

Labo 7.2: Régression linéaire multiple

Visseho Adjwanou, PhD.

07 November 2021

Introduction

Dans ce labo, on s'intéresse à la relation entre la variable dépendante (poids à la naissance) et d'autres variables explicatives dont l'âge de la maman et son niveau d'éducation. On utilise les données issues des enquêtes démographiques et de santé de la Tanzanie.

```
rm(list = ls())
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.0 --
## v ggplot2 3.3.3      v purrr    0.3.4
## v tibble   3.1.2      v dplyr     1.0.6
## v tidyr    1.1.3      v stringr   1.4.0
## v readr    1.4.0      vforcats  0.4.0

## Warning: package 'ggplot2' was built under R version 3.6.2
## Warning: package 'tibble' was built under R version 3.6.2
## Warning: package 'tidyr' was built under R version 3.6.2
## Warning: package 'readr' was built under R version 3.6.2
## Warning: package 'purrr' was built under R version 3.6.2
## Warning: package 'dplyr' was built under R version 3.6.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()   masks stats::lag()

library(summarytools)

## Registered S3 method overwritten by 'pryr':
##   method      from
##   print.bytes Rcpp

## Warning in system2("/usr/bin/otool", c("-L", shQuote(DSO)), stdout = TRUE):
## running command ''/usr/bin/otool' -L '/Library/Frameworks/R.framework/Resources/
## library/tcltk/libs//tcltk.so'' had status 1

##
## Attaching package: 'summarytools'

## The following object is masked from 'package:tibble':
##
```

```

##      view

#install.packages("readstata13")
library(readstata13)

tanzania1 <- read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta")

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v018:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v019:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v034:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v115:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v119:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v120:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v121:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v122:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v123:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v124:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v125:
##   Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v127:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v128:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v129:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v133:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v135:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v152:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v153:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v155:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v157:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v158:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v160:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v161:
## Missing factor labels - no labels assigned.

```

```
## Set option generate.factors=T to generate labels.  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v166:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v167:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v168:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v215:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v217:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v220:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v221:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v225:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v226:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v229:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v230:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## v231:  
## Missing factor labels - no labels assigned.
```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v233:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v234:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v235:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v237:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v239:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v240:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v241:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v242:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v322:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v323:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v323a:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v326:
## Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v327:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v337:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v362:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v367:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v376:
## Duplicated factor levels detected - generating unique labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v384b:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v384c:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v393:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v394:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v395:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v3a00b:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## v3a00e:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00f:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00g:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00h:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00k:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00o:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00p:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00q:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00s:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00u:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00v:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00w:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a00x:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a00y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a00z:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a02:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a03:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a04:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a05:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a06:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a07:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a08a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a08b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a08c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   v3a08d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08e:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08f:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08g:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08h:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08i:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08j:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08k:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08l:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08n:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08o:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08p:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08q:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08r:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08s:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08t:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08x:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v3a08z:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v401:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v407:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v408:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v409:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v410a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v411a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v412a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v412b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v413:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v413a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414f:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414g:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414h:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414i:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414j:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414l:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414o:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414r:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414s:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414t:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v414u:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v415:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v416:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v426:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v439:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v440:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v441:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v442:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v443:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v444:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v444a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v445:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v446:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v447:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v452b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v452c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v455:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v457:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v463a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v463b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v463c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v463d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v463x:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v463z:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v464:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v465:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v467b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v467c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v467d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v467f:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v471b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v471c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472f:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472g:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472h:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472i:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472j:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472l:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472o:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472r:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472s:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472t:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v472u:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v477:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v478:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v480:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v481:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v481a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v481b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v481c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v481d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v481x:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v503:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v504:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v505:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v506:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v525:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v527:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v528:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v529:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v531:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v536:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v537:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v602:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v603:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v604:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v605:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v613:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v614:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v616:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v621:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v624:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v626:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v627:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v628:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v629:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v632:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v633a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v634:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v701:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v702:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v704:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v705:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v714:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v714a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v715:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v716:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v717:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v719:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v729:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v730:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v732:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v739:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v741:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v743a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v743b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v743d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   v746:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   b6:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   b15:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   b16:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m1:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m1a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m1d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m2a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m2b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m2d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m2e:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m2i:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m2j:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m2k:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m2l:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m2n:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m3a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m3b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m3d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m3e:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m3h:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m3i:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m3j:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m3k:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m3l:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m3n:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m4:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m5:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m6:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m7:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m8:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m9:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m10:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m11:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m13:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m14:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m15:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m17:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m18:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m19:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m34:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m35:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.  
  
## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):  
## m36:  
## Missing factor labels - no labels assigned.  
## Set option generate.factors=T to generate labels.
```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m38:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m39:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m42c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m42d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m42e:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m43:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m45:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m46:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m47:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m48:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m49a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m49b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m49c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m49x:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m49z:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m51a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m54:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55e:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55f:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55g:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55h:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55i:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55x:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m55z:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57f:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57i:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57j:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57k:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57o:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57p:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57q:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57s:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57t:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57u:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57v:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m57x:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m62:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m63:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m65a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m65b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m65c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m65d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m65e:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m65f:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m65g:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m65h:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m65x:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m66:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m67:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m70:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m71:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   m73:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h1:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h2d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h2m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h2y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h3:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h3d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h3m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h3y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h4d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h4m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h4y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h5:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h5d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h5m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h5y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h6:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h6d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h6m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h6y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h7:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h7d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h7m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h7y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h8:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h8d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h8m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h8y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h9:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h9d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h9m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h9y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h0d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h0m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h0y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h10:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h11:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h11b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12e:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12f:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12g:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12h:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12k:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12o:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12p:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12q:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12u:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12v:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12w:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12x:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h12z:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h13:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h14:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h15:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h15b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h15c:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h15d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h15e:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h20:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h21a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h21:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h22:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h31:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h31b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h31d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h31e:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32b:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32f:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32g:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32h:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32k:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32o:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32p:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32q:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32u:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32v:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32w:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32x:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h32z:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h33:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h33d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h33m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h33y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

```

```

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h34:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h38:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h39:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h40d:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h40m:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h40y:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h42:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h43:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h44a:
##   Duplicated factor levels detected - generating unique labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   h46a:
##   Duplicated factor levels detected - generating unique labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   hw4:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   hw5:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta") :
##   hw6:

```

```

## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw7:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw8:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw9:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw10:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw11:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw12:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw13:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw15:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw16:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw51:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw52:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw55:

```

```

## Duplicated factor levels detected - generating unique labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw55:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw57:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw70:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw71:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw72:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## hw73:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml1:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml2:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13a:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13b:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13c:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13d:
## Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13e:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13f:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13g:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13h:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13k:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13o:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13x:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13y:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml13z:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml20a:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml21a:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## ml23a:
## Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s10h:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s10m:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s10t:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s325e:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s325f:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s325h:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s325i:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s325j:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s325k:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s325p:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s325q:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s574:
## Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s579a1:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s579a2:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s582:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s631aa:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s631ab:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s631ac:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s631ba:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s631bb:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s631bc:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s642h:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s642i:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s642j:
##   Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s642k:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s642p:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s642q:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s642s:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s642t:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s645h:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s645i:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s645j:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s645k:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s645p:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s645q:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s645s:
##   Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s645t:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715bb:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715bc:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715cb:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715cc:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715cd:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715ce:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715cf:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715cg:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715ci:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715f:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715ha:
##   Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715hb:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715hc:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715hd:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715he:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715hf:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715hx:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s715j:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s804:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s826a:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s826b:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s918a:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s928h:
##   Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s928i:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s928j:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s928k:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s950h:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s950i:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s950j:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s950k:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s950q:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s1301:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s1302:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s1303a:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s1303b:
##   Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s1303c:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s1303d:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s1303aa:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s1303ba:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s1305:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s1306:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s1307:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s1310h:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s1310m:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s1310t:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s407:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s408f:
## Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s426:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s438a:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s438b:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s452a:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s469a:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## s503b:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## sdib1:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## smib1:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## syib1:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## sdib2:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## smib2:
## Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
## syib2:
## Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   sdib3:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   smib3:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   syib3:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   shb1:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   sdhb1:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   smhb1:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   syhb1:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   shb2:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   sdhb2:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   smhb2:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   syhb2:
##   Missing factor labels - no labels assigned.
##   Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   shb3:
##   Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   sdhb3:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   smhb3:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   syhb3:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s523h:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s523i:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s523j:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s523k:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s534a:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s541g:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s541h:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s541i:
##   Missing factor labels - no labels assigned.
## Set option generate.factors=T to generate labels.

## Warning in read.dta13("/Users/visseho/OneDrive - UQAM/Cours/Bases_donnees/TZKR63FL.dta"):
##   s541j:
##   Missing factor labels - no labels assigned.

```

```

## Set option generate.factors=T to generate labels.
freq(tanzania1$v190)

## Frequencies
## tanzania1$v190
## Type: Factor
##
##          Freq % Valid % Valid Cum. % Total % Total Cum.
## -----
##    Poorest   1610    20.07    20.07    20.07    20.07
##    Poorer    1815    22.62    42.69    22.62    42.69
##    Middle    1715    21.38    64.07    21.38    64.07
##    Richer    1656    20.64    84.71    20.64    84.71
##    Richest   1227    15.29   100.00    15.29   100.00
##    <NA>        0           0.00    100.00    100.00    100.00
##    Total     8023   100.00   100.00   100.00   100.00

tanzania_child <-
  tanzania1 %>%
  select(caseid, midx, v000, v001, v002, v003, v004, v005, v006, v007, v008, v009, v010, v011,
         v012, v013, v016, v017, v024, v025, v106, v107, v133, v134, v137, v190, v191, v201,
         v208, v209, v212, v213, b0:b16, m18:m19a, hwidx, hw1:hw19, v437, v438)

freq(tanzania_child$m19)

## Frequencies
## tanzania_child$m19
##
##          Freq % Valid % Valid Cum. % Total % Total Cum.
## -----
##    800      2    0.02    0.02    0.02    0.02
##    900      2    0.02    0.05    0.02    0.05
##    1000     10   0.12    0.17    0.12    0.17
##    1200      5   0.06    0.24    0.06    0.24
##    1400      3   0.04    0.27    0.04    0.27
##    1500     14   0.17    0.45    0.17    0.45
##    1600      3   0.04    0.49    0.04    0.49
##    1700      5   0.06    0.55    0.06    0.55
##    1750      1   0.01    0.56    0.01    0.56
##    1800      9   0.11    0.67    0.11    0.67
##    1900      9   0.11    0.79    0.11    0.79
##    2000    117   1.46    2.24    1.46    2.24
##    2004      1   0.01    2.26    0.01    2.26
##    2006      1   0.01    2.27    0.01    2.27
##    2008      3   0.04    2.31    0.04    2.31
##    2009      1   0.01    2.32    0.01    2.32
##    2050      1   0.01    2.33    0.01    2.33
##    2100     13   0.16    2.49    0.16    2.49
##    2190      1   0.01    2.51    0.01    2.51
##    2200     27   0.34    2.84    0.34    2.84
##    2250      7   0.09    2.93    0.09    2.93
##    2300     25   0.31    3.24    0.31    3.24
##    2400     30   0.37    3.61    0.37    3.61
##    2450      1   0.01    3.63    0.01    3.63

```

##	2500	284	3.54	7.17	3.54	7.17
##	2550	4	0.05	7.22	0.05	7.22
##	2600	78	0.97	8.19	0.97	8.19
##	2650	1	0.01	8.20	0.01	8.20
##	2675	1	0.01	8.21	0.01	8.21
##	2700	71	0.88	9.10	0.88	9.10
##	2750	7	0.09	9.19	0.09	9.19
##	2790	1	0.01	9.20	0.01	9.20
##	2800	144	1.79	10.99	1.79	10.99
##	2810	1	0.01	11.01	0.01	11.01
##	2850	5	0.06	11.07	0.06	11.07
##	2860	1	0.01	11.08	0.01	11.08
##	2870	1	0.01	11.09	0.01	11.09
##	2900	102	1.27	12.36	1.27	12.36
##	2950	5	0.06	12.43	0.06	12.43
##	2995	1	0.01	12.44	0.01	12.44
##	3000	951	11.85	24.29	11.85	24.29
##	3001	1	0.01	24.31	0.01	24.31
##	3002	4	0.05	24.35	0.05	24.35
##	3003	3	0.04	24.39	0.04	24.39
##	3004	1	0.01	24.40	0.01	24.40
##	3005	6	0.07	24.48	0.07	24.48
##	3006	2	0.02	24.50	0.02	24.50
##	3007	2	0.02	24.53	0.02	24.53
##	3010	1	0.01	24.54	0.01	24.54
##	3085	1	0.01	24.55	0.01	24.55
##	3100	110	1.37	25.93	1.37	25.93
##	3120	1	0.01	25.94	0.01	25.94
##	3150	5	0.06	26.00	0.06	26.00
##	3180	1	0.01	26.01	0.01	26.01
##	3200	223	2.78	28.79	2.78	28.79
##	3250	10	0.12	28.92	0.12	28.92
##	3300	150	1.87	30.79	1.87	30.79
##	3320	1	0.01	30.80	0.01	30.80
##	3350	7	0.09	30.89	0.09	30.89
##	3370	1	0.01	30.90	0.01	30.90
##	3400	139	1.73	32.63	1.73	32.63
##	3440	1	0.01	32.64	0.01	32.64
##	3450	1	0.01	32.66	0.01	32.66
##	3500	648	8.08	40.73	8.08	40.73
##	3550	4	0.05	40.78	0.05	40.78
##	3570	1	0.01	40.80	0.01	40.80
##	3600	113	1.41	42.20	1.41	42.20
##	3650	2	0.02	42.23	0.02	42.23
##	3680	2	0.02	42.25	0.02	42.25
##	3700	78	0.97	43.23	0.97	43.23
##	3750	4	0.05	43.28	0.05	43.28
##	3800	112	1.40	44.67	1.40	44.67
##	3875	1	0.01	44.68	0.01	44.68
##	3900	63	0.79	45.47	0.79	45.47
##	3950	2	0.02	45.49	0.02	45.49
##	4000	253	3.15	48.65	3.15	48.65
##	4005	1	0.01	48.66	0.01	48.66
##	4100	13	0.16	48.82	0.16	48.82

##	4200	35	0.44	49.26	0.44	49.26
##	4300	25	0.31	49.57	0.31	49.57
##	4310	1	0.01	49.58	0.01	49.58
##	4400	11	0.14	49.72	0.14	49.72
##	4500	67	0.84	50.55	0.84	50.55
##	4600	7	0.09	50.64	0.09	50.64
##	4700	4	0.05	50.69	0.05	50.69
##	4750	1	0.01	50.70	0.01	50.70
##	4800	17	0.21	50.92	0.21	50.92
##	4900	7	0.09	51.00	0.09	51.00
##	5000	38	0.47	51.48	0.47	51.48
##	5100	1	0.01	51.49	0.01	51.49
##	5200	2	0.02	51.51	0.02	51.51
##	5250	1	0.01	51.53	0.01	51.53
##	5400	1	0.01	51.54	0.01	51.54
##	5500	5	0.06	51.60	0.06	51.60
##	5700	1	0.01	51.61	0.01	51.61
##	6000	2	0.02	51.64	0.02	51.64
##	6200	1	0.01	51.65	0.01	51.65
##	7000	1	0.01	51.66	0.01	51.66
##	9996	3748	46.72	98.38	46.72	98.38
##	9998	79	0.98	99.36	0.98	99.36
##	9999	51	0.64	100.00	0.64	100.00
##	<NA>	0			0.00	100.00
##	Total	8023	100.00	100.00	100.00	100.00

```
freq(tanzania_child$v438)
```

