03-people

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Ejemplo de color de ojos y de pelo

```
HairEyeColor
```

```
, , Sex = Male
##
##
           Eye
            Brown Blue Hazel Green
## Hair
##
     Black
               32
                     11
                            10
                            25
##
     Brown
               53
                     50
                                  15
##
     Red
               10
                     10
                            7
                                   7
##
     Blond
                3
                     30
##
##
   , , Sex = Female
##
##
           Eye
            Brown Blue Hazel Green
## Hair
     Black
##
               36
                      9
                            5
##
     Brown
               66
                     34
                            29
                                  14
##
     Red
               16
                      7
                            7
                                   7
                     64
                                   8
##
     Blond
```

sum(HairEyeColor)->total

El total de individuos de la tabla de datos es 592

```
prop.table(HairEyeColor, margin = 3)
```

```
, , Sex = Male
##
##
          Eye
## Hair
                               Blue
                                          Hazel
                                                      Green
                 Brown
     Black 0.114695341 0.039426523 0.035842294 0.010752688
##
     Brown 0.189964158 0.179211470 0.089605735 0.053763441
##
           0.035842294 0.035842294 0.025089606 0.025089606
##
     Blond 0.010752688 0.107526882 0.017921147 0.028673835
##
## , , Sex = Female
```

```
##
##
       Eye
                            Blue
## Hair
               Brown
                                     Hazel
    Black 0.115015974 0.028753994 0.015974441 0.006389776
##
    Brown 0.210862620 0.108626198 0.092651757 0.044728435
##
    Red 0.051118211 0.022364217 0.022364217 0.022364217
##
    Blond 0.012779553 0.204472843 0.015974441 0.025559105
prop.table(HairEyeColor, margin = c(1,2))
## , , Sex = Male
##
##
       Eye
## Hair
              Brown
                     Blue Hazel
##
    Black 0.4705882 0.5500000 0.6666667 0.6000000
    Brown 0.4453782 0.5952381 0.4629630 0.5172414
##
    Red 0.3846154 0.5882353 0.5000000 0.5000000
##
    Blond 0.4285714 0.3191489 0.5000000 0.5000000
##
## , , Sex = Female
##
##
       Eve
## Hair
              Brown
                       Blue
                               Hazel
                                          Green
    Black 0.5294118 0.4500000 0.3333333 0.4000000
    Brown 0.5546218 0.4047619 0.5370370 0.4827586
##
##
    Red 0.6153846 0.4117647 0.5000000 0.5000000
    Blond 0.5714286 0.6808511 0.5000000 0.5000000
aperm(HairEyeColor, perm=c("Sex", "Hair", "Eye"))
## , , Eye = Brown
##
##
          Hair
## Sex
          Black Brown Red Blond
##
   Male
           32 53 10
##
   Female
              36
                   66 16
## , , Eye = Blue
##
##
         Hair
## Sex
          Black Brown Red Blond
##
            11 50 10
    Male
                   34 7
           9
##
    Female
                             64
##
## , , Eye = Hazel
##
##
         Hair
## Sex
          Black Brown Red Blond
##
            10 25
   Male
                       7
                   29 7
##
    Female
             5
                              5
##
## , , Eye = Green
##
```

```
## Hair
## Sex Black Brown Red Blond
## Male 3 15 7 8
## Female 2 14 7 8
```

library(kableExtra)

Warning: package 'kableExtra' was built under R version 4.4.1

kable(HairEyeColor)

Hair	Eye	Sex	Freq
Black	Brown	Male	32
Brown	Brown	Male	53
Red	Brown	Male	10
Blond	Brown	Male	3
Black	Blue	Male	11
Brown	Blue	Male	50
Red	Blue	Male	10
Blond	Blue	Male	30
Black	Hazel	Male	10
Brown	Hazel	Male	25
Red	Hazel	Male	7
Blond	Hazel	Male	5
Black	Green	Male	3
Brown	Green	Male	15
Red	Green	Male	7
Blond	Green	Male	8
Black	Brown	Female	36
Brown	Brown	Female	66
Red	Brown	Female	16
Blond	Brown	Female	4
Black	Blue	Female	9
Brown	Blue	Female	34
Red	Blue	Female	7
Blond	Blue	Female	64
Black	Hazel	Female	5
Brown	Hazel	Female	29
Red	Hazel	Female	7
Blond	Hazel	Female	5
Black	Green	Female	2
Brown	Green	Female	14
Red	Green	Female	7
Blond	Green	Female	8

library(xtable)

Warning: package 'xtable' was built under R version 4.4.1

```
sex = factor(c("H","M","M","H","H","H","M","M"))
ans = factor(c("S","N","S","S","S","N","N","S"))
xtable(table(sex, ans))
```

% latex table generated in R 4.4.0 by x table 1.8-4 package % Wed Jul 31 13:08:08 2024

	N	S
H	1	2
M	2	3