

G Luku 1 yksinkertainen korrespondenssianalyysi

Data: ISSP Research Group (2016): International Social Survey Programme: Family and Changing Gender Roles IV - ISSP 2012. GESIS Data Archive, Cologne. ZA5900 Data file Version 4.0.0, doi:10.4232/1.12661

https://search.gesis.org/research_data/ZA5900_2012

Muuttujakuvaukset ja muut tiedot (linkit?) <http://zacat.gesis.org/webview/index.jsp?object=http://zacat.gesis.org/obj/fStudy/ZA5900>

Käyttöehdot: <https://www.gesis.org/en/services/data-analysis/more-data-to-analyze/data-archive-service/>

Yksinkertainen korrespondenssianalyysi on kahden luokitteluasteikon muuttujan riippuvuuksien geometristä analyysia. Lähtökohta on kahden muuttujan ristiintaulukointi, alkuperäinen data voi olla muillakin asteikoilla mitattua. Menetelmän ydin on tarkastella molempien muuttujien – taulukon rivien ja sarakkeiden – riippuvuuksia kaksiulotteisena kuvana. Kuvaa kutsutaan myös kartaksi, ja tulkinnan ensimmäinen askel on kartan “koordinaatiston” tulkinta. Kaikki etäisyydet kuvassa ovat suhteellisia, mutta koordinaatiston tulkinnassa voidaan lähteä siitä, että suhteellisesti kaukana toisistaan olevat pisteet ovat kaukana myös alkuperäisessä datassa.

ToDo1:

- (1) Hyvin tiivis esitys CA:n perusideasta, mutta ilman aivan simppleitä kolmiulotteisia kuvia (niitä on jo)
- (2) Ensimmäinen taulukko: profiilit, massat, keskiarvoprofiilit, khii2 - riippumattomuustesti
- (3) Sanallinen kuvaus CA-ratkaisusta (painotettu PCA, optimaalinen MDS, kaikki on suhteellista)
- (4) Lyhyt viittaus graafisen esityksen tulkintapulmiin, jotka eivät ole kovin pahoja. Niihin palataan kaksoiskuva-jaksossa.

```
# pitääkö laittaa järjestykseen, vanhemmat ensin?
```

```
library(rgl)
library(ca)
library(haven)
library(dplyr)
```

```
##
```

```
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##      filter, lag
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      intersect, setdiff, setequal, union
```

```
library(knitr)
```

```
library(tidyverse)
```

```
## -- Attaching packages -----
```

```
## v ggplot2 2.2.1      v readr    1.1.1
```

```
## v tibble  1.4.2      v purrr   0.2.4
```

```
## v tidyr   0.7.2      v stringr 1.2.0
```

```
## v ggplot2 2.2.1      v forcats 0.2.0
```

```
## Warning: package 'tibble' was built under R version 3.4.3
```

```
## -- Conflicts -----
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()

library(forcats)
library(lubridate)

##
## Attaching package: 'lubridate'

## The following object is masked from 'package:base':
##
## date

library(rmarkdown)
library(ggplot2)
library(furniture)

## Warning: package 'furniture' was built under R version 3.4.3

## furniture 1.7.3: learn more at tysonbarrett.com

ISSP2012.data <- read_spss("data/ZA5900_v4-0-0.sav")
```

Koitetaanpa lukea data. Onko yksinkertaisempaa tallentaa SPSS:ssa csv - muotoon?

Hieman tutkiskelua - Suomen data. Rajataan aineistoa, siellä on maakohtaisia vastauksia (esim. Espanja).

#Valitaan Suomi, Ruotsi ja Unkari ja yksi kysymys

```
FiSeHu2012d1 <- filter(ISSP2012.data, C_ALPHAN == "FI" | C_ALPHAN == "SE" | C_ALPHAN == "HU" )
summary(FiSeHu2012d1)
```

```
##           V1           V2           DOI           V3
## Min.      :5900   Length:3243   Length:3243   Min.      :246.0
## 1st Qu.:5900   Class :character   Class :character   1st Qu.:246.0
## Median :5900   Mode  :character   Mode  :character   Median :348.0
## Mean      :5900                                Mean      :443.2
## 3rd Qu.:5900                                3rd Qu.:752.0
## Max.      :5900                                Max.      :752.0
##
##           V4           C_ALPHAN           V5           ES_V5
## Min.      :246.0   Length:3243   Min.      :1.000   Min.      : NA
## 1st Qu.:246.0   Class :character   1st Qu.:1.000   1st Qu.: NA
## Median :348.0   Mode  :character   Median :2.000   Median : NA
## Mean      :443.2                                Mean      :NaN
## 3rd Qu.:752.0                                3rd Qu.:3.000   3rd Qu.: NA
## Max.      :752.0                                Max.      :5.000   Max.      : NA
##                                     NA's      :96      NA's      :3243
##
##           V6           ES_V6           V7           ES_V7
## Min.      :1.000   Min.      : NA   Min.      :1.00   Min.      : NA
## 1st Qu.:2.000   1st Qu.: NA   1st Qu.:3.00   1st Qu.: NA
## Median :4.000   Median : NA   Median :4.00   Median : NA
## Mean      :3.374   Mean      :NaN   Mean      :3.53   Mean      :NaN
## 3rd Qu.:4.000   3rd Qu.: NA   3rd Qu.:5.00   3rd Qu.: NA
## Max.      :5.000   Max.      : NA   Max.      :5.00   Max.      : NA
## NA's      :134   NA's      :3243   NA's      :121   NA's      :3243
##
##           V8           ES_V8           V9           ES_V9
## Min.      :1.00   Min.      : NA   Min.      :1.000   Min.      : NA
```