## Frequencies	## tanzania_child\$v438	##	##	## Freq	% Valid	% Valid Cum.	% Total	% Total Cum.
##	##	##	##	1350	1	0.01	0.01	0.01
##	##	##	##	1367	1	0.01	0.02	0.02
##	##	##	##	1368	1	0.01	0.04	0.04
##	##	##	##	1370	1	0.01	0.05	0.05
##	##	##	##	1374	1	0.01	0.06	0.06
##	##	##	##	1376	3	0.04	0.10	0.10
##	##	##	##	1383	1	0.01	0.11	0.11
##	##	##	##	1387	1	0.01	0.12	0.12
##	##	##	##	1392	2	0.02	0.15	0.15
##	##	##	##	1395	2	0.02	0.17	0.17
##	##	##	##	1397	4	0.05	0.22	0.22
##	##	##	##	1398	2	0.02	0.25	0.25
##	##	##	##	1400	2	0.02	0.27	0.27
##	##	##	##	1401	1	0.01	0.29	0.29
##	##	##	##	1409	2	0.02	0.31	0.31
##	##	##	##	1410	3	0.04	0.35	0.35
##	##	##	##	1411	1	0.01	0.36	0.36
##	##	##	##	1412	3	0.04	0.40	0.40
##	##	##	##	1413	4	0.05	0.45	0.45
##	##	##	##	1415	1	0.01	0.46	0.46
##	##	##	##	1416	3	0.04	0.50	0.50
##	##	##	##	1419	2	0.02	0.52	0.52

##	1420	5	0.06	0.59	0.06	0.59
##	1421	2	0.02	0.61	0.02	0.61
##	1422	4	0.05	0.66	0.05	0.66
##	1423	4	0.05	0.71	0.05	0.71
##	1425	2	0.02	0.74	0.02	0.74
##	1426	6	0.07	0.81	0.07	0.81
##	1428	9	0.11	0.92	0.11	0.92
##	1429	1	0.01	0.93	0.01	0.93
##	1430	6	0.07	1.01	0.07	1.01
##	1432	3	0.04	1.05	0.04	1.05
##	1433	4	0.05	1.10	0.05	1.10
##	1434	1	0.01	1.11	0.01	1.11
##	1435	4	0.05	1.16	0.05	1.16
##	1436	4	0.05	1.21	0.05	1.21
##	1437	2	0.02	1.23	0.02	1.23
##	1438	3	0.04	1.27	0.04	1.27
##	1439	5	0.06	1.33	0.06	1.33
##	1440	13	0.16	1.50	0.16	1.50
##	1441	11	0.14	1.63	0.14	1.63
##	1442	11	0.14	1.77	0.14	1.77
##	1443	9	0.11	1.88	0.11	1.88
##	1444	4	0.05	1.93	0.05	1.93
##	1445	17	0.21	2.14	0.21	2.14
##	1446	8	0.10	2.24	0.10	2.24
##	1447	8	0.10	2.34	0.10	2.34
##	1448	10	0.12	2.47	0.12	2.47
##	1449	3	0.04	2.51	0.04	2.51
##	1450	28	0.35	2.85	0.35	2.85
##	1451	4	0.05	2.90	0.05	2.90
##	1452	12	0.15	3.05	0.15	3.05
##	1453	14	0.17	3.23	0.17	3.23
##	1454	7	0.09	3.32	0.09	3.32
##	1455	22	0.27	3.59	0.27	3.59
##	1456	9	0.11	3.70	0.11	3.70
##	1457	18	0.22	3.93	0.22	3.93
##	1458	11	0.14	4.06	0.14	4.06
##	1459	2	0.02	4.09	0.02	4.09
##	1460	20	0.25	4.34	0.25	4.34
##	1461	12	0.15	4.49	0.15	4.49
##	1462	15	0.19	4.67	0.19	4.67
##	1463	12	0.15	4.82	0.15	4.82
##	1464	9	0.11	4.94	0.11	4.94
##	1465	19	0.24	5.17	0.24	5.17
##	1466	11	0.14	5.31	0.14	5.31
##	1467	7	0.09	5.40	0.09	5.40
##	1468	13	0.16	5.56	0.16	5.56
##	1469	8	0.10	5.66	0.10	5.66
##	1470	30	0.37	6.03	0.37	6.03
##	1471	7	0.09	6.12	0.09	6.12
##	1472	16	0.20	6.32	0.20	6.32
##	1473	12	0.15	6.47	0.15	6.47
##	1474	15	0.19	6.66	0.19	6.66
##	1475	27	0.34	6.99	0.34	6.99
##	1476	8	0.10	7.09	0.10	7.09

##	1477	6	0.07	7.17	0.07	7.17
##	1478	14	0.17	7.34	0.17	7.34
##	1479	16	0.20	7.54	0.20	7.54
##	1480	37	0.46	8.00	0.46	8.00
##	1481	11	0.14	8.14	0.14	8.14
##	1482	16	0.20	8.34	0.20	8.34
##	1483	24	0.30	8.64	0.30	8.64
##	1484	19	0.24	8.87	0.24	8.87
##	1485	42	0.52	9.40	0.52	9.40
##	1486	19	0.24	9.63	0.24	9.63
##	1487	9	0.11	9.75	0.11	9.75
##	1488	18	0.22	9.97	0.22	9.97
##	1489	14	0.17	10.15	0.17	10.15
##	1490	49	0.61	10.76	0.61	10.76
##	1491	19	0.24	10.99	0.24	10.99
##	1492	19	0.24	11.23	0.24	11.23
##	1493	16	0.20	11.43	0.20	11.43
##	1494	31	0.39	11.82	0.39	11.82
##	1495	48	0.60	12.41	0.60	12.41
##	1496	30	0.37	12.79	0.37	12.79
##	1497	25	0.31	13.10	0.31	13.10
##	1498	23	0.29	13.39	0.29	13.39
##	1499	13	0.16	13.55	0.16	13.55
##	1500	62	0.77	14.32	0.77	14.32
##	1501	26	0.32	14.65	0.32	14.65
##	1502	44	0.55	15.19	0.55	15.19
##	1503	38	0.47	15.67	0.47	15.67
##	1504	20	0.25	15.92	0.25	15.92
##	1505	61	0.76	16.68	0.76	16.68
##	1506	15	0.19	16.86	0.19	16.86
##	1507	29	0.36	17.23	0.36	17.23
##	1508	26	0.32	17.55	0.32	17.55
##	1509	13	0.16	17.71	0.16	17.71
##	1510	82	1.02	18.73	1.02	18.73
##	1511	23	0.29	19.02	0.29	19.02
##	1512	32	0.40	19.42	0.40	19.42
##	1513	36	0.45	19.87	0.45	19.87
##	1514	27	0.34	20.20	0.34	20.20
##	1515	60	0.75	20.95	0.75	20.95
##	1516	41	0.51	21.46	0.51	21.46
##	1517	40	0.50	21.96	0.50	21.96
##	1518	26	0.32	22.29	0.32	22.29
##	1519	12	0.15	22.44	0.15	22.44
##	1520	86	1.07	23.51	1.07	23.51
##	1521	36	0.45	23.96	0.45	23.96
##	1522	50	0.62	24.58	0.62	24.58
##	1523	43	0.54	25.12	0.54	25.12
##	1524	30	0.37	25.49	0.37	25.49
##	1525	51	0.64	26.12	0.64	26.12
##	1526	35	0.44	26.56	0.44	26.56
##	1527	23	0.29	26.85	0.29	26.85
##	1528	41	0.51	27.36	0.51	27.36
##	1529	27	0.34	27.70	0.34	27.70
##	1530	92	1.15	28.84	1.15	28.84

##	1531	42	0.52	29.37	0.52	29.37
##	1532	82	1.02	30.39	1.02	30.39
##	1533	59	0.74	31.12	0.74	31.12
##	1534	34	0.42	31.55	0.42	31.55
##	1535	86	1.07	32.62	1.07	32.62
##	1536	13	0.16	32.78	0.16	32.78
##	1537	36	0.45	33.23	0.45	33.23
##	1538	27	0.34	33.57	0.34	33.57
##	1539	22	0.27	33.84	0.27	33.84
##	1540	131	1.63	35.47	1.63	35.47
##	1541	48	0.60	36.07	0.60	36.07
##	1542	62	0.77	36.84	0.77	36.84
##	1543	61	0.76	37.60	0.76	37.60
##	1544	51	0.64	38.24	0.64	38.24
##	1545	68	0.85	39.09	0.85	39.09
##	1546	29	0.36	39.45	0.36	39.45
##	1547	35	0.44	39.89	0.44	39.89
##	1548	27	0.34	40.22	0.34	40.22
##	1549	15	0.19	40.41	0.19	40.41
##	1550	123	1.53	41.94	1.53	41.94
##	1551	29	0.36	42.30	0.36	42.30
##	1552	62	0.77	43.08	0.77	43.08
##	1553	58	0.72	43.80	0.72	43.80
##	1554	45	0.56	44.36	0.56	44.36
##	1555	99	1.23	45.59	1.23	45.59
##	1556	49	0.61	46.20	0.61	46.20
##	1557	40	0.50	46.70	0.50	46.70
##	1558	36	0.45	47.15	0.45	47.15
##	1559	26	0.32	47.48	0.32	47.48
##	1560	111	1.38	48.86	1.38	48.86
##	1561	54	0.67	49.53	0.67	49.53
##	1562	63	0.79	50.32	0.79	50.32
##	1563	50	0.62	50.94	0.62	50.94
##	1564	52	0.65	51.59	0.65	51.59
##	1565	71	0.88	52.47	0.88	52.47
##	1566	32	0.40	52.87	0.40	52.87
##	1567	36	0.45	53.32	0.45	53.32
##	1568	24	0.30	53.62	0.30	53.62
##	1569	18	0.22	53.85	0.22	53.85
##	1570	119	1.48	55.33	1.48	55.33
##	1571	21	0.26	55.59	0.26	55.59
##	1572	68	0.85	56.44	0.85	56.44
##	1573	77	0.96	57.40	0.96	57.40
##	1574	50	0.62	58.02	0.62	58.02
##	1575	63	0.79	58.81	0.79	58.81
##	1576	61	0.76	59.57	0.76	59.57
##	1577	35	0.44	60.00	0.44	60.00
##	1578	48	0.60	60.60	0.60	60.60
##	1579	18	0.22	60.83	0.22	60.83
##	1580	93	1.16	61.98	1.16	61.98
##	1581	33	0.41	62.40	0.41	62.40
##	1582	65	0.81	63.21	0.81	63.21
##	1583	59	0.74	63.94	0.74	63.94
##	1584	38	0.47	64.41	0.47	64.41

##	1585	70	0.87	65.29	0.87	65.29
##	1586	34	0.42	65.71	0.42	65.71
##	1587	35	0.44	66.15	0.44	66.15
##	1588	23	0.29	66.43	0.29	66.43
##	1589	32	0.40	66.83	0.40	66.83
##	1590	90	1.12	67.95	1.12	67.95
##	1591	34	0.42	68.38	0.42	68.38
##	1592	51	0.64	69.01	0.64	69.01
##	1593	35	0.44	69.45	0.44	69.45
##	1594	36	0.45	69.90	0.45	69.90
##	1595	80	1.00	70.90	1.00	70.90
##	1596	32	0.40	71.30	0.40	71.30
##	1597	33	0.41	71.71	0.41	71.71
##	1598	46	0.57	72.28	0.57	72.28
##	1599	18	0.22	72.50	0.22	72.50
##	1600	111	1.38	73.89	1.38	73.89
##	1601	32	0.40	74.29	0.40	74.29
##	1602	53	0.66	74.95	0.66	74.95
##	1603	37	0.46	75.41	0.46	75.41
##	1604	38	0.47	75.88	0.47	75.88
##	1605	46	0.57	76.46	0.57	76.46
##	1606	25	0.31	76.77	0.31	76.77
##	1607	21	0.26	77.03	0.26	77.03
##	1608	21	0.26	77.29	0.26	77.29
##	1609	9	0.11	77.40	0.11	77.40
##	1610	94	1.17	78.57	1.17	78.57
##	1611	24	0.30	78.87	0.30	78.87
##	1612	37	0.46	79.33	0.46	79.33
##	1613	25	0.31	79.65	0.31	79.65
##	1614	18	0.22	79.87	0.22	79.87
##	1615	61	0.76	80.63	0.76	80.63
##	1616	19	0.24	80.87	0.24	80.87
##	1617	23	0.29	81.15	0.29	81.15
##	1618	24	0.30	81.45	0.30	81.45
##	1619	21	0.26	81.72	0.26	81.72
##	1620	84	1.05	82.76	1.05	82.76
##	1621	26	0.32	83.09	0.32	83.09
##	1622	43	0.54	83.62	0.54	83.62
##	1623	35	0.44	84.06	0.44	84.06
##	1624	21	0.26	84.32	0.26	84.32
##	1625	55	0.69	85.01	0.69	85.01
##	1626	39	0.49	85.49	0.49	85.49
##	1627	15	0.19	85.68	0.19	85.68
##	1628	30	0.37	86.05	0.37	86.05
##	1629	8	0.10	86.15	0.10	86.15
##	1630	69	0.86	87.01	0.86	87.01
##	1631	4	0.05	87.06	0.05	87.06
##	1632	25	0.31	87.37	0.31	87.37
##	1633	11	0.14	87.51	0.14	87.51
##	1634	24	0.30	87.81	0.30	87.81
##	1635	36	0.45	88.26	0.45	88.26
##	1636	24	0.30	88.56	0.30	88.56
##	1637	23	0.29	88.84	0.29	88.84
##	1638	15	0.19	89.03	0.19	89.03

