APPENDIX

Log of analysis

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View(my.df)

Missing Values and rescaling

GINCDIF (Redistribution)

```
table(my.df$gincdif)
##
           2
                3
                          5
   610 1107 309 264
attributes(my.df$gincdif)
## $label
## [1] "Government should reduce differences in income levels"
##
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 9
##
## $labels
##
               Agree strongly
                                                    Agree
##
## Neither agree nor disagree
                                                 Disagree
##
                                                        4
##
            Disagree strongly
                                                  Refusal
##
##
                   Don't know
                                                No answer
##
```

```
attributes(my.df$atchctr)
## $label
## [1] "How emotionally attached to [country]"
## $format.spss
## [1] "F2.0"
##
## $display_width
## [1] 9
##
## $labels
## Not at all emotionally attached
                                                               1
##
                                                               1
                                2
                                                               3
##
##
                                2
                                                               3
##
                                4
                                                               5
##
                                                               5
                                4
##
                                                               7
                                6
##
                                                               7
                                6
##
                                8
                                                               9
##
                                8
                                                               9
##
                                                         Refusal
        Very emotionally attached
##
##
                       Don't know
                                                       No answer
##
my.df <- my.df %>% mutate(atchctr_m = ifelse(atchctr == 77 | atchctr == 88 | atchctr == 99, NA, atchctr]
table(my.df$atchctr_m, useNA = "ifany")
##
     0
               2
                    3
                                       7
##
                              5
                                   6
                                          8
                                                 9
                                                    10 <NA>
##
     25
         18
              45
                   72
                        78 172 189 350 588 333 480
class(my.df$atchctr_m)
## [1] "numeric"
PPLTRST, PPLFAIR, PPLHLP (Interpersonal trust)
table(my.df$ppltrst)
##
       1 2 3 4 5 6 7 8
##
                                      9 10
## 85 43 120 238 228 462 314 458 311 53 46
```

attributes(my.df\$ppltrst)

```
## $label
## [1] "Most people can be trusted or you can't be too careful"
## $format.spss
## [1] "F2.0"
##
## $display_width
## [1] 9
##
## $labels
##
   You can't be too careful
                                                     1
##
                           0
                                                     1
##
                           2
                                                     3
##
                           2
                                                     3
##
                           4
                                                     5
##
                           4
                                                     5
##
                           6
                                                     7
##
                           6
                                                     7
##
                           8
                                                     9
##
                           8
## Most people can be trusted
                                               Refusal
##
                          10
##
                  Don't know
                                             No answer
##
my.df <- my.df %>% mutate(ppltrst_m = ifelse(ppltrst == 77 | ppltrst == 88 | ppltrst == 99, NA, ppltrst)
table(my.df$ppltrst_m, useNA = "ifany")
##
    0 1 2 3
                   4 5 6 7
                                   8
##
## 85 43 120 238 228 462 314 458 311 53 46
class(my.df$ppltrst_m)
## [1] "numeric"
table(my.df$pplfair)
##
            2
                3 4 5 6 7 8 9 10
##
       1
   31 20 60 153 165 459 274 504 454 150 87
attributes(my.df$pplfair)
## $label
## [1] "Most people try to take advantage of you, or try to be fair"
## $format.spss
## [1] "F2.0"
##
## $display_width
```

```
## [1] 9
##
## $labels
\mbox{\tt \#\#} Most people try to take advantage of me
                                                                                  1
##
                                                                                  1
##
                                          2
                                                                                  3
##
                                          2
                                                                                  3
##
                                          4
                                                                                  5
##
                                          4
                                                                                  5
##
                                          6
                                                                                  7
##
                                          6
                                                                                  7
##
                                         8
                                                                                  9
##
                                                                                  9
##
                Most people try to be fair
                                                                            Refusal
##
##
                                Don't know
                                                                          No answer
##
my.df <- my.df %>% mutate(pplfair_m = ifelse(pplfair == 77 | pplfair == 88 | pplfair == 99, NA, pplfair)
table(my.df$pplfair_m, useNA = "ifany")
##
##
      0
                2
                     3
                          4
                                    6
                                         7
                                               8
                                                    9
                                                        10 <NA>
           1
                               5
##
     31
          20
               60 153
                       165 459 274 504 454 150
                                                        87
class(my.df$pplfair_m)
## [1] "numeric"
table(my.df$pplhlp)
##
##
       1 2 3 4 5 6 7 8
                                       9
                                           10
   37 25 111 245 264 566 329 403 268 57 50
attributes(my.df$pplhlp)
## $label
## [1] "Most of the time people helpful or mostly looking out for themselves"
## $format.spss
## [1] "F2.0"
##
## $labels
## People mostly look out for themselves
                                                                              1
##
                                                                              1
                                       2
##
                                                                              3
                                       2
##
                                                                              3
                                       4
                                                                              5
##
                                       4
                                                                              5
##
                                       6
                                                                              7
##
```

```
##
                                                                            7
                                       6
##
                                       8
                                                                            9
##
                                                                            9
                                       8
##
        People mostly try to be helpful
                                                                       Refusal
##
                                                                            77
##
                             Don't know
                                                                     No answer
##
                                     88
                                                                            99
my.df <- my.df %>% mutate(pplhlp_m = ifelse(pplhlp == 77 | pplhlp == 88 | pplhlp == 99, NA, pplhlp))
table(my.df$pplhlp m, useNA = "ifany")
##
##
     0
               2
                     3
                          4
                               5
                                    6
                                        7
                                              8
                                                   9
                                                       10 <NA>
##
     37
                  245
                       264
                             566
                                 329
                                      403
                                           268
                                                       50
class(my.df$pplhlp_m)
## [1] "numeric"
my.df <- my.df %>% mutate(inter_trust = (ppltrst_m + pplfair_m + pplhlp_m) / 3)
table(my.df$inter_trust, useNA = "ifany")
##
##
                   0 0.66666666666667
                                                         1.333333333333333
##
                                     6
   1.6666666666667
                                       2.333333333333333
                                                          2.6666666666667
##
                                    16
                                                      28
                 15
##
                  3
                    4
##
                 48
                                   68
                                                                       102
##
   4.33333333333333
                    4.6666666666667
                                                      5
                                                          5.33333333333333
##
                 118
                                   114
                                                     194
##
   5.6666666666667
                                    6
                                      6.33333333333333
                                                          6.666666666667
##
                 168
                                   186
                                                     188
                                                                       205
##
                  7
                     7.33333333333333
                                      7.6666666666667
                                                                        8
##
                 159
                                   170
                                                     104
                                                                        71
##
   8.33333333333333
                     8.6666666666667
                                                      9
                                                         9.33333333333333
##
                 48
                                   19
                                                      15
##
   9.666666666667
                                    10
                                                    <NA>
##
                  2
                                    11
                                                       4
```

