Statistiques descriptives

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2025-02-12

Importation des librairies

```
packages <- c("haven","gtsummary","dplyr","labelled", "rlang")


for (package in packages) {
  if (!requireNamespace(package, quietly = TRUE)) {   # permet de Vérifier si le package est pas instal
    install.packages(package)
  }
  library(package, character.only = TRUE) # nom du package en nom ou chaine de caractère ()
}
```

```
## Warning: le package 'haven' a été compilé avec la version R 4.3.3
```

```
## Warning: le package 'gtsummary' a été compilé avec la version R 4.3.3
```

```
## Warning: le package 'dplyr' a été compilé avec la version R 4.3.3
```

```
##
## Attachement du package : 'dplyr'
```

```
## Les objets suivants sont masqués depuis 'package:stats':
##
##     filter, lag
```

```
## Les objets suivants sont masqués depuis 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
## Warning: le package 'labelled' a été compilé avec la version R 4.3.3
```

```
## Warning: le package 'rlang' a été compilé avec la version R 4.3.3
```

Importation des bases

```r
menage <- haven::read_dta("../Datapath/ehcvm_menage_civ2021.dta")
str(menage)
```

```
## tibble [13,863 x 38] (S3: tbl_df/tbl/data.frame)
##  $ country   : chr [1:13863] "" "CIV" "CIV" "CIV" ...
##   ..- attr(*, "format.stata")= chr "%3s"
##  $ hhid      : num [1:13863] 101 102 103 104 105 106 107 108 109 110 ...
##   ..- attr(*, "label")= chr "Identifiant menage"
##   ..- attr(*, "format.stata")= chr "%12.0g"
##  $ grappe    : num [1:13863] NA 1 1 1 1 1 1 1 1 1 ...
##   ..- attr(*, "label")= chr "grappe"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ menage    : num [1:13863] NA 2 3 4 5 6 7 8 9 10 ...
##   ..- attr(*, "label")= chr "Identifiant du ménage"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ vague     : num [1:13863] NA 1 1 1 1 1 1 1 1 1 ...
##   ..- attr(*, "label")= chr "Vague"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ logem     : dbl+lbl [1:13863] NA,  3,  3,  4,  3,  3,  3,  3,  3,  3,  3,  3,  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" "Au
##  $ mur       : dbl+lbl [1:13863] NA,  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 [1:13863] NA,  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 [1:13863] NA,  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 [1:13863] NA,  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 [1:13863] NA,  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 [1:13863] NA,  1,  1,  0,  0,  1,  1,  1,  1,  1,  0,  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 [1:13863] NA,  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 [1:13863] NA,  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 [1:13863] NA,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  0, ...
##    ..@ 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 [1:13863] NA,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  0, ...
##    ..@ 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 [1:13863] NA,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  0,  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 [1:13863] NA,  1,  1,  1,  1,  0,  1,  1,  1,  0,  1,  1,  0, ...
##    ..@ 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"
##  $ year      : num [1:13863] NA 2021 2021 2021 2021 ...
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ tv        : dbl+lbl [1:13863] 0, 1, 1, 1, 0, 1, 1, 1, 0, 1, 0, 1, 0, 1, 1, 1, 0, 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 [1:13863] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0...
##    ..@ 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 [1:13863] 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 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 [1:13863] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 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 [1:13863] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1...
##    ..@ 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 [1:13863] 0, 1, 0, 1, 0, 0, 0, 0, 0, 1, 0, 1, 0, 1, 0, 1, 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 [1:13863] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0...
##    ..@ 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 [1:13863] NA 0 0 0 0 0 0 0 0 0 ...
##   ..- attr(*, "label")= chr "Superficie agricole"
##   ..