##	1639	6	0.07	89.11	0.07	89.11
##	1640	60	0.75	89.85	0.75	89.85
##	1641	18	0.22	90.08	0.22	90.08
##	1642	24	0.30	90.38	0.30	90.38
##	1643	20	0.25	90.63	0.25	90.63
##	1644	20	0.25	90.88	0.25	90.88
##	1645	35	0.44	91.31	0.44	91.31
##	1646	17	0.21	91.52	0.21	91.52
##	1647	12	0.15	91.67	0.15	91.67
##	1648	19	0.24	91.91	0.24	91.91
##	1649	6	0.07	91.99	0.07	91.99
##	1650	41	0.51	92.50	0.51	92.50
##	1651	9	0.11	92.61	0.11	92.61
##	1652	18	0.22	92.83	0.22	92.83
##	1653	15	0.19	93.02	0.19	93.02
##	1654	22	0.27	93.29	0.27	93.29
##	1655	20	0.25	93.54	0.25	93.54
##	1656	9	0.11	93.66	0.11	93.66
##	1657	5	0.06	93.72	0.06	93.72
##	1658	6	0.07	93.79	0.07	93.79
##	1659	13	0.16	93.95	0.16	93.95
##	1660	48	0.60	94.55	0.60	94.55
##	1661	2	0.02	94.58	0.02	94.58
##	1662	11	0.14	94.72	0.14	94.72
##	1663	4	0.05	94.77	0.05	94.77
##	1664	7	0.09	94.85	0.09	94.85
##	1665	30	0.37	95.23	0.37	95.23
##	1666	10	0.12	95.35	0.12	95.35
##	1667	7	0.09	95.44	0.09	95.44
##	1668	6	0.07	95.51	0.07	95.51
##	1669	6	0.07	95.59	0.07	95.59
##	1670	27	0.34	95.92	0.34	95.92
##	1672	19	0.24	96.16	0.24	96.16
##	1673	9	0.11	96.27	0.11	96.27
##	1675	11	0.14	96.41	0.14	96.41
##	1676	3	0.04	96.45	0.04	96.45
##	1677	11	0.14	96.58	0.14	96.58
##	1678	7	0.09	96.67	0.09	96.67
##	1679	3	0.04	96.71	0.04	96.71
##	1680	13	0.16	96.87	0.16	96.87
##	1681	7	0.09	96.96	0.09	96.96
##	1682	12	0.15	97.11	0.15	97.11
##	1683	10	0.12	97.23	0.12	97.23
##	1684	1	0.01	97.25	0.01	97.25
##	1685	15	0.19	97.43	0.19	97.43
##	1686	3	0.04	97.47	0.04	97.47
##	1687	1	0.01	97.48	0.01	97.48
##	1688	6	0.07	97.56	0.07	97.56
##	1689	3	0.04	97.59	0.04	97.59
##	1690	20	0.25	97.84	0.25	97.84
##	1691	4	0.05	97.89	0.05	97.89
##	1692	4	0.05	97.94	0.05	97.94
##	1693	6	0.07	98.02	0.07	98.02
##	1694	2	0.02	98.04	0.02	98.04

```

##      1695     4    0.05    98.09    0.05    98.09
##      1696     6    0.07    98.17    0.07    98.17
##      1697     3    0.04    98.21    0.04    98.21
##      1698     2    0.02    98.23    0.02    98.23
##      1699     5    0.06    98.29    0.06    98.29
##      1700    13    0.16    98.45    0.16    98.45
##      1701     2    0.02    98.48    0.02    98.48
##      1702     1    0.01    98.49    0.01    98.49
##      1705     1    0.01    98.50    0.01    98.50
##      1706     1    0.01    98.52    0.01    98.52
##      1707     2    0.02    98.54    0.02    98.54
##      1708     1    0.01    98.55    0.01    98.55
##      1710     7    0.09    98.64    0.09    98.64
##      1711     1    0.01    98.65    0.01    98.65
##      1712     4    0.05    98.70    0.05    98.70
##      1713     1    0.01    98.72    0.01    98.72
##      1714     1    0.01    98.73    0.01    98.73
##      1715     4    0.05    98.78    0.05    98.78
##      1716     2    0.02    98.80    0.02    98.80
##      1717     2    0.02    98.83    0.02    98.83
##      1720     6    0.07    98.90    0.07    98.90
##      1722     2    0.02    98.93    0.02    98.93
##      1725     2    0.02    98.95    0.02    98.95
##      1726     1    0.01    98.97    0.01    98.97
##      1727     1    0.01    98.98    0.01    98.98
##      1730     2    0.02    99.00    0.02    99.00
##      1731     1    0.01    99.02    0.01    99.02
##      1735     1    0.01    99.03    0.01    99.03
##      1740     1    0.01    99.04    0.01    99.04
##      1741     2    0.02    99.07    0.02    99.07
##      1750     3    0.04    99.10    0.04    99.10
##      1755     2    0.02    99.13    0.02    99.13
##      1762     2    0.02    99.15    0.02    99.15
##      1765     1    0.01    99.16    0.01    99.16
##      1770     2    0.02    99.19    0.02    99.19
##      1790     1    0.01    99.20    0.01    99.20
##      1791     1    0.01    99.21    0.01    99.21
##      1804     1    0.01    99.23    0.01    99.23
##      1820     1    0.01    99.24    0.01    99.24
##      1855     2    0.02    99.26    0.02    99.26
##      1858     2    0.02    99.29    0.02    99.29
##      9999    57    0.71    100.00    0.71    100.00
##      <NA>     0          0.00    100.00
##      Total   8023  100.00    100.00    100.00    100.00

```

```
freq(tanzania_child$v437)
```

```

## Frequencies
## tanzania_child$v437
##
##             Freq  % Valid  % Valid Cum.  % Total  % Total Cum.
## -----
##      293     1    0.01        0.01    0.01    0.01
##      321     2    0.02        0.04    0.02    0.04
##      322     1    0.01        0.05    0.01    0.05

```

##	324	1	0.01	0.06	0.01	0.06
##	341	2	0.02	0.09	0.02	0.09
##	343	1	0.01	0.10	0.01	0.10
##	350	1	0.01	0.11	0.01	0.11
##	351	3	0.04	0.15	0.04	0.15
##	353	1	0.01	0.16	0.01	0.16
##	358	4	0.05	0.21	0.05	0.21
##	359	4	0.05	0.26	0.05	0.26
##	361	1	0.01	0.27	0.01	0.27
##	362	1	0.01	0.29	0.01	0.29
##	364	4	0.05	0.34	0.05	0.34
##	366	3	0.04	0.37	0.04	0.37
##	367	3	0.04	0.41	0.04	0.41
##	369	1	0.01	0.42	0.01	0.42
##	370	3	0.04	0.46	0.04	0.46
##	371	1	0.01	0.47	0.01	0.47
##	372	2	0.02	0.50	0.02	0.50
##	373	1	0.01	0.51	0.01	0.51
##	374	2	0.02	0.54	0.02	0.54
##	375	7	0.09	0.62	0.09	0.62
##	377	1	0.01	0.64	0.01	0.64
##	379	6	0.07	0.71	0.07	0.71
##	380	1	0.01	0.72	0.01	0.72
##	381	6	0.07	0.80	0.07	0.80
##	382	3	0.04	0.84	0.04	0.84
##	384	10	0.12	0.96	0.12	0.96
##	385	7	0.09	1.05	0.09	1.05
##	386	5	0.06	1.11	0.06	1.11
##	387	4	0.05	1.16	0.05	1.16
##	388	6	0.07	1.23	0.07	1.23
##	389	2	0.02	1.26	0.02	1.26
##	390	2	0.02	1.28	0.02	1.28
##	391	6	0.07	1.36	0.07	1.36
##	392	1	0.01	1.37	0.01	1.37
##	393	7	0.09	1.46	0.09	1.46
##	394	3	0.04	1.50	0.04	1.50
##	395	8	0.10	1.60	0.10	1.60
##	396	3	0.04	1.63	0.04	1.63
##	397	8	0.10	1.73	0.10	1.73
##	398	7	0.09	1.82	0.09	1.82
##	399	11	0.14	1.96	0.14	1.96
##	400	13	0.16	2.12	0.16	2.12
##	401	14	0.17	2.29	0.17	2.29
##	402	11	0.14	2.43	0.14	2.43
##	403	8	0.10	2.53	0.10	2.53
##	404	10	0.12	2.65	0.12	2.65
##	405	14	0.17	2.83	0.17	2.83
##	406	10	0.12	2.95	0.12	2.95
##	407	11	0.14	3.09	0.14	3.09
##	408	10	0.12	3.22	0.12	3.22
##	409	17	0.21	3.43	0.21	3.43
##	410	17	0.21	3.64	0.21	3.64
##	411	13	0.16	3.80	0.16	3.80
##	412	12	0.15	3.95	0.15	3.95

##	413	15	0.19	4.14	0.19	4.14
##	414	20	0.25	4.39	0.25	4.39
##	415	11	0.14	4.52	0.14	4.52
##	416	5	0.06	4.59	0.06	4.59
##	417	10	0.12	4.71	0.12	4.71
##	418	15	0.19	4.90	0.19	4.90
##	419	14	0.17	5.07	0.17	5.07
##	420	17	0.21	5.28	0.21	5.28
##	421	12	0.15	5.43	0.15	5.43
##	422	20	0.25	5.68	0.25	5.68
##	423	31	0.39	6.07	0.39	6.07
##	424	13	0.16	6.23	0.16	6.23
##	425	19	0.24	6.47	0.24	6.47
##	426	12	0.15	6.62	0.15	6.62
##	427	15	0.19	6.81	0.19	6.81
##	428	11	0.14	6.94	0.14	6.94
##	429	7	0.09	7.03	0.09	7.03
##	430	16	0.20	7.23	0.20	7.23
##	431	31	0.39	7.62	0.39	7.62
##	432	19	0.24	7.85	0.24	7.85
##	433	14	0.17	8.03	0.17	8.03
##	434	25	0.31	8.34	0.31	8.34
##	435	15	0.19	8.53	0.19	8.53
##	436	17	0.21	8.74	0.21	8.74
##	437	24	0.30	9.04	0.30	9.04
##	438	22	0.27	9.31	0.27	9.31
##	439	18	0.22	9.54	0.22	9.54
##	440	21	0.26	9.80	0.26	9.80
##	441	39	0.49	10.28	0.49	10.28
##	442	25	0.31	10.59	0.31	10.59
##	443	19	0.24	10.83	0.24	10.83
##	444	28	0.35	11.18	0.35	11.18
##	445	17	0.21	11.39	0.21	11.39
##	446	9	0.11	11.50	0.11	11.50
##	447	21	0.26	11.77	0.26	11.77
##	448	18	0.22	11.99	0.22	11.99
##	449	32	0.40	12.39	0.40	12.39
##	450	39	0.49	12.88	0.49	12.88
##	451	19	0.24	13.11	0.24	13.11
##	452	26	0.32	13.44	0.32	13.44
##	453	20	0.25	13.69	0.25	13.69
##	454	23	0.29	13.97	0.29	13.97
##	455	32	0.40	14.37	0.40	14.37
##	456	23	0.29	14.66	0.29	14.66
##	457	35	0.44	15.09	0.44	15.09
##	458	26	0.32	15.42	0.32	15.42
##	459	22	0.27	15.69	0.27	15.69
##	460	41	0.51	16.20	0.51	16.20
##	461	29	0.36	16.56	0.36	16.56
##	462	31	0.39	16.95	0.39	16.95
##	463	20	0.25	17.20	0.25	17.20
##	464	34	0.42	17.62	0.42	17.62
##	465	26	0.32	17.95	0.32	17.95
##	466	41	0.51	18.46	0.51	18.46

##	467	39	0.49	18.95	0.49	18.95
##	468	31	0.39	19.33	0.39	19.33
##	469	17	0.21	19.54	0.21	19.54
##	470	39	0.49	20.03	0.49	20.03
##	471	31	0.39	20.42	0.39	20.42
##	472	41	0.51	20.93	0.51	20.93
##	473	27	0.34	21.26	0.34	21.26
##	474	41	0.51	21.77	0.51	21.77
##	475	30	0.37	22.15	0.37	22.15
##	476	31	0.39	22.54	0.39	22.54
##	477	40	0.50	23.03	0.50	23.03
##	478	34	0.42	23.46	0.42	23.46
##	479	25	0.31	23.77	0.31	23.77
##	480	42	0.52	24.29	0.52	24.29
##	481	25	0.31	24.60	0.31	24.60
##	482	22	0.27	24.88	0.27	24.88
##	483	25	0.31	25.19	0.31	25.19
##	484	29	0.36	25.55	0.36	25.55
##	485	34	0.42	25.98	0.42	25.98
##	486	29	0.36	26.34	0.36	26.34
##	487	30	0.37	26.71	0.37	26.71
##	488	41	0.51	27.22	0.51	27.22
##	489	34	0.42	27.65	0.42	27.65
##	490	46	0.57	28.22	0.57	28.22
##	491	38	0.47	28.69	0.47	28.69
##	492	29	0.36	29.05	0.36	29.05
##	493	33	0.41	29.47	0.41	29.47
##	494	41	0.51	29.98	0.51	29.98
##	495	37	0.46	30.44	0.46	30.44
##	496	30	0.37	30.81	0.37	30.81
##	497	32	0.40	31.21	0.40	31.21
##	498	27	0.34	31.55	0.34	31.55
##	499	31	0.39	31.93	0.39	31.93
##	500	59	0.74	32.67	0.74	32.67
##	501	46	0.57	33.24	0.57	33.24
##	502	41	0.51	33.75	0.51	33.75
##	503	37	0.46	34.21	0.46	34.21
##	504	28	0.35	34.56	0.35	34.56
##	505	45	0.56	35.12	0.56	35.12
##	506	47	0.59	35.71	0.59	35.71
##	507	35	0.44	36.15	0.44	36.15
##	508	47	0.59	36.73	0.59	36.73
##	509	48	0.60	37.33	0.60	37.33
##	510	44	0.55	37.88	0.55	37.88
##	511	32	0.40	38.28	0.40	38.28
##	512	41	0.51	38.79	0.51	38.79
##	513	22	0.27	39.06	0.27	39.06
##	514	32	0.40	39.46	0.40	39.46
##	515	29	0.36	39.82	0.36	39.82
##	516	23	0.29	40.11	0.29	40.11
##	517	46	0.57	40.68	0.57	40.68
##	518	31	0.39	41.07	0.39	41.07
##	519	39	0.49	41.56	0.49	41.56
##	520	56	0.70	42.25	0.70	42.25

##	521	36	0.45	42.70	0.45	42.70
##	522	44	0.55	43.25	0.55	43.25
##	523	44	0.55	43.80	0.55	43.80
##	524	55	0.69	44.48	0.69	44.48
##	525	32	0.40	44.88	0.40	44.88
##	526	26	0.32	45.21	0.32	45.21
##	527	33	0.41	45.62	0.41	45.62
##	528	39	0.49	46.10	0.49	46.10
##	529	46	0.57	46.68	0.57	46.68
##	530	41	0.51	47.19	0.51	47.19
##	531	39	0.49	47.68	0.49	47.68
##	532	31	0.39	48.06	0.39	48.06
##	533	37	0.46	48.52	0.46	48.52
##	534	38	0.47	49.00	0.47	49.00
##	535	38	0.47	49.47	0.47	49.47
##	536	50	0.62	50.09	0.62	50.09
##	537	41	0.51	50.60	0.51	50.60
##	538	44	0.55	51.15	0.55	51.15
##	539	52	0.65	51.80	0.65	51.80
##	540	37	0.46	52.26	0.46	52.26
##	541	35	0.44	52.70	0.44	52.70
##	542	34	0.42	53.12	0.42	53.12
##	543	37	0.46	53.58	0.46	53.58
##	544	42	0.52	54.11	0.52	54.11
##	545	45	0.56	54.67	0.56	54.67
##	546	22	0.27	54.94	0.27	54.94
##	547	39	0.49	55.43	0.49	55.43
##	548	37	0.46	55.89	0.46	55.89
##	549	27	0.34	56.23	0.34	56.23
##	550	36	0.45	56.67	0.45	56.67
##	551	42	0.52	57.20	0.52	57.20
##	552	31	0.39	57.58	0.39	57.58
##	553	39	0.49	58.07	0.49	58.07
##	554	35	0.44	58.51	0.44	58.51
##	555	38	0.47	58.98	0.47	58.98
##	556	34	0.42	59.40	0.42	59.40
##	557	31	0.39	59.79	0.39	59.79
##	558	23	0.29	60.08	0.29	60.08
##	559	24	0.30	60.38	0.30	60.38
##	560	36	0.45	60.83	0.45	60.83
##	561	29	0.36	61.19	0.36	61.19
##	562	35	0.44	61.62	0.44	61.62
##	563	37	0.46	62.08	0.46	62.08
##	564	24	0.30	62.38	0.30	62.38
##	565	20	0.25	62.63	0.25	62.63
##	566	14	0.17	62.81	0.17	62.81
##	567	25	0.31	63.12	0.31	63.12
##	568	28	0.35	63.47	0.35	63.47
##	569	16	0.20	63.67	0.20	63.67
##	570	37	0.46	64.13	0.46	64.13
##	571	35	0.44	64.56	0.44	64.56
##	572	26	0.32	64.89	0.32	64.89
##	573	15	0.19	65.08	0.19	65.08
##	574	36	0.45	65.52	0.45	65.52