##	1st Qu.:2.00	1st Qu.: NA	1st Qu.:2.000	1st Qu.: NA
##	Median :3.00	Median : NA	Median :3.000	Median : NA
##	Mean :3.08	Mean :NaN	Mean :2.965	Mean :NaN
##	3rd Qu.:4.00	3rd Qu.: NA	3rd Qu.:4.000	3rd Qu.: NA
##	Max. :5.00	Max. : NA	Max. :5.000	Max. : NA
##	NA's :295	NA's :3243	NA's :359	NA's :3243
##	V10	ES_V10	V11	ES_V11
##	Min. :1.00	Min. : NA	Min. :1.000	Min. : NA
##	1st Qu.:1.00	1st Qu.: NA	1st Qu.:3.000	1st Qu.: NA
##	Median :2.00	Median : NA	Median :4.000	Median : NA
##	Mean :1.88	Mean :NaN	Mean :3.688	Mean :NaN
##	3rd Qu.:2.00	3rd Qu.: NA	3rd Qu.:5.000	3rd Qu.: NA
##	Max. :5.00	Max. : NA	Max. :5.000	Max. : NA
##	NA's :55	NA's :3243	NA's :87	NA's :3243
##	V12	V13	V14	ES_V14
##	Min. :1.000	Min. :1.000	Min. :1.00	Min. : NA
##	1st Qu.:2.000	1st Qu.:1.000	1st Qu.:2.00	1st Qu.: NA
##	Median :2.000	Median :1.000	Median :3.00	Median : NA
##	Mean :1.965	Mean :1.522	Mean :3.17	Mean :NaN
##	3rd Qu.:2.000	3rd Qu.:2.000	3rd Qu.:4.00	3rd Qu.: NA
##	Max. :3.000	Max. :3.000	Max. :5.00	Max. : NA
##	NA's :358	NA's :324	NA's :343	NA's :3243
##	V15	ES_V15	V16	ES_V16
##	Min. :1.000	Min. : NA	Min. :1.000	Min. : NA
##	1st Qu.:2.000	1st Qu.: NA	1st Qu.:1.000	1st Qu.: NA
##	Median :3.000	Median : NA	Median :2.000	Median : NA
##	Mean :3.085	Mean :NaN	Mean :1.855	Mean :NaN
##	3rd Qu.:4.000	3rd Qu.: NA	3rd Qu.:2.000	3rd Qu.: NA
##	Max. :5.000	Max. : NA	Max. :5.000	Max. : NA
##	NA's :83	NA's :3243	NA's :68	NA's :3243
##	V17	ES_V17	V18	ES_V18
##	Min. :1.000	Min. : NA	Min. :1.000	Min. : NA
##	1st Qu.:2.000	1st Qu.: NA	1st Qu.:2.000	1st Qu.: NA
##	Median :2.000	Median : NA	Median :3.000	Median : NA
##	Mean :2.469	Mean :NaN	Mean :2.745	Mean :NaN
##	3rd Qu.:3.000	3rd Qu.: NA	3rd Qu.:4.000	3rd Qu.: NA
##	Max. :5.000	Max. : NA	Max. :5.000	Max. : NA
##	NA's :187	NA's :3243	NA's :1118	NA's :3243
##	HU_V18	V19	ES_V19	HU_V19
##	Min. :1.000	Min. :1.000	Min. : NA	Min. :1.000
##	1st Qu.:2.000	1st Qu.:2.000	1st Qu.: NA	1st Qu.:3.000
##	Median :3.000	Median :2.000	Median : NA	Median :3.000
##	Mean :2.623	Mean :2.683	Mean :NaN	Mean :3.179
##	3rd Qu.:3.000	3rd Qu.:4.000	3rd Qu.: NA	3rd Qu.:4.000
##	Max. :4.000	Max. :5.000	Max. : NA	Max. :4.000
##	NA's :2247	NA's :1184	NA's :3243	NA's :2281
##	V20	ES_V20	HU_V20	V21
##	Min. :1.000	Min. : NA	Min. :1.000	Min. : 0.00
##	1st Qu.:2.000	1st Qu.: NA	1st Qu.:3.000	1st Qu.: 2.00
##	Median :3.000	Median : NA	Median :4.000	Median : 2.00
##	Mean :2.814	Mean :NaN	Mean :3.373	Mean : 2.37
##	3rd Qu.:4.000	3rd Qu.: NA	3rd Qu.:4.000	3rd Qu.: 3.00
##	Max. :5.000	Max. : NA	Max. :4.000	Max. :10.00
##	NA's :1196	NA's :3243	NA's :2290	NA's :246

##	V22	ES_V22	V23	ES_V23
##	Min. :1.000	Min. : NA	Min. :1.000	Min. : NA
##	1st Qu.:1.000	1st Qu.: NA	1st Qu.:3.000	1st Qu.: NA
##	Median :2.000	Median : NA	Median :4.000	Median : NA
##	Mean :1.666	Mean :NaN	Mean :3.715	Mean :NaN
##	3rd Qu.:2.000	3rd Qu.: NA	3rd Qu.:4.000	3rd Qu.: NA
##	Max. :5.000	Max. : NA	Max. :5.000	Max. : NA
##	NA's :191	NA's :3243	NA's :139	NA's :3243
##	V24	ES_V24	V25	ES_V25
##	Min. :1.000	Min. : NA	Min. :1.000	Min. : NA
##	1st Qu.:2.000	1st Qu.: NA	1st Qu.:2.000	1st Qu.: NA
##	Median :3.000	Median : NA	Median :3.000	Median : NA
##	Mean :3.195	Mean :NaN	Mean :3.066	Mean :NaN
##	3rd Qu.:4.000	3rd Qu.: NA	3rd Qu.:4.000	3rd Qu.: NA
##	Max. :5.000	Max. : NA	Max. :5.000	Max. : NA
##	NA's :135	NA's :3243	NA's :145	NA's :3243
##	V26	ES_V26	V27	ES_V27
##	Min. :1.000	Min. : NA	Min. :1.000	Min. : NA
##	1st Qu.:2.000	1st Qu.: NA	1st Qu.:2.000	1st Qu.: NA
##	Median :3.000	Median : NA	Median :2.000	Median : NA
##	Mean :2.909	Mean :NaN	Mean :2.172	Mean :NaN
##	3rd Qu.:4.000	3rd Qu.: NA	3rd Qu.:3.000	3rd Qu.: NA
##	Max. :5.000	Max. : NA	Max. :5.000	Max. : NA
##	NA's :284	NA's :3243	NA's :114	NA's :3243
##	V28	V29	V30	V31
##	Min. : 0.00	Min. :1.000	Min. :1.000	Min. :1.000
##	1st Qu.:11.00	1st Qu.:1.000	1st Qu.:2.000	1st Qu.:1.000
##	Median :12.00	Median :1.000	Median :2.000	Median :2.000
##	Mean :18.01	Mean :1.782	Mean :2.187	Mean :2.246
##	3rd Qu.:24.00	3rd Qu.:3.000	3rd Qu.:3.000	3rd Qu.:3.000
##	Max. :84.00	Max. :4.000	Max. :5.000	Max. :6.000
##	NA's :235	NA's :532	NA's :546	NA's :416
##	V32	V33	V34	V35
##	Min. :1.000	Min. :1.000	Min. :1.000	Min. :1.000
##	1st Qu.:3.000	1st Qu.:1.000	1st Qu.:1.000	1st Qu.:1.000
##	Median :3.000	Median :2.000	Median :2.000	Median :2.000
##	Mean :3.721	Mean :1.774	Mean :1.563	Mean :1.748
##	3rd Qu.:6.000	3rd Qu.:2.000	3rd Qu.:2.000	3rd Qu.:2.000
##	Max. :6.000	Max. :5.000	Max. :3.000	Max. :4.000
##	NA's :751	NA's :200	NA's :227	NA's :159
##	V36	V37	V38	V39
##	Min. :1.000	Min. : 0.00	Min. : 0.00	Min. : 1.00
##	1st Qu.:1.000	1st Qu.: 5.00	1st Qu.: 0.00	1st Qu.: 5.00
##	Median :2.000	Median :10.00	Median : 5.00	Median :10.00
##	Mean :1.662	Mean :11.94	Mean :10.91	Mean :14.88
##	3rd Qu.:2.000	3rd Qu.:15.00	3rd Qu.:14.00	3rd Qu.:20.00
##	Max. :2.000	Max. :95.00	Max. :95.00	Max. :96.00
##	NA's :259	NA's :149	NA's :329	NA's :1258
##	V40	V41	V42	V43
##	Min. : 1.00	Min. :1.000	Min. :1.000	Min. :1.000
##	1st Qu.: 5.00	1st Qu.:3.000	1st Qu.:1.000	1st Qu.:2.000
##	Median :14.00	Median :3.000	Median :3.000	Median :3.000
##	Mean :31.53	Mean :3.397	Mean :2.865	Mean :2.977
##	3rd Qu.:45.00	3rd Qu.:4.000	3rd Qu.:4.000	3rd Qu.:4.000

