Ejemplo de template de RMD para producir análisis, que se guardan en word

template 001

[incluir nombre o nickname aqui]

Sun Mar 20, 2022

# Abrir datos

## Cargar datos

#------------------------------------------------------------------------------  
# abrir datos  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# crear objeto de datos  
#----------------------------------------------------------  
  
data\_16 <- psi2301::iccs\_2016

## Inspeccionar datos

#------------------------------------------------------------------------------  
# inspeccionar datos  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# dimensiones  
#----------------------------------------------------------  
  
dim(data\_16)

## [1] 94603 622

# Resultado: dim() nos entrega dos resultados,  
# toma como input a una tabla o matriz  
# la cantidad de filas (i.e., casos)  
# la cantidad de columnas (i.e., variables)  
  
#----------------------------------------------------------  
# inspeccionar datos con codigo base  
#----------------------------------------------------------  
  
str(data\_16)

## tibble [94,603 × 622] (S3: tbl\_df/tbl/data.frame)  
## $ COUNTRY : chr [1:94603] "BFL" "BFL" "BFL" "BFL" ...  
## ..- attr(\*, "label")= chr "Participant Alphanumeric Code"  
## $ IDCNTRY : 'haven\_labelled' num [1:94603] 956 956 956 956 956 956 956 956 956 956 ...  
## ..- attr(\*, "label")= chr "Participant Code"  
## ..- attr(\*, "labels")= Named num [1:2] 999998 999999  
## .. ..- attr(\*, "names")= chr [1:2] "Not administered" "Omitted"  
## $ IDSTUD : 'haven\_labelled' num [1:94603] 10010301 10010302 10010303 10010304 10010305 ...  
## ..- attr(\*, "label")= chr "STUDENT ID"  
## ..- attr(\*, "labels")= Named num [1:2] 99999998 99999999  
## .. ..- attr(\*, "names")= chr [1:2] "Not administered" "Omitted"  
## $ IDSCHOOL : 'haven\_labelled' num [1:94603] 1001 1001 1001 1001 1001 ...  
## ..- attr(\*, "label")= chr "SCHOOL ID"  
## ..- attr(\*, "labels")= Named num [1:2] 9998 9999  
## .. ..- attr(\*, "names")= chr [1:2] "Not administered" "Omitted"  
## $ IDCLASS : 'haven\_labelled' num [1:94603] 100103 100103 100103 100103 100103 ...  
## ..- attr(\*, "label")= chr "CLASS ID"  
## ..- attr(\*, "labels")= Named num [1:2] 999998 999999  
## .. ..- attr(\*, "names")= chr [1:2] "Not administered" "Omitted"  
## $ IDGRADE : 'haven\_labelled' num [1:94603] 8 8 8 8 8 8 8 8 8 8 ...  
## ..- attr(\*, "label")= chr "Grade ID"  
## ..- attr(\*, "labels")= Named num [1:6] 7 8 9 10 98 99  
## .. ..- attr(\*, "names")= chr [1:6] "Grade 7" "Grade 8" "Grade 9" "Grade 10" ...  
## $ IDPOP : 'haven\_labelled' num [1:94603] 2 2 2 2 2 2 2 2 2 2 ...  
## ..- attr(\*, "label")= chr "Population ID"  
## ..- attr(\*, "labels")= Named num [1:4] 2 3 8 9  
## .. ..- attr(\*, "names")= chr [1:4] "Target grade" "Additional grade" "Not administered" "Omitted"  
## $ IS3G03 : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "About You/What is the highest level of education you expect to complete"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "<ISCED level 6, 7 or 8>" "<ISCED level 4 or 5>" "<ISCED level 3>" "<ISCED level 2> or below" ...  
## $ IS3G03BA : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/Do any of these people live at home with you most or all of the time/Mother"  
## ..- attr(\*, "labels")= Named num [1:5] 1 2 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Yes" "No" "Invalid" "Not administered" ...  
## $ IS3G03BB : 'haven\_labelled' num [1:94603] 2 2 2 2 2 2 2 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/Do any of these people live at home with you most or all of the time/Other <female guardian>"  
## ..- attr(\*, "labels")= Named num [1:5] 1 2 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Yes" "No" "Invalid" "Not administered" ...  
## $ IS3G03BC : 'haven\_labelled' num [1:94603] 1 1 1 1 1 2 2 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/Do any of these people live at home with you most or all of the time/Father"  
## ..- attr(\*, "labels")= Named num [1:5] 1 2 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Yes" "No" "Invalid" "Not administered" ...  
## $ IS3G03BD : 'haven\_labelled' num [1:94603] 2 2 2 2 2 1 2 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/Do any of these people live at home with you most or all of the time/Other <male guardian>"  
## ..- attr(\*, "labels")= Named num [1:5] 1 2 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Yes" "No" "Invalid" "Not administered" ...  
## $ IS3G03BE : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 2 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/Do any of these people live at home with you most or all of the time/Siblings"  
## ..- attr(\*, "labels")= Named num [1:5] 1 2 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Yes" "No" "Invalid" "Not administered" ...  
## $ IS3G03BF : 'haven\_labelled' num [1:94603] 2 2 2 2 2 2 2 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/Do any of these people live at home with you most or all of the time/Grandparents"  
## ..- attr(\*, "labels")= Named num [1:5] 1 2 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Yes" "No" "Invalid" "Not administered" ...  
## $ IS3G03BG : 'haven\_labelled' num [1:94603] 2 2 2 2 2 2 2 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/Do any of these people live at home with you most or all of the time/Others"  
## ..- attr(\*, "labels")= Named num [1:5] 1 2 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Yes" "No" "Invalid" "Not administered" ...  
## $ IS3G04A : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 0 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/In what country were you and your parents born/You"  
## ..- attr(\*, "labels")= Named num [1:5] 0 1 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Other" "Country of birth is country of test" "Invalid" "Not administered" ...  
## $ IS3G04B : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 0 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/In what country were you and your parents born/Mother or <female guardian>"  
## ..- attr(\*, "labels")= Named num [1:5] 0 1 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Other" "Country of birth is country of test" "Invalid" "Not administered" ...  
## $ IS3G04C : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/In what country were you and your parents born/Father or <male guardian>"  
## ..- attr(\*, "labels")= Named num [1:5] 0 1 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Other" "Country of birth is country of test" "Invalid" "Not administered" ...  
## $ IS3G05 : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 0 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/What language do you speak at home most of the time"  
## ..- attr(\*, "labels")= Named num [1:5] 0 1 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Other" "Language at home is language of test" "Invalid" "Not administered" ...  
## $ IS3G07 : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/What is the highest level of education completed by your mother or <female guardian>"  
## ..- attr(\*, "labels")= Named num [1:8] 1 2 3 4 5 7 8 9  
## .. ..- attr(\*, "names")= chr [1:8] "<ISCED level 6, 7 or 8>" "<ISCED level 4 or 5>" "<ISCED level 3>" "<ISCED level 2>" ...  
## $ IS3G09 : 'haven\_labelled' num [1:94603] 1 1 1 1 2 3 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/What is the highest level of education completed by your father or <male guardian>"  
## ..- attr(\*, "labels")= Named num [1:8] 1 2 3 4 5 7 8 9  
## .. ..- attr(\*, "names")= chr [1:8] "<ISCED level 6, 7 or 8>" "<ISCED level 4 or 5>" "<ISCED level 3>" "<ISCED level 2>" ...  
## $ IS3G10A : 'haven\_labelled' num [1:94603] 3 2 4 3 4 4 3 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/How interested in political and social issues/You"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Very interested" "Quite interested" "Not very interested" "Not interested at all" ...  
## $ IS3G10B : 'haven\_labelled' num [1:94603] 3 2 2 2 2 3 2 NA 2 3 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/How interested in political and social issues/Mother or <female guardian>"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Very interested" "Quite interested" "Not very interested" "Not interested at all" ...  
## $ IS3G10C : 'haven\_labelled' num [1:94603] 2 3 2 2 2 3 2 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/How interested in political and social issues/Father or <male guardian>"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Very interested" "Quite interested" "Not very interested" "Not interested at all" ...  
## $ IS3G11 : 'haven\_labelled' num [1:94603] 3 5 3 2 5 3 4 NA 5 3 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/About how many books are there in your home"  
## ..- attr(\*, "labels")= Named num [1:8] 1 2 3 4 5 7 8 9  
## .. ..- attr(\*, "names")= chr [1:8] "None or very few (0–10 books)" "Enough to fill one shelf (11–25 books)" "Enough to fill one bookcase (26–100 books)" "Enough to fill two bookcase (101–200 books)" ...  
## $ IS3G12A : 'haven\_labelled' num [1:94603] 3 3 2 4 4 3 3 NA 2 3 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/How many devices are used regularly/Desktop or portable computers (laptop, notebook or netbook)"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "None" "One" "Two" "Three or more" ...  
## $ IS3G12B : 'haven\_labelled' num [1:94603] 4 4 2 2 3 3 2 NA 2 4 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/How many devices are used regularly/Tablet devices or e-readers (e.g. <iPad> or <Kindle>)"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "None" "One" "Two" "Three or more" ...  
## $ IS3G12C : 'haven\_labelled' num [1:94603] 4 3 3 4 4 4 3 NA 4 3 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/How many devices are used regularly/Mobile phones with internet access (e.g. <smart phones>)"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "None" "One" "Two" "Three or more" ...  
## $ IS3G13 : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Home and your Family/Do you have an Internet connection at home"  
## ..- attr(\*, "labels")= Named num [1:5] 1 2 7 8 9  
## .. ..- attr(\*, "names")= chr [1:5] "Yes" "No" "Invalid" "Not administered" ...  
## $ IS3G14A : 'haven\_labelled' num [1:94603] 2 3 1 1 1 1 4 NA 3 2 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/How often involved/Talking with your parent(s) about political or social issues"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never or hardly ever" "Monthly (at least once a month)" "Weekly (at least once a week)" "Daily or almost daily" ...  
## $ IS3G14B : 'haven\_labelled' num [1:94603] 3 2 1 4 1 3 3 NA 4 4 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/How often involved/Watching television to inform about national and international news"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never or hardly ever" "Monthly (at least once a month)" "Weekly (at least once a week)" "Daily or almost daily" ...  
## $ IS3G14C : 'haven\_labelled' num [1:94603] 1 2 4 1 1 1 1 NA 3 4 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/How often involved/Reading newspaper to inform about national and international news"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never or hardly ever" "Monthly (at least once a month)" "Weekly (at least once a week)" "Daily or almost daily" ...  
## $ IS3G14D : 'haven\_labelled' num [1:94603] 1 2 1 1 1 1 1 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/How often involved/Talking with friends about political or social issues"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never or hardly ever" "Monthly (at least once a month)" "Weekly (at least once a week)" "Daily or almost daily" ...  
## $ IS3G14E : 'haven\_labelled' num [1:94603] 2 3 1 3 1 2 4 NA 4 2 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/How often involved/Talking with your parent(s) about what is happening in other countries"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never or hardly ever" "Monthly (at least once a month)" "Weekly (at least once a week)" "Daily or almost daily" ...  
## $ IS3G14F : 'haven\_labelled' num [1:94603] 1 2 1 2 1 1 2 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/How often involved/Talking with friends about what is happening in other countries"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never or hardly ever" "Monthly (at least once a month)" "Weekly (at least once a week)" "Daily or almost daily" ...  
## $ IS3G14G : 'haven\_labelled' num [1:94603] 2 1 1 1 1 1 1 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/How often involved/Using internet to find information about political or social issues"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never or hardly ever" "Monthly (at least once a month)" "Weekly (at least once a week)" "Daily or almost daily" ...  
## $ IS3G14H : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/How often involved/Posting a comment or image regarding a political or social is"| \_\_truncated\_\_  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never or hardly ever" "Monthly (at least once a month)" "Weekly (at least once a week)" "Daily or almost daily" ...  
## $ IS3G14I : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 2 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/How often involved/Sharing or commenting on another person’s online post regardi"| \_\_truncated\_\_  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never or hardly ever" "Monthly (at least once a month)" "Weekly (at least once a week)" "Daily or almost daily" ...  
## $ IS3G15A : 'haven\_labelled' num [1:94603] 3 3 3 3 3 3 3 NA 3 3 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/Have you ever been involved/A youth organisation affiliated with political party or union"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G15B : 'haven\_labelled' num [1:94603] 3 3 3 2 3 3 2 NA 3 3 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/Have you ever been involved/An environmental action group or organisation"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G15C : 'haven\_labelled' num [1:94603] 3 3 3 3 3 3 3 NA 3 3 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/Have you ever been involved/A Human Rights organisation"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G15D : 'haven\_labelled' num [1:94603] 3 3 3 3 1 3 2 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/Have you ever been involved/A voluntary group doing something to help the community"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G15E : 'haven\_labelled' num [1:94603] 1 1 2 3 2 1 1 NA 3 1 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/Have you ever been involved/An organisation collecting money for a social cause"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G15F : 'haven\_labelled' num [1:94603] 3 3 3 3 3 3 3 NA 3 3 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/Have you ever been involved/A group of young people campaigning for an issue"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G15G : 'haven\_labelled' num [1:94603] 3 3 3 2 3 3 3 NA 3 3 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/Have you ever been involved/An animal rights or animal welfare group"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G15H : 'haven\_labelled' num [1:94603] 3 3 3 3 3 3 2 NA 3 1 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/Have you ever been involved/A religious group or organisation"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G15I : 'haven\_labelled' num [1:94603] 2 2 1 2 1 1 2 NA 3 2 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/Have you ever been involved/A community youth group (such as <boys/girls scouts, YMCA>)"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G15J : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your Activities Outside School/Have you ever been involved/A sports team"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G16A : 'haven\_labelled' num [1:94603] 2 2 3 3 3 3 2 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Your School/At school, have you ever done/Active participation in an organised debate"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G16B : 'haven\_labelled' num [1:94603] 2 2 3 2 2 1 3 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your School/At school, have you ever done/Voting for <class representative> or <school parliament>"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G16C : 'haven\_labelled' num [1:94603] 3 3 3 2 3 2 3 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Your School/At school, have you ever done/Taking part in decision-making about how the school is run"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G16D : 'haven\_labelled' num [1:94603] 3 1 3 3 2 3 3 NA 3 1 ...  
## ..- attr(\*, "label")= chr "Your School/At school, have you ever done/Taking part in discussions at a <student assembly>"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G16E : 'haven\_labelled' num [1:94603] 3 2 3 3 2 2 3 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Your School/At school, have you ever done/Becoming a candidate for <class representative> or <school parliament>"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G16F : 'haven\_labelled' num [1:94603] 3 1 3 2 1 2 2 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Your School/At school, have you ever done/Participating in an activity to make school more <environmentally friendly>"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G16G : 'haven\_labelled' num [1:94603] 2 1 3 2 1 2 1 NA 3 2 ...  
## ..- attr(\*, "label")= chr "Your School/At school, have you ever done/Voluntary participation in school based music or drama activities out"| \_\_truncated\_\_  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Yes, I have done this within the last twelve months" "Yes, I have done this but more than a year ago" "No, I have never done this" "Invalid" ...  
## $ IS3G17A : 'haven\_labelled' num [1:94603] 3 2 1 3 4 2 4 NA 1 2 ...  
## ..- attr(\*, "label")= chr "Your School/Discussing issues, how often happen/Teachers encourage students to make up their own minds"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never" "Rarely" "Sometimes" "Often" ...  
## $ IS3G17B : 'haven\_labelled' num [1:94603] 3 2 2 1 3 1 4 NA 1 2 ...  
## ..- attr(\*, "label")= chr "Your School/Discussing issues, how often happen/Teachers encourage students to express their opinions"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never" "Rarely" "Sometimes" "Often" ...  
## $ IS3G17C : 'haven\_labelled' num [1:94603] 2 2 1 2 2 2 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your School/Discussing issues, how often happen/Students bring up current political events for discussion in class"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never" "Rarely" "Sometimes" "Often" ...  
## $ IS3G17D : 'haven\_labelled' num [1:94603] 4 3 4 4 4 3 3 NA 3 1 ...  
## ..- attr(\*, "label")= chr "Your School/Discussing issues, how often happen/Students express opinions in class even when opinions are different"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never" "Rarely" "Sometimes" "Often" ...  
## $ IS3G17E : 'haven\_labelled' num [1:94603] 2 3 1 2 1 1 4 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your School/Discussing issues, how often happen/Teachers encourage to discuss with people having different opinions"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never" "Rarely" "Sometimes" "Often" ...  
## $ IS3G17F : 'haven\_labelled' num [1:94603] 3 4 3 4 3 2 3 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your School/Discussing issues, how often happen/Teachers present several sides of issues when explaining them in class"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Never" "Rarely" "Sometimes" "Often" ...  
## $ IS3G18A : 'haven\_labelled' num [1:94603] 3 2 1 2 4 2 4 NA 4 2 ...  
## ..- attr(\*, "label")= chr "Your School/At school, to what extent have you learned/How citizens can vote in local or national elections"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "To a large extent" "To a moderate extent" "To a small extent" "Not at all" ...  
## $ IS3G18B : 'haven\_labelled' num [1:94603] 3 4 4 3 4 2 4 NA 3 2 ...  
## ..- attr(\*, "label")= chr "Your School/At school, to what extent have you learned/How laws are introduced and changed in <country of test>"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "To a large extent" "To a moderate extent" "To a small extent" "Not at all" ...  
## $ IS3G18C : 'haven\_labelled' num [1:94603] 2 1 1 2 1 1 1 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Your School/At school, to what extent have you learned/How to protect the environment"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "To a large extent" "To a moderate extent" "To a small extent" "Not at all" ...  
## $ IS3G18D : 'haven\_labelled' num [1:94603] 3 4 4 3 4 3 3 NA 3 2 ...  
## ..- attr(\*, "label")= chr "Your School/At school, to what extent have you learned/How to contribute to solving problems in the <local community>"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "To a large extent" "To a moderate extent" "To a small extent" "Not at all" ...  
## $ IS3G18E : 'haven\_labelled' num [1:94603] 3 4 4 4 4 4 4 NA 3 3 ...  
## ..- attr(\*, "label")= chr "Your School/At school, to what extent have you learned/How citizen rights are protected in <country of test>"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "To a large extent" "To a moderate extent" "To a small extent" "Not at all" ...  
## $ IS3G18F : 'haven\_labelled' num [1:94603] 3 3 4 2 2 3 4 NA 4 2 ...  
## ..- attr(\*, "label")= chr "Your School/At school, to what extent have you learned/Political issues and events in other countries"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "To a large extent" "To a moderate extent" "To a small extent" "Not at all" ...  
## $ IS3G18G : 'haven\_labelled' num [1:94603] 3 4 4 3 3 3 4 NA 4 2 ...  
## ..- attr(\*, "label")= chr "Your School/At school, to what extent have you learned/How the economy works"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "To a large extent" "To a moderate extent" "To a small extent" "Not at all" ...  
## $ IS3G19A : 'haven\_labelled' num [1:94603] 1 3 2 2 2 2 2 NA 1 2 ...  
## ..- attr(\*, "label")= chr "Your School/Teachers and students at your school/Most of my teachers treat me fairly"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G19B : 'haven\_labelled' num [1:94603] 2 2 3 3 3 4 2 NA 2 3 ...  
## ..- attr(\*, "label")= chr "Your School/Teachers and students at your school/Students get along well with most teachers"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G19C : 'haven\_labelled' num [1:94603] 2 2 2 2 2 3 2 NA 2 3 ...  
## ..- attr(\*, "label")= chr "Your School/Teachers and students at your school/Most teachers are interested in students’ well-being"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G19D : 'haven\_labelled' num [1:94603] 1 2 2 2 2 4 2 NA 1 2 ...  
## ..- attr(\*, "label")= chr "Your School/Teachers and students at your school/Most of my teachers listen to what I have to say"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G19E : 'haven\_labelled' num [1:94603] 1 2 2 2 2 2 2 NA 2 3 ...  
## ..- attr(\*, "label")= chr "Your School/Teachers and students at your school/If I need extra help, I receive it from my teachers"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G19F : 'haven\_labelled' num [1:94603] 2 1 2 1 1 2 2 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your School/Teachers and students at your school/Most teachers would stop students from being bullied"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G19G : 'haven\_labelled' num [1:94603] 1 4 2 2 3 4 3 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your School/Teachers and students at your school/Most students at my school treat each other with respect"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G19H : 'haven\_labelled' num [1:94603] 1 2 2 2 2 4 2 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your School/Teachers and students at your school/Most students at my school get along well with each other"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G19I : 'haven\_labelled' num [1:94603] 1 2 2 2 2 3 2 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your School/Teachers and students at your school/My school is a place where students feel safe"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G19J : 'haven\_labelled' num [1:94603] 3 3 4 3 4 4 3 NA 3 3 ...  
## ..- attr(\*, "label")= chr "Your School/Teachers and students at your school/I am afraid of being bullied by other students"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G20A : 'haven\_labelled' num [1:94603] 1 2 1 3 1 1 3 NA 1 3 ...  
## ..- attr(\*, "label")= chr "Your School/How often did you experience/A student called you by an offensive nickname"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Not at all" "Once" "2 to 4 times" "5 times or more" ...  
## $ IS3G20B : 'haven\_labelled' num [1:94603] 1 2 1 3 1 1 3 NA 1 2 ...  
## ..- attr(\*, "label")= chr "Your School/How often did you experience/A student said things about you to make others laugh"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Not at all" "Once" "2 to 4 times" "5 times or more" ...  
## $ IS3G20C : 'haven\_labelled' num [1:94603] 1 2 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your School/How often did you experience/A student threatened to hurt you"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Not at all" "Once" "2 to 4 times" "5 times or more" ...  
## $ IS3G20D : 'haven\_labelled' num [1:94603] 1 2 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your School/How often did you experience/You were physically attacked by another student"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Not at all" "Once" "2 to 4 times" "5 times or more" ...  
## $ IS3G20E : 'haven\_labelled' num [1:94603] 1 2 1 1 1 1 1 NA 1 2 ...  
## ..- attr(\*, "label")= chr "Your School/How often did you experience/A student broke something belonging to you on purpose"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Not at all" "Once" "2 to 4 times" "5 times or more" ...  
## $ IS3G20F : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your School/How often did you experience/A student posted offensive pictures or text about you on the Internet"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Not at all" "Once" "2 to 4 times" "5 times or more" ...  
## $ IS3G21A : 'haven\_labelled' num [1:94603] 2 1 2 2 2 2 2 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Your School/Student participation/Student participation in how schools are run can make schools better"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G21B : 'haven\_labelled' num [1:94603] 2 1 1 2 1 2 2 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Your School/Student participation/Lots of positive changes can happen in schools when students work together"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G21C : 'haven\_labelled' num [1:94603] 2 1 1 2 2 2 2 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Your School/Student participation/Organising groups of students to express their opinions could help solve problems"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G21D : 'haven\_labelled' num [1:94603] 2 1 1 2 1 2 2 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Your School/Student participation/Students can have more influence on what happens in schools if they act together"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G21E : 'haven\_labelled' num [1:94603] 2 3 2 2 3 3 3 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Your School/Student participation/Voting in student elections can make a difference to what happens at schools"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Disagree" "Strongly disagree" ...  
## $ IS3G22A : 'haven\_labelled' num [1:94603] 3 3 3 2 1 3 2 NA 2 3 ...  
## ..- attr(\*, "label")= chr "Citizens and Society/Situations for democracy/Political leaders give government jobs to their family members"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Good for democracy" "Neither good nor bad for democracy" "Bad for democracy" "Invalid" ...  
## $ IS3G22B : 'haven\_labelled' num [1:94603] 3 3 3 2 3 2 3 NA 3 3 ...  
## ..- attr(\*, "label")= chr "Citizens and Society/Situations for democracy/One company or the government owns all newspapers in a country"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Good for democracy" "Neither good nor bad for democracy" "Bad for democracy" "Invalid" ...  
## $ IS3G22C : 'haven\_labelled' num [1:94603] 2 1 2 1 2 1 1 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Citizens and Society/Situations for democracy/People are allowed to publicly criticise the government"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Good for democracy" "Neither good nor bad for democracy" "Bad for democracy" "Invalid" ...  
## $ IS3G22D : 'haven\_labelled' num [1:94603] 1 1 1 1 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Citizens and Society/Situations for democracy/All adult citizens have the right to elect their political leaders"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Good for democracy" "Neither good nor bad for democracy" "Bad for democracy" "Invalid" ...  
## $ IS3G22E : 'haven\_labelled' num [1:94603] 2 1 1 2 1 2 2 NA 2 2 ...  
## ..- attr(\*, "label")= chr "Citizens and Society/Situations for democracy/People are able to protest if they think a law is unfair"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Good for democracy" "Neither good nor bad for democracy" "Bad for democracy" "Invalid" ...  
## $ IS3G22F : 'haven\_labelled' num [1:94603] 3 2 3 2 2 3 1 NA 3 2 ...  
## ..- attr(\*, "label")= chr "Citizens and Society/Situations for democracy/The police have right to hold people in jail without trial"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Good for democracy" "Neither good nor bad for democracy" "Bad for democracy" "Invalid" ...  
## $ IS3G22G : 'haven\_labelled' num [1:94603] 2 2 1 2 1 1 1 NA 1 1 ...  
## ..- attr(\*, "label")= chr "Citizens and Society/Situations for democracy/Differences in income between poor and rich people are small"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Good for democracy" "Neither good nor bad for democracy" "Bad for democracy" "Invalid" ...  
## $ IS3G22H : 'haven\_labelled' num [1:94603] 2 3 3 2 3 2 1 NA 2 3 ...  
## ..- attr(\*, "label")= chr "Citizens and Society/Situations for democracy/The government influences decisions by courts of justice"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Good for democracy" "Neither good nor bad for democracy" "Bad for democracy" "Invalid" ...  
## $ IS3G22I : 'haven\_labelled' num [1:94603] 1 1 2 1 1 1 1 NA 1 2 ...  
## ..- attr(\*, "label")= chr "Citizens and Society/Situations for democracy/All <ethnic/racial> groups in the country have the same rights"  
## ..- attr(\*, "labels")= Named num [1:6] 1 2 3 7 8 9  
## .. ..- attr(\*, "names")= chr [1:6] "Good for democracy" "Neither good nor bad for democracy" "Bad for democracy" "Invalid" ...  
## $ IS3G23A : 'haven\_labelled' num [1:94603] 2 1 2 2 1 3 1 NA 2 1 ...  
## ..- attr(\*, "label")= chr "Citizens and Society/How important behaviours/Voting in every national election"  
## ..- attr(\*, "labels")= Named num [1:7] 1 2 3 4 7 8 9  
## .. ..- attr(\*, "names")= chr [1:7] "Very important" "Quite important" "Not very important" "Not important at all" ...  
## [list output truncated]