##	575	22	0.27	65.80	0.27	65.80
##	576	40	0.50	66.30	0.50	66.30
##	577	21	0.26	66.56	0.26	66.56
##	578	27	0.34	66.90	0.34	66.90
##	579	30	0.37	67.27	0.37	67.27
##	580	26	0.32	67.59	0.32	67.59
##	581	39	0.49	68.08	0.49	68.08
##	582	28	0.35	68.43	0.35	68.43
##	583	38	0.47	68.90	0.47	68.90
##	584	24	0.30	69.20	0.30	69.20
##	585	29	0.36	69.56	0.36	69.56
##	586	36	0.45	70.01	0.45	70.01
##	587	23	0.29	70.30	0.29	70.30
##	588	27	0.34	70.63	0.34	70.63
##	589	28	0.35	70.98	0.35	70.98
##	590	21	0.26	71.25	0.26	71.25
##	591	39	0.49	71.73	0.49	71.73
##	592	43	0.54	72.27	0.54	72.27
##	593	32	0.40	72.67	0.40	72.67
##	594	19	0.24	72.90	0.24	72.90
##	595	24	0.30	73.20	0.30	73.20
##	596	23	0.29	73.49	0.29	73.49
##	597	30	0.37	73.86	0.37	73.86
##	598	21	0.26	74.12	0.26	74.12
##	599	34	0.42	74.55	0.42	74.55
##	600	40	0.50	75.05	0.50	75.05
##	601	20	0.25	75.30	0.25	75.30
##	602	18	0.22	75.52	0.22	75.52
##	603	28	0.35	75.87	0.35	75.87
##	604	24	0.30	76.17	0.30	76.17
##	605	25	0.31	76.48	0.31	76.48
##	606	25	0.31	76.79	0.31	76.79
##	607	15	0.19	76.98	0.19	76.98
##	608	18	0.22	77.20	0.22	77.20
##	609	9	0.11	77.32	0.11	77.32
##	610	26	0.32	77.64	0.32	77.64
##	611	26	0.32	77.96	0.32	77.96
##	612	21	0.26	78.23	0.26	78.23
##	613	8	0.10	78.32	0.10	78.32
##	614	15	0.19	78.51	0.19	78.51
##	615	17	0.21	78.72	0.21	78.72
##	616	13	0.16	78.89	0.16	78.89
##	617	11	0.14	79.02	0.14	79.02
##	618	23	0.29	79.31	0.29	79.31
##	619	23	0.29	79.60	0.29	79.60
##	620	19	0.24	79.83	0.24	79.83
##	621	11	0.14	79.97	0.14	79.97
##	622	25	0.31	80.28	0.31	80.28
##	623	15	0.19	80.47	0.19	80.47
##	624	20	0.25	80.72	0.25	80.72
##	625	20	0.25	80.97	0.25	80.97
##	626	6	0.07	81.04	0.07	81.04
##	627	10	0.12	81.17	0.12	81.17
##	628	9	0.11	81.28	0.11	81.28

##	629	15	0.19	81.47	0.19	81.47
##	630	19	0.24	81.70	0.24	81.70
##	631	34	0.42	82.13	0.42	82.13
##	632	17	0.21	82.34	0.21	82.34
##	633	17	0.21	82.55	0.21	82.55
##	634	19	0.24	82.79	0.24	82.79
##	635	23	0.29	83.07	0.29	83.07
##	636	14	0.17	83.25	0.17	83.25
##	637	16	0.20	83.45	0.20	83.45
##	638	9	0.11	83.56	0.11	83.56
##	639	12	0.15	83.71	0.15	83.71
##	640	13	0.16	83.87	0.16	83.87
##	641	4	0.05	83.92	0.05	83.92
##	642	10	0.12	84.05	0.12	84.05
##	643	6	0.07	84.12	0.07	84.12
##	644	10	0.12	84.25	0.12	84.25
##	645	8	0.10	84.35	0.10	84.35
##	646	16	0.20	84.54	0.20	84.54
##	647	14	0.17	84.72	0.17	84.72
##	648	18	0.22	84.94	0.22	84.94
##	649	11	0.14	85.08	0.14	85.08
##	650	14	0.17	85.25	0.17	85.25
##	651	16	0.20	85.45	0.20	85.45
##	652	13	0.16	85.62	0.16	85.62
##	653	10	0.12	85.74	0.12	85.74
##	654	16	0.20	85.94	0.20	85.94
##	655	9	0.11	86.05	0.11	86.05
##	656	6	0.07	86.13	0.07	86.13
##	657	13	0.16	86.29	0.16	86.29
##	658	14	0.17	86.46	0.17	86.46
##	659	11	0.14	86.60	0.14	86.60
##	660	8	0.10	86.70	0.10	86.70
##	661	9	0.11	86.81	0.11	86.81
##	662	13	0.16	86.97	0.16	86.97
##	663	13	0.16	87.14	0.16	87.14
##	664	13	0.16	87.30	0.16	87.30
##	665	3	0.04	87.34	0.04	87.34
##	666	13	0.16	87.50	0.16	87.50
##	667	6	0.07	87.57	0.07	87.57
##	668	17	0.21	87.79	0.21	87.79
##	669	8	0.10	87.88	0.10	87.88
##	670	12	0.15	88.03	0.15	88.03
##	671	12	0.15	88.18	0.15	88.18
##	672	7	0.09	88.27	0.09	88.27
##	673	14	0.17	88.45	0.17	88.45
##	674	11	0.14	88.58	0.14	88.58
##	675	1	0.01	88.60	0.01	88.60
##	676	8	0.10	88.70	0.10	88.70
##	677	11	0.14	88.83	0.14	88.83
##	678	11	0.14	88.97	0.14	88.97
##	679	13	0.16	89.13	0.16	89.13
##	680	11	0.14	89.27	0.14	89.27
##	681	5	0.06	89.33	0.06	89.33
##	682	15	0.19	89.52	0.19	89.52

##	683	8	0.10	89.62	0.10	89.62
##	684	9	0.11	89.73	0.11	89.73
##	685	9	0.11	89.84	0.11	89.84
##	686	4	0.05	89.89	0.05	89.89
##	687	7	0.09	89.98	0.09	89.98
##	688	9	0.11	90.09	0.11	90.09
##	689	7	0.09	90.18	0.09	90.18
##	690	17	0.21	90.39	0.21	90.39
##	691	19	0.24	90.63	0.24	90.63
##	692	4	0.05	90.68	0.05	90.68
##	693	8	0.10	90.78	0.10	90.78
##	694	5	0.06	90.84	0.06	90.84
##	695	8	0.10	90.94	0.10	90.94
##	696	7	0.09	91.03	0.09	91.03
##	697	6	0.07	91.10	0.07	91.10
##	698	10	0.12	91.23	0.12	91.23
##	699	11	0.14	91.36	0.14	91.36
##	700	20	0.25	91.61	0.25	91.61
##	701	8	0.10	91.71	0.10	91.71
##	702	5	0.06	91.77	0.06	91.77
##	703	2	0.02	91.80	0.02	91.80
##	704	10	0.12	91.92	0.12	91.92
##	705	7	0.09	92.01	0.09	92.01
##	706	1	0.01	92.02	0.01	92.02
##	707	1	0.01	92.04	0.01	92.04
##	708	6	0.07	92.11	0.07	92.11
##	709	3	0.04	92.15	0.04	92.15
##	710	6	0.07	92.22	0.07	92.22
##	711	12	0.15	92.37	0.15	92.37
##	712	9	0.11	92.48	0.11	92.48
##	713	5	0.06	92.55	0.06	92.55
##	714	6	0.07	92.62	0.07	92.62
##	715	8	0.10	92.72	0.10	92.72
##	716	13	0.16	92.88	0.16	92.88
##	717	4	0.05	92.93	0.05	92.93
##	718	5	0.06	93.00	0.06	93.00
##	720	2	0.02	93.02	0.02	93.02
##	721	4	0.05	93.07	0.05	93.07
##	722	3	0.04	93.11	0.04	93.11
##	723	7	0.09	93.19	0.09	93.19
##	724	4	0.05	93.24	0.05	93.24
##	725	7	0.09	93.33	0.09	93.33
##	726	3	0.04	93.37	0.04	93.37
##	727	4	0.05	93.42	0.05	93.42
##	728	1	0.01	93.43	0.01	93.43
##	729	3	0.04	93.47	0.04	93.47
##	730	2	0.02	93.49	0.02	93.49
##	731	2	0.02	93.52	0.02	93.52
##	732	1	0.01	93.53	0.01	93.53
##	733	3	0.04	93.57	0.04	93.57
##	734	4	0.05	93.62	0.05	93.62
##	735	2	0.02	93.64	0.02	93.64
##	736	12	0.15	93.79	0.15	93.79
##	737	11	0.14	93.93	0.14	93.93

##	738	3	0.04	93.97	0.04	93.97
##	739	11	0.14	94.10	0.14	94.10
##	740	2	0.02	94.13	0.02	94.13
##	741	7	0.09	94.22	0.09	94.22
##	742	1	0.01	94.23	0.01	94.23
##	743	3	0.04	94.27	0.04	94.27
##	744	8	0.10	94.37	0.10	94.37
##	745	2	0.02	94.39	0.02	94.39
##	746	9	0.11	94.50	0.11	94.50
##	747	4	0.05	94.55	0.05	94.55
##	748	2	0.02	94.58	0.02	94.58
##	749	1	0.01	94.59	0.01	94.59
##	750	3	0.04	94.63	0.04	94.63
##	751	2	0.02	94.65	0.02	94.65
##	752	4	0.05	94.70	0.05	94.70
##	753	3	0.04	94.74	0.04	94.74
##	754	2	0.02	94.77	0.02	94.77
##	755	4	0.05	94.81	0.05	94.81
##	756	4	0.05	94.86	0.05	94.86
##	757	4	0.05	94.91	0.05	94.91
##	758	3	0.04	94.95	0.04	94.95
##	759	6	0.07	95.03	0.07	95.03
##	760	4	0.05	95.08	0.05	95.08
##	761	1	0.01	95.09	0.01	95.09
##	762	4	0.05	95.14	0.05	95.14
##	763	8	0.10	95.24	0.10	95.24
##	764	2	0.02	95.26	0.02	95.26
##	765	1	0.01	95.28	0.01	95.28
##	766	6	0.07	95.35	0.07	95.35
##	767	2	0.02	95.38	0.02	95.38
##	770	2	0.02	95.40	0.02	95.40
##	771	2	0.02	95.43	0.02	95.43
##	773	2	0.02	95.45	0.02	95.45
##	774	4	0.05	95.50	0.05	95.50
##	775	5	0.06	95.56	0.06	95.56
##	776	3	0.04	95.60	0.04	95.60
##	777	2	0.02	95.63	0.02	95.63
##	778	5	0.06	95.69	0.06	95.69
##	779	3	0.04	95.72	0.04	95.72
##	780	5	0.06	95.79	0.06	95.79
##	781	5	0.06	95.85	0.06	95.85
##	782	4	0.05	95.90	0.05	95.90
##	784	3	0.04	95.94	0.04	95.94
##	785	4	0.05	95.99	0.05	95.99
##	786	3	0.04	96.02	0.04	96.02
##	787	4	0.05	96.07	0.05	96.07
##	788	6	0.07	96.15	0.07	96.15
##	789	6	0.07	96.22	0.07	96.22
##	790	1	0.01	96.24	0.01	96.24
##	791	3	0.04	96.27	0.04	96.27
##	792	2	0.02	96.30	0.02	96.30
##	793	2	0.02	96.32	0.02	96.32
##	794	3	0.04	96.36	0.04	96.36
##	795	2	0.02	96.39	0.02	96.39

##	796	4	0.05	96.44	0.05	96.44
##	798	1	0.01	96.45	0.01	96.45
##	799	2	0.02	96.47	0.02	96.47
##	800	7	0.09	96.56	0.09	96.56
##	801	3	0.04	96.60	0.04	96.60
##	802	2	0.02	96.62	0.02	96.62
##	803	3	0.04	96.66	0.04	96.66
##	804	5	0.06	96.72	0.06	96.72
##	805	4	0.05	96.77	0.05	96.77
##	806	2	0.02	96.80	0.02	96.80
##	807	2	0.02	96.82	0.02	96.82
##	808	3	0.04	96.86	0.04	96.86
##	809	3	0.04	96.90	0.04	96.90
##	810	3	0.04	96.93	0.04	96.93
##	811	3	0.04	96.97	0.04	96.97
##	812	2	0.02	97.00	0.02	97.00
##	813	2	0.02	97.02	0.02	97.02
##	814	2	0.02	97.05	0.02	97.05
##	817	7	0.09	97.13	0.09	97.13
##	818	2	0.02	97.16	0.02	97.16
##	820	1	0.01	97.17	0.01	97.17
##	821	3	0.04	97.21	0.04	97.21
##	822	2	0.02	97.23	0.02	97.23
##	823	2	0.02	97.26	0.02	97.26
##	824	1	0.01	97.27	0.01	97.27
##	827	2	0.02	97.30	0.02	97.30
##	829	1	0.01	97.31	0.01	97.31
##	830	1	0.01	97.32	0.01	97.32
##	831	3	0.04	97.36	0.04	97.36
##	832	1	0.01	97.37	0.01	97.37
##	833	4	0.05	97.42	0.05	97.42
##	834	3	0.04	97.46	0.04	97.46
##	836	1	0.01	97.47	0.01	97.47
##	837	5	0.06	97.53	0.06	97.53
##	839	1	0.01	97.54	0.01	97.54
##	840	1	0.01	97.56	0.01	97.56
##	841	2	0.02	97.58	0.02	97.58
##	842	2	0.02	97.61	0.02	97.61
##	844	2	0.02	97.63	0.02	97.63
##	845	1	0.01	97.64	0.01	97.64
##	846	3	0.04	97.68	0.04	97.68
##	848	5	0.06	97.74	0.06	97.74
##	849	1	0.01	97.76	0.01	97.76
##	850	1	0.01	97.77	0.01	97.77
##	852	2	0.02	97.79	0.02	97.79
##	853	2	0.02	97.82	0.02	97.82
##	854	1	0.01	97.83	0.01	97.83
##	856	1	0.01	97.84	0.01	97.84
##	857	3	0.04	97.88	0.04	97.88
##	858	2	0.02	97.91	0.02	97.91
##	860	2	0.02	97.93	0.02	97.93
##	861	2	0.02	97.96	0.02	97.96
##	865	2	0.02	97.98	0.02	97.98
##	867	4	0.05	98.03	0.05	98.03