TRSTPRL, TRSTPLT, TRSTEP (Trust in government)

```
##
## 0 1 2 3 4 5 6 7 8 9 10
## 134 73 161 254 258 396 301 320 281 88 61
```

```
attributes(my.df$trstprl)
## $label
## [1] "Trust in country's parliament"
##
## $format.spss
## [1] "F2.0"
##
## $display_width
## [1] 9
##
## $labels
## No trust at all
                                              2
                                                              3
                                                                             4
                               1
##
               0
                                              2
                                                              3
                                                                             4
                               1
##
                5
                               6
                                              7
                                                              8
                                                                             9
##
                5
                               6
                                              7
                                                              8
                                                                             9
## Complete trust
                         Refusal
                                     Don't know
                                                      No answer
##
               10
                              77
                                             88
my.df <- my.df %>% mutate(trstprl_m = ifelse(trstprl == 77 | trstprl == 88 | trstprl == 99, NA, trstprl]
table(my.df$trstprl_m, useNA = "ifany")
##
##
                                       7
                                                    10 <NA>
     0
               2
                    3
                        4
                             5
                                  6
                                          8
                                              9
          1
        73 161 254 258 396 301 320 281
                                                    61 31
## 134
                                               88
class(my.df$trstprl_m)
## [1] "numeric"
table(my.df$trstplt)
##
   0 1 2 3 4 5 6 7 8 9 10
##
## 239 129 244 362 345 431 255 218 84 14 18
attributes(my.df$trstplt)
## $label
## [1] "Trust in politicians"
## $format.spss
## [1] "F2.0"
##
## $display_width
## [1] 9
##
## $labels
                            1
## No trust at all
                                              2
                                                             3
                                                                             4
                               1
                                              2
                                                              3
##
```

```
##
                 5
                                 6
                                                 7
                                                                                 9
                                                                 8
##
                 5
                                 6
                                                 7
                                                                 8
                                                                                 9
                                        Don't know
##
                           Refusal
    Complete trust
                                                         No answer
##
                10
                                77
                                                88
                                                                99
my.df <- my.df %>% mutate(trstplt_m = ifelse(trstplt == 77 | trstplt == 88 | trstplt == 99, NA, trstplt)
table(my.df$trstplt_m, useNA = "ifany")
##
                                         7
##
      0
                2
                     3
                               5
                                    6
                                              8
                                                   9
                                                       10 <NA>
           1
                          4
   239 129 244 362 345 431 255
                                       218
##
                                                       18
                                             84
                                                  14
                                                            19
class(my.df$trstplt_m)
## [1] "numeric"
table(my.df$trstep)
##
    0
       1
            2
                 3
                    4
                         5
                            6
                               7
                                     8
                                         9
                                            10
## 186 101 158 296 283 440 296 267 171 52 27
attributes(my.df$trstep)
## $label
## [1] "Trust in the European Parliament"
##
## $format.spss
## [1] "F2.0"
##
## $labels
## No trust at all
                                                 2
                                                                                 4
                                 1
                                                                 3
                                                                                 4
##
                 0
                                 1
                                                                 3
                 5
                                                 7
                                                                 8
                                                                                 9
##
                                 6
                 5
                                 6
                                                 7
                                                                 8
                                                                                 9
##
##
   Complete trust
                           Refusal
                                        Don't know
                                                         No answer
##
                                                88
                10
my.df <- my.df %>% mutate(trust_EU_gov = ifelse(trstep == 77 | trstep == 88 | trstep == 99, NA, trstep)
table(my.df$trust_EU_gov, useNA = "ifany")
##
##
      0
          1
                2
                     3
                          4
                               5
                                    6
                                         7
                                              8
                                                   9
                                                       10 <NA>
   186 101 158 296 283 440 296 267 171
                                                  52
                                                       27
                                                            81
class(my.df$trust_EU_gov)
```

