

Making Choices about the EVS data

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Countries and Observations: Matrix Desing VS Integrated data

Remember from the pdf file ZA7500_mr.pdf * The Integrated Dataset (ZA7500) contains data from 55,256 respondents and 33 countries. * The Matrix Design Dataset (ZA7502) includes data from 10,598 respondents and the four countries (DE IS CH NL) that used the matrix design.

Observations are divided in

```
lapply(list(int.dt = int.dt$mm_select_sample,
            mad.dt = mad.dt$mm_select_sample), table)
```

```
## $int.dt
##
##      1      2      3      4
## 47195 3793  437 3851
##
## $mad.dt
##
##      2      3      4      5      6      7
## 1316  437 3851 1635 3237  122
```

And you can see here what those values mean:

```
val_labels(int.dt$mm_select_sample)

##                                interviewer-administered (CAPI PAPI CATI)
##                                                                1
## self-administered full-length questionnaire: original question order (CAWI Mail)
##                                                                2
## self-administered full-length questionnaire: modified question order (CAWI Mail)
##                                                                3
##                                self-administered matrix: with follow-up (CAWI Mail)
##                                                                4
##                                self-administered matrix: follow-up non response (CAWI Mail)
##                                                                5
##                                self-administered matrix: first survey only (CAWI Mail - DE)
##                                                                6
##                                break-off (less than 50% valid answers)
##                                                                7
```

If you consider the 6 EU founding countries (Belgium, France, Germany, Italy, Luxembourg, Netherlands), this is how observations are distributed among the two datasets:

```
countries <- c("Belgium", "France", "Germany", "Italy", "Luxembourg", "Netherlands")
```

```
tab.1 <- table(int.df$country, int.df$mm_select_sample)
print(tab.1[rownames(tab.1) %in% countries, ])
```

```
##
##           1      2      3      4
##  France    1870    0      0      0
##  Germany    1494   676    0      0
##  Italy      2277    0      0      0
##  Netherlands 686     0      0 1718
```

```
tab.2 <- table(mad.df$country, mad.df$mm_select_sample)
print(tab.2[rownames(tab.2) %in% countries, ])
```

```
##
##           2      3      4      5      6      7
##  France      0      0      0      0      0      0
##  Germany     676      0      0      0 3237    49
##  Italy        0      0      0      0      0      0
##  Netherlands  0      0 1718   324      0    11
```

- Belgium and Luxembourg are not surveyed by EVS 2017.
- Netherlands has almost 2000 observations in group 4 (self-administered matrix)

In **conclusion**:

- Countries to keep: France, Germany, Italy, Netherlands
- Subsamples to keep: 1 and 4 from the integrated dataset

Variables to keep

Generic variables by type:

```
id <- "id_cocas"
ord <- paste0("v", c(1:8, 32:39, 46:50, 63:70, 72:84,
                     97:107, 115:168, 170:172,
                     176:203, 205:224,
                     240, 242, 267:274, 280,
                     c("174_LR", "239_r", "239a", "239b"))))
dic <- paste0("v", c(9:31, 40:45, 51, 57:61, 71, 85:95,
                     112, 169, 225, 227, 230, 232, 248, 259, 260))
nom <- paste0("v", c(52, 62, # religiosity
                     108:111, 113:114, 234, 238))
```

Political tendencies

Use a variable measuring self reported tendency to vote for parties (recoded by EVS into a continuous variable)

```
pol <- "v175_LR"
val_labels(int.df[, pol])
```

```
## multiple answers Mail          no follow-up follow-up non response
##           -10              -9              -8
##      other missing      item not included      not applicable
##           -5              -4              -3
##           no answer      dont know          left
##           -2              -1              1
```

```
##           right      not classifiable
##           10         44
```

```
table(int.df[, pol])
```

```
##
##    -5    -3    -2    -1     1     2     3     4     5     6     7     8     9
## 10821 4859 9927 7902  863 1157 2961 3731 2293 4058 3451 2015  679
##    10    44
##   443   116
```

The 116 ‘not classifiable’ cases are assigned missing values

```
int.df[which(int.df[, pol] == 44), pol] <- NA
```

Age

For age, I use a constructed age variables in “number of years old” format.

```
age <- "age"
val_labels(int.df[, age])
```

```
## multiple answers Mail      no follow-up follow-up non response
##                               -10                -9                -8
##      other missing      item not included      not applicable
##                               -5                -4                -3
##      no answer      dont know      82 and older
##                               -2                -1                82
```

```
table(int.df[, age])
```

```
##
##   -2   -1   18   19   20   21   22   23   24   25   26   27   28   29   30   31
## 311   11  521  818  762  782  779  759  749  745  825  842  843  849  859  856
##  32   33   34   35   36   37   38   39   40   41   42   43   44   45   46   47
## 809  819  820  896  884  942  901  905  976  912  902  887  873  912  892  944
##  48   49   50   51   52   53   54   55   56   57   58   59   60   61   62   63
## 946  983  978  942  957 1017  933  940  934  994 1050  954 1020  941  957  999
##  64   65   66   67   68   69   70   71   72   73   74   75   76   77   78   79
## 989 1008  890  972  945  892  892  834  637  640  610  532  539  504  528  417
##   80   81   82
##  434  364 1519
```

Education

For education, I use the ISCED version and I will be treating it as continuous. I do this for the education of the respondent and their father and mother.

```
# Education
edu <- c("v243_ISCED_1", # continuous is fine
        "v262_ISCED_1",
        "v263_ISCED_1")

lapply(int.df[, edu], function(x) {
  list(label = var_label(x),
        table = table(x))
})
```

```
## $v243_ISCED_1
## $v243_ISCED_1$label
## [1] "educational level respondent: ISCED-code one digit (Q81)"
##
## $v243_ISCED_1$table
## x
##      -2      -1       0       1       2       3       4       5       6       7       8      66
##    291     77    458   2423   8140  22778   2556   4187   6156   7593   533    84
##
##
## $v262_ISCED_1
## $v262_ISCED_1$label
## [1] "educational level father: ISCED-code one digit (Q99)"
##
## $v262_ISCED_1$table
## x
##      -3      -2      -1       0       1       2       3       4       5       6       7       8      66
##     58    920   3079   3697   7664  10774  18030   1584   2756   2199   3923   472   120
##
##
## $v263_ISCED_1
## $v263_ISCED_1$label
## [1] "educational level mother: ISCED-code one digit (Q100)"
##
## $v263_ISCED_1$table
## x
##      -3      -2      -1       0       1       2       3       4       5       6       7       8      66
##     16    834   2248   4385   8891  13521  16111   1301   2429   2337   2965   170    68
```

Values 66 need to be recoded as missings as it does not belong in any order of education.

```
val_labels(int.df[, edu[1]])
```

```
##          no follow-up      follow-up non response
##                -9                -8
##          other missing      item not included
##                -5                -4
##          not applicable      no answer
##                -3                -2
##          dont know          Less than primary
##                -1                0
##          Primary            Lower secondary
##                1                2
##          Upper secondary    Post-secondary non tertiary
##                3                4
##          Short-cycle tertiary Bachelor or equivalent
##                5                6
##          Master or equivalent Doctoral or equivalent
##                7                8
##          other
##                66
```

```
# Check presence of 66 cases
```

```
for (j in edu) {
  int.df[which(int.df[, j] == 66), j] <- NA
}
```