

HairEyeColor {datasets}
R Documentation

Hair and Eye Color of Statistics Students

Description

Distribution of hair and eye color and sex in 592 statistics students.

Usage

HairEyeColor

Format

A 3-dimensional array resulting from cross-tabulating 592 observations on 3 variables. The variables and their levels are as follows:

No

Name

Levels

1

Hair

Black, Brown, Red, Blond

2

Eye

Brown, Blue, Hazel, Green

3

Sex

Male, Female

Details

This data set is useful for illustrating various techniques for the analysis of contingency tables, such as the standard chi-squared test or, more generally, log-linear modelling, and graphical methods such as mosaic

plots, sieve diagrams or association plots.

References

Snee, R. D. (1974), Graphical display of two-way contingency tables. *The American Statistician*, **28**, 9–12.

Friendly, M. (1992), Graphical methods for categorical data. *SAS User Group International Conference Proceedings*, **17**, 190–200. <http://www.math.yorku.ca/SCS/sugi/sugi17-paper.html>

Friendly, M. (1992), Mosaic displays for loglinear models. *Proceedings of the Statistical Graphics Section*, American Statistical Association, pp. 61–68. <http://www.math.yorku.ca/SCS/Papers/asa92.html>

See Also

[chisq.test](#), [loglin](#), [mosaicplot](#)

Examples

```
require(graphics)
## Full mosaic
mosaicplot(HairEyeColor)
## Aggregate over sex:
x <- apply(HairEyeColor, c(1, 2), sum)
x
mosaicplot(x, main = "Relation between hair and eye
color")
```

[Package *datasets* version 2.0.1 [Index](#)]