- attr(*, "format.stata")= chr "%12.0g"
##  $ grosrum   : num [1:13863] NA 0 0 0 0 0 0 0 0 0 ...
##   ..- attr(*, "label")= chr "Nbr gros ruminants"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ petitrum  : num [1:13863] NA 0 0 0 0 0 0 0 0 0 ...
##   ..- attr(*, "label")= chr "Nbr petits ruminants"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ porc      : num [1:13863] NA 0 0 0 0 0 0 0 0 0 ...
##   ..- attr(*, "label")= chr "Nbr porcs"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ lapin     : num [1:13863] NA 0 0 0 0 0 0 0 0 0 ...
##   ..- attr(*, "label")= chr "Nbr lapins"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ volail    : num [1:13863] NA 0 0 0 0 0 0 0 0 0 ...
##   ..- attr(*, "label")= chr "Nbr volailles"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ sh_id_demo: dbl+lbl [1:13863] 0, 1, 0, 1, 0, 1, 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 [1:13863] 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 [1:13863] 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 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 [1:13863] 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 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 [1:13863] 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 [1:13863] 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 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"
```

```
head(menage)
```

```
## # A tibble: 6 x 38
##   country  hhid grappe menage vague logem          mur       toit      sol
##   <chr>   <dbl>  <dbl>  <dbl> <dbl> <dbl+lbl>      <dbl+lbl> <dbl+lbl> <dbl+lbl>
## 1 ""        101     NA     NA    NA NA             NA        NA        NA
## 2 "CIV"     102      1      2     1  3 [Locataire]  1 [Oui]   1 [Oui]   1 [Oui]
## 3 "CIV"     103      1      3     1  3 [Locataire]  1 [Oui]   1 [Oui]   1 [Oui]
## 4 "CIV"     104      1      4     1  4 [Autre]      1 [Oui]   1 [Oui]   1 [Oui]
## 5 "CIV"     105      1      5     1  3 [Locataire]  1 [Oui]   1 [Oui]   1 [Oui]
## 6 "CIV"     106      1      6     1  3 [Locataire]  1 [Oui]   1 [Oui]   1 [Oui]
## # i 29 more variables: eauboi_ss <dbl+lbl>, eauboi_sp <dbl+lbl>,
## #   elec_ac <dbl+lbl>, elec_ur <dbl+lbl>, elec_ua <dbl+lbl>, ordure <dbl+lbl>,
## #   toilet <dbl+lbl>, eva_toi <dbl+lbl>, eva_eau <dbl+lbl>, year <dbl>,
## #   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>, ...
```

```
welfare <- haven::read_dta("../Datapath/ehcvm_welfare_civ2021.dta")
str(welfare)
```

```
## tibble [12,965 x 44] (S3: tbl_df/tbl/data.frame)
##  $ grappe              : num [1:12965] 1 1 1 1 1 1 1 1 1 1 ...
##   ..- attr(*, "label")= chr "grappe"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ menage              : num [1:12965] 11 27 7 8 10 9 2 3 12 4 ...
##   ..- attr(*, "label")= chr "Identifiant du ménage"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ country             : chr [1:12965] "CIV" "CIV" "CIV" "CIV" ...
##   ..- attr(*, "label")= chr "Pays"
##   ..- attr(*, "format.stata")= chr "%3s"
##  $ year                : num [1:12965] 2021 2021 2021 2021 2021 ...
##   ..- attr(*, "label")= chr "Annee enquete"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ hhid                : num [1:12965] 111 127 107 108 110 109 102 103 112 104 ...
##   ..- attr(*, "label")= chr "Idenfiant menage"
##   ..- attr(*, "format.stata")= chr "%12.0g"
##  $ vague               : num [1:12965] 1 1 1 1 1 1 1 1 1 1 ...
##   ..- attr(*, "label")= chr "Vague"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ month               : Date[1:12965], format: "2022-01-01" "2022-02-01" ...
##  $ zae                 : dbl+lbl [1:12965] 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6...
##    ..@ label       : chr "Zone agroecologique"
##    ..@ format.stata: chr "%8.0g"
```

```