# Resultado: str() nos entrega la estructura de un objeto  
# despues de cada $ indica el nombre de un vector o variable  
# luego, despliega cada atributo que posee la tabla  
  
#----------------------------------------------------------  
# inspeccionar con glimpse  
#----------------------------------------------------------  
  
dplyr::glimpse(data\_16)

## Rows: 94,603  
## Columns: 622  
## $ COUNTRY <chr> "BFL", "BFL", "BFL", "BFL", "BFL", "BFL", "BFL", "BFL", "…  
## $ IDCNTRY <dbl+lbl> 956, 956, 956, 956, 956, 956, 956, 956, 956, 956, 956…  
## $ IDSTUD <dbl+lbl> 10010301, 10010302, 10010303, 10010304, 10010305, 100…  
## $ IDSCHOOL <dbl+lbl> 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001,…  
## $ IDCLASS <dbl+lbl> 100103, 100103, 100103, 100103, 100103, 100103, 10010…  
## $ IDGRADE <dbl+lbl> 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,…  
## $ IDPOP <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IS3G03 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G03BA <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G03BB <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, NA, 2, 2, 2, 2, 2, …  
## $ IS3G03BC <dbl+lbl> 1, 1, 1, 1, 1, 2, 2, NA, 1, 1, 1, 1, 1, …  
## $ IS3G03BD <dbl+lbl> 2, 2, 2, 2, 2, 1, 2, NA, 2, 2, 2, 2, 2, …  
## $ IS3G03BE <dbl+lbl> 1, 1, 1, 1, 1, 1, 2, NA, 1, 1, 1, 1, 1, …  
## $ IS3G03BF <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, NA, 2, 2, 2, 2, 2, …  
## $ IS3G03BG <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, NA, 2, 2, 2, 2, 2, …  
## $ IS3G04A <dbl+lbl> 1, 1, 1, 1, 1, 1, 0, NA, 1, 1, 1, 1, 1, …  
## $ IS3G04B <dbl+lbl> 1, 1, 1, 1, 1, 1, 0, NA, 1, 1, 1, 1, 1, …  
## $ IS3G04C <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G05 <dbl+lbl> 1, 1, 1, 1, 1, 1, 0, NA, 1, 1, 1, 1, 1, …  
## $ IS3G07 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G09 <dbl+lbl> 1, 1, 1, 1, 2, 3, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G10A <dbl+lbl> 3, 2, 4, 3, 4, 4, 3, NA, 2, 2, 3, 2, 3, …  
## $ IS3G10B <dbl+lbl> 3, 2, 2, 2, 2, 3, 2, NA, 2, 3, 3, 3, 2, …  
## $ IS3G10C <dbl+lbl> 2, 3, 2, 2, 2, 3, 2, NA, 2, 2, 3, 2, 1, …  
## $ IS3G11 <dbl+lbl> 3, 5, 3, 2, 5, 3, 4, NA, 5, 3, 4, 1, 3, …  
## $ IS3G12A <dbl+lbl> 3, 3, 2, 4, 4, 3, 3, NA, 2, 3, 4, 3, 3, …  
## $ IS3G12B <dbl+lbl> 4, 4, 2, 2, 3, 3, 2, NA, 2, 4, 3, 4, 3, …  
## $ IS3G12C <dbl+lbl> 4, 3, 3, 4, 4, 4, 3, NA, 4, 3, 4, 3, 4, …  
## $ IS3G13 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G14A <dbl+lbl> 2, 3, 1, 1, 1, 1, 4, NA, 3, 2, 1, 2, 2, …  
## $ IS3G14B <dbl+lbl> 3, 2, 1, 4, 1, 3, 3, NA, 4, 4, 1, 3, 4, …  
## $ IS3G14C <dbl+lbl> 1, 2, 4, 1, 1, 1, 1, NA, 3, 4, 1, 3, 2, …  
## $ IS3G14D <dbl+lbl> 1, 2, 1, 1, 1, 1, 1, NA, 2, 1, 1, 2, 1, …  
## $ IS3G14E <dbl+lbl> 2, 3, 1, 3, 1, 2, 4, NA, 4, 2, 1, 3, 3, …  
## $ IS3G14F <dbl+lbl> 1, 2, 1, 2, 1, 1, 2, NA, 2, 2, 1, 4, 1, …  
## $ IS3G14G <dbl+lbl> 2, 1, 1, 1, 1, 1, 1, NA, 2, 2, 1, 4, 1, …  
## $ IS3G14H <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 3, 1, …  
## $ IS3G14I <dbl+lbl> 1, 1, 1, 1, 1, 1, 2, NA, 1, 1, 1, 1, 1, …  
## $ IS3G15A <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, NA, 3, 3, 3, 3, 3, …  
## $ IS3G15B <dbl+lbl> 3, 3, 3, 2, 3, 3, 2, NA, 3, 3, 3, 3, 3, …  
## $ IS3G15C <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, NA, 3, 3, 3, 3, 3, …  
## $ IS3G15D <dbl+lbl> 3, 3, 3, 3, 1, 3, 2, NA, 2, 1, 3, 3, 3, …  
## $ IS3G15E <dbl+lbl> 1, 1, 2, 3, 2, 1, 1, NA, 3, 1, 1, 1, 2, …  
## $ IS3G15F <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, NA, 3, 3, 3, 3, 3, …  
## $ IS3G15G <dbl+lbl> 3, 3, 3, 2, 3, 3, 3, NA, 3, 3, 3, 3, 3, …  
## $ IS3G15H <dbl+lbl> 3, 3, 3, 3, 3, 3, 2, NA, 3, 1, 3, 3, 3, …  
## $ IS3G15I <dbl+lbl> 2, 2, 1, 2, 1, 1, 2, NA, 3, 2, 3, 2, 1, …  
## $ IS3G15J <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G16A <dbl+lbl> 2, 2, 3, 3, 3, 3, 2, NA, 2, 1, 3, 2, 3, …  
## $ IS3G16B <dbl+lbl> 2, 2, 3, 2, 2, 1, 3, NA, 1, 1, 3, 1, 1, …  
## $ IS3G16C <dbl+lbl> 3, 3, 3, 2, 3, 2, 3, NA, 2, 1, 2, 2, 3, …  
## $ IS3G16D <dbl+lbl> 3, 1, 3, 3, 2, 3, 3, NA, 3, 1, 3, 1, 3, …  
## $ IS3G16E <dbl+lbl> 3, 2, 3, 3, 2, 2, 3, NA, 2, 1, 3, 2, 2, …  
## $ IS3G16F <dbl+lbl> 3, 1, 3, 2, 1, 2, 2, NA, 2, 1, 2, 2, 3, …  
## $ IS3G16G <dbl+lbl> 2, 1, 3, 2, 1, 2, 1, NA, 3, 2, 3, 2, 2, …  
## $ IS3G17A <dbl+lbl> 3, 2, 1, 3, 4, 2, 4, NA, 1, 2, 4, 2, 2, …  
## $ IS3G17B <dbl+lbl> 3, 2, 2, 1, 3, 1, 4, NA, 1, 2, 4, 4, 4, …  
## $ IS3G17C <dbl+lbl> 2, 2, 1, 2, 2, 2, 1, NA, 1, 1, 1, 3, 1, …  
## $ IS3G17D <dbl+lbl> 4, 3, 4, 4, 4, 3, 3, NA, 3, 1, 4, 4, 3, …  
## $ IS3G17E <dbl+lbl> 2, 3, 1, 2, 1, 1, 4, NA, 2, 2, 3, 4, 2, …  
## $ IS3G17F <dbl+lbl> 3, 4, 3, 4, 3, 2, 3, NA, 1, 1, 3, 4, 2, …  
## $ IS3G18A <dbl+lbl> 3, 2, 1, 2, 4, 2, 4, NA, 4, 2, 2, 2, 4, …  
## $ IS3G18B <dbl+lbl> 3, 4, 4, 3, 4, 2, 4, NA, 3, 2, 4, 1, 4, …  
## $ IS3G18C <dbl+lbl> 2, 1, 1, 2, 1, 1, 1, NA, 2, 1, 1, 1, 4, …  
## $ IS3G18D <dbl+lbl> 3, 4, 4, 3, 4, 3, 3, NA, 3, 2, 2, 2, 4, …  
## $ IS3G18E <dbl+lbl> 3, 4, 4, 4, 4, 4, 4, NA, 3, 3, 4, 1, 4, …  
## $ IS3G18F <dbl+lbl> 3, 3, 4, 2, 2, 3, 4, NA, 4, 2, 2, 2, 4, …  
## $ IS3G18G <dbl+lbl> 3, 4, 4, 3, 3, 3, 4, NA, 4, 2, 2, 3, 4, …  
## $ IS3G19A <dbl+lbl> 1, 3, 2, 2, 2, 2, 2, NA, 1, 2, 2, 2, 3, …  
## $ IS3G19B <dbl+lbl> 2, 2, 3, 3, 3, 4, 2, NA, 2, 3, 3, 3, 2, …  
## $ IS3G19C <dbl+lbl> 2, 2, 2, 2, 2, 3, 2, NA, 2, 3, 2, 2, 3, …  
## $ IS3G19D <dbl+lbl> 1, 2, 2, 2, 2, 4, 2, NA, 1, 2, 2, 2, 2, …  
## $ IS3G19E <dbl+lbl> 1, 2, 2, 2, 2, 2, 2, NA, 2, 3, 2, 2, 2, …  
## $ IS3G19F <dbl+lbl> 2, 1, 2, 1, 1, 2, 2, NA, 1, 1, 2, 1, 3, …  
## $ IS3G19G <dbl+lbl> 1, 4, 2, 2, 3, 4, 3, NA, 2, 2, 2, 3, 2, …  
## $ IS3G19H <dbl+lbl> 1, 2, 2, 2, 2, 4, 2, NA, 2, 2, 2, 3, 2, …  
## $ IS3G19I <dbl+lbl> 1, 2, 2, 2, 2, 3, 2, NA, 2, 2, 2, 2, 2, …  
## $ IS3G19J <dbl+lbl> 3, 3, 4, 3, 4, 4, 3, NA, 3, 3, 3, 2, 4, …  
## $ IS3G20A <dbl+lbl> 1, 2, 1, 3, 1, 1, 3, NA, 1, 3, 2, 3, 1, …  
## $ IS3G20B <dbl+lbl> 1, 2, 1, 3, 1, 1, 3, NA, 1, 2, 3, 3, 1, …  
## $ IS3G20C <dbl+lbl> 1, 2, 1, 1, 1, 1, 1, NA, 1, 1, 4, 1, 1, …  
## $ IS3G20D <dbl+lbl> 1, 2, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G20E <dbl+lbl> 1, 2, 1, 1, 1, 1, 1, NA, 1, 2, 2, 1, 1, …  
## $ IS3G20F <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G21A <dbl+lbl> 2, 1, 2, 2, 2, 2, 2, NA, 2, 1, 2, 2, 2, …  
## $ IS3G21B <dbl+lbl> 2, 1, 1, 2, 1, 2, 2, NA, 2, 1, 2, 1, 2, …  
## $ IS3G21C <dbl+lbl> 2, 1, 1, 2, 2, 2, 2, NA, 1, 1, 2, 1, 2, …  
## $ IS3G21D <dbl+lbl> 2, 1, 1, 2, 1, 2, 2, NA, 2, 1, 2, 1, 1, …  
## $ IS3G21E <dbl+lbl> 2, 3, 2, 2, 3, 3, 3, NA, 2, 2, 2, 3, 3, …  
## $ IS3G22A <dbl+lbl> 3, 3, 3, 2, 1, 3, 2, NA, 2, 3, 3, 3, 3, …  
## $ IS3G22B <dbl+lbl> 3, 3, 3, 2, 3, 2, 3, NA, 3, 3, 3, 3, 3, …  
## $ IS3G22C <dbl+lbl> 2, 1, 2, 1, 2, 1, 1, NA, 2, 1, 1, 1, 1, …  
## $ IS3G22D <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G22E <dbl+lbl> 2, 1, 1, 2, 1, 2, 2, NA, 2, 2, 1, 1, 2, …  
## $ IS3G22F <dbl+lbl> 3, 2, 3, 2, 2, 3, 1, NA, 3, 2, 3, 2, 2, …  
## $ IS3G22G <dbl+lbl> 2, 2, 1, 2, 1, 1, 1, NA, 1, 1, 1, 1, 2, …  
## $ IS3G22H <dbl+lbl> 2, 3, 3, 2, 3, 2, 1, NA, 2, 3, 2, 2, 2, …  
## $ IS3G22I <dbl+lbl> 1, 1, 2, 1, 1, 1, 1, NA, 1, 2, 1, 1, 2, …  
## $ IS3G23A <dbl+lbl> 2, 1, 2, 2, 1, 3, 1, NA, 2, 1, 2, 2, 2, …  
## $ IS3G23B <dbl+lbl> 4, 3, 4, 3, 4, 4, 3, NA, 3, 3, 3, 4, 4, …  
## $ IS3G23C <dbl+lbl> 3, 3, 4, 2, 3, 3, 1, NA, 2, 2, 2, 2, 3, …  
## $ IS3G23D <dbl+lbl> 2, 2, 3, 2, 2, 2, 2, NA, 2, 2, 2, 1, 2, …  
## $ IS3G23E <dbl+lbl> 1, 2, 2, 2, 2, 2, 2, NA, 2, 1, 2, 2, 2, …  
## $ IS3G23F <dbl+lbl> 3, 2, 4, 2, 3, 3, 3, NA, 3, 3, 4, 3, 2, …  
## $ IS3G23G <dbl+lbl> 2, 3, 2, 3, 3, 3, 3, NA, 2, 4, 2, 2, 3, …  
## $ IS3G23H <dbl+lbl> 2, 2, 1, 2, 2, 1, 1, NA, 2, 3, 2, 2, 3, …  
## $ IS3G23I <dbl+lbl> 1, 2, 1, 2, 2, 1, 1, NA, 2, 4, 2, 2, 2, …  
## $ IS3G23J <dbl+lbl> 1, 2, 1, 2, 2, 1, 1, NA, 2, 2, 2, 3, 2, …  
## $ IS3G23K <dbl+lbl> 2, 1, 2, 1, 1, 1, 2, NA, 1, 1, 2, 1, 2, …  
## $ IS3G23L <dbl+lbl> 2, 1, 2, 1, 1, 1, 2, NA, 1, 1, 2, 1, 2, …  
## $ IS3G23M <dbl+lbl> 1, 2, 2, 2, 1, 1, 1, NA, 1, 1, 2, 1, 2, …  
## $ IS3G23N <dbl+lbl> 2, 2, 1, 1, 1, 1, 1, NA, 2, 1, 2, 2, 2, …  
## $ IS3G23O <dbl+lbl> 1, 1, 1, 1, 1, 1, 2, NA, 1, 1, 2, 2, 1, …  
## $ IS3G23P <dbl+lbl> 1, 2, 1, 2, 1, 1, 2, NA, 2, 1, 2, 1, 1, …  
## $ IS3G23Q <dbl+lbl> 1, 3, 1, 2, 2, 2, 2, NA, 2, 2, 2, 2, 1, …  
## $ IS3G24A <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G24B <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 2, 1, 1, 1, …  
## $ IS3G24C <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, NA, 4, 4, 4, 1, 4, …  
## $ IS3G24D <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, NA, 4, 2, 4, 3, 4, …  
## $ IS3G24E <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 2, 1, 2, 1, …  
## $ IS3G24F <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, NA, 3, 3, 4, 3, 4, …  
## $ IS3G24G <dbl+lbl> 4, 3, 3, 4, 4, 4, 4, NA, 3, 2, 4, 2, 4, …  
## $ IS3G25A <dbl+lbl> 1, 1, 1, 2, 1, 1, 1, NA, 1, 3, 1, 2, 1, …  
## $ IS3G25B <dbl+lbl> 1, 1, 1, 2, 1, 1, 1, NA, 2, 3, 1, 2, 2, …  
## $ IS3G25C <dbl+lbl> 1, 1, 1, 2, 1, 1, 1, NA, 2, 2, 1, 2, 1, …  
## $ IS3G25D <dbl+lbl> 2, 1, 3, 3, 3, 3, 3, NA, 2, 4, 2, 3, 3, …  
## $ IS3G25E <dbl+lbl> 1, 1, 1, 2, 1, 1, 1, NA, 2, 2, 1, 2, 1, …  
## $ IS3G26A <dbl+lbl> 2, 2, 3, 2, 2, 2, 2, NA, 2, 1, 3, 2, 2, …  
## $ IS3G26B <dbl+lbl> 2, 2, 3, 2, 2, 2, 2, NA, 2, 2, 3, 2, 2, …  
## $ IS3G26C <dbl+lbl> 2, 2, 3, 2, 1, 2, 1, NA, 1, 1, 2, 2, 2, …  
## $ IS3G26D <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, NA, 1, 1, 3, 3, 2, …  
## $ IS3G26E <dbl+lbl> 2, 2, 3, 2, 2, 3, 3, NA, 2, 3, 3, 2, 2, …  
## $ IS3G26F <dbl+lbl> 2, 2, 3, 2, 2, 2, 2, NA, 2, 1, 3, 2, 2, …  
## $ IS3G26G <dbl+lbl> 2, 3, 3, 2, 3, 3, 3, NA, 3, 2, 3, 3, 3, …  
## $ IS3G26H <dbl+lbl> 2, 4, 3, 3, 3, 4, 3, NA, 3, 4, 3, 3, 3, …  
## $ IS3G26I <dbl+lbl> 2, 2, 2, 2, 2, 2, 1, NA, 2, 1, 3, 3, 3, …  
## $ IS3G26J <dbl+lbl> 2, 2, 2, 2, 1, 2, 2, NA, 1, 2, 2, 2, 2, …  
## $ IS3G26K <dbl+lbl> 2, 1, 3, 2, 2, 2, 2, NA, 1, 1, 3, 2, 2, …  
## $ IS3G26L <dbl+lbl> 3, 2, 2, 2, 2, 3, 2, NA, 2, 2, 3, 3, 3, …  
## $ IS3G26M <dbl+lbl> 2, 2, 3, 2, 2, 2, 2, NA, 2, 2, 3, 2, 2, …  
## $ IS3G26N <dbl+lbl> 2, 2, 3, 2, 2, 2, 2, NA, 2, 2, 3, 2, 2, …  
## $ IS3G26O <dbl+lbl> 2, 2, 3, 2, 2, 2, 2, NA, 2, 2, 3, 2, 2, …  
## $ IS3G27A <dbl+lbl> 2, 1, 3, 1, 3, 3, 3, NA, 2, 2, 2, 2, 4, …  
## $ IS3G27B <dbl+lbl> 1, 1, 2, 1, 2, 2, 2, NA, 2, 2, 2, 2, 2, …  
## $ IS3G27C <dbl+lbl> 1, 3, 2, 1, 2, 3, 2, NA, 2, 1, 2, 1, 4, …  
## $ IS3G27D <dbl+lbl> 1, 2, 1, 1, 2, 2, 3, NA, 2, 1, 2, 1, 4, …  
## $ IS3G27E <dbl+lbl> 2, 2, 3, 1, 3, 2, 3, NA, 2, 1, 3, 1, 3, …  
## $ IS3G28A <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ IS3G28B <dbl+lbl> 2, 4, 3, 2, 3, 1, 1, NA, 2, 2, 2, 1, 2, …  
## $ IS3G28C <dbl+lbl> 2, 3, 3, 2, 2, 1, 2, NA, 3, 2, 2, 1, 2, …  
## $ IS3G28D <dbl+lbl> 1, 1, 2, 2, 2, 1, 2, NA, 3, 2, 2, 1, 3, …  
## $ IS3G28E <dbl+lbl> 1, 2, 1, 2, 4, 1, 1, NA, 2, 1, 1, 1, 1, …  
## $ IS3G28F <dbl+lbl> 1, 1, 2, 1, 2, 2, 2, NA, 2, 1, 2, 2, 2, …  
## $ IS3G28G <dbl+lbl> 1, 1, 1, 3, 3, 1, 2, NA, 3, 2, 1, 2, 2, …  
## $ IS3G28H <dbl+lbl> 1, 3, 1, 2, 3, 1, 2, NA, 2, 2, 1, 1, 2, …  
## $ IS3G28I <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 2, 2, …  
## $ IS3G28J <dbl+lbl> 2, 3, 1, 3, 3, 1, 3, NA, 3, 2, 2, 2, 3, …  
## $ IS3G28K <dbl+lbl> 3, 1, 1, 1, 3, 1, 2, NA, 2, 1, 1, 2, 2, …  
## $ IS3G28L <dbl+lbl> 2, 2, 1, 2, 2, 2, 1, NA, 2, 1, 1, 1, 3, …  
## $ IS3G28M <dbl+lbl> 1, 1, 2, 1, 2, 1, 1, NA, 1, 1, 1, 1, 3, …  
## $ IS3G29A <dbl+lbl> 3, 2, 4, 2, 2, 3, 2, NA, 2, 2, 3, 3, 2, …  
## $ IS3G29B <dbl+lbl> 2, 2, 4, 2, 1, 2, 2, NA, 3, 2, 3, 2, 3, …  
## $ IS3G29C <dbl+lbl> 3, 2, 4, 3, 2, 4, 3, NA, 3, 1, 3, 3, 3, …  
## $ IS3G29D <dbl+lbl> 3, 2, 4, 2, 3, 3, 3, NA, 3, 1, 3, 4, 2, …  
## $ IS3G29E <dbl+lbl> 3, 2, 4, 2, 4, 4, 3, NA, 1, 2, 3, 3, 3, …  
## $ IS3G29F <dbl+lbl> 3, 2, 4, 4, 2, 3, 3, NA, 2, 4, 3, 4, 2, …  
## $ IS3G29G <dbl+lbl> 3, 2, 4, 3, 3, 3, 3, NA, 2, 2, 3, 2, 3, …  
## $ IS3G30A <dbl+lbl> 2, 3, 2, 2, 3, 2, 3, NA, 2, 2, 3, 2, 2, …  
## $ IS3G30B <dbl+lbl> 3, 4, 3, 3, 3, 3, 3, NA, 3, 3, 3, 3, 2, …  
## $ IS3G30C <dbl+lbl> 3, 3, 2, 3, 3, 3, 2, NA, 3, 4, 3, 3, 2, …  
## $ IS3G30D <dbl+lbl> 3, 3, 3, 4, 3, 4, 3, NA, 3, 4, 3, 3, 3, …  
## $ IS3G30E <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, NA, 2, 4, 3, 3, 3, …  
## $ IS3G30F <dbl+lbl> 3, 3, 4, 3, 3, 4, 4, NA, 3, 4, 3, 4, 2, …  
## $ IS3G30G <dbl+lbl> 3, 3, 1, 3, 3, 3, 3, NA, 3, 3, 3, 2, 2, …  
## $ IS3G30H <dbl+lbl> 1, 2, 1, 2, 1, 1, 2, NA, 2, 3, 3, 2, 1, …  
## $ IS3G30I <dbl+lbl> 4, 2, 4, 4, 4, 4, 3, NA, 4, 4, 3, 4, 3, …  
## $ IS3G30J <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, NA, 4, 4, 3, 4, 4, …  
## $ IS3G30K <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, NA, 4, 4, 3, 4, 4, …  
## $ IS3G31A <dbl+lbl> 1, 1, 2, 2, 2, 4, 2, NA, 1, 1, 1, 1, 1, …  
## $ IS3G31B <dbl+lbl> 1, 1, 2, 2, 2, 4, 2, NA, 1, 1, 1, 1, 1, …  
## $ IS3G31C <dbl+lbl> 3, 1, 2, 3, 3, 2, 2, NA, 1, 1, 1, 1, 1, …  
## $ IS3G31D <dbl+lbl> 3, 3, 2, 3, 3, 3, 3, NA, 2, 3, 3, 3, 3, …  
## $ IS3G31E <dbl+lbl> 4, 3, 4, 4, 4, 4, 3, NA, 4, 4, 4, 3, 3, …  
## $ IS3G31F <dbl+lbl> 4, 4, 4, 4, 4, 3, 3, NA, 4, 4, 4, 4, 3, …  
## $ IS3G31G <dbl+lbl> 4, 3, 4, 4, 4, 4, 3, NA, 4, 4, 4, 3, 3, …  
## $ IS3G31H <dbl+lbl> 4, 2, 3, 4, 2, 4, 3, NA, 4, 3, 4, 3, 2, …  
## $ IS3G31I <dbl+lbl> 2, 2, 3, 3, 2, 2, 2, NA, 2, 3, 3, 3, 2, …  
## $ IS3G31J <dbl+lbl> 1, 1, 2, 2, 1, 2, 2, NA, 2, 1, 4, 3, 2, …  
## $ IS3G31K <dbl+lbl> 1, 1, 2, 2, 2, 2, 2, NA, 1, 1, 2, 1, 1, …  
## $ IS3G31L <dbl+lbl> 1, 1, 2, 2, 2, 2, 2, NA, 1, 1, 2, 2, 1, …  
## $ IS3G32A <dbl+lbl> 3, 1, 4, 2, 2, 3, 2, NA, 2, 1, 3, 1, 2, …  
## $ IS3G32B <dbl+lbl> 3, 2, 4, 3, 4, 3, 3, NA, 3, 2, 3, 3, 2, …  
## $ IS3G32C <dbl+lbl> 3, 3, 4, 3, 3, 4, 3, NA, 3, 1, 3, 3, 2, …  
## $ IS3G32D <dbl+lbl> 3, 3, 4, 3, 2, 2, 3, NA, 3, 2, 3, 3, 3, …  
## $ IS3G32E <dbl+lbl> 3, 3, 4, 4, 3, 4, 4, NA, 2, 3, 4, 4, 3, …  
## $ IS3G33 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 0, 1, 1, …  
## $ IS3G34 <dbl+lbl> 3, 3, 2, 1, 3, 2, 2, NA, 3, 4, 3, 2, 1, …  
## $ IS3G35A <dbl+lbl> 3, 4, 4, 4, 3, 3, 2, NA, 4, 3, 4, 3, 3, …  
## $ IS3G35B <dbl+lbl> 3, 2, 4, 4, 4, 3, 3, NA, 3, 2, 4, 4, 