

The 500 Family Study data

The original raw data – “500 Family Study” data – is publicly available at <http://www.icpsr.umich.edu/icpsrweb/ICPSR/studies/4549?searchSource=revise&q=500+family+study>. To obtain the data used in this article, follow the following steps:

Step 1. Download data

Download the DS3 and DS4 raw data (SPSS format) from the website. Use SPSS software to save the raw data as comma separated values file.

Step 2. Process data

A function for replacing missing values in the raw data with NA

We first write a simple function for dealing with the coding missing value in the raw data. All missing values are replaced with the mean

```
sim_impu <- function(DATA, M_values, repl){  
  # M_values: missing values in the raw data. Some missing values are coded as 9, some are coded as 999  
  # repl = T, missing values are replaced with mean.  
  
  if(is.missing(repl)){  
    repl = F  
  }else{  
    repl = T  
  }  
  
  nrow <- dim(DATA)[1]  
  ncol <- dim(DATA)[2]  
  DATA <- data.matrix(DATA)  
  
  for(i in 1:length(M_values)){  
    DATA[which(DATA == M_values[i])] <- NA  
  }  
  
  if(repl == T){  
  
    for(n in 1:nrow){  
      for(m in 1:ncol){  
        if(is.na(DATA[n, m])){  
          DATA[n, m] <- mean(DATA[n, ], na.rm = T)  
        }  
      }  
    }  
  }  
}
```

```

return(DATA)
}

#DS3 = read.csv("D:/TilburgOffice/Dropbox/tilburg office/Research SCA/Project 2 software Simultaneous/n
#DS4 = read.csv("D:/TilburgOffice/Dropbox/tilburg office/Research SCA/Project 2 software Simultaneous/n

DS3 = read.csv("D:/Dropbox/Tilburg office/Research SCA/Project 2 software Simultaneous/newdata/04549-00
DS4 = read.csv("D:/Dropbox/Tilburg office/Research SCA/Project 2 software Simultaneous/newdata/04549-00

# regarding "Please tell us how much you agree with each of the following statements about your relation
summary(DS3[, c(352:367)])

```

##	UNDPAR_1	HABPAR_1	RESPAR_1	MUDPAR_1
##	Min. :1.000	Min. :1.000	Min. :1.000	Min. :1.000
##	1st Qu.:3.000	1st Qu.:1.000	1st Qu.:4.000	1st Qu.:2.000
##	Median :4.000	Median :2.000	Median :4.000	Median :3.000
##	Mean :3.612	Mean :2.094	Mean :3.857	Mean :2.897
##	3rd Qu.:4.000	3rd Qu.:3.000	3rd Qu.:5.000	3rd Qu.:4.000
##	Max. :9.000	Max. :9.000	Max. :9.000	Max. :9.000
##	NA's :97	NA's :101	NA's :97	NA's :101
##	CMPAR_1	SUCREL_1	CONFLC_1	FINPOS_1
##	Min. :1.000	Min. :1.00	Min. :1.000	Min. :1.00
##	1st Qu.:1.000	1st Qu.:2.00	1st Qu.:3.000	1st Qu.:1.00
##	Median :2.000	Median :4.00	Median :4.000	Median :2.00
##	Mean :2.204	Mean :3.28	Mean :3.692	Mean :2.42
##	3rd Qu.:3.000	3rd Qu.:4.00	3rd Qu.:4.000	3rd Qu.:4.00
##	Max. :9.000	Max. :9.00	Max. :9.000	Max. :9.00
##	NA's :97	NA's :100	NA's :103	NA's :99
##	HNEEDS_1	LEISUR_1	HAPSEX_1	PARENT_1
##	Min. :1.000	Min. :1.000	Min. :1.000	Min. :1.00
##	1st Qu.:2.000	1st Qu.:2.000	1st Qu.:2.000	1st Qu.:1.00
##	Median :4.000	Median :4.000	Median :4.000	Median :2.00
##	Mean :3.147	Mean :3.379	Mean :3.381	Mean :2.03
##	3rd Qu.:4.000	3rd Qu.:4.000	3rd Qu.:4.000	3rd Qu.:3.00
##	Max. :9.000	Max. :9.000	Max. :9.000	Max. :9.00
##	NA's :102	NA's :99	NA's :102	NA's :103
##	NORGRT_1	OTHRLS_1	RELPRC_1	OVERAL_1
##	Min. :1.000	Min. :1.000	Min. :1.000	Min. :1.000
##	1st Qu.:2.000	1st Qu.:1.000	1st Qu.:3.000	1st Qu.:4.000
##	Median :4.000	Median :2.000	Median :4.000	Median :5.000
##	Mean :3.308	Mean :2.102	Mean :3.775	Mean :4.326
##	3rd Qu.:5.000	3rd Qu.:3.000	3rd Qu.:5.000	3rd Qu.:5.000
##	Max. :9.000	Max. :9.000	Max. :9.000	Max. :9.000
##	NA's :103	NA's :101	NA's :100	NA's :98