##    ..@ labels      : Named num [1:6] 1 2 3 4 5 6
##    .. ..- attr(*, "names")= chr [1:6] "centre" "CENTRE-OUEST" "nord" "SUD-EST" ...
##  $ region              : dbl+lbl [1:12965] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...
##    ..@ label       : chr "Region residence"
##    ..@ format.stata: chr "%8.0g"
##    ..@ labels      : Named num [1:33] 1 2 3 4 5 6 7 8 9 10 ...
##    .. ..- attr(*, "names")= chr [1:33] "AUTONOME D'ABIDJAN" "HAUT-SASSANDRA" "poro" "gbeke" ...
##  $ milieu              : dbl+lbl [1:12965] 1, 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 [1:12965] 962 962 962 962 962 ...
##   ..- attr(*, "label")= chr "Ponderation menage"
##   ..- attr(*, "format.stata")= chr "%9.0g"
##  $ hhsize              : num [1:12965] 1 1 1 5 5 1 7 3 4 1 ...
##   ..- attr(*, "label")= chr "Taille menage"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ eqadu1              : num [1:12965] 1 1 1 3.55 3.76 ...
##   ..- attr(*, "label")= chr "Nbr adultes-equiv. FAO"
##   ..- attr(*, "format.stata")= chr "%12.0g"
##  $ eqadu2              : num [1:12965] 1 1 1 2.85 3.01 ...
##   ..- attr(*, "label")= chr "Nbr adultes-equiv. alt."
##   ..- attr(*, "format.stata")= chr "%9.0g"
##  $ hgender             : dbl+lbl [1:12965] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 2, 2...
##    ..@ label       : chr "Genre du CM"
##    ..@ format.stata: chr "%8.0g"
##    ..@ labels      : Named num [1:2] 1 2
##    .. ..- attr(*, "names")= chr [1:2] "Masculin" "Féminin"
##  $ hage                : num [1:12965] 30 22 42 54 63 37 50 56 45 38 ...
##   ..- attr(*, "label")= chr "Age du CM"
##   ..- attr(*, "format.stata")= chr "%8.0g"
##  $ hmstat              : dbl+lbl [1:12965] 1, 1, 1, 2, 2, 1, 2, 2, 2, 1, 2, 1, 2, 2, 2, 2, 2, 5...
##    ..@ label       : chr "Situation famille du CM"
##    ..@ 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 li
##  $ hreligion           : dbl+lbl [1:12965] 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 2, 1, 2, 2, 1, 2...
##    ..@ label       : chr "Religion du CM"
##    ..@ format.stata: chr "%8.0g"
##    ..@ labels      : Named num [1:6] 1 2 3 4 5 6
##    .. ..- attr(*, "names")= chr [1:6] "Musulman" "Chrétien" "Animiste" "Autre Réligion" ...
##  $ hnation             : dbl+lbl [1:12965]  7,  4, 12,  7, 12, 11,  4, 13, 17,  4, 10,  7,  4, ...
##    ..@ label       : chr "Nationalite du CM"
##    ..@ format.stata: chr "%8.0g"
##    ..@ labels      : Named num [1:18] 1 2 3 4 5 6 7 8 9 10 ...
##    .. ..- attr(*, "names")= chr [1:18] "Bénin" "Burkina Faso" "Cape-vert" "Cote d'ivoire" ...
##  $ hethnie             : dbl+lbl [1:12965] NA, 14, NA, NA, NA, NA, 40, NA, NA, 20, NA, NA, 23, ...
##    ..@ label       : chr "Ethnie du CM"
##    ..@ format.stata: chr "%8.0g"
##    ..@ labels      : Named num [1:72] 1 2 3 4 5 6 7 8 9 10 ...
##    .. ..- attr(*, "names")= chr [1:72] "abbey" "abidji" "aboure" "abron" ...
##  $ halfa               : dbl+lbl [1:12965] 1, 1, 0, 0, 0, 0, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1, 1, 1...
##    ..@ label       : chr "Alpha. lire/ecr. CM"
```

```
##    ..@ format.stata: chr "%8.0g"
##    ..@ labels      : Named num [1:2] 0 1
##    .. ..- attr(*, "names")= chr [1:2] "Non" "Oui"
##  $ halfa2              : dbl+lbl [1:12965] 1, 1, 0, 0, 0, 0, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1, 1, 1...
##    ..@ label       : chr "Alpha. lire/ecr./comp. CM"
##    ..@ format.stata: chr "%8.0g"
##    ..@ labels      : Named num [1:2] 0 1
##    .. ..- attr(*, "names")= chr [1:2] "Non" "Oui"
##  $ heduc               : dbl+lbl [1:12965] 1, 3, 1, 1, 3, 1, 4, 1, 1, 3, 3, 1, 6, 9, 6, 6, 8, 3...
##    ..@ label       : chr "Education du CM"
##    ..@ 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" ...
##  $ hdiploma            : dbl+lbl [1:12965] 0, 0, 0, 0, 0, 0, 2, 0, 0, 0, 0, 0, 5, 6, 5, 2, 6, 1...
##    ..@ label       : chr "Diplome du CM"
##    ..@ 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" "bepc" "cap" ...
##  $ hhandig             : dbl+lbl [1:12965] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1...
##    ..@ label       : chr "Handicap majeur CM"
##    ..@ format.stata: chr "%8.0g"
##    ..@ labels      : Named num [1:2] 0 1
##    .. ..- attr(*, "names")= chr [1:2] "Non" "Oui"
##  $ hactiv7j            : dbl+lbl [1:12965] 1, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...
##    ..@ label       : chr "Activite 7 jours du CM"
##    ..@ format.stata: chr "%8.0g"
##    ..@ labels      : Named num [1:6] 1 2 3 4 5 6
##    .. ..- attr(*, "names")= chr [1:6] "Occupe" "TF cherchant emploi" "TF cherchant pas" "Chomeur" ..
##  $ hactiv12m           : dbl+lbl [1:12965] 1, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1...
##    ..@ label       : chr "Activite 12 mois du CM"
##    ..@ 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"
##  $ hbranch             : dbl+lbl [1:12965]  6, NA,  6,  6, 11,  6,  9,  6,  4,  6,  6,  6,  9, ...
##    ..