TP-6

Groupe-8

2025-02-24

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# Chargement des packages necessaires

# Liste des packages nécessaires  
packages <- c("readr", "haven", "utils", "dplyr", "labelled", "cardx", "survey", "kableExtra", "gtsummary")  
  
# Vérification et installation  
invisible(lapply(packages, function(pkg) {  
 if (!requireNamespace(pkg, quietly = TRUE)) {  
 install.packages(pkg, quiet = TRUE)   
 }  
 if (!pkg %in% .packages()) {   
 suppressMessages(library(pkg, character.only = TRUE))  
 }  
}))

## Importation de la base menage

data\_individu<- haven::read\_dta("../Donnees/ehcvm\_individu\_tgo2018.dta")  
data\_individu

## # A tibble: 27,482 × 52  
## country year vague hhid grappe menage numind zae region sousregion  
## <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl+lbl> <dbl+lbl> <dbl+lbl>   
## 1 TGO 2018 1 101 1 1 1 5 [Lome] 6 [Lomé … 602 [Arro…  
## 2 TGO 2018 1 101 1 1 2 5 [Lome] 6 [Lomé … 602 [Arro…  
## 3 TGO 2018 1 101 1 1 4 5 [Lome] 6 [Lomé … 602 [Arro…  
## 4 TGO 2018 1 103 1 3 1 5 [Lome] 6 [Lomé … 602 [Arro…  
## 5 TGO 2018 1 104 1 4 1 5 [Lome] 6 [Lomé … 602 [Arro…  
## 6 TGO 2018 1 104 1 4 2 5 [Lome] 6 [Lomé … 602 [Arro…  
## 7 TGO 2018 1 104 1 4 3 5 [Lome] 6 [Lomé … 602 [Arro…  
## 8 TGO 2018 1 105 1 5 1 5 [Lome] 6 [Lomé … 602 [Arro…  
## 9 TGO 2018 1 105 1 5 2 5 [Lome] 6 [Lomé … 602 [Arro…  
## 10 TGO 2018 1 106 1 6 1 5 [Lome] 6 [Lomé … 602 [Arro…  
## # ℹ 27,472 more rows  
## # ℹ 42 more variables: milieu <dbl+lbl>, hhweight <dbl>, resid <dbl+lbl>,  
## # sexe <dbl+lbl>, age <dbl>, lien <dbl+lbl>, mstat <dbl+lbl>,  
## # religion <dbl+lbl>, nation <dbl+lbl>, agemar <dbl>, mal30j <dbl+lbl>,  
## # aff30j <dbl+lbl>, arrmal <dbl+lbl>, durarr <dbl+lbl>, con30j <dbl+lbl>,  
## # hos12m <dbl+lbl>, couvmal <dbl+lbl>, moustiq <dbl+lbl>, handit <dbl+lbl>,  
## # handig <dbl+lbl>, alfab <dbl+lbl>, scol <dbl+lbl>, educ\_scol <dbl+lbl>, …

## Importation de la base menage

data\_menage<- haven::read\_dta("../Donnees/ehcvm\_menage\_tgo2018.dta")  
data\_menage

## # A tibble: 6,171 × 34  
## country hhid logem mur toit sol eauboi\_ss eauboi\_sp elec\_ac  
## <chr> <dbl> <dbl+lbl> <dbl+l> <dbl+l> <dbl+l> <dbl+lbl> <dbl+lbl> <dbl+l>  
## 1 TGO 101 1 [Proprie… 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui]  
## 2 TGO 103 3 [Locatai… 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui]  
## 3 TGO 104 3 [Locatai… 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui]  
## 4 TGO 105 3 [Locatai… 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 0 [Non]  
## 5 TGO 106 4 [Autre] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui]  
## 6 TGO 108 3 [Locatai… 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui]  
## 7 TGO 110 3 [Locatai… 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui]  
## 8 TGO 111 1 [Proprie… 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui]  
## 9 TGO 112 3 [Locatai… 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui]  
## 10 TGO 201 3 [Locatai… 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui] 1 [Oui]  
## # ℹ 6,161 more rows  
## # ℹ 25 more variables: elec\_ur <dbl+lbl>, elec\_ua <dbl+lbl>, ordure <dbl+lbl>,  
## # toilet <dbl+lbl>, eva\_toi <dbl+lbl>, eva\_eau <dbl+lbl>, tv <dbl+lbl>,  
## # fer <dbl+lbl>, frigo <dbl+lbl>, cuisin <dbl+lbl>, ordin <dbl+lbl>,  
## # decod <dbl+lbl>, car <dbl+lbl>, superf <dbl>, grosrum <dbl>,  
## # petitrum <dbl>, porc <dbl>, lapin <dbl>, volail <dbl>,  
## # sh\_id\_demo <dbl+lbl>, sh\_co\_natu <dbl+lbl>, sh\_co\_eco <dbl+lbl>, …

## Structure des deux bases

utils::str(data\_individu)