[1] "numeric"

```
table(my.df$gov_trust, useNA = "ifany")
##
##
     0 0.5
             1 1.5
                        2 2.5
                                 3 3.5
                                        4 4.5
                                                  5 5.5
                                                             6 6.5
                                                                     7 7.5
   105
             68 73 100 111 173 149 169 180 241 171 185 171 155 107
##
        35
     8 8.5
             9 9.5
                      10 <NA>
##
    65
        32
             16
                   5
                            38
                        9
HINCTNTA (Household income)
table(my.df$hinctnta)
              4 5 6
                          7 8
          3
## 139 163 160 207 200 218 223 256 231 291
attributes(my.df$hinctnta)
## $label
## [1] "Household's total net income, all sources"
## $format.spss
## [1] "F2.0"
##
## $display_width
## [1] 10
##
## $labels
## J - 1st decile R - 2nd decile C - 3rd decile M - 4th decile F - 5th decile
##
                              2
                                                            4
              1
                                            3
## S - 6th decile K - 7th decile P - 8th decile D - 9th decile H - 10th decile
##
              6
                              7
                                             8
                                                                          10
##
          Refusal
                      Don't know
                                      No answer
##
my.df <- my.df %>% mutate(hinctnta_m = ifelse(hinctnta == 77 | hinctnta == 88 | hinctnta == 99, NA, hinc
table(my.df$hinctnta_m, useNA = "ifany")
##
                                 7
##
              3
                   4
                        5
                             6
                                      8
                                          9
                                             10 <NA>
## 139 163 160 207 200 218 223 256 231 291 270
class(my.df$hinctnta_m)
## [1] "numeric"
```

my.df <- my.df %>% mutate(gov_trust = (trstprl_m + trstplt_m) / 2)