@ label       : chr "Branche activite du CM"
##    ..@ 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/syl./peche" "Indust. extr." "Autr. indu
##  $ hsectins            : dbl+lbl [1:12965]  3, NA,  3,  3,  3,  3,  3,  3,  3,  3,  3,  2, ...
##    ..@ label       : chr "Secteur instit. du CM"
##    ..@ 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
##  $ hcsp                : dbl+lbl [1:12965]  9, NA,  9,  9,  9,  9,  9,  9,  9,  6,  9,  9,  3, ...
##    ..@ label       : chr "CSP du CM"
##    ..@ 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
##  $ dali                : num [1:12965] 508967 550754 162577 990099 2565202 ...
##   ..- attr(*, "label")= chr "Conso annuelle alim. menage"
##   ..- attr(*, "format.stata")= chr "%12.0g"
##  $ dnal                : num [1:12965] 426400 392682 572671 1198013 2054847 ...
##   ..- attr(*, "label")= chr "Conso annuelle non alim. menage"
##   ..- attr(*, "format.stata")= chr "%12.0g"
```

```
##  $ dtot                : num [1:12965] 935367 943435 735249 2188112 4620049 ...
##   ..- attr(*, "label")= chr "Conso annuelle totale menage"
##   ..- attr(*, "format.stata")= chr "%12.0g"
##  $ pcexp               : num [1:12965] 848214 855531 666742 396847 837915 ...
##   ..- attr(*, "label")= chr "Indicateur de bien-être"
##   ..- attr(*, "format.stata")= chr "%12.0g"
##  $ zref                : num [1:12965] 369516 369516 369516 369516 369516 ...
##   ..- attr(*, "label")= chr "Seuil pauvrete national"
##   ..- attr(*, "format.stata")= chr "%12.0g"
##  $ def_spa             : num [1:12965] 1.1 1.1 1.1 1.1 1.1 ...
##   ..- attr(*, "label")= chr "Deflateur spatial"
##   ..- attr(*, "format.stata")= chr "%9.0g"
##  $ def_temp            : num [1:12965] 0.984 0.993 0.984 0.984 0.984 ...
##   ..- attr(*, "label")= chr "Deflateur temporel"
##   ..- attr(*, "format.stata")= chr "%9.0g"
##  $ def_temp_prix2021m11: num [1:12965] 1.01 1.02 1.01 1.01 1.01 ...
##   ..- attr(*, "label")= chr "temporal deflator for international poverty, 1 = 2021m11 prices"
##   ..- attr(*, "format.stata")= chr "%9.0g"
##  $ def_temp_cpi        : num [1:12965] 0.991 0.994 0.991 0.991 0.991 ...
##   ..- attr(*, "label")= chr "alternative temporal deflator based on official CPI, 2018/19 style"
##   ..- attr(*, "format.stata")= chr "%9.0g"
##  $ def_temp_adj        : num [1:12965] 0.987 0.996 0.987 0.987 0.987 ...
##   ..- attr(*, "label")= chr "temporal deflator adjusted for difference between hh and market survey p
##   ..- attr(*, "format.stata")= chr "%9.0g"
##  $ monthly_cpi         : num [1:12965] 122 123 122 122 122 ...
##   ..- attr(*, "label")= chr "Monthly CPI value"
##   ..- attr(*, "format.stata")= chr "%12.0g"
##  $ cpi2017             : num [1:12965] 1.07 1.07 1.07 1.07 1.07 ...
##   ..- attr(*, "format.stata")= chr "%9.0g"
##  $ icp2017             : num [1:12965] 247 247 247 247 247 ...
##   ..- attr(*, "format.stata")= chr "%12.0g"
##  $ dollars             : num [1:12965] 9.38 9.52 7.37 4.39 9.27 ...
##   ..- attr(*, "label")= chr "welfare in 2017 PPP USD per capita per day (not spatially deflated)"
##   ..- attr(*, "format.stata")= chr "%9.0g"
```

```
head(welfare)
```

```
## # A tibble: 6 x 44
##   grappe menage country  year  hhid vague month      zae         region  milieu
##    <dbl>  <dbl> <chr>   <dbl> <dbl> <dbl> <date>     <dbl+lbl>   <dbl+l> <dbl+l>
## 1      1     11 CIV      2021   111     1 2022-01-01 6 [abidjan] 1 [AUT~ 1 [Urb~
## 2      1     27 CIV      2021   127     1 2022-02-01 6 [abidjan] 1 [AUT~ 1 [Urb~
## 3      1      7 CIV      2021   107     1 2022-01-01 6 [abidjan] 1 [AUT~ 1 [Urb~
## 4      1      8 CIV      2021   108     1 2022-01-01 6 [abidjan] 1 [AUT~ 1 [Urb~
## 5      1     10 CIV      2021   110     1 2022-01-01 6 [abidjan] 1 [AUT~ 1 [Urb~
## 6      1      9 CIV      2021   109     1 2022-01-01 6 [abidjan] 1 [AUT~ 1 [Urb~
## # i 34 more variables: hhweight <dbl>, hhsize <dbl>, eqadu1 <dbl>,
## #   eqadu2 <dbl>, hgender <dbl+lbl>, hage <dbl>, hmstat <dbl+lbl>,
## #   hreligion <dbl+lbl>, hnation <dbl+lbl>, hethnie <dbl+lbl>, halfa <dbl+lbl>,
## #   halfa2 <dbl+lbl>, heduc <dbl+lbl>, hdiploma <dbl+lbl>, hhandig <dbl+lbl>,
## #   hactiv7j <dbl+lbl>, hactiv12m <dbl+lbl>, hbranch <dbl+lbl>,
## #   hsectins <dbl+lbl>, hcsp <dbl+lbl>, dali <dbl>, dnal <dbl>, dtot <dbl>,
## #   pcexp <dbl>, zref <dbl>, def_spa <dbl>, def_temp <dbl>, ...
```