##	Max.	:96.00	Max.	:5.000	Max.	:6.000	Max.	:6.000
##	NA's	:1371	NA's	:1191	NA's	:1182	NA's	:1201
##	V44		V45		V46		V47	
##	Min.	:1.000	Min.	:1.000	Min.	:1.000	Min.	:1.000
##	1st Qu.:	2.000	1st Qu.:	2.000	1st Qu.:	2.000	1st Qu.:	2.000
##	Median	:3.000	Median	:3.000	Median	:3.000	Median	:3.000
##	Mean	:2.938	Mean	:2.892	Mean	:2.938	Mean	:2.881
##	3rd Qu.:	3.000	3rd Qu.:	3.000	3rd Qu.:	4.000	3rd Qu.:	4.000
##	Max.	:6.000	Max.	:6.000	Max.	:6.000	Max.	:6.000
##	NA's	:1466	NA's	:1190	NA's	:1188	NA's	:1187
##	V48		V49		V50		V51	
##	Min.	:1.000	Min.	:1.000	Min.	:1.00	Min.	:1.000
##	1st Qu.:	2.000	1st Qu.:	3.000	1st Qu.:	3.00	1st Qu.:	2.000
##	Median	:3.000	Median	:3.000	Median	:4.00	Median	:3.000
##	Mean	:2.918	Mean	:3.228	Mean	:3.96	Mean	:2.582
##	3rd Qu.:	3.000	3rd Qu.:	4.000	3rd Qu.:	5.00	3rd Qu.:	3.000
##	Max.	:5.000	Max.	:5.000	Max.	:7.00	Max.	:4.000
##	NA's	:1198	NA's	:1190	NA's	:1198	NA's	:1192
##	V52		V53		V54		V55	
##	Min.	:1.000	Min.	:1.000	Min.	:1.000	Min.	:1.00
##	1st Qu.:	2.000	1st Qu.:	3.000	1st Qu.:	3.000	1st Qu.:	2.00
##	Median	:3.000	Median	:4.000	Median	:4.000	Median	:3.00
##	Mean	:3.015	Mean	:3.673	Mean	:3.571	Mean	:2.84
##	3rd Qu.:	4.000	3rd Qu.:	4.000	3rd Qu.:	4.000	3rd Qu.:	3.00
##	Max.	:4.000	Max.	:4.000	Max.	:4.000	Max.	:7.00
##	NA's	:1254	NA's	:1235	NA's	:1260	NA's	:58
##	V56		V57		V58		V59	
##	Min.	:1.00	Min.	:1.000	Min.	:1.00	Min.	:1.000
##	1st Qu.:	2.00	1st Qu.:	2.000	1st Qu.:	2.00	1st Qu.:	1.000
##	Median	:3.00	Median	:2.000	Median	:3.00	Median	:1.000
##	Mean	:2.82	Mean	:2.613	Mean	:2.63	Mean	:1.331
##	3rd Qu.:	3.00	3rd Qu.:	3.000	3rd Qu.:	3.00	3rd Qu.:	2.000
##	Max.	:7.00	Max.	:7.000	Max.	:5.00	Max.	:2.000
##	NA's	:1114	NA's	:117	NA's	:42	NA's	:152
##	V60		V61		V62		V63	
##	Min.	:1.000	Min.	:1.000	Min.	:1.000	Min.	:1.000
##	1st Qu.:	1.000	1st Qu.:	1.000	1st Qu.:	1.000	1st Qu.:	1.000
##	Median	:1.000	Median	:1.000	Median	:1.000	Median	:1.000
##	Mean	:1.379	Mean	:1.268	Mean	:1.435	Mean	:1.296
##	3rd Qu.:	2.000	3rd Qu.:	1.000	3rd Qu.:	2.000	3rd Qu.:	1.000
##	Max.	:3.000	Max.	:3.000	Max.	:3.000	Max.	:3.000
##	NA's	:964	NA's	:1247	NA's	:1253	NA's	:1539
##	V64		V65		V65a		V66	
##	Min.	:1.000	Min.	:0.000	Min.	: NA	Min.	:17.00
##	1st Qu.:	3.000	1st Qu.:	2.000	1st Qu.:	NA	1st Qu.:	39.00
##	Median	:4.000	Median	:3.000	Median	: NA	Median	:52.00
##	Mean	:3.175	Mean	:3.369	Mean	:NaN	Mean	:51.17
##	3rd Qu.:	4.000	3rd Qu.:	5.000	3rd Qu.:	NA	3rd Qu.:	63.00
##	Max.	:5.000	Max.	:6.000	Max.	: NA	Max.	:97.00
##	NA's	:1203	NA's	:1056	NA's	:3243	NA's	:1673
##	V67		SEX		BIRTH		AGE	
##	Min.	: 0.00	Min.	:1.000	Min.	:1917	Min.	:15.00
##	1st Qu.:	10.00	1st Qu.:	1.000	1st Qu.:	1950	1st Qu.:	35.00
##	Median	:21.00	Median	:2.000	Median	:1963	Median	:49.00