## tibble [27,482 × 52] (S3: tbl\_df/tbl/data.frame)  
## $ country : chr [1:27482] "TGO" "TGO" "TGO" "TGO" ...  
## ..- attr(\*, "label")= chr "Pays"  
## ..- attr(\*, "format.stata")= chr "%3s"  
## $ year : num [1:27482] 2018 2018 2018 2018 2018 ...  
## ..- attr(\*, "label")= chr "Annee enquete"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ vague : num [1:27482] 1 1 1 1 1 1 1 1 1 1 ...  
## ..- attr(\*, "label")= chr "Vague"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ hhid : num [1:27482] 101 101 101 103 104 104 104 105 105 106 ...  
## ..- attr(\*, "label")= chr "Idenfiant menage"  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ grappe : num [1:27482] 1 1 1 1 1 1 1 1 1 1 ...  
## ..- attr(\*, "label")= chr "Numero de grappe"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ menage : num [1:27482] 1 1 1 3 4 4 4 5 5 6 ...  
## ..- attr(\*, "label")= chr "Numero du menage"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ numind : num [1:27482] 1 2 4 1 1 2 3 1 2 1 ...  
## ..- attr(\*, "label")= chr "Numero individu"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ zae : dbl+lbl [1:27482] 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5...  
## ..@ label : chr "Zone agroecologique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:5] 1 2 3 4 5  
## .. ..- attr(\*, "names")= chr [1:5] "Zone des plaines du nord" "Zone des montagnes du nord" "Zone des plaines du centre" "Zone cotiere du sud" ...  
## $ region : dbl+lbl [1:27482] 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6...  
## ..@ label : chr "Region residence"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:6] 1 2 3 4 5 6  
## .. ..- attr(\*, "names")= chr [1:6] "Maritime" "Plateaux" "Centrale" "Kara" ...  
## $ sousregion : dbl+lbl [1:27482] 602, 602, 602, 602, 602, 602, 602, 602, 602, 602, 60...  
## ..@ label : chr "Prefecture residence"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:41] 101 102 103 104 105 106 107 201 202 203 ...  
## .. ..- attr(\*, "names")= chr [1:41] "golfe" "lacs" "BAS-MONO" "vo" ...  
## $ milieu : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Milieu residence"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 1 2  
## .. ..- attr(\*, "names")= chr [1:2] "Urbain" "Rural"  
## $ hhweight : num [1:27482] 598 598 598 598 598 ...  
## ..- attr(\*, "label")= chr "Ponderation menage"  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ resid : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Resident"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sexe : dbl+lbl [1:27482] 1, 1, 1, 1, 2, 2, 2, 2, 1, 1, 1, 2, 2, 2, 2, 2, 1, 1...  
## ..@ label : chr "Genre"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 1 2  
## .. ..- attr(\*, "names")= chr [1:2] "Masculin" "Féminin"  
## $ age : num [1:27482] 89 28 28 38 54 18 28 51 25 28 ...  
## ..- attr(\*, "label")= chr "Age en annees"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ lien : dbl+lbl [1:27482] 1, 9, 9, 1, 1, 3, 3, 1, 3, 1, 1, 2, 3, 3, 1, 3, 1, 1...  
## ..@ label : chr "Lien de parente"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:10] 1 2 3 4 5 6 7 8 9 10  
## .. ..- attr(\*, "names")= chr [1:10] "Chef de ménage" "Conjoint ( e )" "Fils, Fille" "Père, Mère" ...  
## $ mstat : dbl+lbl [1:27482] 5, 1, 1, 2, 3, 1, 1, 5, 1, 1, 2, 2, 1, 1, 6, 1, 7, 2...  
## ..@ label : chr "Situation de famille"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:7] 1 2 3 4 5 6 7  
## .. ..- attr(\*, "names")= chr [1:7] "Célibataire" "Marié(e) monogame" "Marié(e) polygame" "Union libre" ...  
## $ religion : dbl+lbl [1:27482] 2, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 5, 5, 2, 2...  
## ..@ label : chr "Religion"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:5] 1 2 3 4 5  
## .. ..- attr(\*, "names")= chr [1:5] "Musulman" "Chrétien" "Animiste" "Autre Réligion" ...  
## $ nation : dbl+lbl [1:27482] 8, 8, 8, 6, 8, 8, 8, 8, 8, 8, 8, 8, 8, ...  
## ..@ label : chr "Nationalité"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:12] 1 2 3 4 5 6 7 8 9 10 ...  
## .. ..- attr(\*, "names")= chr [1:12] "Benin" "Burkina Faso" "Côte d'Ivoire" "Guinée Bissau" ...  
## $ agemar : num [1:27482] NA NA NA 32 22 NA NA 20 NA NA ...  
## ..- attr(\*, "label")= chr "Age premier marriage"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ mal30j : dbl+lbl [1:27482] 1, 0, 1, 1, 1, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0...  
## ..@ label : chr "Prob. sante 30 dern. jours"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ aff30j : dbl+lbl [1:27482] 1, NA, 1, 1, 11, 11, NA, NA, NA, NA, NA, 14, NA, ...  
## ..@ label : chr "probleme sante"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:14] 1 2 3 4 5 6 7 8 9 10 ...  
## .. ..- attr(\*, "names")= chr [1:14] "Fièvre/Paludisme" "Diarrhée" "Accident/Blessure" "Problème dentaire" ...  
## $ arrmal : dbl+lbl [1:27482] 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Arret activite pour maladie"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ durarr : dbl+lbl [1:27482] 3, NA, 3, NA, NA, NA, NA, NA, NA, NA, NA, 2, NA, ...  
## ..@ label : chr "Duree arret activite pour maladie"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "Moins d'une semaine" "Entre une et deux semaines" "Plus de deux semaines"  
## $ con30j : dbl+lbl [1:27482] 0, NA, 1, 0, 0, 1, NA, NA, NA, NA, NA, 1, NA, ...  
## ..@ label : chr "Consulte 30 dern. jours"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ hos12m : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Hospitalisation 12 der. mois"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ couvmal : dbl+lbl [1:27482] 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1...  
## ..@ label : chr "Indivu couverture maladie"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ moustiq : dbl+lbl [1:27482] 0, 0, 0, 1, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 1, 1, 0, 0...  
## ..@ label : chr "Dormi moustiquire nuit dern."  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ handit : dbl+lbl [1:27482] 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, ...  
## ..@ label : chr "Handicap tout niveau"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ handig : dbl+lbl [1:27482] 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, ...  
## ..@ label : chr "Handicap majeur seul"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ alfab : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Alphabetisation"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ scol : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 1, 1, 0, 1, 0, 0...  
## ..@ label : chr "Freq. ecole 2017/18"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ educ\_scol : dbl+lbl [1:27482] NA, NA, NA, NA, NA, 3, 5, NA, NA, NA, NA, NA, 2, ...  
## ..@ label : chr "Niv. educ. actuel"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:8] 1 2 3 4 5 6 7 8  
## .. ..- attr(\*, "names")= chr [1:8] "Maternelle" "Primaire" "Secondaire 1 (Post Primaire) générale" "Secondaire 1 (Post Primaire) technique" ...  
## $ educ\_hi : dbl+lbl [1:27482] 1, 6, 6, 6, 3, 4, 6, 4, 8, 8, 1, 4, 3, 3, 3, 4, 9, 9...  
## ..@ label : chr "Niv. educ. acheve"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:9] 1 2 3 4 5 6 7 8 9  
## .. ..- attr(\*, "names")= chr [1:9] "Aucun" "Maternelle" "Primaire" "Second. gl 1" ...  
## $ diplome : dbl+lbl [1:27482] 0, 2, 5, 2, 0, 1, 2, 2, 5, 6, 0, 1, 0, ...  
## ..@ label : chr "Diplome plus eleve"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:11] 0 1 2 3 4 5 6 7 8 9 ...  
## .. ..- attr(\*, "names")= chr [1:11] "Aucun" "CEPE / CEPD" "bepc" "cap" ...  
## $ telpor : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 0, 0, 1, 0, 1, 1...  
## ..@ label : chr "Individu a telephone portable"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ internet : dbl+lbl [1:27482] 0, 1, 1, 1, 0, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1...  
## ..@ label : chr "Individu a acces internet"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ activ7j : dbl+lbl [1:27482] 5, 5, 1, 1, 1, 5, 5, 1, 2, 1, 1, 1, 5, 5, 1, 5, 5, 1...  
## ..@ label : chr "Situation activite 7 derniers jours"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:6] 1 2 3 4 5 6  
## .. ..- attr(\*, "names")= chr [1:6] "Occupe" "Chomeur" "TF cherchant emploi" "TF cherchant pas" ...  
## $ activ12m : dbl+lbl [1:27482] 3, 3, 1, 1, 1, 3, 3, 1, 3, 1, 1, 1, 3, 3, 1, 3, 3, 1...  
## ..@ label : chr "Situation activite 12 derniers mois"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Occupe" "Trav. fam." "Non occupe" "Moins de 5 ans"  
## $ branch : dbl+lbl [1:27482] NA, NA, 8, 10, 11, NA, NA, 4, NA, 8, 10, 4, NA, ...  
## ..@ label : chr "Branche activite"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:11] 1 2 3 4 5 6 7 8 9 10 ...  
## .. ..- attr(\*, "names")= chr [1:11] "Agriculture" "Elevage/peche" "Indust. extr." "Autr. indust." ...  
## $ sectins : dbl+lbl [1:27482] NA, NA, 3, 3, 2, NA, NA, 3, NA, 2, 3, 3, NA, ...  
## ..@ label : chr "Sect. institutionnel empl. prin."  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:6] 1 2 3 4 5 6  
## .. ..- attr(\*, "names")= chr [1:6] "Etat/Collectivités locales" "Entreprise publique/ parapublique" "Entreprise Privée" "Entreprise associative" ...  
## $ csp : dbl+lbl [1:27482] NA, NA, 9, 9, 4, NA, NA, 9, NA, 2, 9, 9, NA, ...  
## ..@ label : chr "CSP empl. prin."  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:10] 1 2 3 4 5 6 7 8 9 10  
## .. ..- attr(\*, "names")= chr [1:10] "Cadre supérieur" "Cadre moyen/agent de maîtrise" "Ouvrier ou employé qualifié" "Ouvrier ou employé non qualifié" ...  
## $ volhor : num [1:27482] NA NA 600 875 NA ...  
## ..- attr(\*, "label")= chr "Horaire an. travail empl. prin."  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ salaire : num [1:27482] NA NA NA NA 0 NA NA NA NA 3420000 ...  
## ..- attr(\*, "label")= chr "Salaire an. empl. prin."  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ emploi\_sec : dbl+lbl [1:27482] 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "A un emploi secondaire 12 mois"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sectins\_sec : dbl+lbl [1:27482] NA, NA, NA, NA, 3, NA, NA, NA, NA, NA, 6, NA, NA, ...  
## ..@ label : chr "Secteur instit. emploi sec."  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:6] 1 2 3 4 5 6  
## .. ..- attr(\*, "names")= chr [1:6] "Etat/Collectivités locales" "Entreprise publique/ parapublique" "Entreprise privée" "Entreprise associative" ...  
## $ csp\_sec : dbl+lbl [1:27482] NA, NA, NA, NA, 9, NA, NA, NA, NA, NA, 4, NA, NA, ...  
## ..@ label : chr "CSP emploi sec."  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:10] 1 2 3 4 5 6 7 8 9 10  
## .. ..- attr(\*, "names")= chr [1:10] "Cadre supérieur" "Cadre moyen/agent de maîtrise" "Ouvrier ou employé qualifié" "Ouvrier ou employé non qualifié" ...  
## $ volhor\_sec : num [1:27482] NA NA NA NA 720 NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Horaire an. travail emploi sec."  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ salaire\_sec : num [1:27482] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Salaire an. emploi sec."  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ bank : dbl+lbl [1:27482] 1, 1, 1, 0, 0, 0, 0, 1, 0, 1, 0, 1, 0, 0, 1, 0, 0, 1...  
## ..@ label : chr "compte banque ou autre"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ serviceconsult: dbl+lbl [1:27482] 4, NA, 1, 4, 4, 1, NA, NA, NA, NA, NA, 1, NA, ...  
## ..@ label : chr "Service de santé consulté"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Hôpital/Clinique" "Dispensaire" "Autres" "Pas de consultation"  
## $ persconsult : dbl+lbl [1:27482] 4, NA, 2, 4, 4, 2, NA, NA, NA, NA, NA, 1, NA, ...  
## ..@ label : chr "Personnel de santé consulté"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Médecin" "Infirmier" "Autres" "Pas de consultation"

utils::str(data\_menage)

## tibble [6,171 × 34] (S3: tbl\_df/tbl/data.frame)  
## $ country : chr [1:6171] "TGO" "TGO" "TGO" "TGO" ...  
## ..- attr(\*, "format.stata")= chr "%3s"  
## $ hhid : num [1:6171] 101 103 104 105 106 108 110 111 112 201 ...  
## ..- attr(\*, "label")= chr "Identifiant menage"  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ logem : dbl+lbl [1:6171] 1, 3, 3, 3, 4, 3, 3, 1, 3, 3, 4, 4, 4, 2, 4, 3, 3, 1,...  
## ..@ label : chr "Occupation logement"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Proprietaire titre" "Proprietaire sans titre" "Locataire" "Autre"  
## $ mur : dbl+lbl [1:6171] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Mur en materiaux definitifs"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ toit : dbl+lbl [1:6171] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "toit en materiaux definitifs"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sol : dbl+lbl [1:6171] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Sol en materiaux definitifs"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ eauboi\_ss : dbl+lbl [1:6171] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "eau potable saison seche"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ eauboi\_sp : dbl+lbl [1:6171] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "eau potable saison pluie"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ elec\_ac : dbl+lbl [1:6171] 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 0, 1, 0, 0, 0, 1, 1, 1,...  
## ..@ label : chr "Acces reseau electrique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ elec\_ur : dbl+lbl [1:6171] 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Utilise elec. reseau"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ elec\_ua : dbl+lbl [1:6171] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,...  
## ..@ label : chr "Utilise elec. solaire/groupe"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ ordure : dbl+lbl [1:6171] 0, 1, 1, 1, 1, 1, 1, 0, 1, 1, 0, 0, 1, 0, 0, 1, 1, 1,...  
## ..@ label : chr "Déchets évacués sainement"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ toilet : dbl+lbl [1:6171] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 0, 0, 0, 0, 1, 1,...  
## ..@ label : chr "Toilettes saines"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ eva\_toi : dbl+lbl [1:6171] 1, 1, 1, 0, 1, 0, 1, 1, 1, 1, 0, 1, 0, 0, 0, 0, 1, 1,...  
## ..@ label : chr "Excréments évacués sainement"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ eva\_eau : dbl+lbl [1:6171] 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1,...  
## ..@ label : chr "Eaux usées évacuées sainement"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ tv : dbl+lbl [1:6171] 0, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 1, 1, 0, 1, 1, 1,...  
## ..@ label : chr "Menage a TV"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ fer : dbl+lbl [1:6171] 1, 1, 0, 0, 1, 0, 1, 1, 1, 0, 0, 1, 1, 0, 0, 0, 0, 1,...  
## ..@ label : chr "Menage a fer electrique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ frigo : dbl+lbl [1:6171] 0, 1, 0, 0, 1, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1,...  
## ..@ label : chr "Menage a frigo/congel"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ cuisin : dbl+lbl [1:6171] 1, 0, 1, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0,...  
## ..@ label : chr "Menage a cuisiniere elec/gaz"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ ordin : dbl+lbl [1:6171] 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0,...  
## ..@ label : chr "Menage a ordinateur"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ decod : dbl+lbl [1:6171] 0, 1, 0, 0, 1, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1,...  
## ..@ label : chr "Menage a decodeur/antenne"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ car : dbl+lbl [1:6171] 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1,...  
## ..@ label : chr "Menage a voiture"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ superf : num [1:6171] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Superficie agricole"  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ grosrum : num [1:6171] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Nbr gros ruminants"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ petitrum : num [1:6171] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Nbr petits ruminants"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ porc : num [1:6171] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Nbr porcs"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ lapin : num [1:6171] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Nbr lapins"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ volail : num [1:6171] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Nbr volailles"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ sh\_id\_demo: dbl+lbl [1:6171] 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 1, 1, 0, 0, 1,...  
## ..@ label : chr "Choc idio démographique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sh\_co\_natu: dbl+lbl [1:6171] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,...  
## ..@ label : chr "Choc covariant naturel"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sh\_co\_eco : dbl+lbl [1:6171] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0,...  
## ..@ label : chr "Choc covariant économique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sh\_id\_eco : dbl+lbl [1:6171] 0, 0, 0, 1, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0,...  
## ..@ label : chr "Choc idio économique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sh\_co\_vio : dbl+lbl [1:6171] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,...  
## ..@ label : chr "Choc covariant violence"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sh\_co\_oth : dbl+lbl [1:6171] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,...  
## ..@ label : chr "Autres Chocs"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"