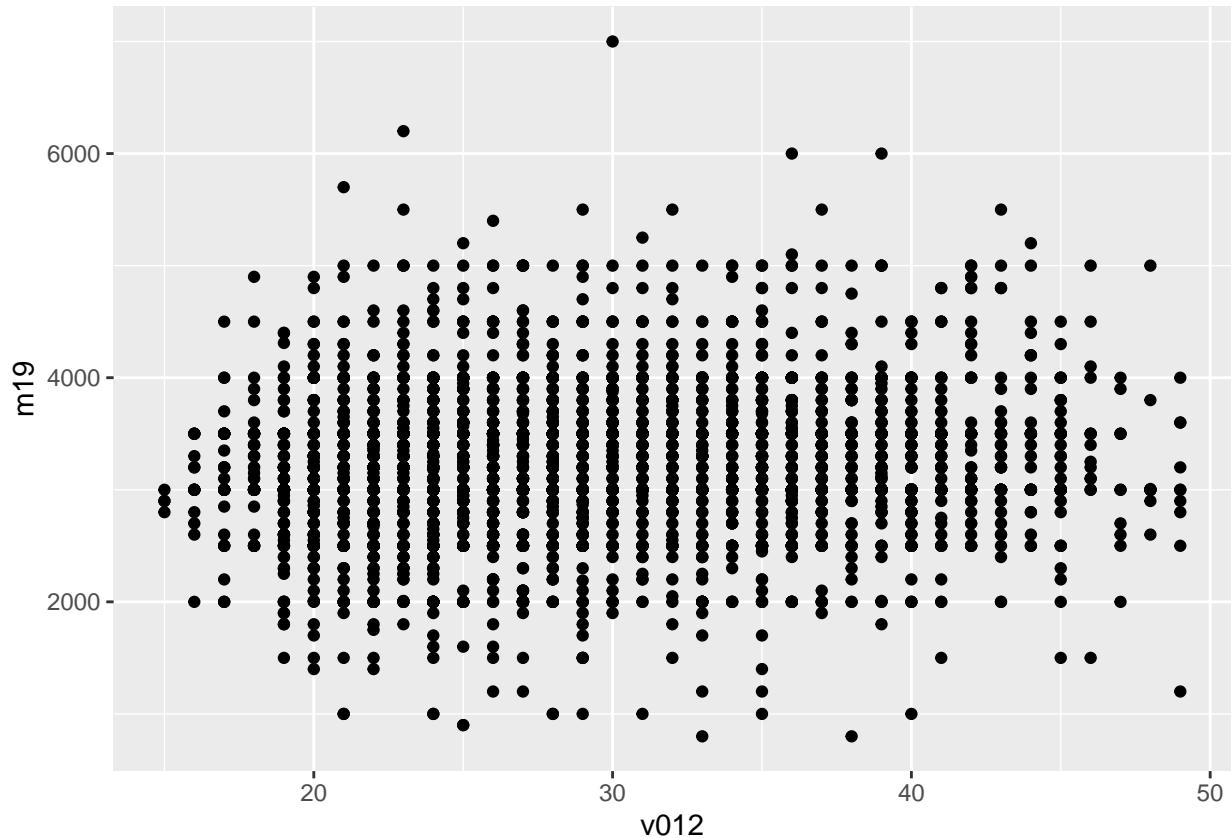
##	872	2	0.02	98.06	0.02	98.06
##	873	1	0.01	98.07	0.01	98.07
##	874	2	0.02	98.09	0.02	98.09
##	875	4	0.05	98.14	0.05	98.14
##	880	3	0.04	98.18	0.04	98.18
##	883	3	0.04	98.22	0.04	98.22
##	885	1	0.01	98.23	0.01	98.23
##	886	4	0.05	98.28	0.05	98.28
##	887	1	0.01	98.29	0.01	98.29
##	888	4	0.05	98.34	0.05	98.34
##	889	1	0.01	98.35	0.01	98.35
##	891	1	0.01	98.37	0.01	98.37
##	894	1	0.01	98.38	0.01	98.38
##	898	1	0.01	98.39	0.01	98.39
##	905	2	0.02	98.42	0.02	98.42
##	906	1	0.01	98.43	0.01	98.43
##	908	2	0.02	98.45	0.02	98.45
##	909	2	0.02	98.48	0.02	98.48
##	910	2	0.02	98.50	0.02	98.50
##	916	2	0.02	98.53	0.02	98.53
##	918	2	0.02	98.55	0.02	98.55
##	922	1	0.01	98.57	0.01	98.57
##	923	1	0.01	98.58	0.01	98.58
##	924	1	0.01	98.59	0.01	98.59
##	926	1	0.01	98.60	0.01	98.60
##	930	3	0.04	98.64	0.04	98.64
##	932	3	0.04	98.68	0.04	98.68
##	940	4	0.05	98.73	0.05	98.73
##	941	1	0.01	98.74	0.01	98.74
##	946	1	0.01	98.75	0.01	98.75
##	948	2	0.02	98.78	0.02	98.78
##	950	1	0.01	98.79	0.01	98.79
##	953	1	0.01	98.80	0.01	98.80
##	954	1	0.01	98.82	0.01	98.82
##	955	1	0.01	98.83	0.01	98.83
##	970	2	0.02	98.85	0.02	98.85
##	972	1	0.01	98.87	0.01	98.87
##	973	1	0.01	98.88	0.01	98.88
##	975	1	0.01	98.89	0.01	98.89
##	981	1	0.01	98.90	0.01	98.90
##	982	1	0.01	98.92	0.01	98.92
##	990	1	0.01	98.93	0.01	98.93
##	992	1	0.01	98.94	0.01	98.94
##	999	2	0.02	98.97	0.02	98.97
##	1001	1	0.01	98.98	0.01	98.98
##	1009	2	0.02	99.00	0.02	99.00
##	1014	1	0.01	99.02	0.01	99.02
##	1020	1	0.01	99.03	0.01	99.03
##	1030	2	0.02	99.05	0.02	99.05
##	1040	1	0.01	99.07	0.01	99.07
##	1042	1	0.01	99.08	0.01	99.08
##	1047	1	0.01	99.09	0.01	99.09
##	1068	2	0.02	99.12	0.02	99.12
##	1069	1	0.01	99.13	0.01	99.13

##	1091	2	0.02	99.15	0.02	99.15
##	1096	1	0.01	99.16	0.01	99.16
##	1109	1	0.01	99.18	0.01	99.18
##	1133	2	0.02	99.20	0.02	99.20
##	1139	2	0.02	99.23	0.02	99.23
##	1416	1	0.01	99.24	0.01	99.24
##	1461	1	0.01	99.25	0.01	99.25
##	9999	60	0.75	100.00	0.75	100.00
##	<NA>	0		0.00	100.00	
##	Total	8023	100.00	100.00	100.00	100.00

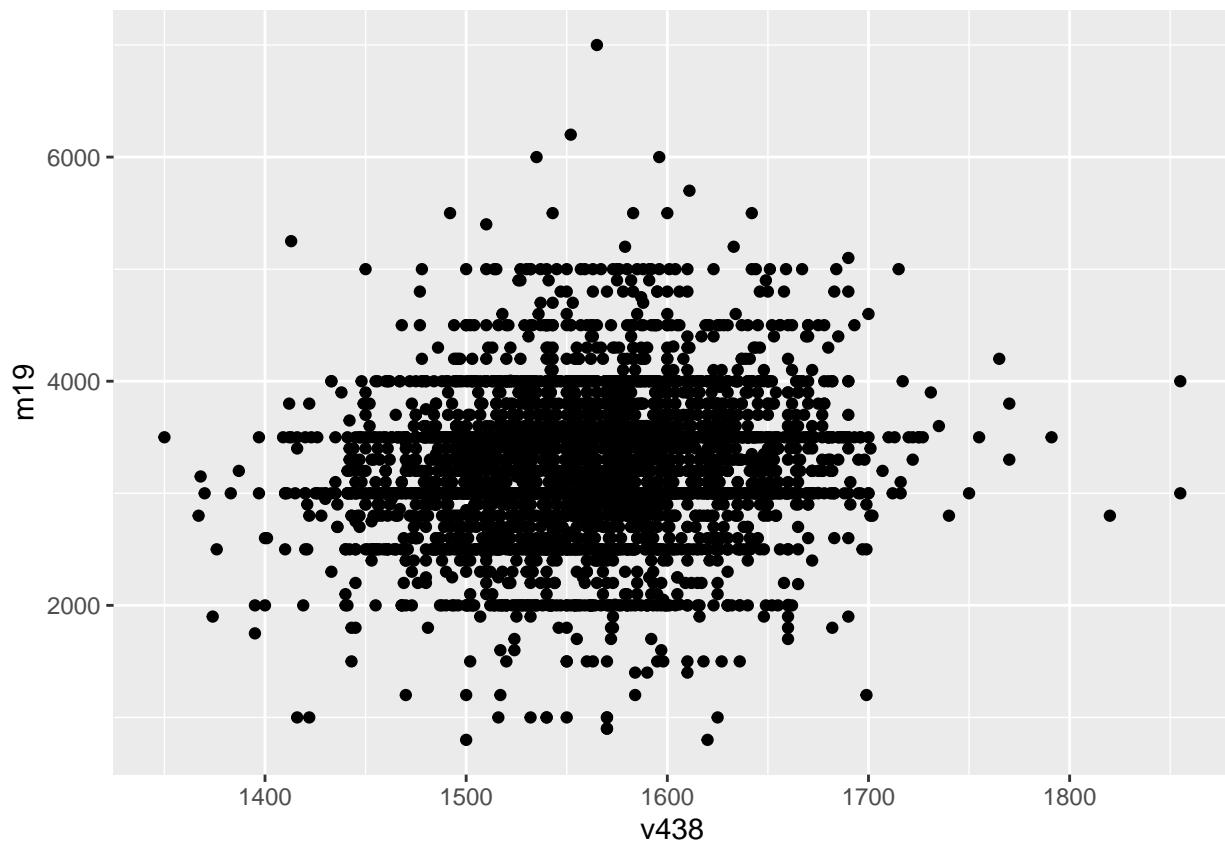
Visualisation

```
poids1 <-
  tanzania_child %>%
  filter(m19 <= 7500 & v438 < 5000 & v437 <=5000)

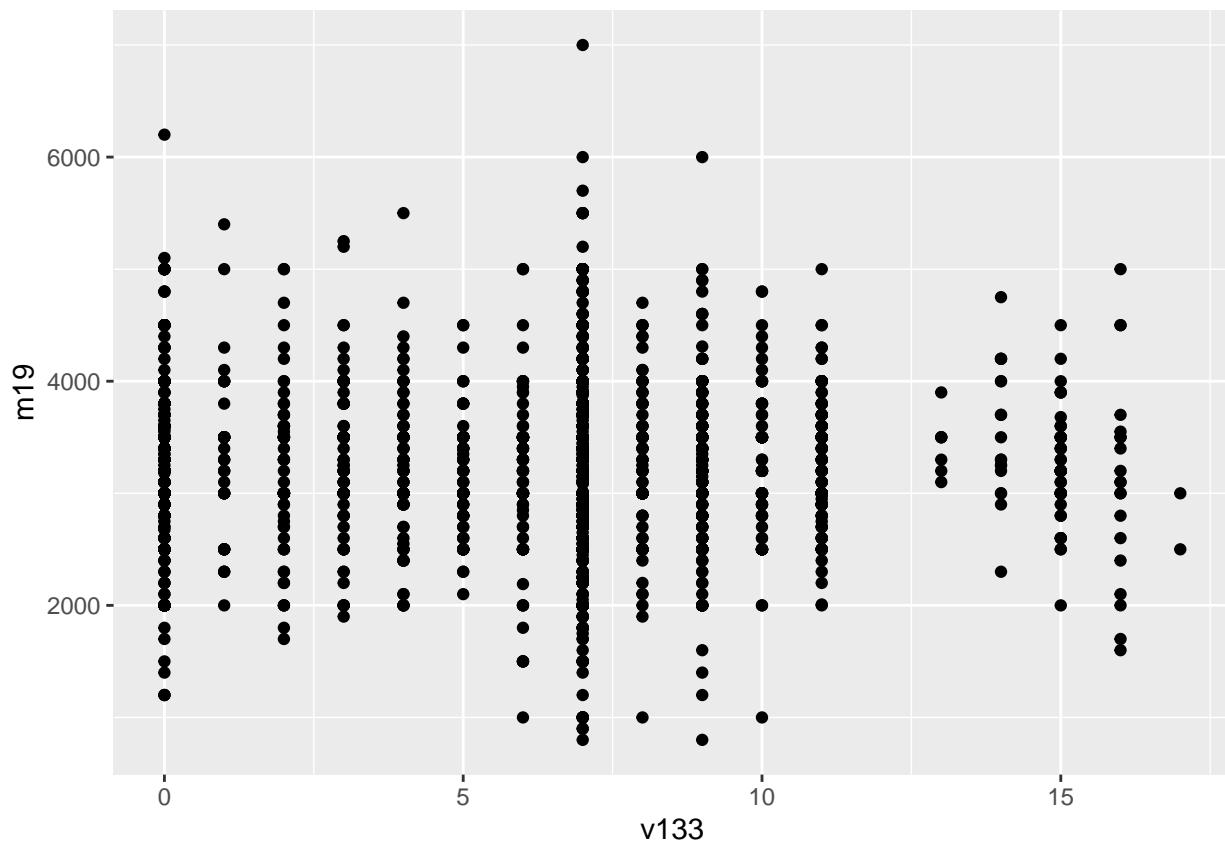
ggplot(poids1) +
  geom_point(aes(x = v012, y = m19))
```



```
ggplot(poids1) +
  geom_point(aes(x = v438, y = m19))
```

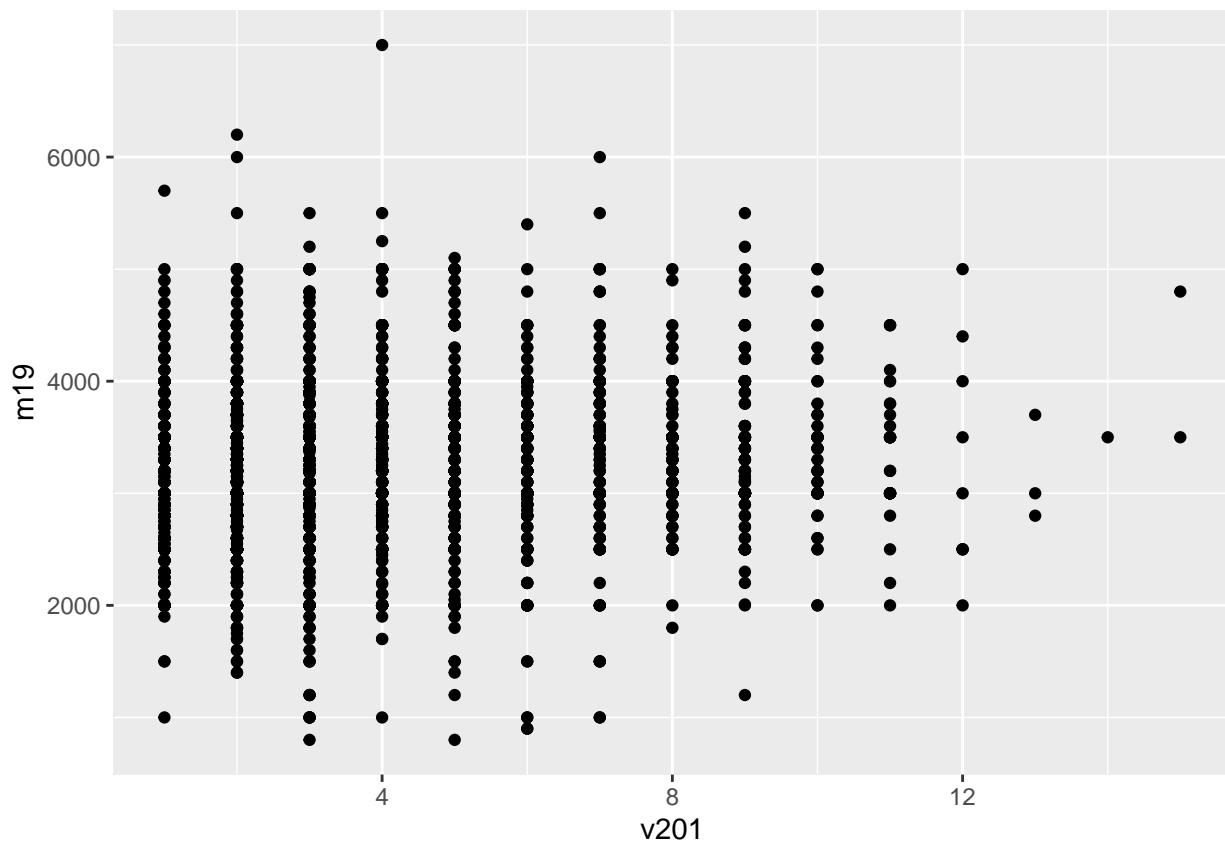


```
ggplot(poids1) +
  geom_point(aes(x = v133, y = m19))
```