##	Mean	:23.02	Mean	:1.543	Mean	:1963	Mean	:49.01
##	3rd Qu.	:36.00	3rd Qu.	:2.000	3rd Qu.	:1977	3rd Qu.	:63.00
##	Max.	:65.00	Max.	:2.000	Max.	:1997	Max.	:95.00
##	NA's	:1116	NA's	:1				
##	EDUCYRS		AR_DEGR		AT_DEGR		AU_DEGR	
##	Min.	: 0.00	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.	:11.00	1st Qu.	: NA	1st Qu.	: NA	1st Qu.	: NA
##	Median	:12.00	Median	: NA	Median	: NA	Median	: NA
##	Mean	:12.84	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.	:15.00	3rd Qu.	: NA	3rd Qu.	: NA	3rd Qu.	: NA
##	Max.	:40.00	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:67	NA's	:3243	NA's	:3243	NA's	:3243
##	BE_DEGR		BG_DEGR		CA_DEGR		CH_DEGR	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.	: NA	1st Qu.	: NA	1st Qu.	: NA	1st Qu.	: NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.	: NA	3rd Qu.	: NA	3rd Qu.	: NA	3rd Qu.	: NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	CL_DEGR		CN_DEGR		CZ_DEGR		DE_DEGR	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.	: NA	1st Qu.	: NA	1st Qu.	: NA	1st Qu.	: NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.	: NA	3rd Qu.	: NA	3rd Qu.	: NA	3rd Qu.	: NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	DK_DEGR		ES_DEGR		FI_DEGR		FR_DEGR	
##	Min.	: NA	Min.	: NA	Min.	:1.000	Min.	: NA
##	1st Qu.	: NA	1st Qu.	: NA	1st Qu.	:3.000	1st Qu.	: NA
##	Median	: NA	Median	: NA	Median	:5.000	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:4.449	Mean	:NaN
##	3rd Qu.	: NA	3rd Qu.	: NA	3rd Qu.	:6.000	3rd Qu.	: NA
##	Max.	: NA	Max.	: NA	Max.	:8.000	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:2079	NA's	:3243
##	GB_DEGR		HR_DEGR		HU_DEGR		IE_DEGR	
##	Min.	: NA	Min.	: NA	Min.	:1.000	Min.	: NA
##	1st Qu.	: NA	1st Qu.	: NA	1st Qu.	:3.000	1st Qu.	: NA
##	Median	: NA	Median	: NA	Median	:3.000	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:4.152	Mean	:NaN
##	3rd Qu.	: NA	3rd Qu.	: NA	3rd Qu.	:5.000	3rd Qu.	: NA
##	Max.	: NA	Max.	: NA	Max.	:9.000	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:2232	NA's	:3243
##	IL_DEGR		IN_DEGR		IS_DEGR		JP_DEGR	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.	: NA	1st Qu.	: NA	1st Qu.	: NA	1st Qu.	: NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.	: NA	3rd Qu.	: NA	3rd Qu.	: NA	3rd Qu.	: NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	KR_DEGR		LT_DEGR		LV_DEGR		MX_DEGR	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA

##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median :	NA	Median :	NA	Median :	NA	Median :	NA
##	Mean :	NaN	Mean :	NaN	Mean :	NaN	Mean :	NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max. :	NA	Max. :	NA	Max. :	NA	Max. :	NA
##	NA's :	3243	NA's :	3243	NA's :	3243	NA's :	3243
##	NL_DEGR		NO_DEGR		PH_DEGR		PL_DEGR	
##	Min. :	NA	Min. :	NA	Min. :	NA	Min. :	NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median :	NA	Median :	NA	Median :	NA	Median :	NA
##	Mean :	NaN	Mean :	NaN	Mean :	NaN	Mean :	NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max. :	NA	Max. :	NA	Max. :	NA	Max. :	NA
##	NA's :	3243	NA's :	3243	NA's :	3243	NA's :	3243
##	PT_DEGR		RU_DEGR		SE_DEGR		SI_DEGR	
##	Min. :	NA	Min. :	NA	Min. :	1.00	Min. :	NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	6.00	1st Qu.:	NA
##	Median :	NA	Median :	NA	Median :	8.00	Median :	NA
##	Mean :	NaN	Mean :	NaN	Mean :	7.93	Mean :	NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	12.00	3rd Qu.:	NA
##	Max. :	NA	Max. :	NA	Max. :	13.00	Max. :	NA
##	NA's :	3243	NA's :	3243	NA's :	2209	NA's :	3243
##	SK_DEGR		TR_DEGR		TW_DEGR		US_DEGR	
##	Min. :	NA	Min. :	NA	Min. :	NA	Min. :	NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median :	NA	Median :	NA	Median :	NA	Median :	NA
##	Mean :	NaN	Mean :	NaN	Mean :	NaN	Mean :	NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max. :	NA	Max. :	NA	Max. :	NA	Max. :	NA
##	NA's :	3243	NA's :	3243	NA's :	3243	NA's :	3243
##	VE_DEGR		ZA_DEGR		DEGREE		WORK	
##	Min. :	NA	Min. :	NA	Min. :	0.000	Min. :	1.000
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	2.000	1st Qu.:	1.000
##	Median :	NA	Median :	NA	Median :	3.000	Median :	1.000
##	Mean :	NaN	Mean :	NaN	Mean :	3.405	Mean :	1.475
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	5.000	3rd Qu.:	2.000
##	Max. :	NA	Max. :	NA	Max. :	6.000	Max. :	3.000
##	NA's :	3243	NA's :	3243	NA's :	34	NA's :	77
##	WRKHRS		EMPREL		NEMPLOY		WRKSUP	
##	Min. :	3.00	Min. :	1.000	Min. :	1.00	Min. :	1.00
##	1st Qu.:	38.00	1st Qu.:	1.000	1st Qu.:	2.00	1st Qu.:	2.00
##	Median :	40.00	Median :	1.000	Median :	4.00	Median :	2.00
##	Mean :	39.95	Mean :	1.195	Mean :	11.14	Mean :	1.82
##	3rd Qu.:	43.00	3rd Qu.:	1.000	3rd Qu.:	8.00	3rd Qu.:	2.00
##	Max. :	96.00	Max. :	4.000	Max. :	225.00	Max. :	2.00
##	NA's :	1455	NA's :	718	NA's :	3129	NA's :	283
##	NSUP		TYPORG1		TYPORG2		ISC088	
##	Min. :	1.00	Min. :	1.000	Min. :	1.000	Min. :	110
##	1st Qu.:	3.00	1st Qu.:	1.000	1st Qu.:	1.000	1st Qu.:	2470
##	Median :	8.00	Median :	1.000	Median :	2.000	Median :	4222
##	Mean :	26.88	Mean :	1.363	Mean :	1.607	Mean :	4901
##	3rd Qu.:	20.00	3rd Qu.:	2.000	3rd Qu.:	2.000	3rd Qu.:	7220
##	Max. :	2000.00	Max. :	2.000	Max. :	2.000	Max. :	9332
##	NA's :	2725	NA's :	285	NA's :	273	NA's :	472