4, …  
## $ IS3G35C <dbl+lbl> 3, 3, 4, 4, 4, 4, 3, NA, 4, 3, 4, 4, 4, …  
## $ IS3G35D <dbl+lbl> 3, 2, 4, 3, 2, 3, 3, NA, 3, 2, 4, 3, 3, …  
## $ IS3G35E <dbl+lbl> 3, 4, 4, 4, 4, 4, 3, NA, 4, 3, 4, 3, 4, …  
## $ IS3G35F <dbl+lbl> 1, 1, 1, 2, 1, 1, 2, NA, 1, 3, 1, 2, 2, …  
## $ IS3G35G <dbl+lbl> 3, 4, 4, 4, 4, 4, 3, NA, 4, 2, 4, 3, 4, …  
## $ IS3G02BN <dbl+lbl> 95602, 95602, 95601, 95602, 95602, 95602, 95607, N…  
## $ IS3G04AN <dbl+lbl> 95601, 95601, 95601, 95601, 95601, 95601, 95604, N…  
## $ IS3G04BN <dbl+lbl> 95601, 95601, 95601, 95601, 95601, 95601, 95604, N…  
## $ IS3G04CN <dbl+lbl> 95601, 95601, 95601, 95601, 95601, 95601, 95601, N…  
## $ IS3G05N <dbl+lbl> 95601, 95601, 95601, 95601, 95601, 95601, 95606, N…  
## $ IS3G33N <dbl+lbl> 95606, 95602, 95602, 95602, 95603, 95606, 95602, N…  
## $ IDBOOK <dbl+lbl> 7, 8, 1, 2, 3, 4, 5, 6, 7, 8, 1, 2, 3, 4, 5, 6, 7, 8,…  
## $ ITADMINI <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ ITLANG <dbl+lbl> 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 1…  
## $ ILRELIAB <dbl+lbl> 0, 1, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0,…  
## $ STREAM <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N…  
## $ S\_AGE <dbl+lbl> 14, 14, 13, 14, 13, 14, 14, 13, 14, 14, 13, 13, 14, 1…  
## $ S\_FINT <dbl+lbl> 2, 1, 2, 2, 2, 1, 2, NA, 2, 2, 1, 2, 3, …  
## $ S\_FISCED <dbl+lbl> 4, 4, 4, 4, 3, 2, 4, NA, 4, 4, 4, 4, 4, …  
## $ S\_FISCO <chr+lbl> 9705, 2164, 1330, 1420, 7543, 7111, 3313, 9998, 2431,…  
## $ S\_FISEI <dbl+lbl> NA, 60, 77, 56, 32, 40, 47, NA, 64, 85, 89, 47, 63, 7…  
## $ S\_GENDER <dbl+lbl> 1, 0, 1, 0, 1, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0,…  
## $ S\_HINT <dbl+lbl> 2, 2, 2, 2, 2, 1, 2, NA, 2, 2, 1, 2, 3, …  
## $ S\_HISCED <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, NA, 4, 4, 4, 4, 4, …  
## $ S\_HISEI <dbl+lbl> 52, 85, 77, 56, 51, 40, 47, NA, 64, 85, 89, 69, 63, 7…  
## $ S\_HOMLIT <dbl+lbl> 2, 4, 2, 1, 4, 2, 3, NA, 4, 2, 3, 0, 2, …  
## $ S\_IMMIG <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 1, …  
## $ S\_ISCED <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, NA, 3, 3, 3, 3, 3, …  
## $ S\_MINT <dbl+lbl> 1, 2, 2, 2, 2, 1, 2, NA, 2, 1, 1, 1, 2, …  
## $ S\_MISCED <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, NA, 4, 4, 4, 4, 4, …  
## $ S\_MISCO <chr+lbl> 2222, 2611, 2142, 1420, 2266, 5223, 9334, 9998, 3332,…  
## $ S\_MISEI <dbl+lbl> 52, 85, 76, 56, 51, 31, 20, NA, 56, 66, 89, 69, 42, 6…  
## $ S\_RELIG <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 0, 1, 1, …  
## $ S\_RELSER <dbl+lbl> 2, 2, 1, 0, 2, 1, 1, NA, 2, 3, 2, 1, 0, …  
## $ S\_SINT <dbl+lbl> 1, 2, 0, 1, 0, 0, 1, NA, 2, 2, 1, 2, 1, …  
## $ S\_TLANG <dbl+lbl> 1, 1, 1, 1, 1, 1, 0, NA, 1, 1, 1, 1, 1, …  
## $ S\_ABUSE <dbl+lbl> 37, 58, 37, 56, 37, 37, 56, NA, 37, 56, 62, 56, 37, 5…  
## $ S\_CNTATT <dbl+lbl> 53, 47, 41, 65, 38, 38, 36, NA, 44, 53, 41, 53, 28, 4…  
## $ S\_CITCON <dbl+lbl> 44, 50, 34, 50, 44, 39, 53, NA, 47, 53, 44, 47, 44, 4…  
## $ S\_CITEFF <dbl+lbl> 43, 55, 17, 47, 49, 39, 45, NA, 51, 55, 41, 41, 47, 4…  
## $ S\_CITRESP <dbl+lbl> 52, 46, 52, 52, 60, 60, 46, NA, 52, 60, 41, 52, 49, 4…  
## $ S\_CITSOC <dbl+lbl> 55, 44, 59, 44, 44, 55, 55, NA, 48, 32, 48, 44, 41, 2…  
## $ S\_CIVLRN <dbl+lbl> 42, 38, 38, 44, 38, 45, 34, NA, 36, 53, 47, 57, 14, 3…  
## $ S\_ELECPART <dbl+lbl> 51, 62, 47, 43, 43, 34, 47, NA, 62, 62, 62, 62, 62, 4…  
## $ S\_ETHRGHT <dbl+lbl> 59, 66, 54, 41, 54, 54, 54, NA, 48, 34, 59, 41, 51, 5…  
## $ S\_GENEQL <dbl+lbl> 64, 64, 64, 64, 64, 64, 64, NA, 56, 44, 64, 43, 64, 6…  
## $ S\_ILLACT <dbl+lbl> 39, 49, 39, 39, 39, 39, 45, NA, 39, 39, 54, 39, 45, 3…  
## $ S\_INTACT <dbl+lbl> 68, 40, 50, 50, 44, 29, 44, NA, 50, 50, 50, 40, 50, 4…  
## $ S\_INTRUST <dbl+lbl> 54, 54, 43, 54, 57, 52, 54, NA, 60, 62, 43, 52, 54, 4…  
## $ S\_LEGACT <dbl+lbl> 45, 41, 49, 43, 43, 41, 43, NA, 48, 37, 43, 45, 53, 4…  
## $ S\_OPDISC <dbl+lbl> 49, 47, 39, 47, 49, 37, 53, NA, 33, 33, 53, 59, 43, 4…  
## $ S\_POLDISC <dbl+lbl> 48, 59, 35, 51, 35, 43, 61, NA, 61, 51, 35, 61, 51, 5…  
## $ S\_POLPART <dbl+lbl> 36, 49, 43, 36, 43, 40, 49, NA, 40, 40, 36, 46, 52, 4…  
## $ S\_COMPART <dbl+lbl> 52, 52, 47, 52, 55, 52, 57, NA, 47, 57, 52, 52, 47, 5…  
## $ S\_SCHPART <dbl+lbl> 43, 57, 29, 47, 52, 52, 43, NA, 54, 78, 43, 59, 47, 4…  
## $ S\_RELINF <dbl+lbl> 46, 44, 28, 34, 40, 40, 48, NA, 37, 52, 28, 42, 37, 4…  
## $ S\_SCACT <dbl+lbl> 41, 48, 21, 41, 44, 39, 41, NA, 46, 55, 39, 44, 48, 5…  
## $ S\_SOCMED <dbl+lbl> 49, 39, 39, 39, 39, 39, 49, NA, 49, 49, 39, 65, 39, 3…  
## $ S\_STUTREL <dbl+lbl> 60, 45, 45, 45, 45, 36, 49, NA, 57, 40, 45, 45, 42, 5…  
## $ S\_VALPARTS <dbl+lbl> 46, 57, 57, 46, 50, 42, 42, NA, 50, 61, 46, 54, 46, 5…  
## $ S\_NISB <dbl+lbl> 0.48, 1.76, 1.17, 0.22, 0.83, 0.15, 0.72, N…  
## $ PV1CIV <dbl+lbl> 610, 749, 675, 622, 668, 641, 619, 685, 571, 684, 692…  
## $ PV2CIV <dbl+lbl> 610, 693, 688, 585, 701, 562, 605, 602, 635, 650, 640…  
## $ PV3CIV <dbl+lbl> 628, 661, 697, 646, 645, 624, 587, 652, 650, 664, 697…  
## $ PV4CIV <dbl+lbl> 615, 672, 631, 538, 631, 632, 614, 634, 602, 667, 625…  
## $ PV5CIV <dbl+lbl> 619, 682, 724, 610, 634, 601, 673, 626, 579, 618, 666…  
## $ INICS16 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ WGTFAC1 <dbl+lbl> 3.7, 3.7, 3.7, 3.7, 3.7, 3.7, 3.7, 3.7, 3.7, 3.7, 3.7…  
## $ WGTADJ1S <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ WGTFAC2S <dbl+lbl> 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, …  
## $ WGTADJ2S <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ WGTADJ3S <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ TOTWGTS <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ JKZONES <dbl+lbl> 30, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30, 3…  
## $ JKREPS <dbl+lbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,…  
## $ SRWGT1 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT2 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT3 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT4 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT5 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT6 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT7 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT8 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT9 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT10 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT11 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT12 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT13 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT14 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT15 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT16 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT17 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT18 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT19 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT20 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT21 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT22 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT23 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT24 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT25 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT26 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT27 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT28 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT29 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT30 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT31 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT32 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT33 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT34 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT35 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT36 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT37 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT38 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT39 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT40 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT41 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT42 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT43 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT44 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT45 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT46 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT47 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT48 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT49 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT50 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT51 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT52 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT53 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT54 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT55 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT56 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT57 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT58 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT59 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT60 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT61 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT62 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT63 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT64 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT65 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT66 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT67 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT68 <dbl+lbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, …  
## $ SRWGT69 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT70 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT71 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT72 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT73 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT74 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ SRWGT75 <dbl+lbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ VERSION <dbl+lbl> 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 3…  
## $ SCOPE <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ id\_k <dbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ id\_s <dbl> 2330, 2330, 2330, 2330, 2330, 2330, 2330, 2330, 2330, 233…  
## $ id\_j <dbl> 231001, 231001, 231001, 231001, 231001, 231001, 231001, 2…  
## $ id\_i <dbl> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17…  
## $ IC3G01 <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G02A <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G02B <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G02C <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G02D <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G02E <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G03A <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G03B <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G03C <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G03D <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G03E <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G03F <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G03G <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G03H <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G04A <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G04B <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G04C <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G04D <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G04E <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G04F <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G04G <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G04H <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G04I <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G05A <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G05B <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G06A <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G06B <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G06C <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G06D <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G06E <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G06F <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G07A <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G07B <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G07C <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G07D <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G07E <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G07F <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G07G <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G07H <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G08A <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G08B <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G08C <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G08D <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G08E <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G08F <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G09A <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G09B <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G09C <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G09D <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G09E <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G10A <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G10B <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G10C <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G10D <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G10E <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G11A <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G11B <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G11C <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G11D <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G11E <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G11F <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G11G <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G11H <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G11I <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G11J <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G12A <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G12B <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G12C <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G12D <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G12E <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G12F <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G12G <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G12H <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G12I <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G12J <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G12K <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G12L <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G13A <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N…  
## $ IC3G13B <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G13C <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G13D <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G13E <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G14A <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G14B <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G14C <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G14D <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G14E <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G14F <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G14G <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G14H <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G15 <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G16A <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G16B <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G16C <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G16D <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G16E <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G16F <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G16G <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ IC3G16H <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G16I <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G16J <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ IC3G20 <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ IC3G21A <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ IC3G21B <dbl+lbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,…  
## $ C\_COMP <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ C\_GENROL\_CAT <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,…  
## $ C\_SCSIZE\_CAT <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,…  
## $ C\_TGPERC <dbl+lbl> 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 1…  
## $ C\_URBAN <dbl+lbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,…  
## $ C\_AVRESCOM <dbl+lbl> 67, 67, 67, 67, 67, 67, 67, 67, 67, 67, 67, 67, 67, 6…  
## $ C\_BULACT <dbl+lbl> 61, 61, 61, 61, 61, 61, 61, 61, 61, 61, 61, 61, 61, 6…  
## $ C\_BULSCH <dbl+lbl> 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 5…  
## $ C\_COMCRI <dbl+lbl> 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 4…  
## $ C\_COMETN <dbl+lbl> 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 4…  
## $ C\_COMPOV <dbl+lbl> 33, 33, 33, 33, 33, 33, 33, 33, 33, 33, 33, 33, 33, 3…  
## $ C\_ENGAGE <dbl+lbl> 34, 34, 34, 34, 34, 34, 34, 34, 34, 34, 34, 34, 34, 3…  
## $ C\_ENPRAC <dbl+lbl> 49, 49, 49, 49, 49, 49, 49, 49, 49, 49, 49, 49, 49, 4…  
## $ C\_STDCOM <dbl+lbl> 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 4…  
## $ C\_STSBELS <dbl+lbl> 30, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30, 3…  
## $ C\_TCPART <dbl+lbl> 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 4…  
## $ C\_TCSBELS <dbl+lbl> 28, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28, 2…  
## $ WGTADJ1C <dbl+lbl> 1.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1…  
## $ TOTWGTC <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ JKZONEC <dbl+lbl> 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, …  
## $ JKREPC <dbl+lbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,…  
## $ CRWGT1 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT2 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT3 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT4 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT5 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT6 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT7 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT8 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT9 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT10 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT11 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT12 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT13 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT14 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT15 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT16 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT17 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT18 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT19 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT20 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT21 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT22 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT23 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT24 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT25 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT26 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT27 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT28 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT29 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT30 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT31 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT32 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT33 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT34 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT35 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT36 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT37 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT38 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT39 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT40 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT41 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT42 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT43 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT44 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT45 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT46 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT47 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT48 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT49 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT50 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT51 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT52 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT53 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT54 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT55 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT56 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT57 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT58 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT59 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT60 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT61 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT62 <dbl+lbl> 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0…  
## $ CRWGT63 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT64 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT65 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT66 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT67 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT68 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT69 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT70 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT71 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT72 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT73 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT74 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ CRWGT75 <dbl+lbl> 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1, 4.1…  
## $ C\_PRIVATE <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,…  
## $ n\_j <int> 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 1…  
## $ T\_AGE\_c <dbl> 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 4…  
## $ T\_CCESUB\_c <dbl> 0.38, 0.38, 0.38, 0.38, 0.38, 0.38, 0.38, 0.38, 0.38, 0.3…  
## $ T\_GENDER\_c <dbl> 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.…  
## $ T\_TIME\_c <dbl> 0.55, 0.55, 0.55, 0.55, 0.55, 0.55, 0.55, 0.55, 0.55, 0.5…  
## $ T\_BULSCH\_c <dbl> 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 5…  
## $ T\_CIVCLAS\_c <dbl> 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 4…  
## $ T\_PCCLIM\_c <dbl> 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 4…  
## $ T\_PDACCE\_c <dbl> 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 5…  
## $ T\_PDATCH\_c <dbl> 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 5…  
## $ T\_PROBSC\_c <dbl> 56, 56, 56, 56, 56, 56, 56, 56, 56, 56, 56, 56, 56, 56, 5…  
## $ T\_PRPCCE\_c <dbl> 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 4…  
## $ T\_STDCOM\_c <dbl> 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 4…  
## $ T\_STUDB\_c <dbl> 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 4…  
## $ T\_TCHPRT\_c <dbl> 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 4…  
## $ T\_AGE\_m <dbl> 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 4…  
## $ T\_CCESUB\_m <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, …  
## $ T\_GENDER\_m <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, …  
## $ T\_TIME\_m <dbl> 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.…  
## $ T\_BULSCH\_m <dbl> 52, 52, 52, 52, 52, 52, 52, 52, 52, 52, 52, 52, 52, 52, 5…  
## $ T\_CIVCLAS\_m <dbl> 39, 39, 39, 39, 39, 39, 39, 39, 39, 39, 39, 39, 39, 39, 3…  
## $ T\_PCCLIM\_m <dbl> 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43, 4…  
## $ T\_PDACCE\_m <dbl> 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53, 5…  
## $ T\_PDATCH\_m <dbl> 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 5…  
## $ T\_PROBSC\_m <dbl> 57, 57, 57, 57, 57, 57, 57, 57, 57, 57, 57, 57, 57, 57, 5…  
## $ T\_PRPCCE\_m <dbl> 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 4…  
## $ T\_STDCOM\_m <dbl> 52, 52, 52, 52, 52, 52, 52, 52, 52, 52, 52, 52, 52, 52, 5…  
## $ T\_STUDB\_m <dbl> 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 4…  
## $ T\_TCHPRT\_m <dbl> 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 44, 4…  
## $ T\_AGE\_d <dbl> 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1…  
## $ T\_CCESUB\_d <dbl> 0.51, 0.51, 0.51, 0.51, 0.51, 0.51, 0.51, 0.51, 0.51, 0.5…  
## $ T\_GENDER\_d <dbl> 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.0…  
## $ T\_TIME\_d <dbl> 0.22, 0.22, 0.22, 0.22, 0.22, 0.22, 0.22, 0.22, 0.22, 0.2…  
## $ T\_BULSCH\_d <dbl> 9.3, 9.3, 9.3, 9.3, 9.3, 9.3, 9.3, 9.3, 9.3, 9.3, 9.3, 9.…  
## $ T\_CIVCLAS\_d <dbl> 3.5, 3.5, 3.5, 3.5, 3.5, 3.5, 3.5, 3.5, 3.5, 3.5, 3.5, 3.…  
## $ T\_PCCLIM\_d <dbl> 9.5, 9.5, 9.5, 9.5, 9.5, 9.5, 9.5, 9.5, 9.5, 9.5, 9.5, 9.…  
## $ T\_PDACCE\_d <dbl> 8.9, 8.9, 8.9, 8.9, 8.9, 8.9, 8.9, 8.9, 8.9, 8.9, 8.9, 8.…  
## $ T\_PDATCH\_d <dbl> 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, …  
## $ T\_PROBSC\_d <dbl> 7.4, 7.4, 7.4, 7.4, 7.4, 7.4, 7.4, 7.4, 7.4, 7.4, 7.4, 7.…  
## $ T\_PRPCCE\_d <dbl> 7.3, 7.3, 7.3, 7.3, 7.3, 7.3, 7.3, 7.3, 7.3, 7.3, 7.3, 7.…  
## $ T\_STDCOM\_d <dbl> 9.9, 9.9, 9.9, 9.9, 9.9, 9.9, 9.9, 9.9, 9.9, 9.9, 9.9, 9.…  
## $ T\_STUDB\_d <dbl> 7.2, 7.2, 7.2, 7.2, 7.2, 7.2, 7.2, 7.2, 7.2, 7.2, 7.2, 7.…  
## $ T\_TCHPRT\_d <dbl> 5.7, 5.7, 5.7, 5.7, 5.7, 5.7, 5.7, 5.7, 5.7, 5.7, 5.7, 5.…  
## $ T\_AGE\_g <dbl> 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 4…  
## $ T\_CCESUB\_g <dbl> 0.36, 0.36, 0.36, 0.36, 0.36, 0.36, 0.36, 0.36, 0.36, 0.3…  
## $ T\_GENDER\_g <dbl> 0.67, 0.67, 0.67, 0.67, 0.67, 0.67, 0.67, 0.67, 0.67, 0.6…  
## $ T\_TIME\_g <dbl> 0.45, 0.45, 0.45, 0.45, 0.45, 0.45, 0.45, 0.45, 0.45, 0.4…  
## $ T\_BULSCH\_g <dbl> 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54, 5…  
## $ T\_CIVCLAS\_g <dbl> 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 4…  
## $ T\_PCCLIM\_g <dbl> 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 4…  
## $ T\_PDACCE\_g <dbl> 46, 46, 46, 46, 46, 46, 46, 46, 46, 46, 46, 46, 46, 46, 4…  
## $ T\_PDATCH\_g <dbl> 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51, 5…  
## $ T\_PROBSC\_g <dbl> 57, 57, 57, 57, 57, 57, 57, 57, 57, 57, 57, 57, 57, 57, 5…  
## $ T\_PRPCCE\_g <dbl> 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 4…  
## $ T\_STDCOM\_g <dbl> 49, 49, 49, 49, 49, 49, 49, 49, 49, 49, 49, 49, 49, 49, 4…  
## $ T\_STUDB\_g <dbl> 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48, 4…  
## $ T\_TCHPRT\_g <dbl> 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47, 4…  
## $ wt <dbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ wi <dbl> 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, …  
## $ wj <dbl> 3.8, 3.8, 3.8, 3.8, 3.8, 3.8, 3.8, 3.8, 3.8, 3.8, 3.8, 3.…  
## $ wh <dbl> 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 23, 2…  
## $ wa1 <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, …  
## $ wa2 <dbl> 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 0.7…  
## $ wb1 <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, …  
## $ wb2 <dbl> 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 0.7…  
## $ ws <dbl> 0.31, 0.31, 0.31, 0.31, 0.31, 0.31, 0.31, 0.31, 0.31, 0.3…

