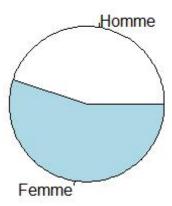
```
TP1
```

```
library(questionr)
data(hdv2003)
d<-hdv2003
# View(d)
table(d$sexe)
##
## Homme Femme
     899 1101
table(d$occup)
##
                                        Chomeur
## Exerce une profession
                                                       Etudiant, eleve
                    1049
                                             134
                                                                     94
##
                Retraite
                            Retire des affaires
                                                              Au foyer
##
                      392
                                              77
                                                                    171
           Autre inactif
##
##
                       83
sort(table(d$occup))
##
     Retire des affaires
##
                                  Autre inactif
                                                       Etudiant, eleve
##
                                                                     94
##
                                       Au foyer
                 Chomeur
                                                               Retraite
                      134
##
                                             171
                                                                    392
## Exerce une profession
##
                    1049
sort(table(d$occup), decreasing = TRUE)
##
## Exerce une profession
                                       Retraite
                                                               Au foyer
##
                    1049
                                             392
                                                                    171
##
                                Etudiant, eleve
                                                         Autre inactif
                 Chomeur
##
                                              94
                      134
                                                                     83
##
     Retire des affaires
##
                       77
table(d$trav.satisf, useNA = "ifany")
##
##
     Satisfaction Insatisfaction
                                        Equilibre
                                                            <NA>
##
              480
                              117
                                              451
                                                              952
```

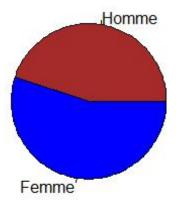
```
summary(d$qualif)
##
         Ouvrier specialise
                                     Ouvrier qualifie
                                                                     Tech
nicien
##
                        203
                                                  292
    86
## Profession intermediaire
                                                                        Ε
                                                Cadre
mploye
##
                                                  260
                        160
   594
                                                 NA's
##
                      Autre
##
                         58
                                                  347
prop.table(table(d$qualif))
##
                                    Ouvrier qualifie
##
         Ouvrier specialise
                                                                     Tech
nicien
##
                 0.12280702
                                           0.17664852
                                                                     0.05
202662
## Profession intermediaire
                                                Cadre
                                                                        Ε
mploye
##
                 0.09679371
                                           0.15728978
                                                                     0.35
934664
##
                      Autre
##
                 0.03508772
prop.table(table(d$qualif, useNA = "ifany"))
##
##
         Ouvrier specialise
                                    Ouvrier qualifie
                                                                     Tech
nicien
##
                     0.1015
                                               0.1460
0.0430
## Profession intermediaire
                                                                        Ε
                                                Cadre
mploye
##
                     0.0800
                                               0.1300
0.2970
##
                                                 <NA>
                      Autre
##
                     0.0290
                                               0.1735
freq(d$qualif)
##
                                    % val%
                              n
## Ouvrier specialise
                            203 10.2 12.3
## Ouvrier qualifie
                            292 14.6 17.7
## Technicien
                             86 4.3 5.2
## Profession intermediaire 160 8.0 9.7
## Cadre
                            260 13.0 15.7
                            594 29.7 35.9
## Employe
```