Characteristic	N = 13,863[1]
Occupation logement	
1	2,844 (22%)
2	4,508 (35%)
3	2,702 (21%)
4	2,906 (22%)
9	5 (<0.1%)
Unknown	898
Mur en materiaux definitifs	
0	1,363 (11%)
1	11,602 (89%)
Unknown	898
toit en materiaux definitifs	
0	1,337 (10%)
1	11,628 (90%)
Unknown	898
Sol en materiaux definitifs	
0	1,736 (13%)
1	11,229 (87%)
Unknown	898

[1] n (%)

Quelques statistiques descriptives

```
menage |>
  dplyr::select(logem, mur, toit, sol) |>
  gtsummary::tbl_summary()
```

```
## ! Column(s) "logem", "mur", "toit", and "sol" are class "haven_labelled".
## i This is an intermediate datastructure not meant for analysis.
## i Convert columns with `haven::as_factor()`, `labelled::to_factor()`,
##   `labelled::unlabelled()`, and `unclass()`. Failure to convert may have
##   unintended consequences or result in error.
## <https://haven.tidyverse.org/articles/semantics.html>
## <https://larmarange.github.io/labelled/articles/intro_labelled.html#unlabelled>
```

```
menage |> labelled::to_factor() |>
  dplyr::select(logem, toit, sol) |>
  gtsummary::tbl_summary()
```

```
menage |>
  labelled::to_factor() |>
  dplyr::select(logem, toit, mur) |>
  gtsummary::tbl_summary(
```

Characteristic	**N = 13,863**[1]
Occupation logement	
Proprietaire titre	2,844 (22%)
Proprietaire sans titre	4,508 (35%)
Locataire	2,702 (21%)
Autre	2,906 (22%)
9	5 (<0.1%)
Unknown	898
toit en materiaux definitifs	
Non	1,337 (10%)
Oui	11,628 (90%)
Unknown	898
Sol en materiaux definitifs	
Non	1,736 (13%)
Oui	11,229 (87%)
Unknown	898