YRBRN (year of birht, age)

```
table(my.df$yrbrn)
##
## 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943
##
     9
               5
                     6
                       15
                                                             27
                                                                  35
                                                                       22
                                                                            25
          4
                              10
                                    6 13
                                              14
                                                 15
                                                        13
## 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959
                              35
                                                        38
          23
               30
                    26
                         26
                                                   42
                                                                            48
                                    45
                                        51
                                              37
                                                             64
                                                                  45
                                                                       39
## 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975
                                                   35
##
     40
          42
               38
                                                        38
                                                                       37
                    51
                         46
                              48
                                    42
                                        41
                                              44
                                                             44
                                                                  32
                                                                            31
## 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991
                    32
                         29
                                        30
                                                   28
                                                        37
                                                             26
                                                                  34
                                                                       37
                                                                             37
                                                                                 21
     24
          28
               24
                              29
                                   30
                                              36
## 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003
##
     25
          36
               24
                    36
                         41
                              30
                                   27
                                        39
                                              29
                                                   32
                                                        40
                                                             17
attributes(my.df$yrbrn)
## $label
## [1] "Year of birth"
## $format.spss
## [1] "F4.0"
##
## $display_width
## [1] 7
##
## $labels
##
     Refusal Don't know No answer
##
                    8888
                              9999
        7777
my.df <- my.df %>% mutate(yrbrn_m = ifelse(yrbrn == 7777 | yrbrn == 8888 | yrbrn == 9999, NA, yrbrn))
table(my.df$yrbrn_m, useNA = "ifany")
##
## 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943
               5
                   6
                       15
                             10
                                   6 13
                                             14
                                                  15
                                                        13
                                                             27
                                                                  35
                                                                      22
                                                                            25
## 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959
          23
               30
                    26
                         26
                              35
                                   45
                                        51
                                              37
                                                   42
                                                        38
                                                             64
                                                                  45
                                                                       39
                                                                            48
## 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975
          42
               38
                    51
                         46
                              48
                                   42
                                        41
                                              44
                                                   35
                                                        38
                                                             44
                                                                  32
                                                                       37
                                                                            31
## 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991
          28
               24
                    32
                         29
                              29
                                   30
                                        30
                                              36
                                                   28
                                                        37
                                                             26
                                                                  34
                                                                       37
                                                                            37
## 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 <NA>
          36
               24
                    36
                         41
                              30
                                   27
                                        39
                                              29
                                                   32
                                                        40
```

```
class(my.df$yrbrn_m)
## [1] "numeric"
# has to be recoded into 4 seperate dummy variables: 30-39, 50-65, 66 over, 30 under
my.df \leftarrow my.df \%\% mutate(AGE = 2018 - yrbrn_m)
table(my.df$AGE, useNA = "ifany")
##
                                                                            30
                       19
                            20
                                 21
                                      22
                                           23
                                              24
                                                    25
                                                         26
                                                              27
                                                                   28
                                                                        29
##
    15
         16 17
                   18
##
    17
         40
             32
                   29
                       39
                            27
                                 30
                                      41
                                           36
                                               24
                                                    36
                                                         25
                                                              21
                                                                   37
                                                                        37
                                                                            34
##
    31
         32
             33
                   34
                       35
                            36
                                 37
                                      38
                                           39
                                               40
                                                    41
                                                         42
                                                              43
                                                                   44
                                                                            46
                                                                        45
         37
                                                              38
##
    26
             28
                   36
                       30
                            30
                                 29
                                      29
                                           32
                                                         24
                                                                   31
                                                                        37
                                                                            32
                                               24
                                                    28
##
    47
         48
            49
                   50
                            52
                                 53
                                      54
                                         55
                                               56
                                                    57
                                                        58
                                                              59
                                                                   60
                                                                        61
                                                                            62
                       51
    44
##
         38
             35
                   44
                            42
                                 48
                                      46
                                          51
                                               38
                                                    42
                                                        40
                                                              39
                                                                   48
                                                                        39
                                                                            45
                       41
                                                                   76
                                      70
                                               72
                                                    73
                                                        74
                                                              75
                                                                       77
                                                                            78
##
    63
         64
             65
                   66
                       67
                            68
                                 69
                                          71
##
                   37
                                      26
                                                    23
                                                         20
                                                              22
                                                                   25
                                                                            35
    64
         38
             42
                            45
                                 35
                                           26
                                              30
                                                                        22
                       51
##
    79
                                              88
                                                    89
                                                         90 <NA>
         80
              81
                   82
                       83
                            84
                                 85
                                      86
                                           87
##
    27
                       13
         13
             15
                  14
                            6
                                10
                                      15
                                                          9
                                          6
class(my.df$AGE)
## [1] "numeric"
GNDR (Gender)
table(my.df$gndr)
##
##
     1
          2
## 1212 1146
attributes(my.df$gndr)
## $label
## [1] "Gender"
##
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 6
##
## $labels
##
    Male
               Female No answer
##
                    2
         1
```

```
my.df <- my.df %>% mutate(gndr_m = ifelse(gndr == 9, NA, gndr))
table(my.df$gndr_m, useNA = "ifany")
##
##
     1
## 1212 1146
class(my.df$gndr_m)
## [1] "numeric"
## gender recoding, female as 1 male as 0
my.df$female[my.df$gndr_m == 2] <- 1</pre>
my.df$female[my.df$gndr_m != 2] <- 0</pre>
table(my.df$female, useNA = "ifany")
##
##
     0
## 1212 1146
MBTRU (member of trade union)
table(my.df$mbtru)
##
         2
##
     1
## 285 475 1593
attributes(my.df$mbtru)
## $label
## [1] "Member of trade union or similar organisation"
##
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 7
##
## $labels
## Yes, currently Yes, previously
                                                           Refusal
                                               No
                                                                        Don't know
                                 2
                                                 3
##
               1
##
        No answer
##
```

```
my.df <- my.df %>% mutate(mbtru_m = ifelse(mbtru == 7 | mbtru == 8 | mbtru == 9, NA, mbtru))
table(my.df$mbtru_m, useNA = "ifany")
##
          2
##
     1
                3 <NA>
## 285 475 1593
## dummy variable if currently member of trade union
my.df$trade_dummy[my.df$mbtru_m == 1] <- 1</pre>
my.df$trade_dummy[my.df$mbtru_m != 1] <- 0</pre>
table(my.df$trade_dummy, useNA = "ifany")
##
##
     0
          1 <NA>
## 2068 285
Workstatus (unemployment and workforce filter)
table(my.df$edctn, useNA = "ifany")
##
##
     0
          1
## 2091 267
attributes(my.df$edctn)
## $label
## [1] "Doing last 7 days: education"
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 7
##
## $labels
## Not marked
                  Marked
table(my.df$dsbld, useNA = "ifany")
##
##
    0
## 2234 124
```

```
attributes(my.df$dsbld)
## $label
## [1] "Doing last 7 days: permanently sick or disabled"
##
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 7
##
## $labels
## Not marked
                Marked
       0
table(my.df$rtrd, useNA = "ifany")
##
##
    0
        1
## 1725 633
attributes(my.df$rtrd)
## $label
## [1] "Doing last 7 days: retired"
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 6
##
## $labels
## Not marked
                Marked
##
       0
table(my.df$hswrk, useNA = "ifany")
##
## 0 1
## 1717 641
attributes(my.df$hswrk)
## $label
## [1] "Doing last 7 days: housework, looking after children, others"
## $format.spss
## [1] "F1.0"
##
```

```
## $display_width
## [1] 7
##
## $labels
## Not marked
                Marked
##
           0
my.df <- my.df %>% mutate(work_status_other = case_when(edctn == 1 ~ 1,
                                                        dsbld == 1 \sim 1,
                                                        rtrd == 1 ~ 1,
                                                        edctn == 0 \sim 0,
                                                        edctn == 0 \sim 0,
                                                        edctn == 0 \sim 0,))
table(my.df$work_status_other, useNA = "ifany")
##
##
    0
         1
## 1385 973
table(my.df$uempla, useNA = "ifany")
##
##
    0
## 2308 50
attributes(my.df$uempla)
## $label
## [1] "Doing last 7 days: unemployed, actively looking for job"
##
## $format.spss
## [1] "F1.0"
##
## $labels
## Not marked
                 Marked
      0
table(my.df$uempli, useNA = "ifany")
##
##
    0
          1
## 2324 34
attributes(my.df$uempli)
## $label
## [1] "Doing last 7 days: unemployed, not actively looking for job"
## $format.spss
## [1] "F1.0"
```

```
##
## $labels
## Not marked
                 Marked
my.df <- my.df %>% mutate(unemployed_dummy = case_when(uempla == 0 & uempli == 0 ~ 0,
                                                     uempla == 1 & uempli == 0 ~ 1,
                                                     uempla == 0 & uempli == 1 ~ 1))
table(my.df$unemployed_dummy, useNA = "ifany")
##
##
    0
         1 <NA>
## 2276
        80
Immigration: want to fit in [imueclt]
table(my.df$imueclt)
##
##
           2
                3
                   4 5
                           6 7
                                   8 9 10
## 71 57 118 159 163 391 254 385 366 186 189
attributes(my.df$imueclt)
## $label
## [1] "Country's cultural life undermined or enriched by immigrants"
##
## $format.spss
## [1] "F2.0"
##
## $display_width
## [1] 9
##
## $labels
## Cultural life undermined
                                                                         2
                                                 1
##
                                                 1
                                                                         2
##
                         3
                                                 4
                                                                         5
##
                         3
                                                 4
                                                                         5
##
                         6
                                                 7
                                                                         8
##
                         6
                                                 7
                                                                         8
##
                         9
                            Cultural life enriched
                                                                   Refusal
##
                         9
                                                10
##
                Don't know
                                         No answer
my.df <- my.df %>% mutate(imueclt_m = ifelse(imueclt == 77 | imueclt == 88 | imueclt == 99, NA, imueclt)
table(my.df$imueclt_m, useNA = "ifany")
##
     0
              2
                    3
                                   6
                                       7
##
          1
                        4
                             5
                                            8
                                                 9
                                                    10 <NA>
        57 118 159 163 391 254 385 366 186 189 19
```