##	MAINSTAT	PARTLIV	SPWORK	SPWRKHRS
##	Min. :1.000	Min. :1.000	Min. :1.000	Min. : 4.00
##	1st Qu.:1.000	1st Qu.:1.000	1st Qu.:1.000	1st Qu.:38.00
##	Median :1.000	Median :1.000	Median :1.000	Median :40.00
##	Mean :2.845	Mean :1.666	Mean :1.381	Mean :40.35
##	3rd Qu.:6.000	3rd Qu.:3.000	3rd Qu.:2.000	3rd Qu.:42.00
##	Max. :9.000	Max. :3.000	Max. :3.000	Max. :96.00
##	NA's :52	NA's :49	NA's :1080	NA's :1893
##	SPEMPREL	SPWRKSUP	SPISCO88	SPMAINST
##	Min. :1.000	Min. :1.000	Min. : 110	Min. :1.000
##	1st Qu.:1.000	1st Qu.:2.000	1st Qu.:2452	1st Qu.:1.000
##	Median :1.000	Median :2.000	Median :4142	Median :1.000
##	Mean :1.223	Mean :1.813	Mean :4739	Mean :2.674
##	3rd Qu.:1.000	3rd Qu.:2.000	3rd Qu.:7136	3rd Qu.:6.000
##	Max. :4.000	Max. :2.000	Max. :9332	Max. :9.000
##	NA's :1350	NA's :1173	NA's :1349	NA's :1066
##	UNION	AR_RELIG	AT_RELIG	AU_RELIG
##	Min. :1.000	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.:1.000	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median :2.000	Median : NA	Median : NA	Median : NA
##	Mean :1.925	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.:3.000	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. :3.000	Max. : NA	Max. : NA	Max. : NA
##	NA's :82	NA's :3243	NA's :3243	NA's :3243
##	BE_RELIG	BG_RELIG	CA_RELIG	CH_RELIG
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	CL_RELIG	CN_RELIG	CZ_RELIG	DE_RELIG
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	DK_RELIG	ES_RELIG	FI_RELIG	FR_RELIG
##	Min. : NA	Min. : NA	Min. : 0.0000	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: 1.0000	1st Qu.: NA
##	Median : NA	Median : NA	Median : 1.0000	Median : NA
##	Mean :NaN	Mean :NaN	Mean : 0.9697	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: 1.0000	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. :10.0000	Max. : NA
##	NA's :3243	NA's :3243	NA's :2088	NA's :3243
##	GB_RELIG	HR_RELIG	HU_RELIG	IE_RELIG
##	Min. : NA	Min. : NA	Min. : 0.000	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: 1.000	1st Qu.: NA
##	Median : NA	Median : NA	Median : 8.000	Median : NA
##	Mean :NaN	Mean :NaN	Mean : 5.428	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: 8.000	3rd Qu.: NA

##	Max. : NA	Max. : NA	Max. :15.000	Max. : NA
##	NA's :3243	NA's :3243	NA's :2247	NA's :3243
##	IL_RELIG	IN_RELIG	IS_RELIG	JP_RELIG
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	KR_RELIG	LT_RELIG	LV_RELIG	MX_RELIG
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	NL_RELIG	NO_RELIG	PH_RELIG	PL_RELIG
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	PT_RELIG	RU_RELIG	SE_RELIG	SI_RELIG
##	Min. : NA	Min. : NA	Min. : 0.000	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: 1.000	1st Qu.: NA
##	Median : NA	Median : NA	Median : 1.000	Median : NA
##	Mean :NaN	Mean :NaN	Mean : 1.081	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: 1.000	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. :10.000	Max. : NA
##	NA's :3243	NA's :3243	NA's :2200	NA's :3243
##	SK_RELIG	TR_RELIG	TW_RELIG	US_RELIG
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	VE_RELIG	ZA_RELIG	RELIGGRP	ATTEND
##	Min. : NA	Min. : NA	Min. : 0.000	Min. :1.000
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: 1.000	1st Qu.:6.000
##	Median : NA	Median : NA	Median : 2.000	Median :7.000
##	Mean :NaN	Mean :NaN	Mean : 1.496	Mean :6.502
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: 2.000	3rd Qu.:8.000
##	Max. : NA	Max. : NA	Max. :10.000	Max. :8.000
##	NA's :3243	NA's :3243	NA's :49	NA's :39
##	TOPBOT	VOTE_LE	AR_PRTY	AT_PRTY
##	Min. : 1.000	Min. :1.000	Min. : NA	Min. : NA
##	1st Qu.: 4.000	1st Qu.:1.000	1st Qu.: NA	1st Qu.: NA
##	Median : 6.000	Median :1.000	Median : NA	Median : NA

##	Mean	: 5.619	Mean	:1.098	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	7.000	3rd Qu.:	1.000	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	:10.000	Max.	:2.000	Max.	: NA	Max.	: NA
##	NA's	:90	NA's	:286	NA's	:3243	NA's	:3243
##	AU_PRTY		BE_PRTY		BG_PRTY		CA_PRTY	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	CH_PRTY		CL_PRTY		CN_PRTY		CZ_PRTY	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	DE_PRTY		DK_PRTY		ES_PRTY		FI_PRTY	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: 1.00
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	2.00
##	Median	: NA	Median	: NA	Median	: NA	Median	: 3.00
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	: 6.49
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	6.00
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	:96.00
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:2424
##	FR_PRTY		GB_PRTY		HR_PRTY		HU_PRTY	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: 1.000
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	2.000
##	Median	: NA	Median	: NA	Median	: NA	Median	: 2.000
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	: 2.284
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	2.000
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	:95.000
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:2662
##	IE_PRTY		IL_PRTY		IN_PRTY		IS_PRTY	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	JP_PRTY		KR_PRTY		LT_PRTY		LV_PRTY	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	MX_PRTY		NL_PRTY		NO_PRTY		PH_PRTY	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA

