Union Variables

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Load the data

##load recoded ces files  
load(here("Data", "recoded\_cesdata.Rdata"))

This is just a bare-bones recode of the union variables.

#just check the 04s  
ces0411 %>%  
 mutate(union\_both04=case\_when(  
 ces04\_CPS\_S6A==1 | ces04\_CPS\_S6B==1 ~ 1,  
 ces04\_CPS\_S6A==5 ~ 0,  
 ces04\_CPS\_S6B==5 ~ 0,  
 TRUE ~ NA\_real\_  
 # ces04\_CPS\_S6A==8 & ces04\_CPS\_S6B==8 ~ NA\_real\_,  
 # ces04\_CPS\_S6A==9 & ces04\_CPS\_S6B==9 ~ NA\_real\_,  
 # ces06\_CPS\_S6A==1 | ces06\_CPS\_S6B==1 & ces04\_rtype1==1 ~ 1,  
 # ces06\_CPS\_S6A==5 & ces04\_rtype1==1 ~ 0,  
 # ces06\_CPS\_S6B==5 & ces04\_rtype1==1 ~ 0,  
 ))->ces0411

Now we just filter only the respondents who took the PES04 and print.

library(flextable)  
ces0411 %>%   
 filter(str\_detect(ces0411$survey, "PES04")) %>%   
 #select employment status, respondent union, household union variables  
 select(ces04\_CPS\_S4, ces04\_CPS\_S6A, ces04\_CPS\_S6B, union\_both04) %>%   
 #gtroup by each one  
 group\_by(ces04\_CPS\_S4, ces04\_CPS\_S6A,ces04\_CPS\_S6B, union\_both04) %>%   
 #count the numbers in each group  
 summarize(n=n()) %>%   
 #turn to factors for the value labels  
 as\_factor() %>%   
 #print the table in a pretty way  
 knitr::kable()

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ces04\_CPS\_S4 | ces04\_CPS\_S6A | ces04\_CPS\_S6B | union\_both04 | n |
| Self-employed (with/without employees) | NA | NA | NA | 389 |
| Working for pay (full- or part-time) | Yes | NA | 1 | 581 |
| Working for pay (full- or part-time) | No | Yes | 1 | 196 |
| Working for pay (full- or part-time) | No | No | 0 | 693 |
| Working for pay (full- or part-time) | No | don’t know | 0 | 8 |
| Working for pay (full- or part-time) | don’t know | No | 0 | 2 |
| Working for pay (full- or part-time) | don’t know | don’t know | NA | 3 |
| Working for pay (full- or part-time) | refused | refused | NA | 1 |
| Working for pay (full- or part-time) | NA | NA | NA | 3 |
| Retired | NA | NA | NA | 766 |
| Unemployed/Looking for work | NA | NA | NA | 111 |
| Student | NA | NA | NA | 95 |
| Caring for a family | NA | NA | NA | 120 |
| Disabled | NA | NA | NA | 51 |
| R volunteers: Work at 2 or more jobs | Yes | NA | 1 | 1 |
| R volunteers: Work at 2 or more jobs | NA | NA | NA | 19 |
| Student and working for pay | NA | NA | NA | 27 |
| Caring for family and working for pay | NA | NA | NA | 16 |
| Retired and working for pay | NA | NA | NA | 24 |
| Other [specify] | NA | NA | NA | 19 |
| don’t know | No | No | 0 | 1 |
| don’t know | NA | NA | NA | 4 |
| refused | NA | NA | NA | 11 |

Now as we found, there were a bunch of ces04 people who were reinterviewed in ces06 and we tried this trick of using their ces06 union status and applying it to ces04. But most people in ces04 who were NA on the union variables were actually retired. We can just look at what happened to them in this table that shows ces04 employment status, by ces06 union variables (respondent and household.)

#take the data  
ces0411 %>%   
 #filter only people who took ces06  
 filter(str\_detect(ces0411$survey, "PES06")) %>%   
 #Select the ces04\_rtype1, the ces04 employment status variable and the CES06 UNION VARIABLES  
 select(ces04\_rtype1, ces04\_CPS\_S4, ces06\_CPS\_S6A, ces06\_CPS\_S6B, union\_both04) %>%   
#Group  
 group\_by(ces04\_CPS\_S4, ces06\_CPS\_S6A, ces06\_CPS\_S6B) %>%   
 #count  
 summarize(n=n()) %>%   
as\_factor() %>%   
 knitr::kable()

|  |  |  |  |
| --- | --- | --- | --- |
| ces04\_CPS\_S4 | ces06\_CPS\_S6A | ces06\_CPS\_S6B | n |
| Self-employed (with/without employees) | Yes | NA | 3 |
| Self-employed (with/without employees) | No | Yes | 2 |
| Self-employed (with/without employees) | No | No | 21 |
| Self-employed (with/without employees) | No | don’t know | 1 |
| Self-employed (with/without employees) | NA | NA | 194 |
| Working for pay (full- or part-time) | Yes | NA | 295 |
| Working for pay (full- or part-time) | No | Yes | 80 |
| Working for pay (full- or part-time) | No | No | 291 |
| Working for pay (full- or part-time) | No | don’t know | 1 |
| Working for pay (full- or part-time) | don’t know | No | 1 |
| Working for pay (full- or part-time) | NA | NA | 103 |
| Retired | Yes | NA | 1 |
| Retired | No | Yes | 2 |
| Retired | No | No | 1 |
| Retired | NA | NA | 449 |
| Unemployed/Looking for work | Yes | NA | 4 |
| Unemployed/Looking for work | No | Yes | 2 |
| Unemployed/Looking for work | No | No | 13 |
| Unemployed/Looking for work | NA | NA | 32 |
| Student | Yes | NA | 4 |
| Student | No | No | 7 |
| Student | NA | NA | 20 |
| Caring for a family | Yes | NA | 1 |
| Caring for a family | No | Yes | 2 |
| Caring for a family | No | No | 4 |
| Caring for a family | NA | NA | 56 |
| Disabled | No | Yes | 1 |
| Disabled | No | No | 3 |
| Disabled | NA | NA | 21 |
| R volunteers: Work at 2 or more jobs | Yes | NA | 4 |
| R volunteers: Work at 2 or more jobs | No | No | 3 |
| R volunteers: Work at 2 or more jobs | NA | NA | 8 |
| Student and working for pay | Yes | NA | 1 |
| Student and working for pay | No | Yes | 2 |
| Student and working for pay | No | No | 3 |
| Student and working for pay | NA | NA | 6 |
| Caring for family and working for pay | Yes | NA | 3 |
| Caring for family and working for pay | No | No | 3 |
| Caring for family and working for pay | NA | NA | 2 |
| Retired and working for pay | No | No | 2 |
| Retired and working for pay | NA | NA | 13 |
| Other [specify] | Yes | NA | 1 |
| Other [specify] | No | Yes | 1 |
| Other [specify] | No | No | 1 |
| Other [specify] | NA | NA | 9 |
| don’t know | NA | NA | 1 |
| refused | No | No | 1 |
| refused | NA | NA | 4 |
| NA | Yes | NA | 318 |
| NA | No | Yes | 79 |
| NA | No | No | 370 |
| NA | No | don’t know | 3 |
| NA | don’t know | don’t know | 1 |
| NA | NA | NA | 795 |