# Statistiques avec la base indivdu

## Tableau Statistique sur la base individu sans poids

tableau1<- data\_individu %>% labelled::to\_factor()%>%  
 select (sexe, bank, mstat, alfab, diplome, educ\_hi, age, internet, couvmal, moustiq)%>%   
 tbl\_summary(  
 label = list(mstat~ "Situation de famille",  
 bank ~"Compte banquaire ou autre",  
 alfab ~"Alphabetisation",  
 diplome ~ "Diplome plus élevé",  
 educ\_hi ~"Niveau d'éducation achevé",   
 age~ "Age en année",   
 internet~ "Individu accès a internet",   
 couvmal~ "Individu couverture maladie",  
 moustiq~ "Dormir la dernière nuit sous une moustiquaire"),  
 statistic = list(age~"{mean} ({sd}"),  
 digits = everything()~c(0),  
 missing = "always",  
 missing\_text = "valeurs manquantes")%>%modify\_header(label= "Statistiques sur les individus")  
  
tableau1

| Statistiques sur les individus | **N = 27,482***1* |
| --- | --- |
| Genre |  |
| Masculin | 13,165 (48%) |
| Féminin | 14,315 (52%) |
| valeurs manquantes | 2 |
| Compte banquaire ou autre |  |
| Non | 23,474 (85%) |
| Oui | 4,008 (15%) |
| valeurs manquantes | 0 |
| Situation de famille |  |
| Célibataire | 16,716 (61%) |
| Marié(e) monogame | 6,323 (23%) |
| Marié(e) polygame | 2,185 (8%) |
| Union libre | 389 (1%) |
| Veuf(ve) | 1,297 (5%) |
| Divorcé(e) | 182 (1%) |
| Séparé(e) | 388 (1%) |
| valeurs manquantes | 2 |
| Alphabetisation |  |
| Non | 12,636 (46%) |
| Oui | 14,846 (54%) |
| valeurs manquantes | 0 |
| Diplome plus élevé |  |
| Aucun | 20,005 (73%) |
| CEPE / CEPD | 4,922 (18%) |
| bepc | 1,519 (6%) |
| cap | 72 (0%) |
| bt | 18 (0%) |
| bac | 550 (2%) |
| DEUG, DUT, BTS | 94 (0%) |
| Licence | 190 (1%) |
| Maitrise | 71 (0%) |
| Master/DEA/DESS | 28 (0%) |
| Doctorat/Phd | 13 (0%) |
| valeurs manquantes | 0 |
| Niveau d'éducation achevé |  |
| Aucun | 10,653 (39%) |
| Maternelle | 659 (2%) |
| Primaire | 9,464 (34%) |
| Second. gl 1 | 4,581 (17%) |
| Second. tech. 1 | 31 (0%) |
| Second. gl 2 | 1,137 (4%) |
| Second. tech. 2 | 257 (1%) |
| Postsecondaire | 107 (0%) |
| Superieur | 592 (2%) |
| valeurs manquantes | 1 |
| Age en année | 23 (19 |
| valeurs manquantes | 2 |
| Individu accès a internet |  |
| Non | 24,825 (90%) |
| Oui | 2,657 (10%) |
| valeurs manquantes | 0 |
| Individu couverture maladie |  |
| Non | 26,281 (96%) |
| Oui | 1,201 (4%) |
| valeurs manquantes | 0 |
| Dormir la dernière nuit sous une moustiquaire |  |
| Non | 7,340 (27%) |
| Oui | 20,142 (73%) |
| valeurs manquantes | 0 |
| *1*n (%); Mean (SD | |

## Tableau Statistique sur la base individu sans poibs selon sexe et milieu de residence

tableau2 <- data\_individu %>%  
 labelled::to\_factor() %>%  
   
 # Combiner les variables sexe et milieu en une seule variable afin de voir les statistiques par sexe et par milieu de résidence  
 mutate(sexe\_milieu = interaction(sexe, milieu, sep = " - ")) %>%  
 select(sexe\_milieu, bank, mstat, alfab, diplome, educ\_hi, age, internet, couvmal, moustiq) %>%  
 tbl\_summary(  
 by = sexe\_milieu,  
 label = list(  
 mstat ~ "Situation de famille",  
 bank ~ "Compte bancaire ou autre",  
 alfab ~ "Alphabétisation",  
 diplome ~ "Diplôme plus élevé",  
 educ\_hi ~ "Niveau d'éducation achevé",  
 age ~ "Âge en année",  
 internet ~ "Individu accès à internet",  
 couvmal ~ "Individu couverture maladie",  
 moustiq ~ "Dormir la dernière nuit sous une moustiquaire"),  
 statistic = list(age ~ "{mean} ({sd})"),   
 digits = list(all\_continuous() ~ 0),   
 missing\_text = "Valeurs manquantes") %>%  
 modify\_header(label = "Statistiques sur les individus")

## 2 missing rows in the "sexe\_milieu" column have been removed.

tableau2

| Statistiques sur les individus | **Masculin - Urbain** N = 4,123*1* | **Féminin - Urbain** N = 4,467*1* | **Masculin - Rural** N = 9,042*1* | **Féminin - Rural** N = 9,848*1* |
| --- | --- | --- | --- | --- |
| Compte bancaire ou autre |  |  |  |  |
| Non | 2,857 (69%) | 3,432 (77%) | 7,990 (88%) | 9,193 (93%) |
| Oui | 1,266 (31%) | 1,035 (23%) | 1,052 (12%) | 655 (6.7%) |
| Situation de famille |  |  |  |  |
| Célibataire | 2,814 (68%) | 2,509 (56%) | 6,058 (67%) | 5,335 (54%) |
| Marié(e) monogame | 989 (24%) | 1,065 (24%) | 2,070 (23%) | 2,199 (22%) |
| Marié(e) polygame | 142 (3.4%) | 287 (6.4%) | 599 (6.6%) | 1,157 (12%) |
| Union libre | 73 (1.8%) | 90 (2.0%) | 97 (1.1%) | 129 (1.3%) |
| Veuf(ve) | 37 (0.9%) | 360 (8.1%) | 100 (1.1%) | 800 (8.1%) |
| Divorcé(e) | 29 (0.7%) | 42 (0.9%) | 47 (0.5%) | 64 (0.6%) |
| Séparé(e) | 39 (0.9%) | 114 (2.6%) | 71 (0.8%) | 164 (1.7%) |
| Alphabétisation |  |  |  |  |
| Non | 905 (22%) | 1,507 (34%) | 4,211 (47%) | 6,011 (61%) |
| Oui | 3,218 (78%) | 2,960 (66%) | 4,831 (53%) | 3,837 (39%) |
| Diplôme plus élevé |  |  |  |  |
| Aucun | 2,004 (49%) | 2,774 (62%) | 6,769 (75%) | 8,456 (86%) |
| CEPE / CEPD | 992 (24%) | 1,073 (24%) | 1,692 (19%) | 1,165 (12%) |
| bepc | 568 (14%) | 361 (8.1%) | 396 (4.4%) | 194 (2.0%) |
| cap | 36 (0.9%) | 12 (0.3%) | 21 (0.2%) | 3 (<0.1%) |
| bt | 8 (0.2%) | 6 (0.1%) | 4 (<0.1%) | 0 (0%) |
| bac | 278 (6.7%) | 143 (3.2%) | 111 (1.2%) | 18 (0.2%) |
| DEUG, DUT, BTS | 47 (1.1%) | 33 (0.7%) | 11 (0.1%) | 3 (<0.1%) |
| Licence | 109 (2.6%) | 45 (1.0%) | 28 (0.3%) | 8 (<0.1%) |
| Maitrise | 53 (1.3%) | 10 (0.2%) | 7 (<0.1%) | 1 (<0.1%) |
| Master/DEA/DESS | 20 (0.5%) | 5 (0.1%) | 3 (<0.1%) | 0 (0%) |
| Doctorat/Phd | 8 (0.2%) | 5 (0.1%) | 0 (0%) | 0 (0%) |
| Niveau d'éducation achevé |  |  |  |  |
| Aucun | 798 (19%) | 1,313 (29%) | 3,415 (38%) | 5,125 (52%) |
| Maternelle | 107 (2.6%) | 141 (3.2%) | 211 (2.3%) | 200 (2.0%) |
| Primaire | 1,238 (30%) | 1,500 (34%) | 3,376 (37%) | 3,350 (34%) |
| Second. gl 1 | 992 (24%) | 1,004 (22%) | 1,570 (17%) | 1,015 (10%) |
| Second. tech. 1 | 15 (0.4%) | 10 (0.2%) | 5 (<0.1%) | 1 (<0.1%) |
| Second. gl 2 | 439 (11%) | 246 (5.5%) | 325 (3.6%) | 127 (1.3%) |
| Second. tech. 2 | 139 (3.4%) | 70 (1.6%) | 40 (0.4%) | 8 (<0.1%) |
| Postsecondaire | 51 (1.2%) | 42 (0.9%) | 10 (0.1%) | 4 (<0.1%) |
| Superieur | 343 (8.3%) | 141 (3.2%) | 90 (1.0%) | 18 (0.2%) |
| Valeurs manquantes | 1 | 0 | 0 | 0 |
| Âge en année | 23 (18) | 25 (19) | 22 (19) | 23 (20) |
| Individu accès à internet |  |  |  |  |
| Non | 2,892 (70%) | 3,587 (80%) | 8,657 (96%) | 9,687 (98%) |
| Oui | 1,231 (30%) | 880 (20%) | 385 (4.3%) | 161 (1.6%) |
| Individu couverture maladie |  |  |  |  |
| Non | 3,780 (92%) | 4,177 (94%) | 8,740 (97%) | 9,582 (97%) |
| Oui | 343 (8.3%) | 290 (6.5%) | 302 (3.3%) | 266 (2.7%) |
| Dormir la dernière nuit sous une moustiquaire |  |  |  |  |
| Non | 1,519 (37%) | 1,548 (35%) | 2,133 (24%) | 2,138 (22%) |
| Oui | 2,604 (63%) | 2,919 (65%) | 6,909 (76%) | 7,710 (78%) |
| *1*n (%); Mean (SD) | | | | |