# Resultado: dplyr::glimpse() entrega información resumida de los datos  
# en las primeras lineas entrega las filas y columnas  
# el resto de la información que entrega es de cada vector  
# de la tabla, su tipo (e.g., chr, dbl) y una muestra de valores.

# Cantidad de casos por cluster

Los datos de ICCS 2016, se encuentran anidados por por dos factores relevantes: escuelas, y paises.

En los siguientes ejemplos, obtendremos la cantidad de cada cluster: paises y escuelas.

* La variable país es ‘IDCNTRY’
* La variable escuela es ‘IDSCHOOL’

## Cantidad de casos por país

#------------------------------------------------------------------------------  
# casos por país  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# nombres de paises  
#----------------------------------------------------------  
  
country\_list <- read.table(text = "  
IDCNTRY ctry\_text   
100 'Bulgaria'  
152 'Chile'  
158 'Chinese Taipei'  
170 'Colombia'  
191 'Croatia'  
208 'Denmark'  
214 'Dominican Republic'  
233 'Estonia'  
246 'Finland'  
344 'Hong Kong SAR'  
380 'Italy'  
410 'Korea, Republic of'  
428 'Latvia'  
440 'Lithuania'  
470 'Malta'  
484 'Mexico'  
528 'Netherlands'  
578 'Norway'  
604 'Peru'  
643 'Russian Federation'  
705 'Slovenia'  
752 'Sweden'  
956 'Belgium (Flemish)'  
276001 'North Rhine-Westphalia'  
",  
header=TRUE, stringsAsFactors = FALSE)  
  
# Nota: ctry\_text es la variable que contendrá los nombres de paises.  
  
#----------------------------------------------------------  
# agregar nombres de paises  
#----------------------------------------------------------  
  
library(dplyr) # cargamos dplyr, para poder ocupar "%>%" entre comandos  
data\_model <- data\_16 %>%  
 dplyr::left\_join(., country\_list,  
 by = 'IDCNTRY')  
  
# Nota: dplyr::left\_join() nos permite agregar  
# informacion a una tabla pre-existente, empleando  
# empleando una segunda tabla. El argumento  
# "by = '[variable\_clace o viables\_clave]' "  
# es requerida para que R haga un match uno a uno respecto  
# a donde agregar las variables nuevas.  
  