[1] n (%)

```
    label = list(
      logem ~ "Type de logement",
      toit ~ "Toit de la maison du CM",
      mur ~ "Mur de la maison du CM"
    )
  ) |>
  gtsummary::modify_header(label = "Caractéristiques de l'habitat du CM")
```

```
menage |>
  dplyr::select(superf, grosrum, petitrum) |>
  gtsummary::tbl_summary(
    label = list(
      superf ~ "Superficie agricole",
      grosrum ~ "Nombre de gros ruminants",
      petitrum ~ "Nombre de petits ruminants"
    ),
    statistic = list(
      superf ~ "{mean} ({sd})",
      grosrum ~ "{mean} ({sd})",
      petitrum ~ "{mean} ({sd})"
    ),
    digits = everything() ~ c(0, 0, 0),
    missing = "always",
    missing_text = "Valeurs manquantes"
  ) |>
  gtsummary::modify_header(label = "Tableau avec les variables numériques")
```

Caractéristiques de l'habitat du CM	**N = 13,863**[1]
Type de logement	
Proprietaire titre	2,844 (22%)
Proprietaire sans titre	4,508 (35%)
Locataire	2,702 (21%)
Autre	2,906 (22%)
9	5 (<0.1%)
Unknown	898
Toit de la maison du CM	
Non	1,337 (10%)
Oui	11,628 (90%)
Unknown	898
Mur de la maison du CM	
Non	1,363 (11%)
Oui	11,602 (89%)
Unknown	898

[1] n (%)

Tableau avec les variables numériques	**N = 13,863**[1]
Superficie agricole	24,660,570 (1,441,480,913)
Valeurs manquantes	898
Nombre de gros ruminants	1 (9)
Valeurs manquantes	898
Nombre de petits ruminants	1 (4)
Valeurs manquantes	898

[1] Mean (SD)

```
welfare |>
  labelled::to_factor() |>
  dplyr::select(hgender, hage, hmstat, heduc, hdiploma) |>
  gtsummary::tbl_summary(
    label = list(
      hgender ~ "Genre du chef de ménage",
      hage ~ "Âge du chef de ménage",
      hmstat ~ "Situation matrimoniale du chef de ménage",
      heduc ~ "Niveau d'éducation du chef de ménage",
      hdiploma ~ "Diplôme du chef de ménage"
    ),
    statistic = list(
      hage ~ "{mean} ({sd})"
    ),
    digits = list(hage ~ c(0)),
    missing_text = "Valeur manquante"
  ) |>
```

Caractéristiques du CM	**N = 12,965**[1]
Genre du chef de ménage	
Masculin	10,689 (82%)
Féminin	2,276 (18%)
Âge du chef de ménage	46 (14)
Situation matrimoniale du chef de ménage	
Célibataire	1,907 (15%)
Marié(e) monogame	7,171 (55%)
Marié(e) polygame	1,656 (13%)
Union libre	811 (6.3%)
Veuf(ve)	1,078 (8.3%)
Divorcé(e)	161 (1.2%)
Séparé	181 (1.4%)
Niveau d'éducation du chef de ménage	
Aucun	7,444 (57%)
Maternelle	3 (<0.1%)
Primaire	2,544 (20%)
Second. gl 1	1,409 (11%)
Second. tech. 1	36 (0.3%)
Second. gl 2	791 (6.1%)
Second. tech. 2	73 (0.6%)
Postsecondaire	257 (2.0%)
Superieur	407 (3.1%)
Valeur manquante	1
Diplôme du chef de ménage	
Aucun	9,759 (75%)
cepe	1,499 (12%)
bepc	755 (5.8%)
cap	35 (0.3%)
bt	41 (0.3%)
bac	339 (2.6%)
DEUG, DUT, BTS	242 (1.9%)
Licence	118 (0.9%)
Maitrise / Ingénieur des travaux	89 (0.7%)
Master/DEA/DESS/Ingénieur de conception	71 (0.5%)
Doctorat/Phd	17 (0.1%)

[1] n (%); Mean (SD)

```
gtsummary::modify_header(label = "Caractéristiques du CM")
```