Package: barcode (via r-universe)

September 17, 2024

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barcode	Barcode plots

Description

Produce barcode plot(s) of the given (grouped) values.

Usage

Arguments

x	a vector of values for which the barcode is desired, or a list of such vectors for "side-by-side" barcodes. Matrices are coerced to data frames and treated as lists NA's are allowed in the data.
outer.margins	a list of length 4 with units as components named bottom, left, top, and right, giving the outer margins. Defaults to two lines of text.
horizontal	logical indicating the barcode orientation; the default, TRUE, produces horizontal barcodes.
xlim	the x limits (xmin, xmax) of the plot; the default, NULL, uses the range of the full data, range(unlist(x)), plus the multiplicative buffer.
nint	default, 0, uses no "binning"— i.e., the barcode presents the exact measurements, to the precision of the data set; nint=100 uses roughly 100 "bins" in constructing the barcode; fewer bins give a more histogram-like plot.
main	the plot title.
xlab	the axis label for the quantitative measurements.
labelloc	for the location of the factor labels of the barcodes; default TRUE may also be specified as 'left' or 'top' (having similar results but relating to the horizontal

alignment); values 'right' or 'bottom' are available as alternatives to FALSE.

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axisloc for the location of the quantitative axis labels; default, TRUE, may also be specified as 'left' or 'top' (having similar results but relating to the horizontal alignment); values 'right' or 'bottom' are available as alternatives to FALSE. labelouter default, FALSE, positions all labels within the viewport; TRUE forces the barcodes to the edge of the viewport, with the labels outside the viewport. May be of use to advanced users. default, TRUE, creates the barcodes in a new graphics device instead of adding newpage the plot to the current viewport. for the size of the axis and factor labels. fontsize for the size of the plotted points. ptsize ptpch for the type of plotted points. bcspace indicates the proportion of total available space occupied by the barcode part of the displays. Can range from 0 to 1; reasonable values seem to be between 0.1 and 0.5. default FALSE uses segments instead of points in the histogram-style display. use.points used for tuning the position of the label of the quantitative variable; needs to be xlaboffset buffer an additional proportion of empty space added to the right and left of the barcode, to avoid having the maximum and minimum on the frame of the plot. log if TRUE, use the log scale for the y-axis of the histogram-like part of the barcodes.

Details

outerbox

The barcode plot aids in comparing distributions. It shares some of the characteristics of side-byside histograms or boxplots, and of rugs or stripplots. We have found it particularly useful with clumped data, when other methods obscure detail.

if TRUE, plot a box around the display.

Note

John Hartigan designed and implemented an early version of the barcode plot. The implementation provided here uses grid graphics, adds some useful options, and is better suited for general distribution.

Author(s)

John W. Emerson and Walton A. Green and John A. Hartigan

References

Chambers, J. M. and Hastie, T. J. (1992) Statistical Models in S. Wadsworth & Brooks/Cole.

See Also

YaleToolkit, gpairs, rug, stripplot

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Examples

NewHavenResidential

New Haven, CT Residential Property Data

Description

Selected characteristics of a set of small residential properties in New Haven, CT (excluding larger multi-family properties and apartment buildings).

Usage

```
data(NewHavenResidential)
```

Format

A data frame with 18221 observations on the following 8 variables.

totalCurrVal the 2006 assessed value of the property

livingArea the living area in square feet

dep the amount of depreciation, as a percent

size the size of the land, in acres

zone the residential zone, a factor with levels Other RM RS

acType whether the property has central air conditioning: a factor with levels AC No AC

bedrms the number of bedrooms

bathrms the number of bathrooms

Details

The data have been cleaned somewhat, with emphasis on somewhat. For example, there is a property (a very nice one), which has an extremely low assessed value, given its characteristics. It happens to straddle the border between New Haven and Hamden, and so it pays only a proportion of it's property taxes to the City of New Haven.

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Source

John W. Emerson, from the City of New Haven's property database, which contains more than 27,000 property records (including, for example, the New Haven Airport) and many more variables than included here.

Examples

```
# This example is excluded from running automatically in the checks
# because it takes a little while to produce.

## Not run:
    data(NewHavenResidential)
    gpairs(NewHavenResidential)

## End(Not run)
```

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