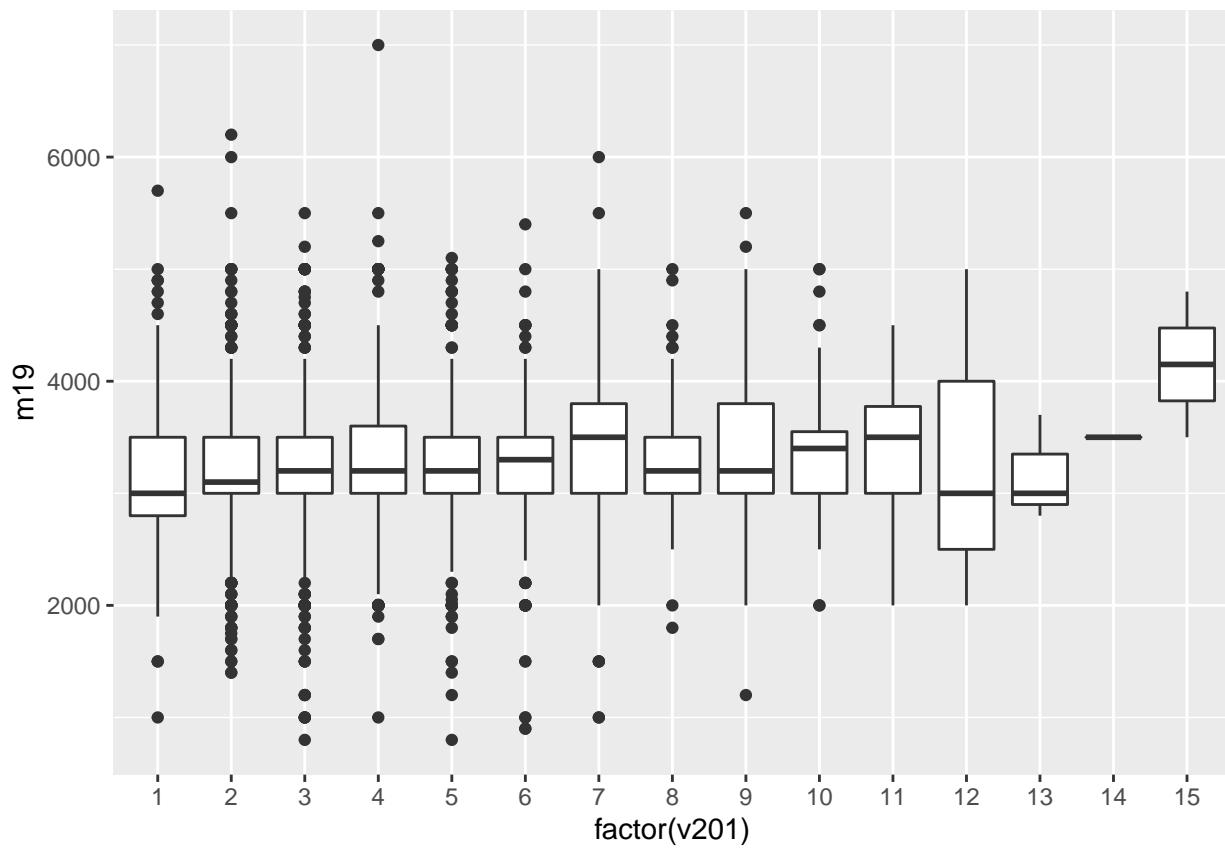


```
# Poids moyen
```

```
ggplot(poids1) +
  geom_point(aes(x = v201, y = m19))
```

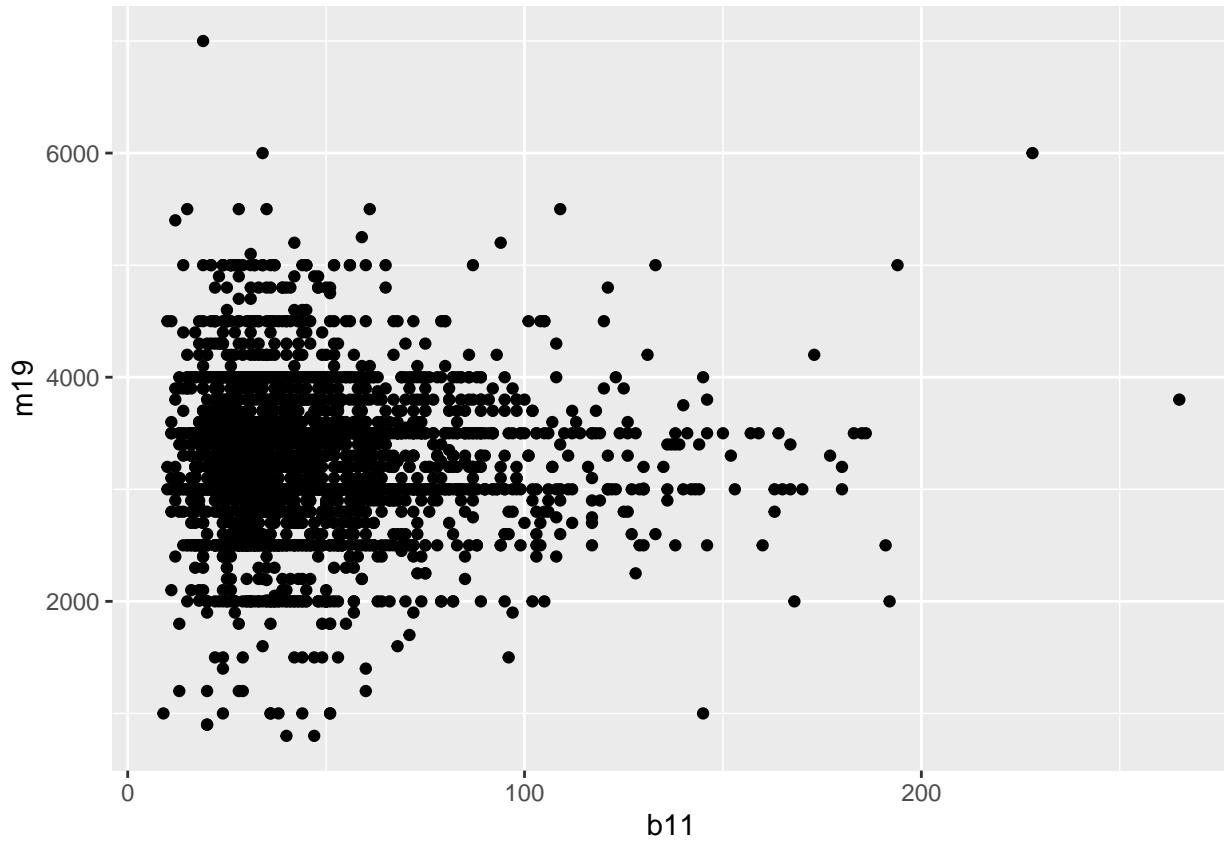


```
ggplot(poids1) +
  geom_boxplot(aes(x = factor(v201), y = m19))
```



```
ggplot(poids1) +
  geom_point(aes(x = b11, y = m19))

## Warning: Removed 1063 rows containing missing values (geom_point).
```



Scatterplot matrix

<https://ggobi.github.io/ggally/rd.html#ggmatrix>

```
poids_short <-
  poids1 %>%
  select(m19, v012, v438, v437, v133, v201, b11)

#install.packages("GGally")
library(GGally)

## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg   ggplot2
ggpairs(poids_short)

## Warning in (function (data, mapping, alignPercent = 0.6, method = "pearson", :
## Removed 1063 rows containing missing values
## Warning in (function (data, mapping, alignPercent = 0.6, method = "pearson", :
## Removed 1063 rows containing missing values
## Warning in (function (data, mapping, alignPercent = 0.6, method = "pearson", :
## Removed 1063 rows containing missing values
## Warning in (function (data, mapping, alignPercent = 0.6, method = "pearson", :
## Removed 1063 rows containing missing values
```

```

## Warning in (function (data, mapping, alignPercent = 0.6, method = "pearson", :
## Removed 1063 rows containing missing values

## Warning in (function (data, mapping, alignPercent = 0.6, method = "pearson", :
## Removed 1063 rows containing missing values

## Warning: Removed 1063 rows containing missing values (geom_point).

## Warning: Removed 1063 rows containing missing values (geom_point).

## Warning: Removed 1063 rows containing missing values (geom_point).

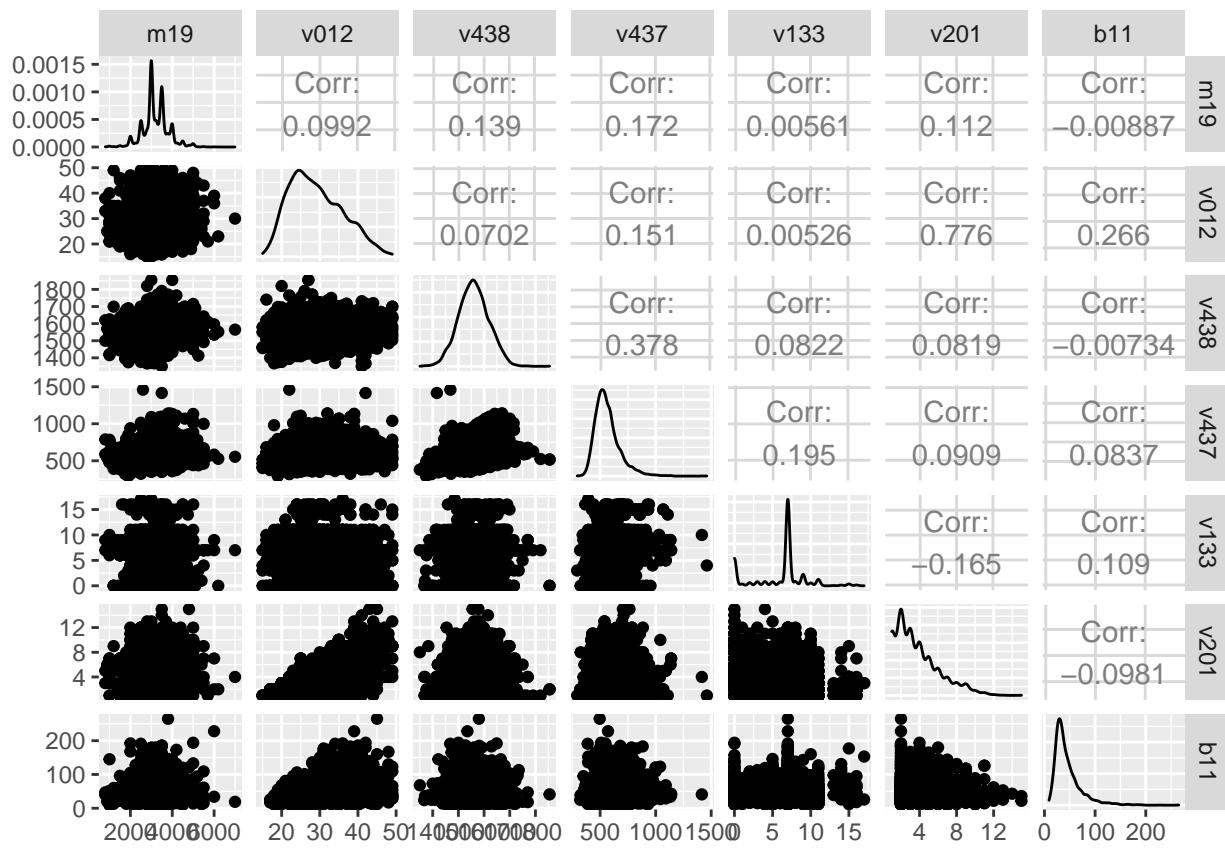
## Warning: Removed 1063 rows containing missing values (geom_point).

## Warning: Removed 1063 rows containing missing values (geom_point).

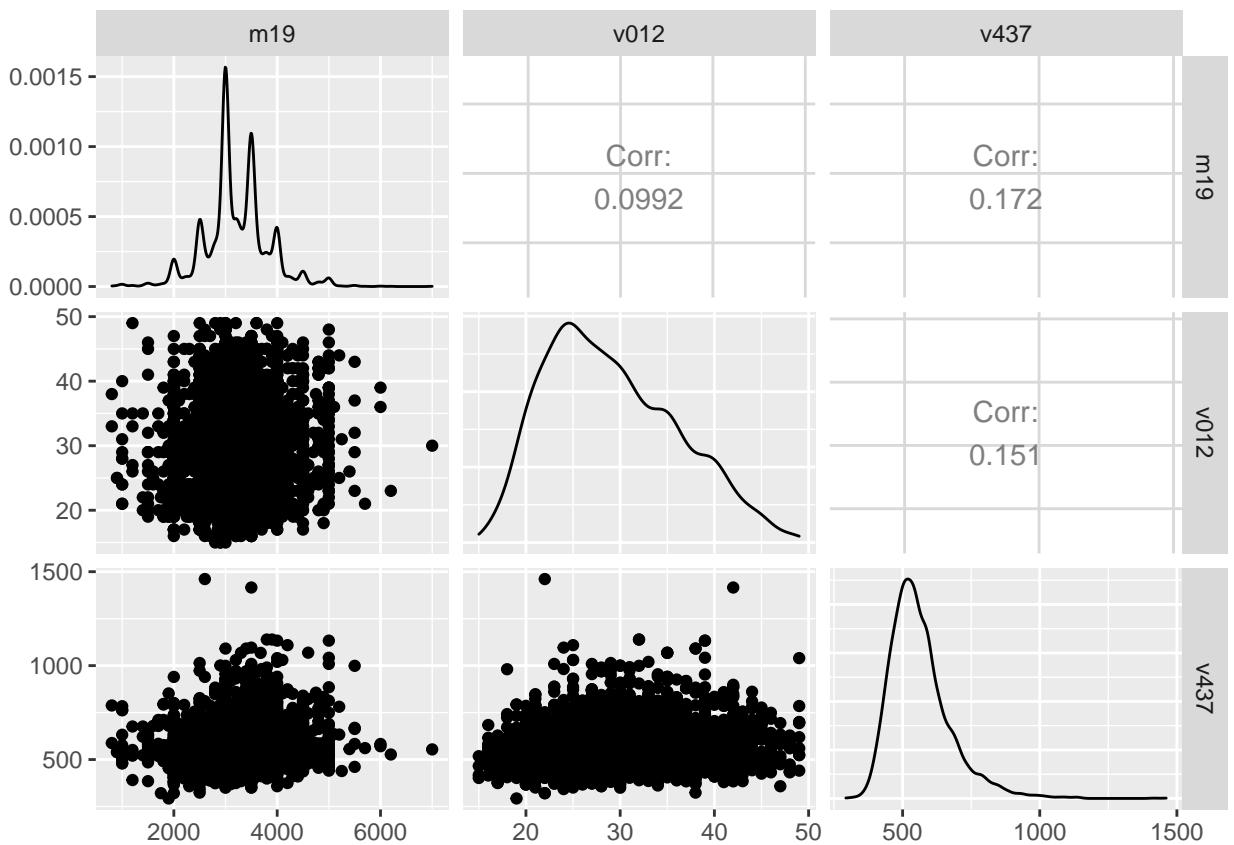
## Warning: Removed 1063 rows containing missing values (geom_point).

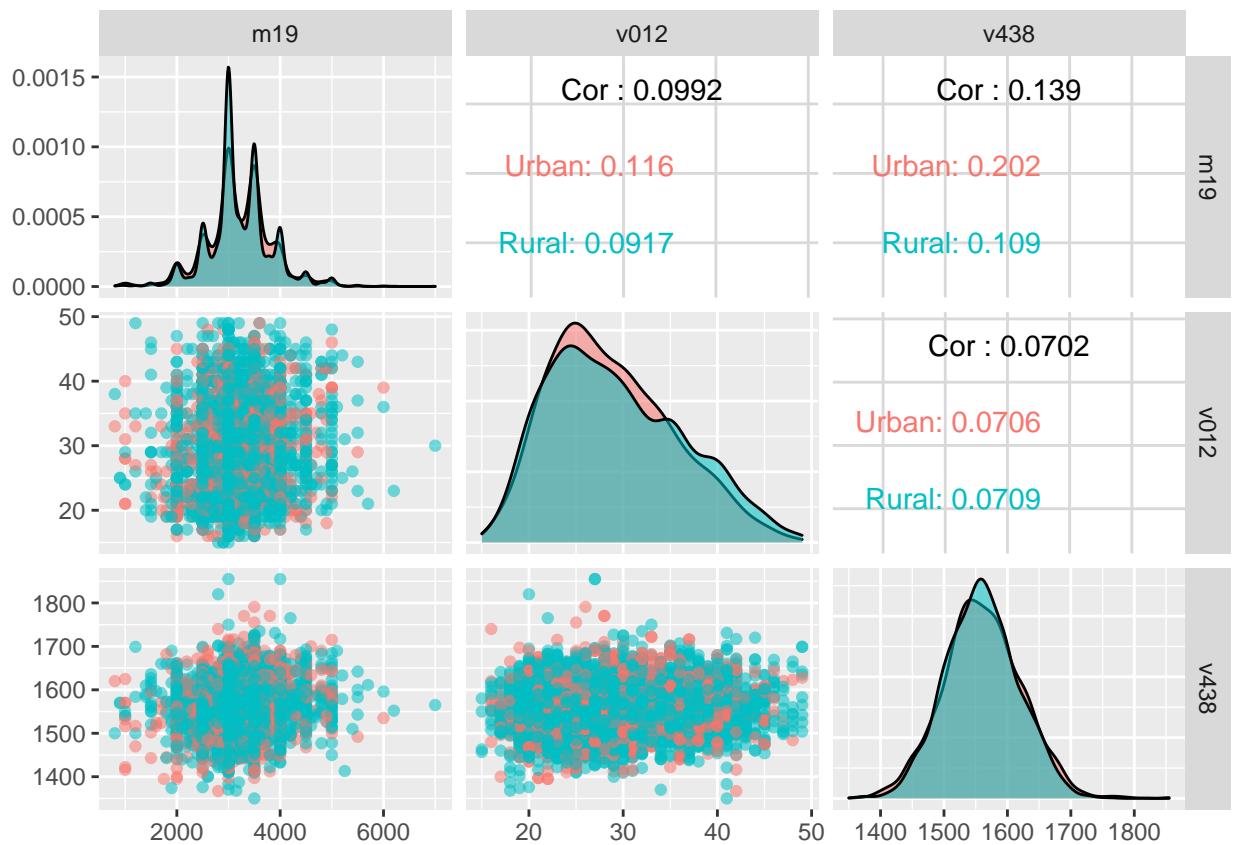
## Warning: Removed 1063 rows containing non-finite values (stat_density).