  
#----------------------------------------------------------  
# cantidad de casos por país via table()  
#----------------------------------------------------------  
  
table(data\_model$ctry\_text)

##   
## Belgium (Flemish) Bulgaria Chile   
## 2931 2966 5081   
## Chinese Taipei Colombia Croatia   
## 3953 5609 3896   
## Denmark Dominican Republic Estonia   
## 6254 3937 2857   
## Finland Hong Kong SAR Italy   
## 3173 2653 3450   
## Korea, Republic of Latvia Lithuania   
## 2601 3224 3631   
## Malta Mexico Netherlands   
## 3764 5526 2812   
## North Rhine-Westphalia Norway Peru   
## 1451 6271 5166   
## Russian Federation Slovenia Sweden   
## 7289 2844 3264

#----------------------------------------------------------  
# cantidad de casos por país via xtabs()  
#----------------------------------------------------------  
  
xtabs(~ ctry\_text, data = data\_model)

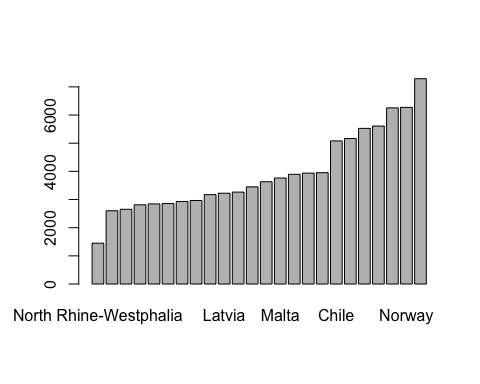
## ctry\_text  
## Belgium (Flemish) Bulgaria Chile   
## 2931 2966 5081   
## Chinese Taipei Colombia Croatia   
## 3953 5609 3896   
## Denmark Dominican Republic Estonia   
## 6254 3937 2857   
## Finland Hong Kong SAR Italy   
## 3173 2653 3450   
## Korea, Republic of Latvia Lithuania   
## 2601 3224 3631   
## Malta Mexico Netherlands   
## 3764 5526 2812   
## North Rhine-Westphalia Norway Peru   
## 1451 6271 5166   
## Russian Federation Slovenia Sweden   
## 7289 2844 3264

#----------------------------------------------------------  
# cantidad de casos por país via dplyr::count  
#----------------------------------------------------------  
  
data\_model %>%  
dplyr::count(ctry\_text) %>%  
knitr::kable()

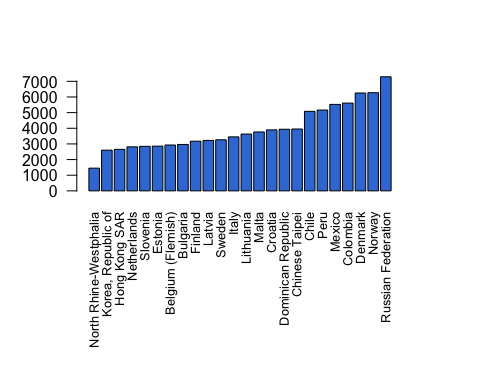
| ctry\_text | n |
| --- | --- |
| Belgium (Flemish) | 2931 |
| Bulgaria | 2966 |
| Chile | 5081 |
| Chinese Taipei | 3953 |
| Colombia | 5609 |
| Croatia | 3896 |
| Denmark | 6254 |
| Dominican Republic | 3937 |
| Estonia | 2857 |
| Finland | 3173 |
| Hong Kong SAR | 2653 |
| Italy | 3450 |
| Korea, Republic of | 2601 |
| Latvia | 3224 |
| Lithuania | 3631 |
| Malta | 3764 |
| Mexico | 5526 |
| Netherlands | 2812 |
| North Rhine-Westphalia | 1451 |
| Norway | 6271 |
| Peru | 5166 |
| Russian Federation | 7289 |
| Slovenia | 2844 |
| Sweden | 3264 |

## Gráfico de cantidad de casos por país (via barplot)

#------------------------------------------------------------------------------  
# casos por país  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# nombres de paises  
#----------------------------------------------------------  
  
sample\_i <- data\_model %>%  
 dplyr::count(ctry\_text) %>%  
 arrange(n)  
  
# Nota: a la tabla que describe la cantidad de casos, la llamaremos  
# 'sample\_i'; mientras que a la tabla de escuelas, la llamaremos  
# 'sample\_j'. En datos que se encuentran anidados, es muy comun  
# refereir a los casos como "i" (de 1 a n), y referir  
# a los clusters como "j" (de 1 a n). De modo tal, que se  
# habla del caso "i" en el cluster "j" (e.g., estudiante "i", en la escuela "j").  
  
#----------------------------------------------------------  
# gráfico simple  
#----------------------------------------------------------  
  
barplot(  
 height = sample\_i$n, # cifra graficada  
 names.arg = sample\_i$ctry\_text, # nombres de cada barra en eje x  
 )

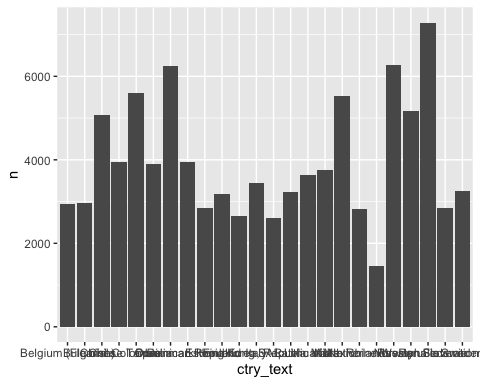


#----------------------------------------------------------  
# gráfico editado  
#----------------------------------------------------------  
  
  
# definir margenes del plot  
par(mar=c(10,4,4,4))  
  
# ‘mar’ A numerical vector of the form ‘c(bottom, left, top, right)’  
# which gives the number of lines of margin to be specified on  
# the four sides of the plot. The default is ‘c(5, 4, 4, 2) +  
# 0.1’.  
  
barplot(  
 height = sample\_i$n, # cifra graficada  
 names.arg = sample\_i$ctry\_text, # nombres de cada barra en eje x  
 col = c('#397CDA'), # color de barras  
 las=2, # mueve los nombres de cada barra en perpendicular al graficp  
 cex.names=.8 # tamaño de los textos  
 )

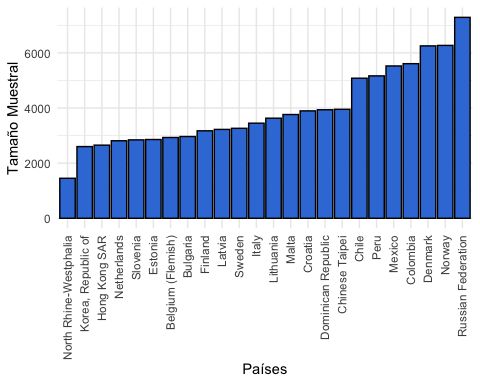


## Gráfico de cantidad de casos por país (via ggplot)

#------------------------------------------------------------------------------  
# casos por país  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# nombres de paises  
#----------------------------------------------------------  
  
data\_plot <- data\_model %>%  
 dplyr::count(ctry\_text) %>%  
 arrange(n)  
  
#----------------------------------------------------------  
# gráfico simple  
#----------------------------------------------------------  
  
  
library(ggplot2)  
ggplot(  
 data = data\_plot,   
 aes(  
 x = ctry\_text,   
 y = n  
 )  
 ) +  
 geom\_bar(stat="identity")



#----------------------------------------------------------  
# gráfico editado  
#----------------------------------------------------------  
  
library(ggplot2)  
ggplot(  
 data = data\_plot, # datos a graficar  
 aes(  
 x = reorder(ctry\_text, n), # reorden de las barras a graficar  
 y = n # vector que contiene las cifras que se grafican  
 )  
 ) +  
 geom\_bar( # objeto empleado para visualizar barras  
 colour = "black", # color de los bordes de las barras  
 stat = "identity", # especifica que se emplean las cifras de la tabla   
 fill = "#397CDA" # especifica el color de las barras en su interior  
 ) +  
 theme\_minimal() + # aplica un template basico de plot  
 ylab('Tamaño Muestral') + # indica el titulo del eje y  
 xlab('Países') + # indica el titulo del eje x  
 guides( # edita la dirección del texto del eje x  
 x = guide\_axis(angle = 90)  
 )



## Cantidad de escuelas por país

#------------------------------------------------------------------------------  
# cantidad de escuelas  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# seleccionar variables y y filtrar casos críticos  
#----------------------------------------------------------  
  
data\_schools <- data\_model %>%  
 # conservar solo las variables que necesitamos: paises y escuelas  
 dplyr::select(ctry\_text, IDSCHOOL) %>%  
 # elminar todos los casos redundantes  
 unique()  
  
# Nota: si seleccionamos solo las variables de país (ctry\_text)  
# y escuela (IDSCHOOL), ahora tenemos una gran tabla  
# que tiene a los casos de estudiantes, de cada escuela, en cada país.  
# Lo anterior, lo logramos aplicando la función 'dplyr::select()'.  
# Debido a que queremos solo la información de las escuelas, necesitamos  
# solo conservar la información "no redundante". Es decir,   
# necesitamos la cantidad de escuelas de cada pais. Aplicamos  
# la función "unique()". En esta secuencia, el resultado de "unique()" es  
# una tabla que contiene a cada pais, y una fila por cada escuela.  
  
#----------------------------------------------------------  
# tabla de cantidad de escuelas por país  
#----------------------------------------------------------  
  
xtabs(~ ctry\_text, data = data\_schools) %>%  
tibble::as\_tibble() %>%  
knitr::kable()

| ctry\_text | n |
| --- | --- |
| Belgium (Flemish) | 162 |
| Bulgaria | 147 |
| Chile | 178 |
| Chinese Taipei | 141 |
| Colombia | 150 |
| Croatia | 175 |
| Denmark | 184 |
| Dominican Republic | 141 |
| Estonia | 164 |
| Finland | 179 |
| Hong Kong SAR | 91 |
| Italy | 170 |
| Korea, Republic of | 93 |
| Latvia | 147 |
| Lithuania | 182 |
| Malta | 47 |
| Mexico | 213 |
| Netherlands | 123 |
| North Rhine-Westphalia | 59 |
| Norway | 148 |
| Peru | 206 |
| Russian Federation | 352 |
| Slovenia | 145 |
| Sweden | 155 |

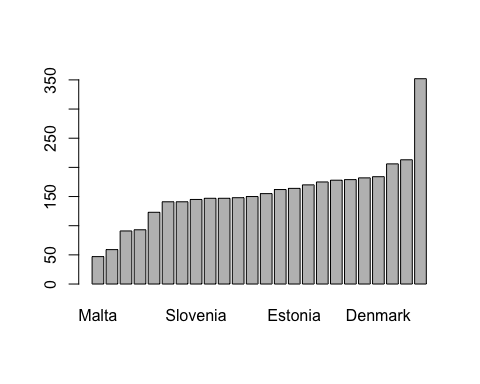
# Nota: podemos transformar el reusltados de "xtabs" a una tabla  
# tipo tibble, y luego este objeto lo podemos  
# mostrar como una tabla en la consola.  
  
#----------------------------------------------------------  
# tabla de cantidad de escuelas por país  
#----------------------------------------------------------  
  
dplyr::count(data\_schools, ctry\_text)

## # A tibble: 24 × 2  
## ctry\_text n  
## <chr> <int>  
## 1 Belgium (Flemish) 162  
## 2 Bulgaria 147  
## 3 Chile 178  
## 4 Chinese Taipei 141  
## 5 Colombia 150  
## 6 Croatia 175  
## 7 Denmark 184  
## 8 Dominican Republic 141  
## 9 Estonia 164  
## 10 Finland 179  
## # … with 14 more rows

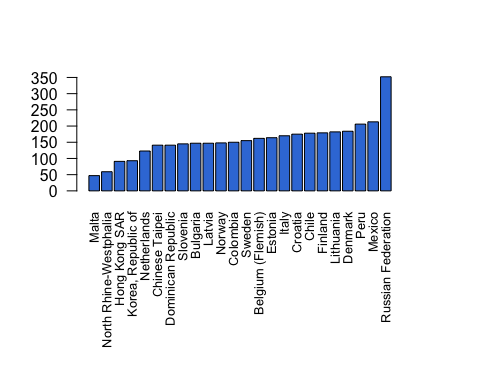
# Nota: el resultado de "dplyr::count()" es muy similar al  
# conjunto de funciones aplicadas en la secuencia anterior.

## Gráfico de cantidad de escuelas por país (via barplot)

#------------------------------------------------------------------------------  
# casos por país  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# nombres de paises  
#----------------------------------------------------------  
  
sample\_j <- data\_schools %>%  
 dplyr::count(ctry\_text) %>%  
 arrange(n)  
  
  
# Nota: a la tabla que describe la cantidad de casos, la llamaremos  
# 'sample\_i'; mientras que a la tabla de escuelas, la llamaremos  
# 'sample\_j'. En datos que se encuentran anidados, es muy comun  
# refereir a los casos como "i" (de 1 a n), y referir  
# a los clusters como "j" (de 1 a n). De modo tal, que se  
# habla del caso "i" en el cluster "j" (e.g., estudiante "i", en la escuela "j").  
  
#----------------------------------------------------------  
# gráfico simple  
#----------------------------------------------------------  
  
barplot(  
 height = sample\_j$n, # cifra graficada  
 names.arg = sample\_j$ctry\_text, # nombres de cada barra en eje x  
 )

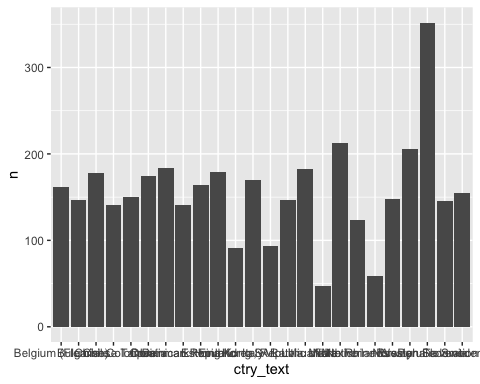


#----------------------------------------------------------  
# gráfico editado  
#----------------------------------------------------------  
  
  
# definir margenes del plot  
par(mar=c(10,4,4,4))  
  
# ‘mar’ A numerical vector of the form ‘c(bottom, left, top, right)’  
# which gives the number of lines of margin to be specified on  
# the four sides of the plot. The default is ‘c(5, 4, 4, 2) +  
# 0.1’.  
  
barplot(  
 height = sample\_j$n, # cifra graficada  
 names.arg = sample\_j$ctry\_text, # nombres de cada barra en eje x  
 col = c('#397CDA'), # color de barras  
 las=2, # mueve los nombres de cada barra en perpendicular al graficp  
 cex.names=.8 # tamaño de los textos  
 )

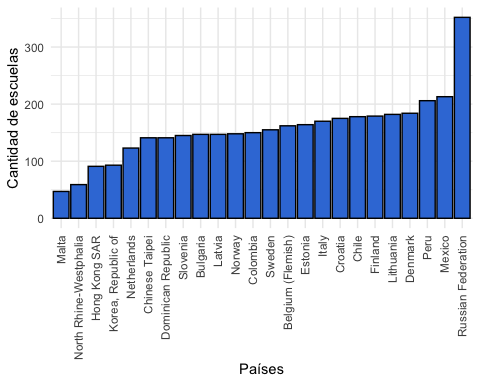


## Gráfico de cantidad de escuelas por país (via ggplot)

#------------------------------------------------------------------------------  
# casos por país  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# nombres de paises  
#----------------------------------------------------------  
  
sample\_j <- data\_schools %>%  
 dplyr::count(ctry\_text) %>%  
 arrange(n)  
  
  
# Nota: a la tabla que describe la cantidad de casos, la llamaremos  
# 'sample\_i'; mientras que a la tabla de escuelas, la llamaremos  
# 'sample\_j'. En datos que se encuentran anidados, es muy comun  
# refereir a los casos como "i" (de 1 a n), y referir  
# a los clusters como "j" (de 1 a n). De modo tal, que se  
# habla del caso "i" en el cluster "j" (e.g., estudiante "i", en la escuela "j").  
  
#----------------------------------------------------------  
# gráfico simple  
#----------------------------------------------------------  
  
  
library(ggplot2)  
ggplot(  
 data = sample\_j,   
 aes(  
 x = ctry\_text,   
 y = n  
 )  
 ) +  
 geom\_bar(stat="identity")



#----------------------------------------------------------  
# gráfico editado  
#----------------------------------------------------------  
  
library(ggplot2)  
ggplot(  
 data = sample\_j, # datos a graficar  
 aes(  
 x = reorder(ctry\_text, n), # reorden de las barras a graficar  
 y = n # vector que contiene las cifras que se grafican  
 )  
 ) +  
 geom\_bar( # objeto empleado para visualizar barras  
 colour = "black", # color de los bordes de las barras  
 stat = "identity", # especifica que se emplean las cifras de la tabla   
 fill = "#397CDA" # especifica el color de las barras en su interior  
 ) +  
 theme\_minimal() + # aplica un template basico de plot  
 ylab('Cantidad de escuelas') + # indica el titulo del eje y  
 xlab('Países') + # indica el titulo del eje x  
 guides( # edita la dirección del texto del eje x  
 x = guide\_axis(angle = 90)  
 )



# Tipos de cluster

Los datos de ICCS 2016, incluye a muestras representativas de estudiantes de cada país. Se muestrean escuelas, y dentro de las escuelas, se muestrean estudiantes de una misma sala de clases. Cada país tiene diferentes tipos de escuelas. Una clasificación comúna varios países participantes, son las escuelas **privadas**.

