean Sq F value
                                            Pr(>F)
## politics
                      358.3
                              358.3 361.138 < 2e-16 ***
                               39.6 39.876 3.42e-10 ***
## gender
                    1
                       39.6
## politics:gender
                        1.5
                               1.5
                                     1.517 0.218
                    1
## Residuals 1749 1735.1
                               1.0
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## 382 observations deleted due to missingness
```