##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	PL_PRTY	PT_PRTY	RU_PRTY	SE_PRTY
##	Min. : NA	Min. : NA	Min. : NA	Min. : 1.000
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: 5.000
##	Median : NA	Median : NA	Median : NA	Median : 5.000
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean : 7.009
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: 6.000
##	Max. : NA	Max. : NA	Max. : NA	Max. :95.000
##	NA's :3243	NA's :3243	NA's :3243	NA's :2339
##	SI_PRTY	SK_PRTY	TR_PRTY	TW_PRTY
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	US_PRTY	VE_PRTY	ZA_PRTY	PARTY_LR
##	Min. : NA	Min. : NA	Min. : NA	Min. :1.000
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.:2.000
##	Median : NA	Median : NA	Median : NA	Median :4.000
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :3.288
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.:4.000
##	Max. : NA	Max. : NA	Max. : NA	Max. :6.000
##	NA's :3243	NA's :3243	NA's :3243	NA's :973
##	AR_ETHN	AT_ETHN	AU_ETHN	BE_ETHN
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	BG_ETHN	CA_ETHN	CH_ETHN	CL_ETHN
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	CN_ETHN	CZ_ETHN	DE_ETHN	DK_ETHN
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243

##	ES_ETHN	FI_ETHN	FR_ETHN	GB_ETHN
##	Min. : NA	Min. :1.000	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.:1.000	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median :1.000	Median : NA	Median : NA
##	Mean :NaN	Mean :1.103	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.:1.000	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. :3.000	Max. : NA	Max. : NA
##	NA's :3243	NA's :2073	NA's :3243	NA's :3243
##	HR_ETHN	HU_ETHN	IE_ETHN	IL_ETHN
##	Min. : NA	Min. :1.000	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.:1.000	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median :1.000	Median : NA	Median : NA
##	Mean :NaN	Mean :1.141	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.:1.000	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. :8.000	Max. : NA	Max. : NA
##	NA's :3243	NA's :2237	NA's :3243	NA's :3243
##	IN_ETHN	IS_ETHN	JP_ETHN	KR_ETHN
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	LT_ETHN	LV_ETHN	MX_ETHN	NL_ETHN
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	NO_ETHN	PH_ETHN	PL_ETHN	PT_ETHN
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	RU_ETHN	SE_ETHN	SI_ETHN	SK_ETHN
##	Min. : NA	Min. : 32.0	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: 752.0	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : 752.0	Median : NA	Median : NA
##	Mean :NaN	Mean : 832.9	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: 752.0	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. :9998.0	Max. : NA	Max. : NA
##	NA's :3243	NA's :2191	NA's :3243	NA's :3243
##	TR_ETHN	TW_ETHN	US_ETHN	VE_ETHN
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA

##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	ZA_ETHN	HHCHILDR	HHTODD	HOMPOP
##	Min. : NA	Min. :0.0000	Min. :0.0000	Min. : 1.000
##	1st Qu.: NA	1st Qu.:0.0000	1st Qu.:0.0000	1st Qu.: 2.000
##	Median : NA	Median :0.0000	Median :0.0000	Median : 2.000
##	Mean :NaN	Mean :0.3771	Mean :0.1751	Mean : 2.605
##	3rd Qu.: NA	3rd Qu.:0.0000	3rd Qu.:0.0000	3rd Qu.: 3.000
##	Max. : NA	Max. :8.0000	Max. :5.0000	Max. :14.000
##	NA's :3243			NA's :40
##	AR_RINC	AT_RINC	AU_RINC	BE_RINC
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	BG_RINC	CA_RINC	CH_RINC	CL_RINC
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	CN_RINC	CZ_RINC	DE_RINC	DK_RINC
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	ES_RINC	FI_RINC	FR_RINC	GB_RINC
##	Min. : NA	Min. : 0	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: 1300	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : 2300	Median : NA	Median : NA
##	Mean :NaN	Mean : 2902	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: 3300	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. :55000	Max. : NA	Max. : NA
##	NA's :3243	NA's :2338	NA's :3243	NA's :3243
##	HR_RINC	HU_RINC	IE_RINC	IL_RINC
##	Min. : NA	Min. : 0	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: 32000	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : 78000	Median : NA	Median : NA
##	Mean :NaN	Mean : 76398	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.:106250	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. :350000	Max. : NA	Max. : NA
##	NA's :3243	NA's :2728	NA's :3243	NA's :3243
##	IN_RINC	IS_RINC	JP_RINC	KR_RINC
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA

##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	LT_RINC		LV_RINC		MX_RINC		NL_RINC	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	NO_RINC		PH_RINC		PL_RINC		PT_RINC	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	RU_RINC		SE_RINC		SI_RINC		SK_RINC	
##	Min.	: NA	Min.	: 0	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	16000	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: 23000	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	: 27461	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	30000	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	:750000	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:2299	NA's	:3243	NA's	:3243
##	TR_RINC		TW_RINC		US_RINC		VE_RINC	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	ZA_RINC		AR_INC		AT_INC		AU_INC	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	BE_INC		BG_INC		CA_INC		CH_INC	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	CL_INC		CN_INC		CZ_INC		DE_INC	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA

##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	DK_INC	ES_INC	FI_INC	FR_INC
##	Min. : NA	Min. : NA	Min. : 0	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: 3300	1st Qu.: NA
##	Median : NA	Median : NA	Median : 5000	Median : NA
##	Mean :NaN	Mean :NaN	Mean : 5900	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: 6600	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. :60000	Max. : NA
##	NA's :3243	NA's :3243	NA's :2448	NA's :3243
##	GB_INC	HR_INC	HU_INC	IE_INC
##	Min. : NA	Min. : NA	Min. : 0	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: 95000	1st Qu.: NA
##	Median : NA	Median : NA	Median :135000	Median : NA
##	Mean :NaN	Mean :NaN	Mean :157209	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.:200000	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. :800000	Max. : NA
##	NA's :3243	NA's :3243	NA's :2821	NA's :3243
##	IL_INC	IN_INC	IS_INC	JP_INC
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	KR_INC	LT_INC	LV_INC	MX_INC
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	NL_INC	NO_INC	PH_INC	PL_INC
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	PT_INC	RU_INC	SE_INC	SI_INC
##	Min. : NA	Min. : NA	Min. : 0	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: 25000	1st Qu.: NA
##	Median : NA	Median : NA	Median : 40000	Median : NA
##	Mean :NaN	Mean :NaN	Mean : 46726	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: 55000	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. :999000	Max. : NA
##	NA's :3243	NA's :3243	NA's :2311	NA's :3243