Para obtener descriptivos de la cantidad de escuelas de cada tipo, emplearemos las siguientes variables:

* La variable país es ‘IDCNTRY’
* La variable escuela es ‘IDSCHOOL’
* La variable escuela es ‘C\_PRIVATE’ + Valores de la variable C\_PRIVATE

value label   
 <chr> <chr>   
1 0 Public school   
2 1 Private school   
3 7 Invalid   
4 8 Not administered  
5 9 Omitted

## Cantidad de escuelas por tipo en toda la muestra

#------------------------------------------------------------------------------  
# cantidad de escuelas por pais  
#------------------------------------------------------------------------------  
  
  
#----------------------------------------------------------  
# seleccionar variables y y filtrar casos críticos  
#----------------------------------------------------------  
  
school\_type <- data\_model %>%  
 # conservar solo las variables que necesitamos: paises y escuelas  
 dplyr::select(ctry\_text, IDSCHOOL, C\_PRIVATE) %>%  
 # elminar todos los casos redundantes  
 unique()  
  
# Nota: si seleccionamos solo las variables de país (ctry\_text)  
# y escuela (IDSCHOOL), ahora tenemos una gran tabla  
# que tiene a los casos de estudiantes, de cada escuela, en cada país.  
# Lo anterior, lo logramos aplicando la función 'dplyr::select()'.  
# Debido a que queremos solo la información de las escuelas, necesitamos  
# solo conservar la información "no redundante". Es decir,   
# necesitamos la cantidad de escuelas de cada pais. Aplicamos  
# la función "unique()". En esta secuencia, el resultado de "unique()" es  
# una tabla que contiene a cada pais, y una fila por cada escuela.  
  
  
#----------------------------------------------------------  
# cantidad de casos por país via table()  
#----------------------------------------------------------  
  
table(school\_type$C\_PRIVATE)

##   
## 0 1   
## 2932 596

#----------------------------------------------------------  
# cantidad de casos por país via table() incluyendo NA  
#----------------------------------------------------------  
  
table(school\_type$C\_PRIVATE, useNA = "always")

##   
## 0 1 <NA>   
## 2932 596 224

#----------------------------------------------------------  
# cantidad de casos por país via table() y with()  
#----------------------------------------------------------  
  
with(school\_type, table(C\_PRIVATE))

## C\_PRIVATE  
## 0 1   
## 2932 596

# Nota: ocupamos la funcion with() de modo que la función table()   
# resuelve los resultados, empleando a la tabla de datos  
# 'school\_type'  
  
  
#----------------------------------------------------------  
# cantidad de casos por país via xtabs()  
#----------------------------------------------------------  
  
xtabs(~ C\_PRIVATE, data = school\_type)

## C\_PRIVATE  
## 0 1   
## 2932 596

#----------------------------------------------------------  
# cantidad de casos por país via xtabs() incluyendo a los NA  
#----------------------------------------------------------  
  
xtabs(~ C\_PRIVATE, data = school\_type, addNA = TRUE)

## C\_PRIVATE  
## 0 1 <NA>   
## 2932 596 224

#----------------------------------------------------------  
# cantidad de casos por país via dplyr::count  
#----------------------------------------------------------  
  
school\_type %>%  
dplyr::count(C\_PRIVATE) %>%  
knitr::kable()

| C\_PRIVATE | n |
| --- | --- |
| 0 | 2932 |
| 1 | 596 |
|  | 224 |

# Nota: la función dplyr::count() cuenta a todos los casos posibles.  
# Lo anterior, incluye a las escuelas sin clasificación.  
  
#----------------------------------------------------------  
# tabla tipo APA (empleando base)  
#----------------------------------------------------------  
  
tabla\_1 <- table(school\_type$C\_PRIVATE, useNA = "always")  
tabla\_1 <- as.data.frame(tabla\_1)  
tabla\_1$n <- tabla\_1$Freq  
tabla\_1$porcentaje <- tabla\_1$Freq/sum(tabla\_1$Freq)  
tabla\_1$tipo <- NA  
tabla\_1$tipo[is.na(tabla\_1$Var1)] <- 'Sin información'  
tabla\_1$tipo[tabla\_1$Var1==0] <- 'Públicas'  
tabla\_1$tipo[tabla\_1$Var1==1] <- 'Privadas'  
tabla\_1 <- tabla\_1[c('tipo','n','porcentaje')]  
tabla\_1

## tipo n porcentaje  
## 1 Públicas 2932 0.78  
## 2 Privadas 596 0.16  
## 3 Sin información 224 0.06

knitr::kable(tabla\_1)

| tipo | n | porcentaje |
| --- | --- | --- |
| Públicas | 2932 | 0.78 |
| Privadas | 596 | 0.16 |
| Sin información | 224 | 0.06 |

#----------------------------------------------------------  
# tabla tipo APA (empleando dplyr)  
#----------------------------------------------------------  
  
table\_1 <- school\_type %>%  
 dplyr::count(C\_PRIVATE) %>%  
 mutate(tipo = case\_when(  
 C\_PRIVATE == 0 ~ 'Públicas',  
 C\_PRIVATE == 1 ~ 'Privadas',  
 TRUE ~ 'Sin información'  
 )) %>%  
 mutate(porcentaje = n/sum(n)) %>%  
 dplyr::select(tipo, n, porcentaje)  
  
knitr::kable(table\_1)

| tipo | n | porcentaje |
| --- | --- | --- |
| Públicas | 2932 | 0.78 |
| Privadas | 596 | 0.16 |
| Sin información | 224 | 0.06 |

## Cantidad de escuelas por tipo en cada país

#------------------------------------------------------------------------------  
# cantidad de escuelas por pais  
#------------------------------------------------------------------------------  
  
  
#----------------------------------------------------------  
# seleccionar variables y y filtrar casos críticos  
#----------------------------------------------------------  
  
school\_type <- data\_model %>%  
 # conservar solo las variables que necesitamos: paises y escuelas  
 dplyr::select(ctry\_text, IDSCHOOL, C\_PRIVATE) %>%  
 # elminar todos los casos redundantes  
 unique()  
  
# Nota: si seleccionamos solo las variables de país (ctry\_text)  
# y escuela (IDSCHOOL), ahora tenemos una gran tabla  
# que tiene a los casos de estudiantes, de cada escuela, en cada país.  
# Lo anterior, lo logramos aplicando la función 'dplyr::select()'.  
# Debido a que queremos solo la información de las escuelas, necesitamos  
# solo conservar la información "no redundante". Es decir,   
# necesitamos la cantidad de escuelas de cada pais. Aplicamos  
# la función "unique()". En esta secuencia, el resultado de "unique()" es  
# una tabla que contiene a cada pais, y una fila por cada escuela.  
  
  
#----------------------------------------------------------  
# cantidad de casos por país via table()  
#----------------------------------------------------------  
  
table(school\_type$ctry\_text, school\_type$C\_PRIVATE)

##   
## 0 1  
## Belgium (Flemish) 35 114  
## Bulgaria 140 5  
## Chile 67 91  
## Chinese Taipei 125 15  
## Colombia 100 28  
## Croatia 172 0  
## Denmark 135 44  
## Dominican Republic 99 28  
## Estonia 103 2  
## Finland 166 8  
## Hong Kong SAR 64 24  
## Italy 159 4  
## Korea, Republic of 72 21  
## Latvia 133 3  
## Lithuania 179 3  
## Malta 18 29  
## Mexico 184 29  
## Netherlands 47 56  
## North Rhine-Westphalia 40 10  
## Norway 138 4  
## Peru 156 50  
## Russian Federation 350 2  
## Slovenia 134 1  
## Sweden 116 25

#----------------------------------------------------------  
# cantidad de casos por país via table() y with()  
#----------------------------------------------------------  
  
with(school\_type, table(ctry\_text, C\_PRIVATE))

## C\_PRIVATE  
## ctry\_text 0 1  
## Belgium (Flemish) 35 114  
## Bulgaria 140 5  
## Chile 67 91  
## Chinese Taipei 125 15  
## Colombia 100 28  
## Croatia 172 0  
## Denmark 135 44  
## Dominican Republic 99 28  
## Estonia 103 2  
## Finland 166 8  
## Hong Kong SAR 64 24  
## Italy 159 4  
## Korea, Republic of 72 21  
## Latvia 133 3  
## Lithuania 179 3  
## Malta 18 29  
## Mexico 184 29  
## Netherlands 47 56  
## North Rhine-Westphalia 40 10  
## Norway 138 4  
## Peru 156 50  
## Russian Federation 350 2  
## Slovenia 134 1  
## Sweden 116 25

# Nota: ocupamos la funcion with() de modo que la función table()   
# resuelve los resultados, empleando a la tabla de datos  
# 'school\_type'  
  
#----------------------------------------------------------  
# cantidad de casos por país via xtabs()  
#----------------------------------------------------------  
  
xtabs(~ ctry\_text + C\_PRIVATE, data = school\_type)

## C\_PRIVATE  
## ctry\_text 0 1  
## Belgium (Flemish) 35 114  
## Bulgaria 140 5  
## Chile 67 91  
## Chinese Taipei 125 15  
## Colombia 100 28  
## Croatia 172 0  
## Denmark 135 44  
## Dominican Republic 99 28  
## Estonia 103 2  
## Finland 166 8  
## Hong Kong SAR 64 24  
## Italy 159 4  
## Korea, Republic of 72 21  
## Latvia 133 3  
## Lithuania 179 3  
## Malta 18 29  
## Mexico 184 29  
## Netherlands 47 56  
## North Rhine-Westphalia 40 10  
## Norway 138 4  
## Peru 156 50  
## Russian Federation 350 2  
## Slovenia 134 1  
## Sweden 116 25

#----------------------------------------------------------  
# cantidad de casos por país via dplyr::count  
#----------------------------------------------------------  
  
school\_type %>%  
dplyr::count(ctry\_text, C\_PRIVATE) %>%  
tidyr::spread(  
 key = 'C\_PRIVATE',  
 value = 'n'  
 ) %>%  
knitr::kable()

| ctry\_text | 0 | 1 |  |
| --- | --- | --- | --- |
| Belgium (Flemish) | 35 | 114 | 13 |
| Bulgaria | 140 | 5 | 2 |
| Chile | 67 | 91 | 20 |
| Chinese Taipei | 125 | 15 | 1 |
| Colombia | 100 | 28 | 22 |
| Croatia | 172 |  | 3 |
| Denmark | 135 | 44 | 5 |
| Dominican Republic | 99 | 28 | 14 |
| Estonia | 103 | 2 | 59 |
| Finland | 166 | 8 | 5 |
| Hong Kong SAR | 64 | 24 | 3 |
| Italy | 159 | 4 | 7 |
| Korea, Republic of | 72 | 21 |  |
| Latvia | 133 | 3 | 11 |
| Lithuania | 179 | 3 |  |
| Malta | 18 | 29 |  |
| Mexico | 184 | 29 |  |
| Netherlands | 47 | 56 | 20 |
| North Rhine-Westphalia | 40 | 10 | 9 |
| Norway | 138 | 4 | 6 |
| Peru | 156 | 50 |  |
| Russian Federation | 350 | 2 |  |
| Slovenia | 134 | 1 | 10 |
| Sweden | 116 | 25 | 14 |

# Nota: la función dplyr::count() cuenta a todos los casos posibles.  
# Lo anterior, incluye a las escuelas sin clasificación.

## Cantidad de escuelas por tipo en cada país en porcentajes por país

#------------------------------------------------------------------------------  
# cantidad de escuelas por pais  
#------------------------------------------------------------------------------  
  
  
#----------------------------------------------------------  
# seleccionar variables y y filtrar casos críticos  
#----------------------------------------------------------  
  
school\_type <- data\_model %>%  
 # conservar solo las variables que necesitamos: paises y escuelas  
 dplyr::select(ctry\_text, IDSCHOOL, C\_PRIVATE) %>%  
 # elminar todos los casos redundantes  
 unique()  
  
# Nota: si seleccionamos solo las variables de país (ctry\_text)  
# y escuela (IDSCHOOL), ahora tenemos una gran tabla  
# que tiene a los casos de estudiantes, de cada escuela, en cada país.  
# Lo anterior, lo logramos aplicando la función 'dplyr::select()'.  
# Debido a que queremos solo la información de las escuelas, necesitamos  
# solo conservar la información "no redundante". Es decir,   
# necesitamos la cantidad de escuelas de cada pais. Aplicamos  
# la función "unique()". En esta secuencia, el resultado de "unique()" es  
# una tabla que contiene a cada pais, y una fila por cada escuela.  
  
  
#----------------------------------------------------------  
# cantidad de casos por país via table()  
#----------------------------------------------------------  
  
table(school\_type$ctry\_text, school\_type$C\_PRIVATE) %>%  
proportions(margin = 1)

##   
## 0 1  
## Belgium (Flemish) 0.2349 0.7651  
## Bulgaria 0.9655 0.0345  
## Chile 0.4241 0.5759  
## Chinese Taipei 0.8929 0.1071  
## Colombia 0.7812 0.2188  
## Croatia 1.0000 0.0000  
## Denmark 0.7542 0.2458  
## Dominican Republic 0.7795 0.2205  
## Estonia 0.9810 0.0190  
## Finland 0.9540 0.0460  
## Hong Kong SAR 0.7273 0.2727  
## Italy 0.9755 0.0245  
## Korea, Republic of 0.7742 0.2258  
## Latvia 0.9779 0.0221  
## Lithuania 0.9835 0.0165  
## Malta 0.3830 0.6170  
## Mexico 0.8638 0.1362  
## Netherlands 0.4563 0.5437  
## North Rhine-Westphalia 0.8000 0.2000  
## Norway 0.9718 0.0282  
## Peru 0.7573 0.2427  
## Russian Federation 0.9943 0.0057  
## Slovenia 0.9926 0.0074  
## Sweden 0.8227 0.1773

#----------------------------------------------------------  
# cantidad de casos por país via table() y with()  
#----------------------------------------------------------  
  
with(school\_type, table(ctry\_text, C\_PRIVATE)) %>%  
proportions(margin = 1)

## C\_PRIVATE  
## ctry\_text 0 1  
## Belgium (Flemish) 0.2349 0.7651  
## Bulgaria 0.9655 0.0345  
## Chile 0.4241 0.5759  
## Chinese Taipei 0.8929 0.1071  
## Colombia 0.7812 0.2188  
## Croatia 1.0000 0.0000  
## Denmark 0.7542 0.2458  
## Dominican Republic 0.7795 0.2205  
## Estonia 0.9810 0.0190  
## Finland 0.9540 0.0460  
## Hong Kong SAR 0.7273 0.2727  
## Italy 0.9755 0.0245  
## Korea, Republic of 0.7742 0.2258  
## Latvia 0.9779 0.0221  
## Lithuania 0.9835 0.0165  
## Malta 0.3830 0.6170  
## Mexico 0.8638 0.1362  
## Netherlands 0.4563 0.5437  
## North Rhine-Westphalia 0.8000 0.2000  
## Norway 0.9718 0.0282  
## Peru 0.7573 0.2427  
## Russian Federation 0.9943 0.0057  
## Slovenia 0.9926 0.0074  
## Sweden 0.8227 0.1773

# Nota: ocupamos la funcion with() de modo que la función table()   
# resuelve los resultados, empleando a la tabla de datos  
# 'school\_type'  
  
#----------------------------------------------------------  
# cantidad de casos por país via xtabs()  
#----------------------------------------------------------  
  
xtabs(~ ctry\_text + C\_PRIVATE, data = school\_type) %>%  
proportions(margin = 1)