## Tableau statistique sur la base individu sans poibs en fonction de la region de residence

tableau3 <- data\_individu %>%  
 labelled::to\_factor() %>%   
 select(region, bank, mstat, alfab, diplome, educ\_hi, age, internet, couvmal, moustiq) %>% # Sélectionner les variables  
 tbl\_summary(  
 by = region,  
 label = list(  
 mstat ~ "Situation de famille",  
 bank ~ "Compte bancaire ou autre",  
 alfab ~ "Alphabétisation",  
 diplome ~ "Diplôme plus élevé",  
 educ\_hi ~ "Niveau d'éducation achevé",  
 age ~ "Âge en année",  
 internet ~ "Individu accès à internet",  
 couvmal ~ "Individu couverture maladie",  
 moustiq ~ "Dormir la dernière nuit sous une moustiquaire"),  
 statistic = list(age ~ "{mean} ({sd})"),  
 digits = everything() ~ c(0),   
 missing = "always",   
 missing\_text = "Valeurs manquantes") %>%  
 modify\_header(label = "Statistiques sur les individus")   
  
tableau3

| Statistiques sur les individus | **Maritime** N = 3,764*1* | **Plateaux** N = 4,796*1* | **Centrale** N = 3,751*1* | **Kara** N = 4,929*1* | **Savanes** N = 6,509*1* | **Lomé commune** N = 3,733*1* |
| --- | --- | --- | --- | --- | --- | --- |
| Compte bancaire ou autre |  |  |  |  |  |  |
| Non | 3,070 (82%) | 4,128 (86%) | 3,297 (88%) | 4,351 (88%) | 6,028 (93%) | 2,600 (70%) |
| Oui | 694 (18%) | 668 (14%) | 454 (12%) | 578 (12%) | 481 (7%) | 1,133 (30%) |
| Valeurs manquantes | 0 | 0 | 0 | 0 | 0 | 0 |
| Situation de famille |  |  |  |  |  |  |
| Célibataire | 2,255 (60%) | 2,851 (59%) | 2,301 (61%) | 2,936 (60%) | 4,041 (62%) | 2,332 (63%) |
| Marié(e) monogame | 839 (22%) | 1,123 (23%) | 914 (24%) | 1,050 (21%) | 1,481 (23%) | 916 (25%) |
| Marié(e) polygame | 282 (7%) | 411 (9%) | 294 (8%) | 494 (10%) | 586 (9%) | 118 (3%) |
| Union libre | 71 (2%) | 92 (2%) | 18 (0%) | 46 (1%) | 65 (1%) | 97 (3%) |
| Veuf(ve) | 207 (5%) | 202 (4%) | 157 (4%) | 290 (6%) | 290 (4%) | 151 (4%) |
| Divorcé(e) | 20 (1%) | 42 (1%) | 22 (1%) | 41 (1%) | 24 (0%) | 33 (1%) |
| Séparé(e) | 90 (2%) | 75 (2%) | 45 (1%) | 72 (1%) | 22 (0%) | 84 (2%) |
| Valeurs manquantes | 0 | 0 | 0 | 0 | 0 | 2 |
| Alphabétisation |  |  |  |  |  |  |
| Non | 1,535 (41%) | 2,109 (44%) | 1,734 (46%) | 2,396 (49%) | 3,980 (61%) | 882 (24%) |
| Oui | 2,229 (59%) | 2,687 (56%) | 2,017 (54%) | 2,533 (51%) | 2,529 (39%) | 2,851 (76%) |
| Valeurs manquantes | 0 | 0 | 0 | 0 | 0 | 0 |
| Diplôme plus élevé |  |  |  |  |  |  |
| Aucun | 2,683 (71%) | 3,662 (76%) | 2,745 (73%) | 3,600 (73%) | 5,465 (84%) | 1,850 (50%) |
| CEPE / CEPD | 759 (20%) | 839 (17%) | 725 (19%) | 909 (18%) | 795 (12%) | 895 (24%) |
| bepc | 227 (6%) | 214 (4%) | 195 (5%) | 254 (5%) | 171 (3%) | 458 (12%) |
| cap | 3 (0%) | 10 (0%) | 17 (0%) | 15 (0%) | 11 (0%) | 16 (0%) |
| bt | 2 (0%) | 5 (0%) | 1 (0%) | 4 (0%) | 2 (0%) | 4 (0%) |
| bac | 53 (1%) | 49 (1%) | 43 (1%) | 88 (2%) | 37 (1%) | 280 (8%) |
| DEUG, DUT, BTS | 11 (0%) | 4 (0%) | 7 (0%) | 12 (0%) | 4 (0%) | 56 (2%) |
| Licence | 19 (1%) | 7 (0%) | 8 (0%) | 31 (1%) | 21 (0%) | 104 (3%) |
| Maitrise | 3 (0%) | 6 (0%) | 8 (0%) | 15 (0%) | 3 (0%) | 36 (1%) |
| Master/DEA/DESS | 4 (0%) | 0 (0%) | 2 (0%) | 1 (0%) | 0 (0%) | 21 (1%) |
| Doctorat/Phd | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 13 (0%) |
| Valeurs manquantes | 0 | 0 | 0 | 0 | 0 | 0 |
| Niveau d'éducation achevé |  |  |  |  |  |  |
| Aucun | 1,272 (34%) | 1,857 (39%) | 1,381 (37%) | 2,009 (41%) | 3,371 (52%) | 763 (20%) |
| Maternelle | 76 (2%) | 77 (2%) | 91 (2%) | 148 (3%) | 159 (2%) | 108 (3%) |
| Primaire | 1,489 (40%) | 1,862 (39%) | 1,402 (37%) | 1,552 (31%) | 2,024 (31%) | 1,135 (30%) |
| Second. gl 1 | 697 (19%) | 763 (16%) | 636 (17%) | 855 (17%) | 746 (11%) | 884 (24%) |
| Second. tech. 1 | 1 (0%) | 2 (0%) | 3 (0%) | 5 (0%) | 6 (0%) | 14 (0%) |
| Second. gl 2 | 146 (4%) | 174 (4%) | 158 (4%) | 197 (4%) | 146 (2%) | 316 (8%) |
| Second. tech. 2 | 21 (1%) | 27 (1%) | 37 (1%) | 40 (1%) | 16 (0%) | 116 (3%) |
| Postsecondaire | 7 (0%) | 5 (0%) | 8 (0%) | 18 (0%) | 6 (0%) | 63 (2%) |
| Superieur | 55 (1%) | 29 (1%) | 35 (1%) | 105 (2%) | 35 (1%) | 333 (9%) |
| Valeurs manquantes | 0 | 0 | 0 | 0 | 0 | 1 |
| Âge en année | 24 (20) | 23 (19) | 23 (19) | 23 (20) | 22 (19) | 25 (18) |
| Valeurs manquantes | 0 | 0 | 0 | 0 | 0 | 2 |
| Individu accès à internet |  |  |  |  |  |  |
| Non | 3,478 (92%) | 4,528 (94%) | 3,432 (91%) | 4,635 (94%) | 6,288 (97%) | 2,464 (66%) |
| Oui | 286 (8%) | 268 (6%) | 319 (9%) | 294 (6%) | 221 (3%) | 1,269 (34%) |
| Valeurs manquantes | 0 | 0 | 0 | 0 | 0 | 0 |
| Individu couverture maladie |  |  |  |  |  |  |
| Non | 3,664 (97%) | 4,696 (98%) | 3,633 (97%) | 4,587 (93%) | 6,242 (96%) | 3,459 (93%) |
| Oui | 100 (3%) | 100 (2%) | 118 (3%) | 342 (7%) | 267 (4%) | 274 (7%) |
| Valeurs manquantes | 0 | 0 | 0 | 0 | 0 | 0 |
| Dormir la dernière nuit sous une moustiquaire |  |  |  |  |  |  |
| Non | 1,124 (30%) | 1,066 (22%) | 874 (23%) | 1,146 (23%) | 1,285 (20%) | 1,845 (49%) |
| Oui | 2,640 (70%) | 3,730 (78%) | 2,877 (77%) | 3,783 (77%) | 5,224 (80%) | 1,888 (51%) |
| Valeurs manquantes | 0 | 0 | 0 | 0 | 0 | 0 |
| *1*n (%); Mean (SD) | | | | | | |

## Tableau statistique de la base individu avec ponderation

# Étape 1 : Convertissons les variables en facteurs pour créer un objet de conception  
tableau4<- data\_individu %>%  
 labelled::to\_factor() %>%  
 select(mstat, alfab, diplome, educ\_hi, age, internet, couvmal, moustiq, hhweight) -> data\_processed  
  
# Créons l'objet de conception avec les poids  
pondere <- svydesign(ids = ~1, data = data\_processed, weights = ~hhweight)  
  
# Étape 2 : avec l'objet pondere on génére un résumé pondéré  
pondere %>%  
 tbl\_svysummary(  
 label = list(  
 mstat ~ "Situation de famille",   
 alfab ~ "Alphabetisation",  
 diplome ~ "Diplome plus élevé",  
 educ\_hi ~ "Niveau d'éducation achevé",   
 age ~ "Age en année",   
 internet ~ "Individu accès a internet",   
 couvmal ~ "Individu couverture maladie",   
 moustiq ~ "Dormir la dernière nuit sous une moustiquaire"),  
 statistic = list(age ~ "{mean} ({sd})"),  
 digits = everything() ~ c(0),   
 missing = "always",  
 missing\_text = "valeurs manquantes") %>%  
 modify\_header(label = "Statistiques sur lces individus")