Immigration: too many or too few immigrants

```
table(my.df$imsmetn)
##
##
          2
                3
                     4
      1
## 1028 1083 192
                    28
attributes(my.df$imsmetn)
## $label
## [1] "Allow many/few immigrants of same race/ethnic group as majority"
##
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 9
##
## $labels
## Allow many to come and live here
                                                          Allow some
##
##
                        Allow a few
                                                          Allow none
##
                                  3
                                                                  4
##
                           Refusal
                                                         Don't know
##
                                 7
##
                         No answer
##
table(my.df$imdfetn)
##
##
          2
               3
                    4
      1
## 522 1176 546 84
attributes(my.df$imdfetn)
## $label
## [1] "Allow many/few immigrants of different race/ethnic group from majority"
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 9
##
## $labels
## Allow many to come and live here
                                                         Allow some
##
##
                       Allow a few
                                                        Allow none
```

```
4
##
                                  3
##
                            Refusal
                                                          Don't know
##
##
                          No answer
##
table(my.df$impcntr)
##
##
      1
          2
               3
                     4
## 487 1098 616 127
attributes(my.df$impcntr)
## $label
## [1] "Allow many/few immigrants from poorer countries outside Europe"
## $format.spss
## [1] "F1.0"
##
## $display_width
## [1] 9
##
## $labels
## Allow many to come and live here
                                                          Allow some
##
##
                        Allow a few
                                                          Allow none
##
                                  3
                                                                   4
##
                            Refusal
                                                          Don't know
##
                                 7
                                                                   8
##
                          No answer
##
my.df <- my.df %>% mutate(imsmetn_m = ifelse(imsmetn == 7 | imsmetn == 8 | imsmetn == 9, NA, imsmetn),
                          imdfetn_m = ifelse(imdfetn == 7 | imdfetn == 8 | imdfetn == 9, NA, imdfetn),
                          allow_immigrants_out_EU = ifelse(impcntr == 7 | impcntr == 8 | impcntr == 9, 1
table(my.df$imsmetn_m, useNA = "ifany")
##
##
      1
           2
                3
                     4 <NA>
## 1028 1083 192
                    28 27
table(my.df$imdfetn_m, useNA = "ifany")
##
##
     1
        2
              3
                    4 <NA>
```