## C\_PRIVATE  
## ctry\_text 0 1  
## Belgium (Flemish) 0.2349 0.7651  
## Bulgaria 0.9655 0.0345  
## Chile 0.4241 0.5759  
## Chinese Taipei 0.8929 0.1071  
## Colombia 0.7812 0.2188  
## Croatia 1.0000 0.0000  
## Denmark 0.7542 0.2458  
## Dominican Republic 0.7795 0.2205  
## Estonia 0.9810 0.0190  
## Finland 0.9540 0.0460  
## Hong Kong SAR 0.7273 0.2727  
## Italy 0.9755 0.0245  
## Korea, Republic of 0.7742 0.2258  
## Latvia 0.9779 0.0221  
## Lithuania 0.9835 0.0165  
## Malta 0.3830 0.6170  
## Mexico 0.8638 0.1362  
## Netherlands 0.4563 0.5437  
## North Rhine-Westphalia 0.8000 0.2000  
## Norway 0.9718 0.0282  
## Peru 0.7573 0.2427  
## Russian Federation 0.9943 0.0057  
## Slovenia 0.9926 0.0074  
## Sweden 0.8227 0.1773

#----------------------------------------------------------  
# cantidad de casos por país via dplyr::count  
#----------------------------------------------------------  
  
school\_type %>%  
dplyr::count(ctry\_text, C\_PRIVATE) %>%  
tidyr::spread(  
 key = 'C\_PRIVATE',  
 value = 'n'  
 ) %>%  
rename(  
publicas = 2,  
privadas = 3,  
sin\_info = 4  
) %>%  
mutate(n\_tot = rowSums(cbind(publicas, privadas, sin\_info), na.rm=TRUE)) %>%  
mutate(p\_pub = publicas/n\_tot) %>%  
mutate(p\_pri = privadas/n\_tot) %>%  
mutate(p\_sin = sin\_info/n\_tot) %>%  
dplyr::select(  
 ctry\_text,   
 n\_tot,  
 publicas,  
 privadas,  
 sin\_info,  
 p\_pub,  
 p\_pri,  
 p\_sin  
 ) %>%  
knitr::kable()

| ctry\_text | n\_tot | publicas | privadas | sin\_info | p\_pub | p\_pri | p\_sin |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Belgium (Flemish) | 162 | 35 | 114 | 13 | 0.22 | 0.70 | 0.08 |
| Bulgaria | 147 | 140 | 5 | 2 | 0.95 | 0.03 | 0.01 |
| Chile | 178 | 67 | 91 | 20 | 0.38 | 0.51 | 0.11 |
| Chinese Taipei | 141 | 125 | 15 | 1 | 0.89 | 0.11 | 0.01 |
| Colombia | 150 | 100 | 28 | 22 | 0.67 | 0.19 | 0.15 |
| Croatia | 175 | 172 |  | 3 | 0.98 |  | 0.02 |
| Denmark | 184 | 135 | 44 | 5 | 0.73 | 0.24 | 0.03 |
| Dominican Republic | 141 | 99 | 28 | 14 | 0.70 | 0.20 | 0.10 |
| Estonia | 164 | 103 | 2 | 59 | 0.63 | 0.01 | 0.36 |
| Finland | 179 | 166 | 8 | 5 | 0.93 | 0.04 | 0.03 |
| Hong Kong SAR | 91 | 64 | 24 | 3 | 0.70 | 0.26 | 0.03 |
| Italy | 170 | 159 | 4 | 7 | 0.94 | 0.02 | 0.04 |
| Korea, Republic of | 93 | 72 | 21 |  | 0.77 | 0.23 |  |
| Latvia | 147 | 133 | 3 | 11 | 0.90 | 0.02 | 0.07 |
| Lithuania | 182 | 179 | 3 |  | 0.98 | 0.02 |  |
| Malta | 47 | 18 | 29 |  | 0.38 | 0.62 |  |
| Mexico | 213 | 184 | 29 |  | 0.86 | 0.14 |  |
| Netherlands | 123 | 47 | 56 | 20 | 0.38 | 0.46 | 0.16 |
| North Rhine-Westphalia | 59 | 40 | 10 | 9 | 0.68 | 0.17 | 0.15 |
| Norway | 148 | 138 | 4 | 6 | 0.93 | 0.03 | 0.04 |
| Peru | 206 | 156 | 50 |  | 0.76 | 0.24 |  |
| Russian Federation | 352 | 350 | 2 |  | 0.99 | 0.01 |  |
| Slovenia | 145 | 134 | 1 | 10 | 0.92 | 0.01 | 0.07 |
| Sweden | 155 | 116 | 25 | 14 | 0.75 | 0.16 | 0.09 |

# Nota: la función dplyr::count() cuenta a todos los casos posibles.  
# Lo anterior, incluye a las escuelas sin clasificación.

# Datos por cluster

## Preparar datos

#------------------------------------------------------------------------------  
# preparar datos  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# preparar datos  
#----------------------------------------------------------  
  
school\_data <- data\_model %>%  
 # conservar solo las variables que necesitamos: paises y escuelas  
 dplyr::select(IDCNTRY, ctry\_text, IDSCHOOL, C\_PRIVATE, PV1CIV) %>%  
 # preparar datos  
 mutate(id\_k = as.factor(paste0(IDCNTRY))) %>%  
 mutate(id\_k = as.numeric(id\_k)) %>%  
 mutate(id\_j = as.factor(paste0(IDCNTRY, "\_",IDSCHOOL))) %>%  
 mutate(id\_j = as.numeric(id\_j)) %>%  
 mutate(y\_ij = PV1CIV) %>%  
 mutate(y\_j = psi2301::c\_mean(y\_ij, id\_j)) %>%  
 mutate(adm = case\_when(  
 C\_PRIVATE == 0 ~ 'Públicas',  
 C\_PRIVATE == 1 ~ 'Privadas',  
 TRUE ~ 'Sin información')) %>%   
 dplyr::select(id\_k, ctry\_text, id\_j, adm, y\_j) %>%  
 # elminar todos los casos redundantes  
 unique()

# Distribuciones de puntajes de escuelas

## Obtener datos de una escuela

#------------------------------------------------------------------------------  
# resultados por escuela  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# mostrar solo el dato de puntaje (via codigo base)  
#----------------------------------------------------------  
  
school\_data[school\_data$id\_j == 3591,'y\_j']

## # A tibble: 1 × 1  
## y\_j  
## <dbl+lbl>  
## 1 633.

#----------------------------------------------------------  
# mostrar toda la fila de puntaje (via codigo base)  
#----------------------------------------------------------  
  
school\_data[school\_data$id\_j == 3591,]

## # A tibble: 1 × 5  
## id\_k ctry\_text id\_j adm y\_j  
## <dbl> <chr> <dbl> <chr> <dbl+lbl>  
## 1 24 Belgium (Flemish) 3591 Privadas 633.

#----------------------------------------------------------  
# mostrar solo el dato de puntaje (via dplyr)  
#----------------------------------------------------------  
  
school\_data %>%  
dplyr::filter(id\_j == 3591) %>%  
dplyr::select(y\_j) %>%  
knitr::kable()

| y\_j |
| --- |
| 633 |

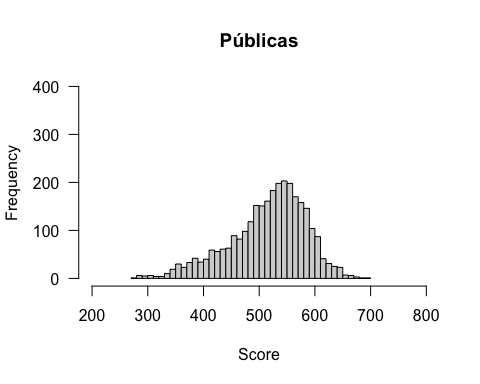
#----------------------------------------------------------  
# mostrar toda la fila de puntaje (via dplyr)  
#----------------------------------------------------------  
  
school\_data %>%  
dplyr::filter(id\_j == 3591) %>%  
knitr::kable()

| id\_k | ctry\_text | id\_j | adm | y\_j |
| --- | --- | --- | --- | --- |
| 24 | Belgium (Flemish) | 3591 | Privadas | 633 |

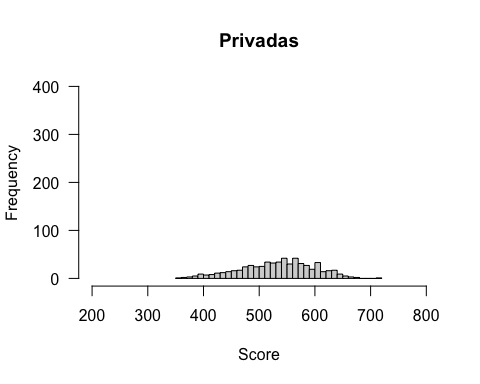
# Distribuciones de puntajes de escuelas

## Histogramas con Base

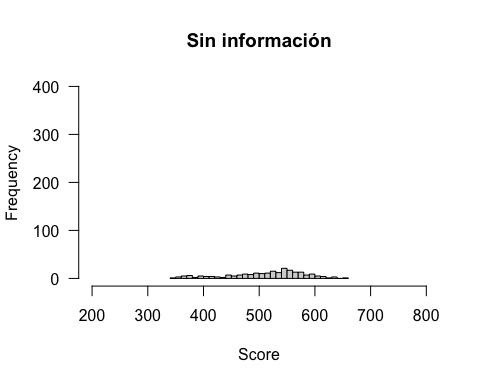
#------------------------------------------------------------------------------  
# histogramas para visualizar distribuciones  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# via hist  
#----------------------------------------------------------  
  
par(mfrow = c(1,1))  
hist(school\_data$y\_j[school\_data$adm=='Públicas'],   
 breaks = 40,  
 las = 1,  
 ylim=c(0,400),  
 xlim=c(200,800),  
 xlab = 'Score',  
 main = 'Públicas'  
 )



par(mfrow = c(1,1))  
hist(school\_data$y\_j[school\_data$adm=='Privadas'],   
 breaks = 40,  
 las = 1,  
 ylim=c(0,400),  
 xlim=c(200,800),  
 xlab = 'Score',  
 main = 'Privadas'  
 )



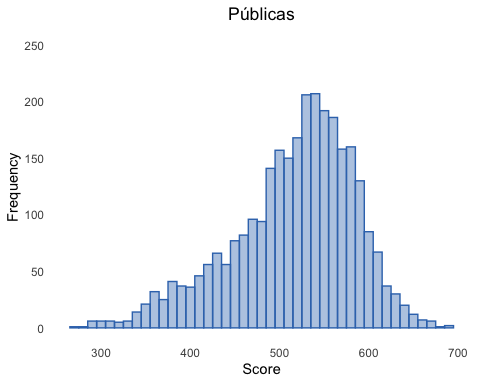
par(mfrow = c(1,1))  
hist(school\_data$y\_j[school\_data$adm=='Sin información'],   
 breaks = 40,  
 las = 1,  
 ylim=c(0,400),  
 xlim=c(200,800),  
 xlab = 'Score',  
 main = 'Sin información'  
 )



## Histogramas con ggplot

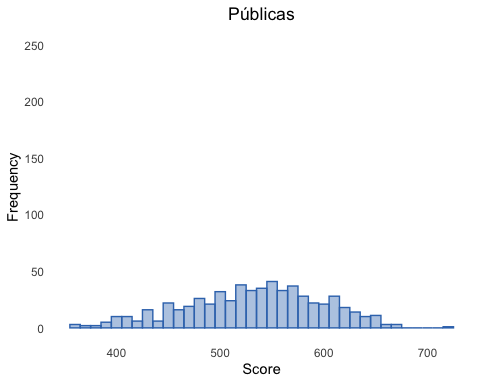
#------------------------------------------------------------------------------  
# histogramas para visualizar distribuciones  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# via ggplot  
#----------------------------------------------------------  
  
library(ggplot2)  
plot\_1 <- school\_data %>%  
dplyr::filter(adm == 'Públicas') %>%  
ggplot(. , aes(x = y\_j)) +  
geom\_histogram(  
 position = "identity",   
 alpha = 0.4,   
 color = '#3876BA',  
 fill = '#3876BA',  
 binwidth = 10  
 ) +  
xlab('Score') +  
ylab('Frequency') +  
labs(title="Públicas") +  
ylim(c(0,250)) +  
theme\_minimal() +  
theme(  
 panel.background = element\_blank(),  
 panel.grid.minor = element\_blank(),  
 panel.grid.major = element\_blank(),   
 axis.ticks = element\_blank(),  
 plot.title = element\_text(hjust = 0.5)  
 )  
plot\_1

## Don't know how to automatically pick scale for object of type haven\_labelled. Defaulting to continuous.



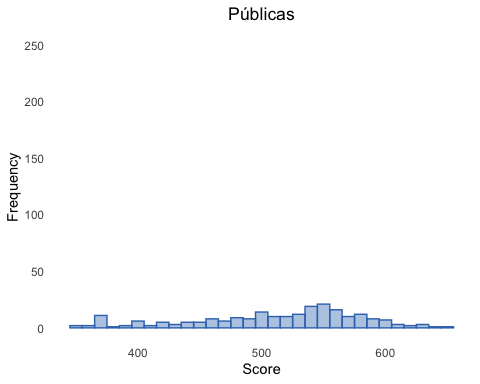
library(ggplot2)  
plot\_2 <- school\_data %>%  
dplyr::filter(adm == 'Privadas') %>%  
ggplot(. , aes(x = y\_j)) +  
geom\_histogram(  
 position = "identity",   
 alpha = 0.4,   
 color = '#3876BA',  
 fill = '#3876BA',  
 binwidth = 10  
 ) +  
xlab('Score') +  
ylab('Frequency') +  
labs(title="Públicas") +  
ylim(c(0,250)) +  
theme\_minimal() +  
theme(  
 panel.background = element\_blank(),  
 panel.grid.minor = element\_blank(),  
 panel.grid.major = element\_blank(),   
 axis.ticks = element\_blank(),  
 plot.title = element\_text(hjust = 0.5)  
 )  
plot\_2

## Don't know how to automatically pick scale for object of type haven\_labelled. Defaulting to continuous.



library(ggplot2)  
plot\_3 <- school\_data %>%  
dplyr::filter(adm == 'Sin información') %>%  
ggplot(. , aes(x = y\_j)) +  
geom\_histogram(  
 position = "identity",   
 alpha = 0.4,   
 color = '#3876BA',  
 fill = '#3876BA',  
 binwidth = 10  
 ) +  
xlab('Score') +  
ylab('Frequency') +  
labs(title="Públicas") +  
ylim(c(0,250)) +  
theme\_minimal() +  
theme(  
 panel.background = element\_blank(),  
 panel.grid.minor = element\_blank(),  
 panel.grid.major = element\_blank(),   
 axis.ticks = element\_blank(),  
 plot.title = element\_text(hjust = 0.5)  
 )  
plot\_3

## Don't know how to automatically pick scale for object of type haven\_labelled. Defaulting to continuous.



## Histogramas con ggplot

#------------------------------------------------------------------------------  
# histogramas para visualizar distribuciones  
#------------------------------------------------------------------------------  
  
#----------------------------------------------------------  
# histogramas superpuestos  
#----------------------------------------------------------  
  
school\_data %>%  
psi2301::remove\_labels() %>%  
ggplot(.,   
 aes(  
 x = y\_j,   
 color = adm,  
 fill = adm  
 )  
 ) +  
geom\_histogram(  
 binwidth = 10,  
 position="identity",   
 alpha=0.5  
 ) +  
scale\_color\_manual(  
values = c(  
 'Públicas' = 'black',  
 'Privadas' = 'black',  
 'Sin información' = 'black'  
 )  
) +  
scale\_fill\_manual(  
values = c(  
 'Públicas' = '#FCFAF9',  
 'Privadas' = '#FFCF00',  
 'Sin información' = '#ED271D'  
 )  
) +  
ylab('n') +  
xlab('Score') +  
theme\_minimal() +  
theme(  
 panel.background = element\_blank(),  
 panel.grid.minor = element\_blank(),  
 panel.grid.major = element\_blank(),   
 axis.ticks = element\_blank(),  
 plot.title = element\_text(hjust = 0.5)  
 )