| Statistiques sur lces individus | **N = 7,662,764***1* |
| --- | --- |
| Situation de famille |  |
| Célibataire | 4,677,347 (61%) |
| Marié(e) monogame | 1,770,846 (23%) |
| Marié(e) polygame | 551,974 (7%) |
| Union libre | 128,356 (2%) |
| Veuf(ve) | 349,193 (5%) |
| Divorcé(e) | 55,475 (1%) |
| Séparé(e) | 127,446 (2%) |
| valeurs manquantes | 2,127 |
| Alphabetisation |  |
| Non | 3,154,109 (41%) |
| Oui | 4,508,655 (59%) |
| valeurs manquantes | 0 |
| Diplome plus élevé |  |
| Aucun | 5,270,727 (69%) |
| CEPE / CEPD | 1,467,347 (19%) |
| bepc | 505,217 (7%) |
| cap | 20,995 (0%) |
| bt | 7,199 (0%) |
| bac | 226,510 (3%) |
| DEUG, DUT, BTS | 39,513 (1%) |
| Licence | 77,926 (1%) |
| Maitrise | 27,309 (0%) |
| Master/DEA/DESS | 13,564 (0%) |
| Doctorat/Phd | 6,457 (0%) |
| valeurs manquantes | 0 |
| Niveau d'éducation achevé |  |
| Aucun | 2,687,414 (35%) |
| Maternelle | 180,363 (2%) |
| Primaire | 2,646,318 (35%) |
| Second. gl 1 | 1,374,399 (18%) |
| Second. tech. 1 | 9,611 (0%) |
| Second. gl 2 | 372,738 (5%) |
| Second. tech. 2 | 96,703 (1%) |
| Postsecondaire | 47,133 (1%) |
| Superieur | 247,594 (3%) |
| valeurs manquantes | 492 |
| Age en année | 23 (19) |
| valeurs manquantes | 2,127 |
| Individu accès a internet |  |
| Non | 6,627,539 (86%) |
| Oui | 1,035,225 (14%) |
| valeurs manquantes | 0 |
| Individu couverture maladie |  |
| Non | 7,301,111 (95%) |
| Oui | 361,653 (5%) |
| valeurs manquantes | 0 |
| Dormir la dernière nuit sous une moustiquaire |  |
| Non | 2,368,297 (31%) |
| Oui | 5,294,467 (69%) |
| valeurs manquantes | 0 |
| Ponderation menage | 328 (204, 492) |
| valeurs manquantes | 0 |
| *1*n (%); Mean (SD); Median (Q1, Q3) | |

tableau4

## # A tibble: 27,482 × 9  
## mstat alfab diplome educ\_hi age internet couvmal moustiq hhweight  
## <fct> <fct> <fct> <fct> <dbl> <fct> <fct> <fct> <dbl>  
## 1 Veuf(ve) Oui Aucun Aucun 89 Non Oui Non 598.  
## 2 Célibataire Oui bepc Second… 28 Oui Non Non 598.  
## 3 Célibataire Oui bac Second… 28 Oui Non Non 598.  
## 4 Marié(e) monog… Oui bepc Second… 38 Oui Non Oui 598.  
## 5 Marié(e) polyg… Oui Aucun Primai… 54 Non Non Non 598.  
## 6 Célibataire Oui CEPE /… Second… 18 Oui Non Non 598.  
## 7 Célibataire Oui bepc Second… 28 Oui Non Non 598.  
## 8 Veuf(ve) Oui bepc Second… 51 Non Non Oui 598.  
## 9 Célibataire Oui bac Postse… 25 Non Non Oui 598.  
## 10 Célibataire Oui DEUG, … Postse… 28 Oui Oui Non 598.  
## # ℹ 27,472 more rows

# Statistiques avec la base menage

## Tableau Statistiques descriptives avec la base menage

tableau1\_m <-data\_menage %>%   
 labelled::to\_factor()%>%  
 select (logem,eauboi\_ss, eauboi\_sp, elec\_ac, elec\_ur, elec\_ua, car, toit, mur, superf,grosrum,petitrum)%>%   
 tbl\_summary(  
 label = list(logem ~"Type de logement",   
 eauboi\_ss ~"eau potable saison seche",  
 eauboi\_sp ~"eau potable saison des pluies",  
 elec\_ac~ "acces reseau electrique",  
 elec\_ua~ "utilise reseau electrique",  
 elec\_ua~ "utiliese reseau solaire",  
 car ~ "Menage a voiture",  
 toit ~"toit du chef de manage",   
 mur~ "mur de la maison",   
 superf ~"superficie",   
 grosrum ~"gros rumunants",   
 petitrum ~ "pétits rumunants"),   
 statistic = list(superf~"{mean} ({sd}",petitrum~ "{mean} ({sd})", grosrum ~ "{mean} ({sd})"),  
 digits = everything()~c(0,0,0),  
 missing = "always",  
 missing\_text = "valeurs manquantes")%>%modify\_header(label= "Caracteristique de l'habitat du CM")  
  
tableau1\_m

| Caracteristique de l'habitat du CM | **N = 6,171***1* |
| --- | --- |
| Type de logement |  |
| Proprietaire titre | 558 (9%) |
| Proprietaire sans titre | 2,544 (41%) |
| Locataire | 1,487 (24%) |
| Autre | 1,582 (26%) |
| valeurs manquantes | 0 |
| eau potable saison seche |  |
| Non | 2,190 (35%) |
| Oui | 3,981 (65%) |
| valeurs manquantes | 0 |
| eau potable saison des pluies |  |
| Non | 2,698 (44%) |
| Oui | 3,473 (56%) |
| valeurs manquantes | 0 |
| acces reseau electrique |  |
| Non | 4,354 (71%) |
| Oui | 1,817 (29%) |
| valeurs manquantes | 0 |
| Utilise elec. reseau |  |
| Non | 3,606 (58%) |
| Oui | 2,565 (42%) |
| valeurs manquantes | 0 |
| utiliese reseau solaire |  |
| Non | 5,818 (94%) |
| Oui | 353 (6%) |
| valeurs manquantes | 0 |
| Menage a voiture |  |
| Non | 6,054 (98%) |
| Oui | 117 (2%) |
| valeurs manquantes | 0 |
| toit du chef de manage |  |
| Non | 611 (10%) |
| Oui | 5,560 (90%) |
| valeurs manquantes | 0 |
| mur de la maison |  |
| Non | 1,256 (20%) |
| Oui | 4,915 (80%) |
| valeurs manquantes | 0 |
| superficie | 3 (24 |
| valeurs manquantes | 2,676 |
| gros rumunants | 2 (14) |
| valeurs manquantes | 3,575 |
| pétits rumunants | 6 (9) |
| valeurs manquantes | 3,575 |
| *1*n (%); Mean (SD; Mean (SD) | |

# Fusion des deux bases

data\_fusion <- dplyr::left\_join(data\_individu, data\_menage, by = "hhid")

## Structure de la base fusionnée

utils::str(data\_fusion)