522 1176 546 84 30

```
table(my.df$impcntr_m, useNA = "ifany")
## 
my.df <- my.df %>% mutate(allow_immigrants = (imsmetn_m + imdfetn_m) / 2 )
table(my.df$allow_immigrants, useNA = "ifany")
##
##
     1 1.5
               2 2.5
                         3 3.5
                                   4 <NA>
   503 430 827 330 177
                                  24
table(my.df$allow_immigrants_out_EU, useNA = "ifany")
##
##
          2
               3
                    4 <NA>
     1
   487 1098 616 127
                        30
Education: Dummy variable for at least high school
table(my.df$edubde1, useNA = "ifany")
##
##
     0
                    3
                              5
                                   6 5555 <NA>
##
               8 535 765 242 724
                                      3
attributes(my.df$edubde1)
## $label
## [1] "Highest level of education, Germany: höchster allgemeinbildender Schulabschluss"
## $format.spss
## [1] "F4.0"
## $display_width
## [1] 9
##
## $labels
##
                                                  Grundschule nicht beendet
##
##
                       (Noch) kein Schulabschluss, aber Grundschule beendet
##
##
                   Abschluss einer Förderschule (Sonderschule, Hilfsschule)
##
##
             Volks- oder Hauptschule / Polytechn. Oberschule (8./9. Klasse)
##
      Mittlere Reife, Realschule / MSA / Polytechn. Oberschule (10. Klasse)
##
```

Fachhochschulreife

##

```
##
                                                                               5
## Abitur, fachgebundene Hochschulreife / Erweiterte Oberschule (12. Klasse)
##
##
                                                                           Other
##
                                                                           5555
##
                                                                        Refusal
##
                                                                           7777
##
                                                                     Don't know
##
                                                                           8888
##
                                                                      No answer
##
                                                                           9999
my.df \leftarrow my.df \%\% mutate(education_m = ifelse(edubde1 == 5555 |
                                                   edubde1 == 7777 |
                                                   edubde1 == 8888 |
                                                   edubde1 == 9999, NA, edubde1))
table(my.df$education_m, useNA = "ifany")
##
##
                      3
                                      6 <NA>
      0
           1
                 2
                           4
                                5
                 8 535 765 242 724
my.df$education_dummy[my.df$education_m == 6] <- 1</pre>
my.df$education_dummy[my.df$education_m != 6] <- 0</pre>
table(my.df$education_dummy, useNA = "ifany")
##
##
      0
           1 <NA>
## 1625 724
```

Listwise deleted model

```
my.df.filt <- my.df[varsinmodel.vc]</pre>
View(my.df.filt)
nrow(my.df.filt)
## [1] 2358
names(my.df.filt)
## [1] "gincdif_reversed"
                                   "atchctr_m"
## [3] "inter_trust"
                                   "gov_trust"
## [5] "trust_EU_gov"
                                   "hinctnta_m"
## [7] "AGE"
                                   "female"
## [9] "trade_dummy"
                                   "unemployed_dummy"
## [11] "work_status_other"
                                   "imueclt_m"
## [13] "allow_immigrants"
                                   "allow_immigrants_out_EU"
## [15] "education_dummy"
\#Listwise\ deletion
my.df.lw <- na.omit(my.df.filt)</pre>
View(my.df.lw)
nrow(my.df.lw)
```

Summary statistics

[1] 1967

Variable	Variable label	Obs	Mean	SD	Min	Max
gincdif_reversed	Support for redistribution	1967	3.850	0.994	1	5
atchctr_m	Emotional Attachment to Germany	1967	7.515	2.167	0	10
inter_trust	Interpersonal Trust	1967	5.713	1.649	0	10
gov_trust	Trust in Government	1967	4.546	2.182	0	10
trust_EU_gov	Trust in EU Government	1967	4.575	2.377	0	10
hinctnta_m	Total Household Income	1967	6.123	2.804	1	10
AGE	Age	1967	50.010	18.387	15	90
female	Female	1967	0.470	0.499	0	1
trade_dummy	Member of Trade Union	1967	0.129	0.335	0	1
unemployed_dummy	Work Status: Unemployed	1967	0.034	0.180	0	1
work_status_other	Worl Status: Other	1967	0.400	0.490	0	1
imueclt_m	Immigrants enrich Culture	1967	6.015	2.509	0	10
allow_immigrants	Anti-Immigration	1967	1.866	0.643	1	4
allow_immigrants_out_EU	Anti-Immigration, Non European	1967	2.161	0.807	1	4
education_dummy	Completed Secondary Education	1967	0.311	0.463	0	1

Bivariate Regressions

```
bi_m1.lw <- lm(gincdif_reversed ~ atchctr_m, data = my.df.lw)
multi_econ_m1.lw <- lm(gincdif_reversed ~ atchctr_m +</pre>
```