##	SK_INC	TR_INC	TW_INC	US_INC
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	VE_INC	ZA_INC	MARITAL	URBRURAL
##	Min. : NA	Min. : NA	Min. :1.000	Min. :1.000
##	1st Qu.: NA	1st Qu.: NA	1st Qu.:1.000	1st Qu.:2.000
##	Median : NA	Median : NA	Median :2.000	Median :3.000
##	Mean :NaN	Mean :NaN	Mean :3.168	Mean :2.749
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.:6.000	3rd Qu.:4.000
##	Max. : NA	Max. : NA	Max. :6.000	Max. :5.000
##	NA's :3243	NA's :3243	NA's :41	NA's :28
##	AR_REG	AT_REG	AU_REG	BE_REG
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	BG_REG	CA_REG	CH_REG	CL_REG
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	CN_REG	CZ_REG	DE_REG	DK_REG
##	Min. : NA	Min. : NA	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : NA	Median : NA	Median : NA
##	Mean :NaN	Mean :NaN	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. : NA	Max. : NA	Max. : NA
##	NA's :3243	NA's :3243	NA's :3243	NA's :3243
##	ES_REG	FI_REG	FR_REG	GB_REG
##	Min. : NA	Min. : 1.000	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.: 1.000	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median : 6.000	Median : NA	Median : NA
##	Mean :NaN	Mean : 7.385	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.:13.000	3rd Qu.: NA	3rd Qu.: NA
##	Max. : NA	Max. :21.000	Max. : NA	Max. : NA
##	NA's :3243	NA's :2072	NA's :3243	NA's :3243
##	HR_REG	HU_REG	IE_REG	IL_REG
##	Min. : NA	Min. :1.000	Min. : NA	Min. : NA
##	1st Qu.: NA	1st Qu.:3.000	1st Qu.: NA	1st Qu.: NA
##	Median : NA	Median :5.000	Median : NA	Median : NA
##	Mean :NaN	Mean :5.026	Mean :NaN	Mean :NaN
##	3rd Qu.: NA	3rd Qu.:7.000	3rd Qu.: NA	3rd Qu.: NA

##	Max.	: NA	Max.	:9.000	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:2231	NA's	:3243	NA's	:3243
##	IN_REG		IS_REG		JP_REG		KR_REG	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	LT_REG		LV_REG		MX_REG		NL_REG	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	NO_REG		PH_REG		PL_REG		PT_REG	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	RU_REG		SE_REG		SI_REG		SK_REG	
##	Min.	: NA	Min.	: 1.00	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	7.00	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	:28.00	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:26.31	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	37.00	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	:70.00	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:2184	NA's	:3243	NA's	:3243
##	TR_REG		TW_REG		US_REG		VE_REG	
##	Min.	: NA	Min.	: NA	Min.	: NA	Min.	: NA
##	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA	1st Qu.:	NA
##	Median	: NA	Median	: NA	Median	: NA	Median	: NA
##	Mean	:NaN	Mean	:NaN	Mean	:NaN	Mean	:NaN
##	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA	3rd Qu.:	NA
##	Max.	: NA	Max.	: NA	Max.	: NA	Max.	: NA
##	NA's	:3243	NA's	:3243	NA's	:3243	NA's	:3243
##	ZA_REG		CASEID		SUBSCASE		DATEYR	
##	Min.	: NA	Min.	:2.012e+15	Min.	:0	Min.	:2012
##	1st Qu.:	NA	1st Qu.:	2.012e+15	1st Qu.:	0	1st Qu.:	2012
##	Median	: NA	Median	:2.012e+15	Median	:0	Median	:2012
##	Mean	:NaN	Mean	:2.012e+15	Mean	:0	Mean	:2012
##	3rd Qu.:	NA	3rd Qu.:	2.012e+15	3rd Qu.:	0	3rd Qu.:	2013
##	Max.	: NA	Max.	:2.012e+15	Max.	:0	Max.	:2013
##	NA's	:3243						
##	DATEMO		DATEDY		WEIGHT		MODE	
##	Min.	: 3.00	Min.	: 1.00	Min.	:0.3562	Min.	:11.00
##	1st Qu.:	3.00	1st Qu.:	16.00	1st Qu.:	0.9253	1st Qu.:	11.00
##	Median	: 3.00	Median	:18.00	Median	:1.0000	Median	:34.00

```
## Mean : 5.61 Mean :18.73 Mean :1.0000 Mean :27.95
## 3rd Qu.: 9.00 3rd Qu.:25.00 3rd Qu.:1.0877 3rd Qu.:34.00
## Max. :12.00 Max. :31.00 Max. :1.9722 Max. :40.00
##
```

```
#head(FiSeHu2012d1)
```

```
#perheeseen, työhön ja kotitöihin liittyviä kysymyksiä, Fi 23
```

```
FiSeHu2012d2 <- select(FiSeHu2012d1, C_ALPHAN,V5, V6, V7, V8, V9)
```

```
#Poistetaan rivit, joissa puuttuvia tietoja
```

```
#FiSeHu2012d2 <- filter(FiSeHu2012d2, !is.na(V5) & !is.na(V6) & !is.na(V7) & !is.na(V8) & !is.na(V9))
```

```
#Hyvä esimerkki siitä, mitä pulmia tulee kun puuttuvat havainnot jätetään pois - #havaintojen määrä on
```