```



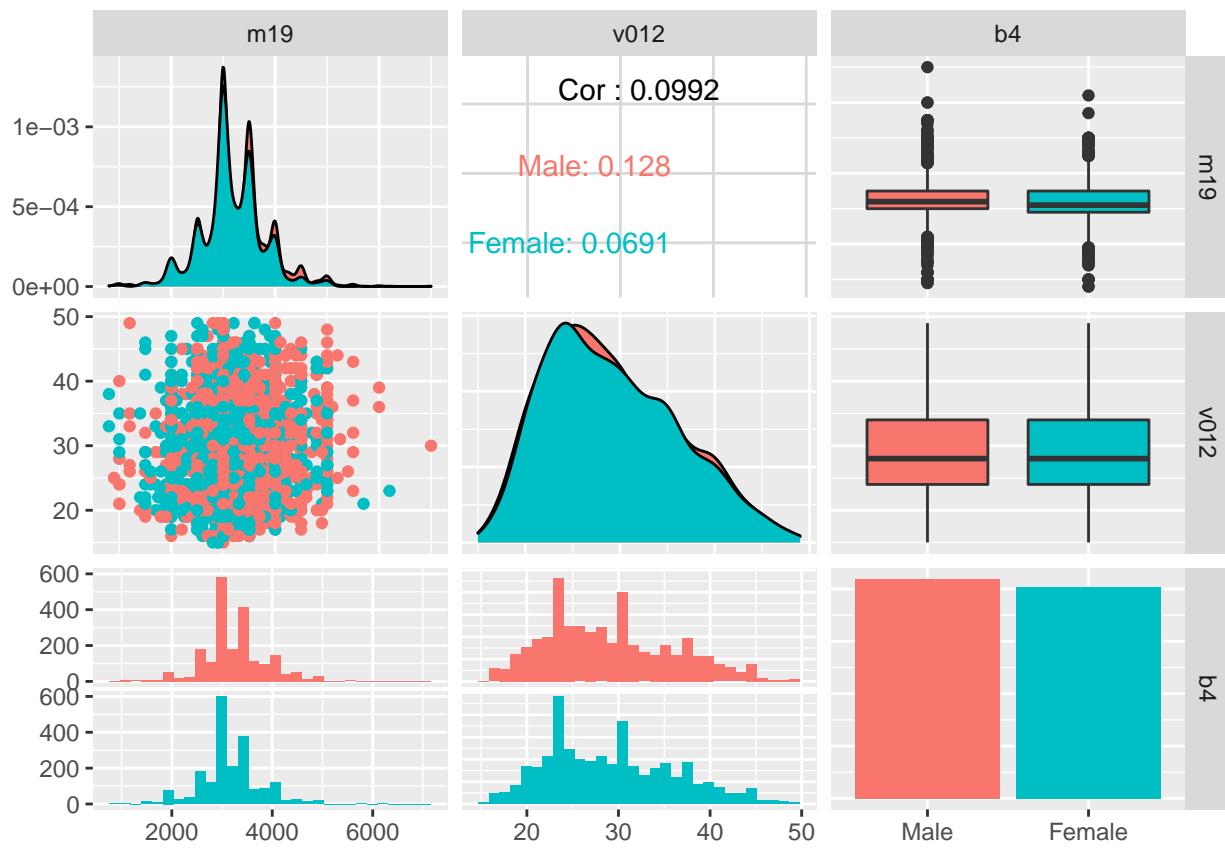
```
ggpairs(poids1, columns = c("m19", "v012", "v437"))
```





```
ggpairs(poids1, columns = c("m19", "v012", "b4"), aes(col = b4))
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



Estimation du modèle

Régression simples

<https://cran.r-project.org/web/packages/stargazer/vignettes/stargazer.pdf>

```
library(stargazer)
```

```
##
## Please cite as:
##
## Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary Statistics Tables.
## R package version 5.2.2. https://CRAN.R-project.org/package=stargazer
reg1 <- lm(m19 ~ v012, data = poids1)
reg1

##
## Call:
## lm(formula = m19 ~ v012, data = poids1)
##
## Coefficients:
## (Intercept)      v012
##       2955.445     8.787
summary(reg1)

##
```

```

## Call:
## lm(formula = m19 ~ v012, data = poids1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2489.3  -298.1   -80.6   324.9  3780.9
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 2955.445     41.215   71.71 < 2e-16 ***
## v012         8.787      1.375    6.39 1.84e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 614.5 on 4111 degrees of freedom
## Multiple R-squared:  0.009835, Adjusted R-squared:  0.009594
## F-statistic: 40.83 on 1 and 4111 DF, p-value: 1.842e-10
reg2 <- lm(m19 ~ v438, data = poids1)
summary(reg2)

##
## Call:
## lm(formula = m19 ~ v438, data = poids1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2499.0  -304.8   -61.3   333.1  3781.2
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 936.255    252.902   3.702 0.000217 ***
## v438        1.458     0.162    9.003 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 611.5 on 4111 degrees of freedom
## Multiple R-squared:  0.01934, Adjusted R-squared:  0.0191
## F-statistic: 81.06 on 1 and 4111 DF, p-value: < 2.2e-16
reg3 <- lm(m19 ~ v133, data = poids1)
summary(reg3)

##
## Call:
## lm(formula = m19 ~ v133, data = poids1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2414.7  -216.8  -105.5   289.4  3787.3
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 3205.452     19.619   163.38 <2e-16 ***
## v133        1.029      2.861    0.36    0.719

```

```

## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 617.5 on 4111 degrees of freedom
## Multiple R-squared: 3.146e-05, Adjusted R-squared: -0.0002118
## F-statistic: 0.1293 on 1 and 4111 DF, p-value: 0.7191
reg4 <- lm(m19 ~ v201, data = poids1)
summary(reg4)

##
## Call:
## lm(formula = m19 ~ v201, data = poids1)
##
## Residuals:
##    Min     1Q   Median     3Q    Max
## -2449.4 -307.5   -77.2   337.8 3779.7
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 3104.051    17.710 175.271 < 2e-16 ***
## v201        29.065     4.028   7.217 6.31e-13 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 613.6 on 4111 degrees of freedom
## Multiple R-squared: 0.01251, Adjusted R-squared: 0.01227
## F-statistic: 52.08 on 1 and 4111 DF, p-value: 6.315e-13
reg5 <- lm(m19 ~ b11, data = poids1)
summary(reg5)

##
## Call:
## lm(formula = m19 ~ b11, data = poids1)
##
## Residuals:
##    Min     1Q   Median     3Q    Max
## -2462.9 -265.8   -62.9   246.7 3732.7
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 3271.2086   22.2284 147.16 <2e-16 ***
## b11        -0.2079    0.4243  -0.49   0.624
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 622.9 on 3048 degrees of freedom
## (1063 observations deleted due to missingness)
## Multiple R-squared: 7.871e-05, Adjusted R-squared: -0.0002493
## F-statistic: 0.2399 on 1 and 3048 DF, p-value: 0.6243
stargazer(reg1, reg2, reg3, reg4, reg5, title = "Divers modèles", align = TRUE, type = "text")

##
## Divers modèles

```

```

## -----
##                                         Dependent variable:
## -----
##                                     (1)                      (2)                      (3)
## -----
## v012                         8.787***          (1.375)
## v438                         1.458***          (0.162)
## v133                         1.029          (2.861)
## v201                         29             (4)
## b11
## Constant                     2,955.445***      (41.215)                 936.255***      (252.902)                 3,205.452***      (19.619)
## Observations                  4,113                     4,113                     4,113
## R2                           0.010                     0.019                     0.00003
## Adjusted R2                  0.010                     0.019                     -0.0002
## Residual Std. Error          614.466 (df = 4111)       611.510 (df = 4111)       617.500 (df = 4111)       613.635 (df = 4111)
## F Statistic                  40.834*** (df = 1; 4111) 81.060*** (df = 1; 4111) 0.129 (df = 1; 4111) 52.080*** (df = 1; 4111)
## -----
## Note:

```

Régression multiple

Semblable dans le cours

```

freq(poids1$v012)

## Frequencies
## poids1$v012
##
##           Freq  % Valid  % Valid Cum.  % Total  % Total Cum.
## -----
##      15      4     0.10     0.10     0.10     0.10
##      16     16     0.39     0.49     0.39     0.49
##      17     37     0.90     1.39     0.90     1.39
##      18     53     1.29     2.67     1.29     2.67
##      19    103     2.50     5.18     2.50     5.18
##      20    162     3.94     9.12     3.94     9.12
##      21    177     4.30    13.42     4.30    13.42
##      22    206     5.01    18.43     5.01    18.43
##      23    209     5.08    23.51     5.08    23.51

```

```

##      24    264     6.42     29.93     6.42     29.93
##      25    246     5.98     35.91     5.98     35.91
##      26    223     5.42     41.33     5.42     41.33
##      27    207     5.03     46.37     5.03     46.37
##      28    228     5.54     51.91     5.54     51.91
##      29    175     4.25     56.16     4.25     56.16
##      30    223     5.42     61.59     5.42     61.59
##      31    163     3.96     65.55     3.96     65.55
##      32    165     4.01     69.56     4.01     69.56
##      33    130     3.16     72.72     3.16     72.72
##      34    140     3.40     76.12     3.40     76.12
##      35    172     4.18     80.31     4.18     80.31
##      36    120     2.92     83.22     2.92     83.22
##      37    109     2.65     85.87     2.65     85.87
##      38     80     1.95     87.82     1.95     87.82
##      39    100     2.43     90.25     2.43     90.25
##      40    106     2.58     92.83     2.58     92.83
##      41     76     1.85     94.68     1.85     94.68
##      42     55     1.34     96.01     1.34     96.01
##      43     44     1.07     97.08     1.07     97.08
##      44     33     0.80     97.88     0.80     97.88
##      45     41     1.00     98.88     1.00     98.88
##      46     15     0.36     99.25     0.36     99.25
##      47     11     0.27     99.51     0.27     99.51
##      48     10     0.24     99.76     0.24     99.76
##      49     10     0.24    100.00     0.24    100.00
##      <NA>     0          0.00     0.00     100.00
##      Total   4113   100.00    100.00    100.00    100.00

```

```

reg_muli <- lm(m19 ~ v190 + v012, data = poids1)
summary(reg_muli)

```

```

##
## Call:
## lm(formula = m19 ~ v190 + v012, data = poids1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2458.6  -303.9   -77.5   324.7  3745.3
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 2923.437    48.837  59.861 < 2e-16 ***
## v190Poorer   59.961    34.663   1.730   0.0837 .
## v190Middle   66.621    33.610   1.982   0.0475 *
## v190Richer    7.048    32.154   0.219   0.8265
## v190Richest  24.917    31.904   0.781   0.4348
## v012         8.820     1.378   6.402  1.7e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 614.2 on 4107 degrees of freedom
## Multiple R-squared:  0.01159,    Adjusted R-squared:  0.01039
## F-statistic: 9.636 on 5 and 4107 DF,  p-value: 3.696e-09

```

```

library(broom)
reg_mul1 <- lm(m19 ~ v012 + v438 + v133 + v201 + b11, data = poids1)

summary(reg_mul1)

##
## Call:
## lm(formula = m19 ~ v012 + v438 + v133 + v201 + b11, data = poids1)
##
## Residuals:
##    Min     1Q Median     3Q    Max 
## -2520.8 -314.8 -54.1  315.5 3737.6 
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) 1155.15922  304.92781   3.788 0.000155 ***
## v012        -0.21441   2.95866  -0.072 0.942233    
## v438         1.31993   0.19340   6.825 1.06e-11 ***
## v133         0.08316   3.49070   0.024 0.980996    
## v201         12.20915  8.33957   1.464 0.143297    
## b11         -0.07290   0.48637  -0.150 0.880868    
## ---        
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 
##
## Residual standard error: 617.7 on 3044 degrees of freedom
##   (1063 observations deleted due to missingness)
## Multiple R-squared:  0.018, Adjusted R-squared:  0.01638 
## F-statistic: 11.16 on 5 and 3044 DF, p-value: 1.129e-10

tidy(reg_mul1)

```

```

## # A tibble: 6 x 5
##   term      estimate std.error statistic p.value
##   <chr>     <dbl>     <dbl>     <dbl>    <dbl>
## 1 (Intercept) 1155.     305.      3.79    1.55e- 4
## 2 v012       -0.214     2.96     -0.0725  9.42e- 1
## 3 v438        1.32      0.193     6.82    1.06e-11
## 4 v133        0.0832    3.49     0.0238  9.81e- 1
## 5 v201        12.2      8.34     1.46    1.43e- 1
## 6 b11       -0.0729    0.486    -0.150   8.81e- 1

```

Correction pour l'âge

```

reg_mul2 <- update(reg_mul1, ~ . + poly(v012, 2, raw = TRUE))
summary(reg_mul2)

```

```

##
## Call:
## lm(formula = m19 ~ v012 + v438 + v133 + v201 + b11 + poly(v012,
##   2, raw = TRUE), data = poids1)
##
## Residuals:
##    Min     1Q Median     3Q    Max 
## -2520.8 -314.8 -54.1  315.5 3737.6 
##
```

```

## -2533.4 -314.7 -53.6 316.7 3723.9
##
## Coefficients: (1 not defined because of singularities)
##                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)           801.53083 377.32437  2.124  0.0337 *
## v012                  24.01355 15.51825  1.547  0.1219
## v438                  1.30558  0.19356  6.745 1.82e-11 ***
## v133                 -0.21534  3.49487 -0.062  0.9509
## v201                 13.17957  8.35977  1.577  0.1150
## b11                  -0.08686  0.48633 -0.179  0.8583
## poly(v012, 2, raw = TRUE)1      NA          NA          NA          NA
## poly(v012, 2, raw = TRUE)2   -0.37630   0.23661  -1.590  0.1118
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 617.5 on 3043 degrees of freedom
##   (1063 observations deleted due to missingness)
## Multiple R-squared:  0.01881, Adjusted R-squared:  0.01688
## F-statistic: 9.724 on 6 and 3043 DF, p-value: 1.242e-10
summary(update(reg_mul1, ~ . - v012 + poly(v012, 2, raw = TRUE)))