## tibble [27,482 × 85] (S3: tbl\_df/tbl/data.frame)  
## $ country.x : chr [1:27482] "TGO" "TGO" "TGO" "TGO" ...  
## ..- attr(\*, "label")= chr "Pays"  
## ..- attr(\*, "format.stata")= chr "%3s"  
## $ year : num [1:27482] 2018 2018 2018 2018 2018 ...  
## ..- attr(\*, "label")= chr "Annee enquete"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ vague : num [1:27482] 1 1 1 1 1 1 1 1 1 1 ...  
## ..- attr(\*, "label")= chr "Vague"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ hhid : num [1:27482] 101 101 101 103 104 104 104 105 105 106 ...  
## ..- attr(\*, "label")= chr "Idenfiant menage"  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ grappe : num [1:27482] 1 1 1 1 1 1 1 1 1 1 ...  
## ..- attr(\*, "label")= chr "Numero de grappe"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ menage : num [1:27482] 1 1 1 3 4 4 4 5 5 6 ...  
## ..- attr(\*, "label")= chr "Numero du menage"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ numind : num [1:27482] 1 2 4 1 1 2 3 1 2 1 ...  
## ..- attr(\*, "label")= chr "Numero individu"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ zae : dbl+lbl [1:27482] 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5...  
## ..@ label : chr "Zone agroecologique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:5] 1 2 3 4 5  
## .. ..- attr(\*, "names")= chr [1:5] "Zone des plaines du nord" "Zone des montagnes du nord" "Zone des plaines du centre" "Zone cotiere du sud" ...  
## $ region : dbl+lbl [1:27482] 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6...  
## ..@ label : chr "Region residence"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:6] 1 2 3 4 5 6  
## .. ..- attr(\*, "names")= chr [1:6] "Maritime" "Plateaux" "Centrale" "Kara" ...  
## $ sousregion : dbl+lbl [1:27482] 602, 602, 602, 602, 602, 602, 602, 602, 602, 602, 60...  
## ..@ label : chr "Prefecture residence"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:41] 101 102 103 104 105 106 107 201 202 203 ...  
## .. ..- attr(\*, "names")= chr [1:41] "golfe" "lacs" "BAS-MONO" "vo" ...  
## $ milieu : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Milieu residence"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 1 2  
## .. ..- attr(\*, "names")= chr [1:2] "Urbain" "Rural"  
## $ hhweight : num [1:27482] 598 598 598 598 598 ...  
## ..- attr(\*, "label")= chr "Ponderation menage"  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ resid : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Resident"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sexe : dbl+lbl [1:27482] 1, 1, 1, 1, 2, 2, 2, 2, 1, 1, 1, 2, 2, 2, 2, 2, 1, 1...  
## ..@ label : chr "Genre"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 1 2  
## .. ..- attr(\*, "names")= chr [1:2] "Masculin" "Féminin"  
## $ age : num [1:27482] 89 28 28 38 54 18 28 51 25 28 ...  
## ..- attr(\*, "label")= chr "Age en annees"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ lien : dbl+lbl [1:27482] 1, 9, 9, 1, 1, 3, 3, 1, 3, 1, 1, 2, 3, 3, 1, 3, 1, 1...  
## ..@ label : chr "Lien de parente"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:10] 1 2 3 4 5 6 7 8 9 10  
## .. ..- attr(\*, "names")= chr [1:10] "Chef de ménage" "Conjoint ( e )" "Fils, Fille" "Père, Mère" ...  
## $ mstat : dbl+lbl [1:27482] 5, 1, 1, 2, 3, 1, 1, 5, 1, 1, 2, 2, 1, 1, 6, 1, 7, 2...  
## ..@ label : chr "Situation de famille"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:7] 1 2 3 4 5 6 7  
## .. ..- attr(\*, "names")= chr [1:7] "Célibataire" "Marié(e) monogame" "Marié(e) polygame" "Union libre" ...  
## $ religion : dbl+lbl [1:27482] 2, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 5, 5, 2, 2...  
## ..@ label : chr "Religion"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:5] 1 2 3 4 5  
## .. ..- attr(\*, "names")= chr [1:5] "Musulman" "Chrétien" "Animiste" "Autre Réligion" ...  
## $ nation : dbl+lbl [1:27482] 8, 8, 8, 6, 8, 8, 8, 8, 8, 8, 8, 8, 8, ...  
## ..@ label : chr "Nationalité"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:12] 1 2 3 4 5 6 7 8 9 10 ...  
## .. ..- attr(\*, "names")= chr [1:12] "Benin" "Burkina Faso" "Côte d'Ivoire" "Guinée Bissau" ...  
## $ agemar : num [1:27482] NA NA NA 32 22 NA NA 20 NA NA ...  
## ..- attr(\*, "label")= chr "Age premier marriage"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ mal30j : dbl+lbl [1:27482] 1, 0, 1, 1, 1, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0...  
## ..@ label : chr "Prob. sante 30 dern. jours"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ aff30j : dbl+lbl [1:27482] 1, NA, 1, 1, 11, 11, NA, NA, NA, NA, NA, 14, NA, ...  
## ..@ label : chr "probleme sante"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:14] 1 2 3 4 5 6 7 8 9 10 ...  
## .. ..- attr(\*, "names")= chr [1:14] "Fièvre/Paludisme" "Diarrhée" "Accident/Blessure" "Problème dentaire" ...  
## $ arrmal : dbl+lbl [1:27482] 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Arret activite pour maladie"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ durarr : dbl+lbl [1:27482] 3, NA, 3, NA, NA, NA, NA, NA, NA, NA, NA, 2, NA, ...  
## ..@ label : chr "Duree arret activite pour maladie"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "Moins d'une semaine" "Entre une et deux semaines" "Plus de deux semaines"  
## $ con30j : dbl+lbl [1:27482] 0, NA, 1, 0, 0, 1, NA, NA, NA, NA, NA, 1, NA, ...  
## ..@ label : chr "Consulte 30 dern. jours"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ hos12m : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Hospitalisation 12 der. mois"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ couvmal : dbl+lbl [1:27482] 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1...  
## ..@ label : chr "Indivu couverture maladie"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ moustiq : dbl+lbl [1:27482] 0, 0, 0, 1, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 1, 1, 0, 0...  
## ..@ label : chr "Dormi moustiquire nuit dern."  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ handit : dbl+lbl [1:27482] 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, ...  
## ..@ label : chr "Handicap tout niveau"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ handig : dbl+lbl [1:27482] 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, ...  
## ..@ label : chr "Handicap majeur seul"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ alfab : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Alphabetisation"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ scol : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 1, 1, 0, 1, 0, 0...  
## ..@ label : chr "Freq. ecole 2017/18"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ educ\_scol : dbl+lbl [1:27482] NA, NA, NA, NA, NA, 3, 5, NA, NA, NA, NA, NA, 2, ...  
## ..@ label : chr "Niv. educ. actuel"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:8] 1 2 3 4 5 6 7 8  
## .. ..- attr(\*, "names")= chr [1:8] "Maternelle" "Primaire" "Secondaire 1 (Post Primaire) générale" "Secondaire 1 (Post Primaire) technique" ...  
## $ educ\_hi : dbl+lbl [1:27482] 1, 6, 6, 6, 3, 4, 6, 4, 8, 8, 1, 4, 3, 3, 3, 4, 9, 9...  
## ..@ label : chr "Niv. educ. acheve"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:9] 1 2 3 4 5 6 7 8 9  
## .. ..- attr(\*, "names")= chr [1:9] "Aucun" "Maternelle" "Primaire" "Second. gl 1" ...  
## $ diplome : dbl+lbl [1:27482] 0, 2, 5, 2, 0, 1, 2, 2, 5, 6, 0, 1, 0, ...  
## ..@ label : chr "Diplome plus eleve"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:11] 0 1 2 3 4 5 6 7 8 9 ...  
## .. ..- attr(\*, "names")= chr [1:11] "Aucun" "CEPE / CEPD" "bepc" "cap" ...  
## $ telpor : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 0, 0, 1, 0, 1, 1...  
## ..@ label : chr "Individu a telephone portable"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ internet : dbl+lbl [1:27482] 0, 1, 1, 1, 0, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1...  
## ..@ label : chr "Individu a acces internet"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ activ7j : dbl+lbl [1:27482] 5, 5, 1, 1, 1, 5, 5, 1, 2, 1, 1, 1, 5, 5, 1, 5, 5, 1...  
## ..@ label : chr "Situation activite 7 derniers jours"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:6] 1 2 3 4 5 6  
## .. ..- attr(\*, "names")= chr [1:6] "Occupe" "Chomeur" "TF cherchant emploi" "TF cherchant pas" ...  
## $ activ12m : dbl+lbl [1:27482] 3, 3, 1, 1, 1, 3, 3, 1, 3, 1, 1, 1, 3, 3, 1, 3, 3, 1...  
## ..@ label : chr "Situation activite 12 derniers mois"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Occupe" "Trav. fam." "Non occupe" "Moins de 5 ans"  
## $ branch : dbl+lbl [1:27482] NA, NA, 8, 10, 11, NA, NA, 4, NA, 8, 10, 4, NA, ...  
## ..@ label : chr "Branche activite"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:11] 1 2 3 4 5 6 7 8 9 10 ...  
## .. ..- attr(\*, "names")= chr [1:11] "Agriculture" "Elevage/peche" "Indust. extr." "Autr. indust." ...  
## $ sectins : dbl+lbl [1:27482] NA, NA, 3, 3, 2, NA, NA, 3, NA, 2, 3, 3, NA, ...  
## ..@ label : chr "Sect. institutionnel empl. prin."  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:6] 1 2 3 4 5 6  
## .. ..- attr(\*, "names")= chr [1:6] "Etat/Collectivités locales" "Entreprise publique/ parapublique" "Entreprise Privée" "Entreprise associative" ...  
## $ csp : dbl+lbl [1:27482] NA, NA, 9, 9, 4, NA, NA, 9, NA, 2, 9, 9, NA, ...  
## ..@ label : chr "CSP empl. prin."  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:10] 1 2 3 4 5 6 7 8 9 10  
## .. ..- attr(\*, "names")= chr [1:10] "Cadre supérieur" "Cadre moyen/agent de maîtrise" "Ouvrier ou employé qualifié" "Ouvrier ou employé non qualifié" ...  
## $ volhor : num [1:27482] NA NA 600 875 NA ...  
## ..- attr(\*, "label")= chr "Horaire an. travail empl. prin."  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ salaire : num [1:27482] NA NA NA NA 0 NA NA NA NA 3420000 ...  
## ..- attr(\*, "label")= chr "Salaire an. empl. prin."  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ emploi\_sec : dbl+lbl [1:27482] 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "A un emploi secondaire 12 mois"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sectins\_sec : dbl+lbl [1:27482] NA, NA, NA, NA, 3, NA, NA, NA, NA, NA, 6, NA, NA, ...  
## ..@ label : chr "Secteur instit. emploi sec."  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:6] 1 2 3 4 5 6  
## .. ..- attr(\*, "names")= chr [1:6] "Etat/Collectivités locales" "Entreprise publique/ parapublique" "Entreprise privée" "Entreprise associative" ...  
## $ csp\_sec : dbl+lbl [1:27482] NA, NA, NA, NA, 9, NA, NA, NA, NA, NA, 4, NA, NA, ...  
## ..@ label : chr "CSP emploi sec."  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:10] 1 2 3 4 5 6 7 8 9 10  
## .. ..- attr(\*, "names")= chr [1:10] "Cadre supérieur" "Cadre moyen/agent de maîtrise" "Ouvrier ou employé qualifié" "Ouvrier ou employé non qualifié" ...  
## $ volhor\_sec : num [1:27482] NA NA NA NA 720 NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Horaire an. travail emploi sec."  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ salaire\_sec : num [1:27482] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Salaire an. emploi sec."  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ bank : dbl+lbl [1:27482] 1, 1, 1, 0, 0, 0, 0, 1, 0, 1, 0, 1, 0, 0, 1, 0, 0, 1...  
## ..@ label : chr "compte banque ou autre"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ serviceconsult: dbl+lbl [1:27482] 4, NA, 1, 4, 4, 1, NA, NA, NA, NA, NA, 1, NA, ...  
## ..@ label : chr "Service de santé consulté"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Hôpital/Clinique" "Dispensaire" "Autres" "Pas de consultation"  
## $ persconsult : dbl+lbl [1:27482] 4, NA, 2, 4, 4, 2, NA, NA, NA, NA, NA, 1, NA, ...  
## ..@ label : chr "Personnel de santé consulté"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Médecin" "Infirmier" "Autres" "Pas de consultation"  
## $ country.y : chr [1:27482] "TGO" "TGO" "TGO" "TGO" ...  
## ..- attr(\*, "format.stata")= chr "%3s"  
## $ logem : dbl+lbl [1:27482] 1, 1, 1, 3, 3, 3, 3, 3, 3, 4, 3, 3, 3, 3, 3, 3, 1, 3...  
## ..@ label : chr "Occupation logement"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Proprietaire titre" "Proprietaire sans titre" "Locataire" "Autre"  
## $ mur : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Mur en materiaux definitifs"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ toit : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "toit en materiaux definitifs"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sol : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Sol en materiaux definitifs"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ eauboi\_ss : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "eau potable saison seche"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ eauboi\_sp : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "eau potable saison pluie"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ elec\_ac : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Acces reseau electrique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ elec\_ur : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Utilise elec. reseau"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ elec\_ua : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Utilise elec. solaire/groupe"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ ordure : dbl+lbl [1:27482] 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1...  
## ..@ label : chr "Déchets évacués sainement"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ toilet : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Toilettes saines"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ eva\_toi : dbl+lbl [1:27482] 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 0, 0, 0, 0, 1, 1, 1, 1...  
## ..@ label : chr "Excréments évacués sainement"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ eva\_eau : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1...  
## ..@ label : chr "Eaux usées évacuées sainement"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ tv : dbl+lbl [1:27482] 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...  
## ..@ label : chr "Menage a TV"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ fer : dbl+lbl [1:27482] 1, 1, 1, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 1, 1, 1...  
## ..@ label : chr "Menage a fer electrique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ frigo : dbl+lbl [1:27482] 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 1...  
## ..@ label : chr "Menage a frigo/congel"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ cuisin : dbl+lbl [1:27482] 1, 1, 1, 0, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1...  
## ..@ label : chr "Menage a cuisiniere elec/gaz"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ ordin : dbl+lbl [1:27482] 1, 1, 1, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Menage a ordinateur"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ decod : dbl+lbl [1:27482] 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 1...  
## ..@ label : chr "Menage a decodeur/antenne"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ car : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1...  
## ..@ label : chr "Menage a voiture"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ superf : num [1:27482] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Superficie agricole"  
## ..- attr(\*, "format.stata")= chr "%12.0g"  
## $ grosrum : num [1:27482] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Nbr gros ruminants"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ petitrum : num [1:27482] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Nbr petits ruminants"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ porc : num [1:27482] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Nbr porcs"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ lapin : num [1:27482] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Nbr lapins"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ volail : num [1:27482] NA NA NA NA NA NA NA NA NA NA ...  
## ..- attr(\*, "label")= chr "Nbr volailles"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ sh\_id\_demo : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Choc idio démographique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sh\_co\_natu : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Choc covariant naturel"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sh\_co\_eco : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Choc covariant économique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sh\_id\_eco : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 1, 1, 1, 1, 0, 0, 0, 0...  
## ..@ label : chr "Choc idio économique"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sh\_co\_vio : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Choc covariant violence"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ sh\_co\_oth : dbl+lbl [1:27482] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...  
## ..@ label : chr "Autres Chocs"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"