Variable	Variable label	Obs	Mean	SD	Min	Max
gincdif_reversed	Support for redistribution	1967	3.850	0.994	1	5
atchctr_m	Emotional Attachment to Germany	1967	7.515	2.167	0	10
inter_trust	Interpersonal Trust	1967	5.713	1.649	0	10
gov_trust	Trust in Government	1967	4.546	2.182	0	10
trust_EU_gov	Trust in EU Government	1967	4.575	2.377	0	10
hinctnta_m	Total Household Income	1967	6.123	2.804	1	10
AGE	Age	1967	50.010	18.387	15	90
female	Female	1967	0.470	0.499	0	1
trade_dummy	Member of Trade Union	1967	0.129	0.335	0	1
unemployed_dummy	Work Status: Unemployed	1967	0.034	0.180	0	1
work_status_other	Worl Status: Other	1967	0.400	0.490	0	1
imueclt_m	Immigrants enrich Culture	1967	6.015	2.509	0	10
allow_immigrants	Anti-Immigration	1967	1.866	0.643	1	4
allow_immigrants_out_EU	Anti-Immigration, Non European	1967	2.161	0.807	1	4
education_dummy	Completed Secondary Education	1967	0.311	0.463	0	1

```
hinctnta_m +
                    AGE +
                    female +
                    trade_dummy +
                    unemployed_dummy +
                    work_status_other +
                    education_dummy, data = my.df.lw)
multi_econ_trust_m2.lw <- lm(gincdif_reversed ~ atchctr_m +</pre>
                    hinctnta_m +
                    AGE +
                    female +
                    trade_dummy +
                    unemployed_dummy +
                    work_status_other +
                    education_dummy +
                    inter_trust +
                    gov_trust +
                    trust_EU_gov, data = my.df.lw)
multi_econ_immigration_m3.lw <- lm(gincdif_reversed ~ atchctr_m +</pre>
                    hinctnta_m +
                    AGE +
                    female +
                    trade_dummy +
                    unemployed_dummy +
                    work_status_other +
                    education_dummy +
                    imueclt_m +
                    allow_immigrants +
                    allow_immigrants_out_EU, data = my.df.lw)
```

Multivariate Regression

```
multi_full_model.lw <- lm(gincdif_reversed ~ atchctr_m +</pre>
                    hinctnta_m +
                    AGE +
                    female +
                    trade_dummy +
                    unemployed_dummy +
                    work_status_other +
                    education_dummy +
                    inter_trust +
                    gov_trust +
                    trust_EU_gov +
                    imueclt_m +
                    allow_immigrants +
                    allow_immigrants_out_EU, data = my.df.lw)
multi full model.lw
##
## lm(formula = gincdif_reversed ~ atchctr_m + hinctnta_m + AGE +
       female + trade dummy + unemployed dummy + work status other +
##
       education dummy + inter trust + gov trust + trust EU gov +
##
       imueclt_m + allow_immigrants + allow_immigrants_out_EU, data = my.df.lw)
##
## Coefficients:
##
               (Intercept)
                                           atchctr_m
                                                                   hinctnta_m
##
                  3.852119
                                           -0.028857
                                                                    -0.032657
##
                       AGE
                                              female
                                                                  trade_dummy
##
                  0.003142
                                            0.130369
                                                                      0.155139
##
          unemployed_dummy
                                  work_status_other
                                                             education_dummy
##
                 -0.017585
                                           0.078984
                                                                    -0.109797
##
               inter_trust
                                           gov_trust
                                                                 trust_EU_gov
##
                  0.020811
                                           -0.051036
                                                                      0.033023
##
                 imueclt_m
                                   allow_immigrants allow_immigrants_out_EU
                                            0.100700
##
                  0.026827
                                                                    -0.096427
```

Printing the regression table

```
"Work Status: Unemployed",
    "Work Status: Other",
    "Completed Secondary Education",
    "Interpersonal Trust",
    "Trust in Government",
    "Trust in EU Government",
    "Immigrants enrich Culture",
    "Anti-Immigration",
    "Anti-Immigration, Non European",
    "Intercept"),
keep.stat = c("n", "rsq"))
```

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu % Date and time: So, Aug 15, 2021 - 19:29:38

```
stargazer(bi_m1.lw, multi_econ_m1.lw, multi_econ_trust_m2.lw, multi_econ_immigration_m3.lw, multi_full_r
          dep.var.labels = c("Redistribution"),
          title = "Johnston et. al. models plus full model",
          notes = "Source data: ESS Round 9 (2018), own calculations",
          covariate.labels = c("Emotional Attachment to Germany",
                              "Total Household Income",
                              "Age",
                              "Female",
                              "Member of Trade Union",
                              "Work Status: Unemployed",
                              "Work Status: Other",
                              "Completed Secondary Education",
                              "Interpersonal Trust",
                              "Trust in Government",
                              "Trust in EU Government",
                              "Immigrants enrich Culture",
                              "Anti-Immigration",
                              "Anti-Immigration, Non European",
                              "Intercept"),
          keep.stat = c("n", "rsq"),
          out = "johnston_models_plus_full_model.htm")
```

Johnston et. al. models plus full model

Dependent variable:

Redistribution

- (1)
- (2)
- (3)
- (4)
- (5)