Taulukko 1: Vastaukset kysymyksiin V5 - V9 (Suomi, Ruotsi ja Unkari)

```
summary(FiSeHu2012d2)
```

```
## C_ALPHAN V5 V6 V7
## Length:3243 Min. :1.000 Min. :1.000 Min. :1.00
## Class :character 1st Qu.:1.000 1st Qu.:2.000 1st Qu.:3.00
## Mode :character Median :2.000 Median :4.000 Median :4.00
## Mean :2.074 Mean :3.374 Mean :3.53
## 3rd Qu.:3.000 3rd Qu.:4.000 3rd Qu.:5.00
## Max. :5.000 Max. :5.000 Max. :5.00
## NA's :96 NA's :134 NA's :121
## V8 V9
## Min. :1.00 Min. :1.000
## 1st Qu.:2.00 1st Qu.:2.000
## Median :3.00 Median :3.000
## Mean :3.08 Mean :2.965
## 3rd Qu.:4.00 3rd Qu.:4.000
## Max. :5.00 Max. :5.000
## NA's :295 NA's :359
```

```
str(FiSeHu2012d2)
```

```
## Classes 'tbl_df', 'tbl' and 'data.frame': 3243 obs. of 6 variables:
```

```
## $ C_ALPHAN: atomic FI FI FI FI FI ...
```

```
## .. attr(*, "label")= chr "Country Prefix ISO 3166 Code - alphanumeric"
```

```
## .. attr(*, "format.spss")= chr "A20"
```

```
## .. attr(*, "display_width")= int 22
```

```
## $ V5 :Class 'labelled' atomic [1:3243] 2 5 1 1 1 4 2 1 1 1 ...
```

```
## .. .. attr(*, "label")= chr "Q1a Working mom: warm relationship with children as a not working mom"
```

```
## .. .. attr(*, "format.spss")= chr "F1.0"
```

```
## .. .. attr(*, "labels")= Named num [1:8] 0 1 2 3 4 5 8 9
```

```
## .. .. attr(*, "names")= chr [1:8] "NAP: ES" "Strongly agree" "Agree" "Neither agree nor disagree"
```

```
## $ V6 :Class 'labelled' atomic [1:3243] 4 1 5 5 5 2 2 5 3 4 ...
```

```
## .. .. attr(*, "label")= chr "Q1b Working mom: Preschool child is likely to suffer"
```

```
## .. .. attr(*, "format.spss")= chr "F1.0"
```

```
## .. .. attr(*, "labels")= Named num [1:8] 0 1 2 3 4 5 8 9
```

```
## .. .. attr(*, "names")= chr [1:8] "NAP: ES" "Strongly agree" "Agree" "Neither agree nor disagree"
```

```
## $ V7 :Class 'labelled' atomic [1:3243] 4 4 5 5 5 4 2 5 4 5 ...
```

```
## .. .. attr(*, "label")= chr "Q1c Working woman: Family life suffers when woman has full-time job"
```

```
## .. .. attr(*, "format.spss")= chr "F1.0"
```

```
## .. .. attr(*, "labels")= Named num [1:8] 0 1 2 3 4 5 8 9
```

```
## .. ..- attr(*, "names")= chr [1:8] "NAP: ES" "Strongly agree" "Agree" "Neither agree nor disagree"
## $ V8 :Class 'labelled' atomic [1:3243] 4 3 5 4 2 1 3 NA 4 3 ...
## .. ..- attr(*, "label")= chr "Q1d Working woman: What women really want is home and kids"
## .. ..- attr(*, "format.spss")= chr "F1.0"
## .. ..- attr(*, "labels")= Named num [1:8] 0 1 2 3 4 5 8 9
## .. ..- attr(*, "names")= chr [1:8] "NAP: ES" "Strongly agree" "Agree" "Neither agree nor disagree"
## $ V9 :Class 'labelled' atomic [1:3243] 2 4 2 5 3 2 4 NA 3 4 ...
## .. ..- attr(*, "label")= chr "Q1e Working woman: Being housewife is as fulfilling as working for pay"
## .. ..- attr(*, "format.spss")= chr "F1.0"
## .. ..- attr(*, "labels")= Named num [1:8] 0 1 2 3 4 5 8 9
## .. ..- attr(*, "names")= chr [1:8] "NAP: ES" "Strongly agree" "Agree" "Neither agree nor disagree"
## - attr(*, "notes")= chr "document Plan File: /Users/marcic/Desktop/old/GPS2011 sampling/ISSP2013.s"

```

```
head(FiSeHu2012d2)
```

```
## # A tibble: 6 x 6
##   C_ALPHAN V5      V6      V7      V8      V9
##   <chr>    <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl+lbl>
## 1 FI      2          4          4          4          2
## 2 FI      5          1          4          3          4
## 3 FI      1          5          5          5          2
## 4 FI      1          5          5          4          5
## 5 FI      1          5          5          2          3
## 6 FI      4          2          4          1          2

```

```
#rajataan kysymykseen V6 "Working mom - preschool child is likely to suffer", 1-5 sa - sd
FiSeHu2012d3 <- select(FiSeHu2012d2, C_ALPHAN, V6)
```

ToDo2

Puuttuvat tiedot pois. /ok, ehkä turha tehdä omaa dataa, na.rm =TRUE? Suoraan yksi frekvenssitaulukko; ehkä yksi maavertailugrafiikka myös?

Frekvenssitaulukon luonti. Luokitellut muuttujat factoreiksi, pitäisikö tehdä jo datan luontivaiheessa? Huomaa erityisesti Espanjan(ES) poikkeava data "Strongly agree" "Agree" "Neither agree nor disagree" ... Seuraava ei toimi alkuunkaan. Ei näin! Ensin kuntoon data, faktoreita ja nimiä.

```
# vastaus_koodi1 <- read.table("clipboard") - ei toimi??
#test1 <- count(FiSeHu2012d2, V5) - ei toimi

#Ehkä parempi?
#FiSeHuTau1 <- group_by(FiSeHu2012d2, C_ALPHAN)
#FiSeHuTau2 <- summarise(FiSeHuTau1,
#   count = n(),
#
#)
#vastaus_levels <- c("ts","s","ese","e","te","eos")
#test1 <- factor(FiSeHu2012d2,V6, levels = vastaus_levels)

```

vaihtoehto,koodi,lyhenne Täysin samaa mieltä,1,ts Samaa mieltä,2,s En samaa enkä eri mieltä,3,ese Eri mieltä,4, e Täysin eri mieltä,5,te En osaa sanoa,8,eos Nämä kuvien selityksiin, ei sotkemaan kuvia.

Kysymys 23, V5 - V9 datassa a) Työssäkäyvä äiti pystyy luomaan lapsiinsa aivan yhtä lämpimän ja turvallisen suhteen kuin äiti, joka ei käy työssä b) Alle kouluikäinen lapsi todennäköisesti kärsii, jos hänen äitinsä käy työssä c) Kaiken kaikkiaan perhe-elämä kärsii, kun naisella on kokopäivätyö d) On hyvä käydä töissä mutta

tosiasiassa useimmat naiset haluavat ensisijaisesti kodin ja lapsia e) Kotirouvana oleminen on aivan yhtä antoisaa kuin ansiotyön tekeminen