## Tableau statistique avec la base fusionnée

# Statistiques descriptives sur la base fusionnée  
tableau\_fusion1 <- data\_fusion %>%  
 labelled::to\_factor() %>%  
 select(sexe, age, internet, couvmal, moustiq, logem, eauboi\_ss, elec\_ac, superf)%>%  
tbl\_summary(   
 label = list(  
 sexe ~ "Sexe",  
 age ~ "Âge en années",  
 internet ~ "individu accès à internet",  
 couvmal ~ "Individu couverture maladie",  
 moustiq ~ "Dormir la dernière nuit sous une moustiquaire",  
 logem ~ "Type de logement",  
 eauboi\_ss ~ "eau potable en saison sèche",  
 elec\_ac ~ "Accès au réseau électrique",  
 superf ~ "Superficie"),  
 statistic = list(all\_continuous() ~ "{mean} ({sd})"),  
 digits = list(all\_continuous() ~ 0),  
 missing = "always",  
 missing\_text = "Valeurs manquantes") %>%  
 modify\_header(label = "Statistiques descriptives sur la base fusionnée")  
  
tableau\_fusion1

| Statistiques descriptives sur la base fusionnée | **N = 27,482***1* |
| --- | --- |
| Sexe |  |
| Masculin | 13,165 (48%) |
| Féminin | 14,315 (52%) |
| Valeurs manquantes | 2 |
| Âge en années | 23 (19) |
| Valeurs manquantes | 2 |
| individu accès à internet |  |
| Non | 24,825 (90%) |
| Oui | 2,657 (9.7%) |
| Valeurs manquantes | 0 |
| Individu couverture maladie |  |
| Non | 26,281 (96%) |
| Oui | 1,201 (4.4%) |
| Valeurs manquantes | 0 |
| Dormir la dernière nuit sous une moustiquaire |  |
| Non | 7,340 (27%) |
| Oui | 20,142 (73%) |
| Valeurs manquantes | 0 |
| Type de logement |  |
| Proprietaire titre | 2,902 (11%) |
| Proprietaire sans titre | 13,731 (50%) |
| Locataire | 4,776 (17%) |
| Autre | 6,073 (22%) |
| Valeurs manquantes | 0 |
| eau potable en saison sèche |  |
| Non | 10,153 (37%) |
| Oui | 17,329 (63%) |
| Valeurs manquantes | 0 |
| Accès au réseau électrique |  |
| Non | 20,340 (74%) |
| Oui | 7,142 (26%) |
| Valeurs manquantes | 0 |
| Superficie | 3 (19) |
| Valeurs manquantes | 9,274 |
| *1*n (%); Mean (SD) | |

## Tableau statistiques de la base fusionnée stratefié par sexe

tableau\_stratifie <- data\_fusion %>%  
 labelled::to\_factor() %>%  
 select( sexe, age, internet, couvmal, moustiq, logem, eauboi\_ss, elec\_ac, superf)%>%  
 tbl\_summary(  
 by = sexe,  
 label = list(  
 age ~ "Âge en années",  
 internet ~ "individu accès à internet",  
 couvmal ~ "Individu couverture maladie",  
 moustiq ~ "Dormir la nuit dernière sous une moustiquaire",  
 logem ~ "Type de logement",  
 eauboi\_ss ~ "Eau potable en saison sèche",  
 elec\_ac ~ "Accès au réseau électrique",  
 superf ~ "Superficie"  
 ),  
 statistic = list(all\_continuous() ~ "{mean} ({sd})"),  
 digits = list(all\_continuous() ~ 0),  
 missing = "always",  
 missing\_text = "Valeurs manquantes"  
 ) %>%  
 modify\_header(label = "Statistiques stratifiées par sexe")

## 2 missing rows in the "sexe" column have been removed.

tableau\_stratifie

| Statistiques stratifiées par sexe | **Masculin** N = 13,165*1* | **Féminin** N = 14,315*1* |
| --- | --- | --- |
| Âge en années | 22 (19) | 24 (20) |
| Valeurs manquantes | 0 | 0 |
| individu accès à internet |  |  |
| Non | 11,549 (88%) | 13,274 (93%) |
| Oui | 1,616 (12%) | 1,041 (7.3%) |
| Valeurs manquantes | 0 | 0 |
| Individu couverture maladie |  |  |
| Non | 12,520 (95%) | 13,759 (96%) |
| Oui | 645 (4.9%) | 556 (3.9%) |
| Valeurs manquantes | 0 | 0 |
| Dormir la nuit dernière sous une moustiquaire |  |  |
| Non | 3,652 (28%) | 3,686 (26%) |
| Oui | 9,513 (72%) | 10,629 (74%) |
| Valeurs manquantes | 0 | 0 |
| Type de logement |  |  |
| Proprietaire titre | 1,364 (10%) | 1,536 (11%) |
| Proprietaire sans titre | 6,654 (51%) | 7,077 (49%) |
| Locataire | 2,328 (18%) | 2,448 (17%) |
| Autre | 2,819 (21%) | 3,254 (23%) |
| Valeurs manquantes | 0 | 0 |
| Eau potable en saison sèche |  |  |
| Non | 4,930 (37%) | 5,223 (36%) |
| Oui | 8,235 (63%) | 9,092 (64%) |
| Valeurs manquantes | 0 | 0 |
| Accès au réseau électrique |  |  |
| Non | 9,748 (74%) | 10,592 (74%) |
| Oui | 3,417 (26%) | 3,723 (26%) |
| Valeurs manquantes | 0 | 0 |
| Superficie | 3 (20) | 3 (19) |
| Valeurs manquantes | 4,330 | 4,942 |
| *1*Mean (SD); n (%) | | |

## Croisement de quelques variables

### Croisement de la variabe internet et region

# Cet tableau fait voir l'accès a internet selon les regions   
  
tableau\_croise1 <- data\_fusion %>%  
 labelled::to\_factor() %>%  
 tbl\_cross(row = region,   
 col = internet,   
 percent = "row",   
 label = list(region ~ "Region de residence",  
 internet ~ "Accès à internet"),  
 missing = "always",  
 missing\_text = "Valeurs manquantes") %>%  
 modify\_header(  
 label = "\*\*Accès à internet et region de residence\*\*",  
 stat\_0 = "\*\*Effectif\*\*") %>%  
 bold\_labels() %>%   
 italicize\_levels()  
  
tableau\_croise1

|  | **Accès à internet** | | |  |
| --- | --- | --- | --- | --- |
| **Accès à internet et region de residence** | *Non* | *Oui* | *Valeurs manquantes* | **Effectif** |
| **Region de residence** |  |  |  |  |
| *Maritime* | 3,478 (92%) | 286 (7.6%) | 0 (0%) | 3,764 (100%) |
| *Plateaux* | 4,528 (94%) | 268 (5.6%) | 0 (0%) | 4,796 (100%) |
| *Centrale* | 3,432 (91%) | 319 (8.5%) | 0 (0%) | 3,751 (100%) |
| *Kara* | 4,635 (94%) | 294 (6.0%) | 0 (0%) | 4,929 (100%) |
| *Savanes* | 6,288 (97%) | 221 (3.4%) | 0 (0%) | 6,509 (100%) |
| *Lomé commune* | 2,464 (66%) | 1,269 (34%) | 0 (0%) | 3,733 (100%) |
| *Valeurs manquantes* | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) |
| **Total** | 24,825 (90%) | 2,657 (9.7%) | 0 (0%) | 27,482 (100%) |

### Croisement de la variable region et mstat

# Ce croisement nous permet de comprendre les disparités regionales selon la situation de famille  
  
tableau\_croise2 <- data\_fusion %>%  
 labelled::to\_factor() %>%   
 tbl\_cross(  
 row = mstat,   
 col = region,   
 percent = "row",   
 label = list(  
 region ~ "Région de résidence",   
 mstat ~ "Situation de famille"),  
 missing = "always",   
 missing\_text = "Valeurs manquantes") %>%  
 modify\_header(  
 label = "\*\*Situation de famille et région de résidence\*\*",  
 stat\_0 = "\*\*Effectif\*\*") %>%  
 bold\_labels() %>%   
 italicize\_levels()  
  
tableau\_croise2

|  | **Région de résidence** | | | | | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Situation de famille et région de résidence** | *Maritime* | *Plateaux* | *Centrale* | *Kara* | *Savanes* | *Lomé commune* | *Valeurs manquantes* | **Effectif** |
| **Situation de famille** |  |  |  |  |  |  |  |  |
| *Célibataire* | 2,255 (13%) | 2,851 (17%) | 2,301 (14%) | 2,936 (18%) | 4,041 (24%) | 2,332 (14%) | 0 (0%) | 16,716 (100%) |
| *Marié(e) monogame* | 839 (13%) | 1,123 (18%) | 914 (14%) | 1,050 (17%) | 1,481 (23%) | 916 (14%) | 0 (0%) | 6,323 (100%) |
| *Marié(e) polygame* | 282 (13%) | 411 (19%) | 294 (13%) | 494 (23%) | 586 (27%) | 118 (5.4%) | 0 (0%) | 2,185 (100%) |
| *Union libre* | 71 (18%) | 92 (24%) | 18 (4.6%) | 46 (12%) | 65 (17%) | 97 (25%) | 0 (0%) | 389 (100%) |
| *Veuf(ve)* | 207 (16%) | 202 (16%) | 157 (12%) | 290 (22%) | 290 (22%) | 151 (12%) | 0 (0%) | 1,297 (100%) |
| *Divorcé(e)* | 20 (11%) | 42 (23%) | 22 (12%) | 41 (23%) | 24 (13%) | 33 (18%) | 0 (0%) | 182 (100%) |
| *Séparé(e)* | 90 (23%) | 75 (19%) | 45 (12%) | 72 (19%) | 22 (5.7%) | 84 (22%) | 0 (0%) | 388 (100%) |
| *Valeurs manquantes* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 2 (100%) | 0 (0%) | 2 (100%) |
| **Total** | 3,764 (14%) | 4,796 (17%) | 3,751 (14%) | 4,929 (18%) | 6,509 (24%) | 3,733 (14%) | 0 (0%) | 27,482 (100%) |

