

03-people

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Ejemplo de color de ojos y cabello

```
str(HairEyeColor)
```

```
## 'table' num [1:4, 1:4, 1:2] 32 53 10 3 11 50 10 30 10 25 ...
## - attr(*, "dimnames")=List of 3
## ..$ Hair: chr [1:4] "Black" "Brown" "Red" "Blond"
## ..$ Eye : chr [1:4] "Brown" "Blue" "Hazel" "Green"
## ..$ Sex : chr [1:2] "Male" "Female"
```

```
ftable((prop.table(HairEyeColor,margin = 2)))
```

	Sex	Male	Female
Hair Eye			
Black Brown		0.14545455	0.16363636
Blue		0.05116279	0.04186047
Hazel		0.10752688	0.05376344
Green		0.04687500	0.03125000
Brown Brown		0.24090909	0.30000000
Blue		0.23255814	0.15813953
Hazel		0.26881720	0.31182796
Green		0.23437500	0.21875000
Red Brown		0.04545455	0.07272727
Blue		0.04651163	0.03255814
Hazel		0.07526882	0.07526882
Green		0.10937500	0.10937500
Blond Brown		0.01363636	0.01818182
Blue		0.13953488	0.29767442
Hazel		0.05376344	0.05376344
Green		0.12500000	0.12500000

```
ftable(prop.table(HairEyeColor, margin = 2:3))
```

	Sex	Male	Female
Hair Eye			
Black Brown		0.32653061	0.29508197
Blue		0.10891089	0.07894737
Hazel		0.21276596	0.10869565
Green		0.09090909	0.06451613
Brown Brown		0.54081633	0.54098361
Blue		0.49504950	0.29824561
Hazel		0.53191489	0.63043478
Green		0.45454545	0.45161290
Red Brown		0.10204082	0.13114754
Blue		0.09900990	0.06140351
Hazel		0.14893617	0.15217391
Green		0.21212121	0.22580645
Blond Brown		0.03061224	0.03278689

```
##      Blue      0.29702970 0.56140351
##      Hazel     0.10638298 0.10869565
##      Green     0.24242424 0.25806452
```

```
aperm(HairEyeColor,c("Sex","Hair","Eye"))
```

```
## , , Eye = Brown
```

```
##
```

```
##      Hair
```

```
## Sex      Black Brown Red Blond
```

```
## Male      32     53  10     3
```

```
## Female     36     66  16     4
```

```
##
```

```
## , , Eye = Blue
```

```
##
```

```
##      Hair
```

```
## Sex      Black Brown Red Blond
```

```
## Male      11     50  10    30
```

```
## Female     9     34   7    64
```

```
##
```

```
## , , Eye = Hazel
```

```
##
```

```
##      Hair
```

```
## Sex      Black Brown Red Blond
```

```
## Male      10     25   7     5
```

```
## Female     5     29   7     5
```

```
##
```

```
## , , Eye = Green
```

```
##
```

```
##      Hair
```

```
## Sex      Black Brown Red Blond
```

```
## Male       3     15   7     8
```

```
## Female     2     14   7     8
```

```
library(kableExtra)
```

```
kable(prop.table(HairEyeColor,margin = 2:3))
```

Hair	Eye	Sex	Freq
Black	Brown	Male	0.3265306
Brown	Brown	Male	0.5408163
Red	Brown	Male	0.1020408
Blond	Brown	Male	0.0306122
Black	Blue	Male	0.1089109
Brown	Blue	Male	0.4950495
Red	Blue	Male	0.0990099
Blond	Blue	Male	0.2970297
Black	Hazel	Male	0.2127660
Brown	Hazel	Male	0.5319149
Red	Hazel	Male	0.1489362
Blond	Hazel	Male	0.1063830
Black	Green	Male	0.0909091
Brown	Green	Male	0.4545455
Red	Green	Male	0.2121212
Blond	Green	Male	0.2424242
Black	Brown	Female	0.2950820
Brown	Brown	Female	0.5409836
Red	Brown	Female	0.1311475
Blond	Brown	Female	0.0327869
Black	Blue	Female	0.0789474
Brown	Blue	Female	0.2982456
Red	Blue	Female	0.0614035
Blond	Blue	Female	0.5614035
Black	Hazel	Female	0.1086957
Brown	Hazel	Female	0.6304348
Red	Hazel	Female	0.1521739
Blond	Hazel	Female	0.1086957
Black	Green	Female	0.0645161
Brown	Green	Female	0.4516129
Red	Green	Female	0.2258065
Blond	Green	Female	0.2580645