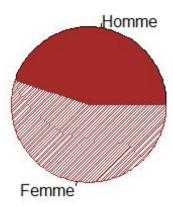
```
## Autre
                            58 2.9 3.5
## NA
                           347 17.3
                                      NA
table(d$freres.soeurs)
##
##
        1
            2
                3
                    4
                        5
                            6
                                7
                                    8
                                        9
                                          10
                                              11 12
                                                      13
                                                          14
18 22
## 167 407 427 284 210 151 99 94 52 37 21 21
                                                   8 10
                                                           4
                                                               4
                                                                   1
 2
     1
prop.table(table(d$freres.soeurs))
##
##
              1
                     2
                            3
                                   4
                                          5
                                                6
                                                       7
     10
## 0.0835 0.2035 0.2135 0.1420 0.1050 0.0755 0.0495 0.0470 0.0260 0.018
5 0.0105
                           14
##
      11
             12
                    13
                                  15
                                         16
                                               18
                                                      22
## 0.0105 0.0040 0.0050 0.0020 0.0020 0.0005 0.0010 0.0005
freq(d$freres.soeurs, cum = TRUE, total = TRUE, digits = 2, exclude = N
A)
##
                  %
                      %cum
           n
## 0
         167
               8.35
                     8.35
## 1
         407
              20.35 28.70
## 2
              21.35 50.05
         427
## 3
         284
              14.20 64.25
## 4
         210
              10.50 74.75
## 5
         151
               7.55 82.30
## 6
          99
               4.95 87.25
               4.70 91.95
## 7
          94
## 8
          52
               2.60 94.55
## 9
          37
               1.85 96.40
               1.05 97.45
## 10
          21
## 11
          21
               1.05 98.50
## 12
          8
               0.40 98.90
               0.50 99.40
## 13
          10
## 14
           4
               0.20 99.60
## 15
           4
               0.20 99.80
               0.05 99.85
## 16
           1
## 18
           2
               0.10 99.95
           1
               0.05 100.00
## Total 2000 100.00 100.00
summary(d$freres.soeurs)
##
     Min. 1st Qu. Median
                             Mean 3rd Qu.
                                             Max.
    0.000 1.000 2.000 3.283 5.000 22.000
```

```
d$age.class<-cut(d$age, breaks = 5)</pre>
d$age.class<-cut(d$age, c(18, 20, 40, 60, 80, 97),include.lowest = TRUE,</pre>
 labels = c("<20ans","21-40ans","41-60ans","61-80ans","80ans"))
#icut()
## Cutting d$age into d$age_rec
d$age_rec <- cut(d$age, include.lowest = TRUE, right = FALSE, dig.lab =</pre>
4, breaks = 5)
freq(d$age.class, cum = TRUE, total = TRUE, digits = 2, exclude = NA)
##
                     % %cum
               n
## <20ans
              72
                   3.6
                        3.6
## 21-40ans 660 33.0 36.6
## 41-60ans 780
                 39.0 75.6
## 61-80ans 436 21.8 97.4
                 2.6 100.0
## 80ans
             52
## Total
            2000 100.0 100.0
pie(table(d$sexe))
```

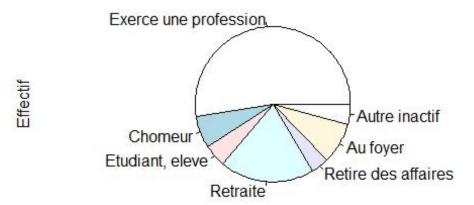


```
pie(table(d$sexe), col = c("brown", "blue"))
```

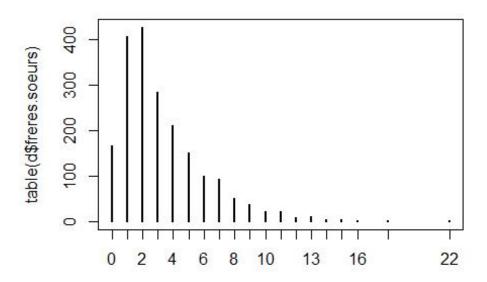




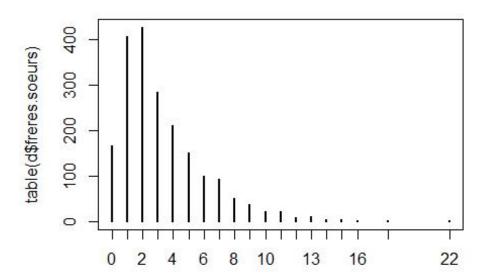
Occupation



#?pie
plot(table(d\$freres.soeurs))

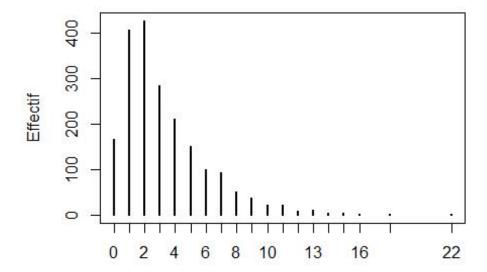


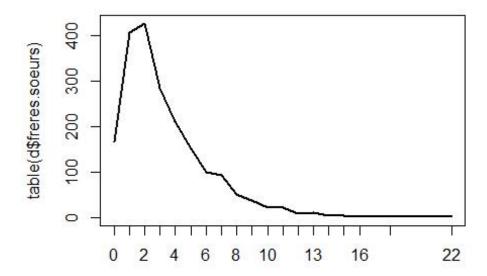
Nombre de FS



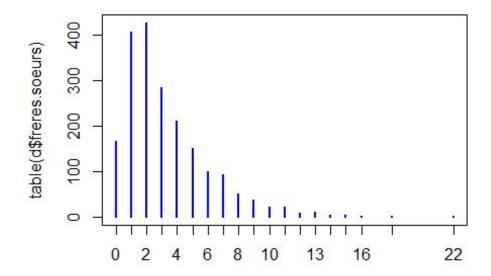
plot(table(d\$freres.soeurs), main = "Nombre de FS", ylab = "Effectif")

Nombre de FS





plot(table(d\$freres.soeurs), col = "Blue")



Nombre d'heures passées devant la télé