Emotional Attachment to Germany

-0.031***

-0.032***

Table 1: Johnston et. al. models plus full model

	Dependent variable: Redistribution				
	(1)	(2)	(3)	(4)	(5)
Emotional Attachment to Germany	-0.031***	-0.032***	-0.032***	-0.032***	-0.029***
	(0.010)	(0.011)	(0.011)	(0.011)	(0.011)
Total Household Income		-0.033***	-0.034***	-0.033***	-0.033***
		(0.009)	(0.009)	(0.009)	(0.009)
Age		0.002*	0.003*	0.003**	0.003**
		(0.001)	(0.001)	(0.001)	(0.001)
Female		0.159***	0.144***	0.143***	0.130***
		(0.045)	(0.045)	(0.045)	(0.045)
Member of Trade Union		0.159**	0.161**	0.155**	0.155**
		(0.066)	(0.066)	(0.066)	(0.066)
Work Status: Unemployed		-0.008	-0.006	-0.014	-0.018
		(0.126)	(0.126)	(0.126)	(0.126)
Work Status: Other		0.082	0.076	0.081	0.079
		(0.051)	(0.051)	(0.051)	(0.051)
Completed Secondary Education		-0.100**	-0.096*	-0.124**	-0.110**
		(0.049)	(0.051)	(0.051)	(0.051)
Interpersonal Trust			0.030**		0.021
			(0.015)		(0.015)
Trust in Government			-0.046***		-0.051***
			(0.015)		(0.015)
Trust in EU Government			0.038***		0.033**
			(0.013)		(0.013)
Immigrants enrich Culture				0.025**	0.027**
				(0.011)	(0.011)
Anti-Immigration				0.107**	0.101**
				(0.050)	(0.050)
Anti-Immigration, Non European				-0.104***	-0.096**
-				(0.039)	(0.039)
Intercept	4.082***	4.081***	3.937***	3.940***	3.852***
•	(0.081)	(0.109)	(0.125)	(0.167)	(0.178)
Observations	1,967	1,967	1,967	1,967	1,967
\mathbb{R}^2	0.005	0.035	0.042	0.043	0.049

*p<0.1; ** \overline{p} <0.05; *** \overline{p} <0.01 Source data: ESS Round 9 (2018) published 17.02.2021, own calculations Note:

- -0.032***
- -0.032***
- -0.029***
- (0.010)
- (0.011)
- (0.011)
- (0.011)
- (0.011)

Total Household Income

- -0.033***
- -0.034***
- -0.033***
- -0.033***
- (0.009)
- (0.009)
- (0.009)
- (0.009)
- ${\rm Age}$
- 0.002*
- 0.003*
- 0.003**
- 0.003**
- (0.001)
- (0.001)(0.001)
- (0.001)
- Female
- 0.159***
- 0.144***
- 0.143***
- 0.130***
- (0.045)
- (0.045)
- (0.045)
- (0.045)

Member of Trade Union

0.159**

0.161**

0.155**

0.155**

(0.066)

(0.066)

(0.066)

(0.066)

Work Status: Unemployed

-0.008

-0.006

-0.014

-0.018

(0.126)

(0.126)

(0.126)

(0.126)

Work Status: Other

0.082

0.076

0.081

0.079

(0.051)

(0.051)

(0.051)

(0.051)

Completed Secondary Education

-0.100**

-0.096*

-0.124**

-0.110**

(0.049)

(0.051)

(0.051)

(0.051)

Interpersonal Trust

0.030** 0.021 (0.015)(0.015)Trust in Government -0.046*** -0.051*** (0.015)(0.015)Trust in EU Government 0.038*** 0.033** (0.013)(0.013)Immigrants enrich Culture 0.025** 0.027** (0.011)(0.011)Anti-Immigration 0.107** 0.101** (0.050)(0.050)Anti-Immigration, Non European -0.104*** -0.096** (0.039)(0.039)Intercept 4.082*** 4.081*** 3.937***

3.940*** 3.852*** (0.081)

```
(0.109)
(0.125)
(0.167)
(0.178)
Observations
1,967
1,967
1,967
1,967
1,967
R2
0.005
0.035
0.042
0.043
0.049
Note:
p < 0.1; p < 0.05; p < 0.01
Source data: ESS Round 9 (2018), own calculations
```

Exporting Model

```
library(texreg)
setwd(results.dir)
htmlreg(list(bi_m1.lw, multi_econ_m1.lw, multi_econ_trust_m2.lw, multi_econ_immigration_m3.lw, multi_ful
        file = "johnston_replication_regression.doc",
        caption = "Johnston et. al. models plus full model",
        custom.note = "Source data: ESS Round 9 (2018), own calculations",
        custom.coef.names = c("Emotional Attachment to Germany",
                              "Total Household Income",
                              "Age",
                              "Female",
                              "Member of Trade Union",
                              "Work Status: Unemployed",
                              "Work Status: Other",
                              "Completed Secondary Education",
                              "Interpersonal Trust",
                              "Trust in Government",
                              "Trust in EU Government",
                              "Immigrants enrich Culture",
                              "Anti-Immigration",
                              "Anti-Immigration, Non European",
                               "Intercept"),
```

include.rmse = F,
include.adjrs = F)