### Croisement de la variable eauboi\_s et region.

# Ce croisement nous permet de comprendreles disparités regionales dans l'accès a l'eau potable  
  
tableau\_croise3 <- data\_fusion %>%  
 labelled::to\_factor() %>%   
 tbl\_cross(  
 row = eauboi\_ss,   
 col = region,   
 percent = "row",   
 label = list(  
 region ~ "Région de résidence",   
 eauboi\_ss ~ "Accès à l'eau potable en saison seche"),  
 missing = "always",   
 missing\_text = "Valeurs manquantes") %>%  
 modify\_header(  
 label = "\*\*Eau potable en saison seche et région de résidence\*\*",  
 stat\_0 = "\*\*Effectif\*\*") %>%  
 bold\_labels() %>%   
 italicize\_levels()  
  
tableau\_croise3

|  | **Région de résidence** | | | | | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Eau potable en saison seche et région de résidence** | *Maritime* | *Plateaux* | *Centrale* | *Kara* | *Savanes* | *Lomé commune* | *Valeurs manquantes* | **Effectif** |
| **Accès à l'eau potable en saison seche** |  |  |  |  |  |  |  |  |
| *Non* | 1,534 (15%) | 1,888 (19%) | 2,241 (22%) | 1,185 (12%) | 2,893 (28%) | 412 (4.1%) | 0 (0%) | 10,153 (100%) |
| *Oui* | 2,230 (13%) | 2,908 (17%) | 1,510 (8.7%) | 3,744 (22%) | 3,616 (21%) | 3,321 (19%) | 0 (0%) | 17,329 (100%) |
| *Valeurs manquantes* | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) |
| **Total** | 3,764 (14%) | 4,796 (17%) | 3,751 (14%) | 4,929 (18%) | 6,509 (24%) | 3,733 (14%) | 0 (0%) | 27,482 (100%) |

### Croisement de la variable educ\_hi et couverture maladie

# Ce croisement nous permet de verifier si le niveau d'education est correlé avec la couverture maladie universelle. On constate que plus le niveau d'eduction est élévé plus la proportion des individus couverent par la couverture maladie universelle est élévée  
  
tableau\_croise4 <- data\_fusion %>%  
 labelled::to\_factor() %>%   
 tbl\_cross(  
 row = educ\_hi,   
 col = couvmal,   
 percent = "row",   
 label = list(  
 educ\_hi ~ "Niveau d'éducation achevé",   
 couvmal ~ "Individu couverture maladie"),  
 missing = "always",   
 missing\_text = "Valeurs manquantes") %>%  
 modify\_header(  
 label = "\*\*Niveau d'education achevé et couverture maladie\*\*",  
 stat\_0 = "\*\*Effectif\*\*") %>%  
 bold\_labels() %>%   
 italicize\_levels()  
  
tableau\_croise4

|  | **Individu couverture maladie** | | |  |
| --- | --- | --- | --- | --- |
| **Niveau d'education achevé et couverture maladie** | *Non* | *Oui* | *Valeurs manquantes* | **Effectif** |
| **Niveau d'éducation achevé** |  |  |  |  |
| *Aucun* | 10,503 (99%) | 150 (1.4%) | 0 (0%) | 10,653 (100%) |
| *Maternelle* | 602 (91%) | 57 (8.6%) | 0 (0%) | 659 (100%) |
| *Primaire* | 9,058 (96%) | 406 (4.3%) | 0 (0%) | 9,464 (100%) |
| *Second. gl 1* | 4,326 (94%) | 255 (5.6%) | 0 (0%) | 4,581 (100%) |
| *Second. tech. 1* | 27 (87%) | 4 (13%) | 0 (0%) | 31 (100%) |
| *Second. gl 2* | 989 (87%) | 148 (13%) | 0 (0%) | 1,137 (100%) |
| *Second. tech. 2* | 232 (90%) | 25 (9.7%) | 0 (0%) | 257 (100%) |
| *Postsecondaire* | 81 (76%) | 26 (24%) | 0 (0%) | 107 (100%) |
| *Superieur* | 462 (78%) | 130 (22%) | 0 (0%) | 592 (100%) |
| *Valeurs manquantes* | 1 (100%) | 0 (0%) | 0 (0%) | 1 (100%) |
| **Total** | 26,281 (96%) | 1,201 (4.4%) | 0 (0%) | 27,482 (100%) |

### Croisement de la variable revenu et la variable car(possedé une voiture)

# Cela nous permet de voir la possession de voiture selon le type de logement  
  
tableau\_croise5 <- data\_fusion %>%  
 labelled::to\_factor() %>%   
 tbl\_cross(  
 row = logem,   
 col = car,   
 percent = "row",   
 label = list(  
 car ~ "Possedé une voiture",   
 logem~ "Type de logement"),  
 missing = "always",   
 missing\_text = "Valeurs manquantes") %>%  
 modify\_header(  
 label = "\*\*Type de logement et possession d'une voiture\*\*",  
 stat\_0 = "\*\*Effectif\*\*") %>%  
 bold\_labels() %>%   
 italicize\_levels()  
  
tableau\_croise5

|  | **Possedé une voiture** | | |  |
| --- | --- | --- | --- | --- |
| **Type de logement et possession d'une voiture** | *Non* | *Oui* | *Valeurs manquantes* | **Effectif** |
| **Type de logement** |  |  |  |  |
| *Proprietaire titre* | 2,545 (88%) | 357 (12%) | 0 (0%) | 2,902 (100%) |
| *Proprietaire sans titre* | 13,606 (99%) | 125 (0.9%) | 0 (0%) | 13,731 (100%) |
| *Locataire* | 4,691 (98%) | 85 (1.8%) | 0 (0%) | 4,776 (100%) |
| *Autre* | 6,014 (99%) | 59 (1.0%) | 0 (0%) | 6,073 (100%) |
| *Valeurs manquantes* | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) |
| **Total** | 26,856 (98%) | 626 (2.3%) | 0 (0%) | 27,482 (100%) |

### Croisement de la variable region et alfab (alphabetisation)

#Ce croisement nouspermet de voir les taux d'alphabetisation selon les regions  
  
tableau\_croise6 <- data\_fusion %>%  
 labelled::to\_factor() %>%   
 tbl\_cross(  
 row = alfab,   
 col = region,   
 percent = "row",   
 label = list(  
 region ~ "Région de résidence",   
 alfab ~ "Alphabetisation"),  
 missing = "always",   
 missing\_text = "Valeurs manquantes") %>%  
 modify\_header(  
 label = "\*\*Alphabetisation et région de résidence\*\*",  
 stat\_0 = "\*\*Effectif\*\*") %>%  
 bold\_labels() %>%   
 italicize\_levels()  
  
tableau\_croise6

|  | **Région de résidence** | | | | | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Alphabetisation et région de résidence** | *Maritime* | *Plateaux* | *Centrale* | *Kara* | *Savanes* | *Lomé commune* | *Valeurs manquantes* | **Effectif** |
| **Alphabetisation** |  |  |  |  |  |  |  |  |
| *Non* | 1,535 (12%) | 2,109 (17%) | 1,734 (14%) | 2,396 (19%) | 3,980 (31%) | 882 (7.0%) | 0 (0%) | 12,636 (100%) |
| *Oui* | 2,229 (15%) | 2,687 (18%) | 2,017 (14%) | 2,533 (17%) | 2,529 (17%) | 2,851 (19%) | 0 (0%) | 14,846 (100%) |
| *Valeurs manquantes* | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) | 0 (NA%) |
| **Total** | 3,764 (14%) | 4,796 (17%) | 3,751 (14%) | 4,929 (18%) | 6,509 (24%) | 3,733 (14%) | 0 (0%) | 27,482 (100%) |

### Croisement de la variable diplome et sexe

# Ce croisement nous permet de voir les disparités educatives entre les sexes  
  
tableau\_croise7 <- data\_fusion %>%  
 labelled::to\_factor() %>%   
 tbl\_cross(  
 row = sexe,   
 col = diplome,   
 percent = "row",   
 label = list(  
 sexe ~ "Sexe",   
 diplome ~ "Diplome le plus élevé"),  
 missing = "always",   
 missing\_text = "Valeurs manquantes") %>%  
 modify\_header(  
 label = "\*\*Diplome et sexe\*\*",  
 stat\_0 = "\*\*Effectif\*\*") %>%  
 bold\_labels() %>%   
 italicize\_levels()  
  
tableau\_croise7

|  | **Diplome le plus élevé** | | | | | | | | | | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Diplome et sexe** | *Aucun* | *CEPE / CEPD* | *bepc* | *cap* | *bt* | *bac* | *DEUG, DUT, BTS* | *Licence* | *Maitrise* | *Master/DEA/DESS* | *Doctorat/Phd* | *Valeurs manquantes* | **Effectif** |
| **Sexe** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Masculin* | 8,773 (67%) | 2,684 (20%) | 964 (7.3%) | 57 (0.4%) | 12 (<0.1%) | 389 (3.0%) | 58 (0.4%) | 137 (1.0%) | 60 (0.5%) | 23 (0.2%) | 8 (<0.1%) | 0 (0%) | 13,165 (100%) |
| *Féminin* | 11,230 (78%) | 2,238 (16%) | 555 (3.9%) | 15 (0.1%) | 6 (<0.1%) | 161 (1.1%) | 36 (0.3%) | 53 (0.4%) | 11 (<0.1%) | 5 (<0.1%) | 5 (<0.1%) | 0 (0%) | 14,315 (100%) |
| *Valeurs manquantes* | 2 (100%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 2 (100%) |
| **Total** | 20,005 (73%) | 4,922 (18%) | 1,519 (5.5%) | 72 (0.3%) | 18 (<0.1%) | 550 (2.0%) | 94 (0.3%) | 190 (0.7%) | 71 (0.3%) | 28 (0.1%) | 13 (<0.1%) | 0 (0%) | 27,482 (100%) |

En resumé nous avons mené une analyse descriptive des données issues de l’EHCVM 2018` du Togo avec les bases menages et individus. Pour la base individu, nous avons produit des tableaux résumant des variables clés telles que le sexe, l’âge, l’éducation, l’accès à internet, la couverture maladie et l’utilisation de moustiquaires. Nous avons également stratifié ces statistiques par sexe, milieu de résidence et région, ce qui nous a permis de mettre en lumière des disparités significatives selon ces critères. En utilisant les poids de l’enquête, nous avons obtenu des estimations plus représentatives de la population. Pour la base ménage, nous avons analysé des aspects tels que le type de logement, l’accès à l’eau potable, l’électricité et la possession de biens comme les voitures, offrant ainsi une vue d’ensemble des conditions de vie.

Nous avons ensuite fusionné les deux bases pour approfondir l’analyse. À l’aide de tableaux croisés, nous avons exploré les relations entre différentes variables, comme l’accès à internet selon la région, la situation de famille par région, ou encore le lien entre le niveau d’éducation et la couverture maladie. Nous avons systématiquement pris en compte les valeurs manquantes et personnalisé les tableaux pour en améliorer la clarté. Cette analyse nous a permis de mieux comprendre les caractéristiques socio-économiques de la population étudiée et d’identifier des disparités régionales et genrées.