##
## Call:
## lm(formula = m19 ~ v438 + v133 + v201 + b11 + poly(v012, 2, raw = TRUE),
##     data = poids1)
##
## Residuals:
##    Min      1Q  Median      3Q      Max
## -2533.4 -314.7 -53.6 316.7 3723.9
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)           801.53083 377.32437  2.124  0.0337 *
## v438                  1.30558  0.19356  6.745 1.82e-11 ***
## v133                 -0.21534  3.49487 -0.062  0.9509
## v201                 13.17957  8.35977  1.577  0.1150
## b11                  -0.08686  0.48633 -0.179  0.8583
## poly(v012, 2, raw = TRUE)1 24.01355 15.51825  1.547  0.1219
## poly(v012, 2, raw = TRUE)2   -0.37630   0.23661  -1.590  0.1118
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 617.5 on 3043 degrees of freedom
##   (1063 observations deleted due to missingness)
## Multiple R-squared:  0.01881, Adjusted R-squared:  0.01688
## F-statistic: 9.724 on 6 and 3043 DF, p-value: 1.242e-10
#lm(m19 ~ poly(v012, 2, raw = TRUE), v438 + v133 + v201 + b11, data = poids1)

reg_mul3 <- lm(m19 ~ poly(v012, 2, raw = TRUE) + v438 + v133 + v201 + b11, data = poids1)

summary(reg_mul3)

```

```

## 
## Call:
## lm(formula = m19 ~ poly(v012, 2, raw = TRUE) + v438 + v133 +
##      v201 + b11, data = poids1)
## 
## Residuals:
##    Min     1Q Median     3Q    Max 
## -2533.4 -314.7  -53.6   316.7 3723.9 
## 
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)    
## (Intercept)             801.53083  377.32437   2.124   0.0337 *  
## poly(v012, 2, raw = TRUE)1  24.01355   15.51825   1.547   0.1219    
## poly(v012, 2, raw = TRUE)2 -0.37630    0.23661  -1.590   0.1118    
## v438                   1.30558   0.19356   6.745 1.82e-11 *** 
## v133                  -0.21534   3.49487  -0.062   0.9509    
## v201                   13.17957   8.35977   1.577   0.1150    
## b11                    -0.08686   0.48633  -0.179   0.8583    
## ---                     
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 
## 
## Residual standard error: 617.5 on 3043 degrees of freedom
##   (1063 observations deleted due to missingness)
## Multiple R-squared:  0.01881,   Adjusted R-squared:  0.01688 
## F-statistic: 9.724 on 6 and 3043 DF,  p-value: 1.242e-10

```

Variable dichotomique

```

# Sexe
freq(poids1$b4)

## Frequencies
## poids1$b4
## Type: Factor
##
##          Freq % Valid % Valid Cum. % Total % Total Cum.
## -----
##       Male 2094 50.91 50.91 50.91 50.91
## Female 2019 49.09 100.00 49.09 100.00
## <NA>      0        0.00 100.00
## Total 4113 100.00 100.00 100.00 100.00

reg6 <- lm(m19 ~ b4, data = poids1)
summary(reg6)

## 
## Call:
## lm(formula = m19 ~ b4, data = poids1)
## 
## Residuals:
##    Min     1Q Median     3Q    Max 
## -2361.9 -261.9  -61.9   340.6 3738.1 
## 
## Coefficients:

```

```

##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 3261.91      13.45 242.56 < 2e-16 ***
## b4Female    -102.50     19.19  -5.34 9.79e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 615.4 on 4111 degrees of freedom
## Multiple R-squared:  0.006889, Adjusted R-squared:  0.006647
## F-statistic: 28.52 on 1 and 4111 DF, p-value: 9.79e-08

# Lieu de naissance
reg7 <- reg1 <- lm(m19 ~ v025, data = poids1)
summary(reg7)

## 
## Call:
## lm(formula = m19 ~ v025, data = poids1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2418.0  -218.0   -96.8   303.2  3782.0
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 3196.85     17.50 182.69 <2e-16 ***
## v025Rural    21.15     20.96   1.01   0.313
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 617.4 on 4111 degrees of freedom
## Multiple R-squared:  0.0002478, Adjusted R-squared:  4.646e-06
## F-statistic: 1.019 on 1 and 4111 DF, p-value: 0.3128

```

Variables catégorielles

```

# Niveau d'éducation
freq(poids1$v106)

## Frequencies
## poids1$v106
## Type: Factor
##
##          Freq % Valid % Valid Cum. % Total % Total Cum.
## -----
## No education    676 16.44    16.44 16.44    16.44
## Primary        2759 67.08   83.52 67.08    83.52
## Secondary       656 15.95   99.47 15.95    99.47
## Higher          22  0.53   100.00 0.53    100.00
## <NA>            0
## Total         4113 100.00 100.00 100.00 100.00
reg8 <- lm(m19 ~ v106, data = poids1)
summary(reg8)

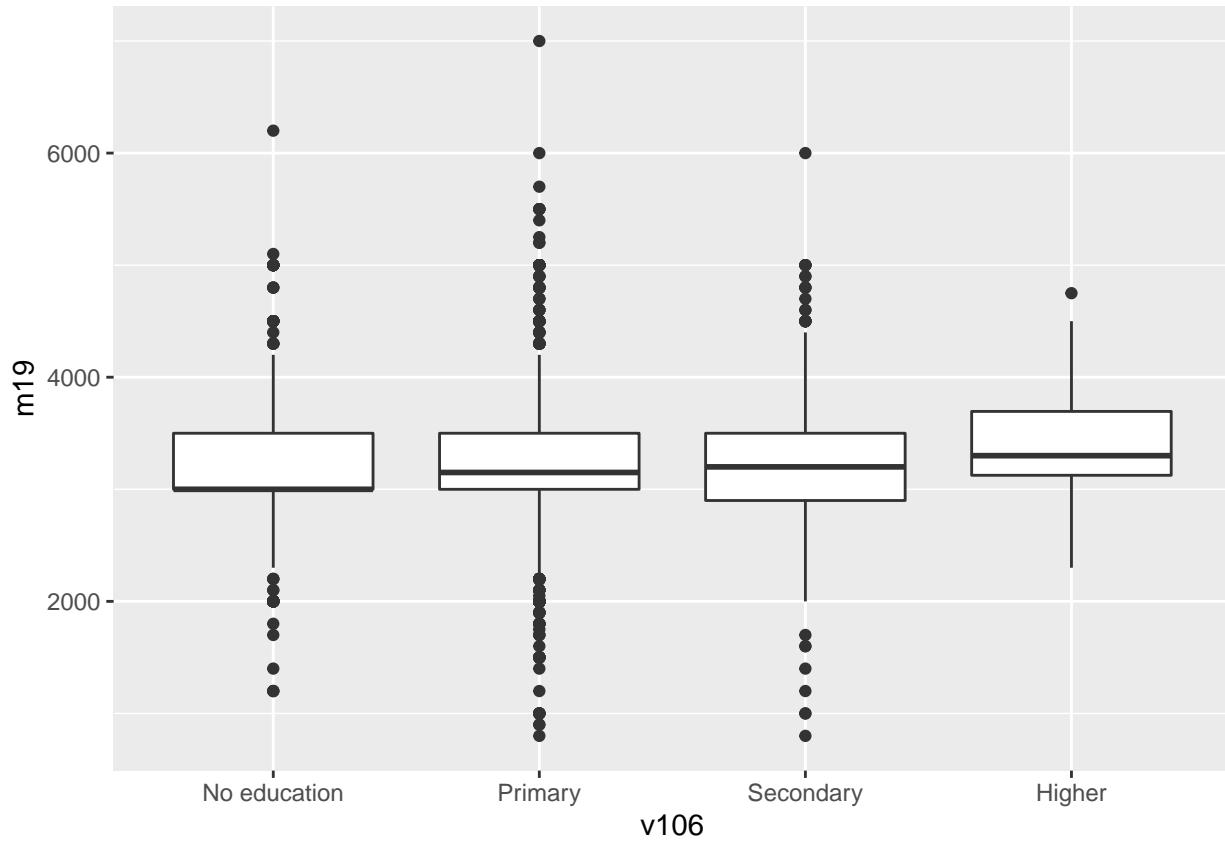
```

```

## 
## Call:
## lm(formula = m19 ~ v106, data = poids1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2417.9  -217.9  -107.8   292.2  3792.2
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) 3213.811   23.747 135.335 <2e-16 ***
## v106Primary  -6.049   26.497  -0.228   0.8194
## v106Secondary  4.066   33.838   0.120   0.9044
## v106Higher    223.917  133.760   1.674   0.0942 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 617.4 on 4109 degrees of freedom
## Multiple R-squared:  0.0007621, Adjusted R-squared:  3.259e-05
## F-statistic: 1.045 on 3 and 4109 DF,  p-value: 0.3715
summary(lm(m19 ~ relevel(v106, 3), data = poids1))

## 
## Call:
## lm(formula = m19 ~ relevel(v106, 3), data = poids1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2417.9  -217.9  -107.8   292.2  3792.2
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) 3217.877   24.106 133.487 <2e-16 ***
## relevel(v106, 3)No education  -4.066   33.838  -0.120   0.904
## relevel(v106, 3)Primary     -10.115  26.820  -0.377   0.706
## relevel(v106, 3)Higher      219.851 133.824   1.643   0.100
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 617.4 on 4109 degrees of freedom
## Multiple R-squared:  0.0007621, Adjusted R-squared:  3.259e-05
## F-statistic: 1.045 on 3 and 4109 DF,  p-value: 0.3715
ggplot(poids1) +
  geom_boxplot(aes(x = v106, y = m19))

```



Modèle final

```

reg_mul_final <- lm(m19 ~ poly(v012, 2, raw = TRUE) + v106 + b4 + v438 + v201 + b11, data = poids1)
summary(reg_mul_final)

##
## Call:
## lm(formula = m19 ~ poly(v012, 2, raw = TRUE) + v106 + b4 + v438 +
##     v201 + b11, data = poids1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max 
## -2467.0  -319.8   -44.9   321.6  3668.6 
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)    
## (Intercept)                 848.02558  375.54380   2.258   0.024 *  
## poly(v012, 2, raw = TRUE)1  24.44626   15.44306   1.583   0.114    
## poly(v012, 2, raw = TRUE)2 -0.38438    0.23558  -1.632   0.103    
## v106Primary                -11.33080   30.08259  -0.377   0.706    
## v106Secondary               -16.99491   41.56171  -0.409   0.683    
## v106Higher                  170.37622  181.31546   0.940   0.347    
## b4Female                    -116.93993   22.31552  -5.240 1.71e-07 *** 
## v438                        1.31258    0.19245   6.820 1.09e-11 *** 
## v201                        13.50767   8.32672   1.622   0.105    
## b11                         -0.05223   0.48766  -0.107   0.915    
## 
```

```

## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 614.9 on 3040 degrees of freedom
##   (1063 observations deleted due to missingness)
## Multiple R-squared: 0.02805, Adjusted R-squared: 0.02517
## F-statistic: 9.749 on 9 and 3040 DF, p-value: 7.823e-15
stargazer(reg_mul1, reg_mul2, reg_mul3, reg_mul_final, title = "Divers modèles", align = TRUE, type = "text")

## Divers modèles
## -----
##                               Dependent variable:
##                               -----
##                               m19
##                               (1)          (2)          (3)
## -----
## v012           -0.214        24.014
##                   (2.959)      (15.518)
## 
## v438           1.320***      1.306***      1.306***
##                   (0.193)      (0.194)      (0.194)
## 
## v133           0.083        -0.215       -0.215
##                   (3.491)      (3.495)      (3.495)
## 
## v201           12.209       13.180       13.180
##                   (8.340)      (8.360)      (8.360)
## 
## b11            -0.073       -0.087       -0.087
##                   (0.486)      (0.486)      (0.486)
## 
## poly(v012, 2, raw = TRUE)1      24.014
##                                     (15.518)
## 
## poly(v012, 2, raw = TRUE)2      -0.376
##                                     (0.237)      -0.376
##                                     (0.237)
## 
## v106Primary
## 
## 
## v106Secondary
## 
## 
## v106Higher
## 
## 
## b4Female
## 
## 
## Constant      1,155.159***     801.531**    801.531**
##                   (304.928)      (377.324)      (377.324)
## 
## -----

```

```

## Observations           3,050          3,050          3,050
## R2                   0.018          0.019          0.019
## Adjusted R2          0.016          0.017          0.017
## Residual Std. Error   617.687 (df = 3044)    617.532 (df = 3043)    617.532 (df = 3043)
## F Statistic          11.157*** (df = 5; 3044) 9.724*** (df = 6; 3043) 9.724*** (df = 6; 3043) *
## =====
## Note: *p<0.05

```

Interaction

```

reg_int1 <- lm(m19 ~ b4 + v438 + v438:b4 , data = poids1)
summary(reg_int1)

##
## Call:
## lm(formula = m19 ~ b4 + v438 + v438:b4, data = poids1)
##
## Residuals:
##      Min       1Q     Median      3Q      Max
## -2460.2  -305.8   -50.6   331.4  3732.3
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 1344.6467   358.7235   3.748  0.00018 ***
## b4Female    -800.8443   504.0912  -1.589  0.11221
## v438         1.2288    0.2298    5.348 9.36e-08 ***
## b4Female:v438  0.4480    0.3229    1.387  0.16538
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 609.4 on 4109 degrees of freedom
## Multiple R-squared:  0.02661,   Adjusted R-squared:  0.0259
## F-statistic: 37.44 on 3 and 4109 DF,  p-value: < 2.2e-16

reg_int2 <- lm(m19 ~ v025 + v438 + v438:v025 , data = poids1)
summary(reg_int2)

##
## Call:
## lm(formula = m19 ~ v025 + v438 + v438:v025, data = poids1)
##
## Residuals:
##      Min       1Q     Median      3Q      Max
## -2519.6  -300.4   -63.4   332.4  3775.8
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) -55.2990   440.7652  -0.125  0.90016
## v025Rural   1472.0740   537.9830   2.736  0.00624 **
## v438         2.0833    0.2821    7.384 1.85e-13 ***
## v025Rural:v438 -0.9284    0.3445  -2.695  0.00707 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##

```

```

## Residual standard error: 611 on 4109 degrees of freedom
## Multiple R-squared:  0.02137,   Adjusted R-squared:  0.02065
## F-statistic: 29.9 on 3 and 4109 DF,  p-value: < 2.2e-16
reg_int3 <- lm(m19 ~ v106 + v438 + v438:v106 , data = poids1)
summary(reg_int3)

##
## Call:
## lm(formula = m19 ~ v106 + v438 + v438:v106, data = poids1)
##
## Residuals:
##    Min      1Q  Median      3Q     Max 
## -2538.8  -297.6   -65.2   332.8  3785.6 
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) 1918.4130   603.0141   3.181  0.00148 ** 
## v106Primary -948.7750   677.8075  -1.400  0.16166    
## v106Secondary -2160.0794   892.5155  -2.420  0.01555 *  
## v106Higher    -4022.8702   3441.3577 -1.169  0.24248    
## v438          0.8340    0.3880   2.150  0.03163 *  
## v106Primary:v438  0.6003    0.4357   1.378  0.16829    
## v106Secondary:v438  1.3761    0.5718   2.407  0.01615 *  
## v106Higher:v438  2.6735    2.1775   1.228  0.21960    
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 611.3 on 4105 degrees of freedom
## Multiple R-squared:  0.02158,   Adjusted R-squared:  0.01991
## F-statistic: 12.93 on 7 and 4105 DF,  p-value: < 2.2e-16

```

Shortcuts

- $a^*b = a + b + A:b$
- $a^*(b + c) = a + B + c + a:b + a:c$
- $(a + b + c)^2 = a + b + c + a:b + a:c + b:c$
- $abc = a+b+c + a:b + a:c + b:c + a:b:c$