Package ‘mountainplot’

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Title  Mountain Plots, Folded Empirical Cumulative Distribution Plots
Version  1.4
License  GPL-3

Description  Lattice functions for drawing folded empirical cumulative
distribution plots, or mountain plots. A mountain plot is similar
to an empirical CDF plot, except that the curve increases from
0 to 0.5, then decreases from 0.5 to 1 using an inverted scale at

URL  https://kwstat.github.io/mountainplot/

BugReports  https://github.com/kwstat/mountainplot/issues
VignetteBuilder  knitr
Imports  lattice, stats
Suggests  knitr, latticeExtra, rmarkdown, testthat
Encoding  UTF-8
RoxygenNote  7.1.2

NeedsCompilation  no

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Description

A mountain plot is similar to an empirical CDF, but _decreases_ from .5 down to 1, using a separate scale on the right axis.

Usage

```r
mountainplot(x, data, ...)
mountainplotyscale.components(...)
```

```r
## S3 method for class 'formula'
mountainplot(
  x,
  data = NULL,
  prepanel = "prepanel.mountainplot",
  panel = "panel.mountainplot",
  ylab = gettext("Folded Empirical CDF"),
  yscale.components = mountainplotyscale.components,
  scales = list(y = list(alternating = 3)),
  ...)
```

```r
## S3 method for class 'numeric'
mountainplot(x, data = NULL, xlab = deparse(substitute(x)), ...)
```

Arguments

- `x`: Variable in the data.frame `data`.
- `data`: A data frame
- `...`: Other arguments
- `prepanel`: The prepanel function. Default "prepanel.mountainplot".
- `panel`: The panel function. Default "panel.mountainplot".
- `ylab`: Vertical axis label.
- `yscale.components`: Function for drawing left and right side axes.
- `scales`: The "scales" argument used by lattice functions.
- `xlab`: Horizontal axis label.

Details

Note that `mountainplotyscale.components` is not really intended to be called by the user, but is used by lattice to configure the right-axis ticks and labels.
Value

A lattice object

References


Examples

data(singer, package = "lattice")
singer <- within(singer, {
    section <- voice.part
    section <- gsub(" 1", "", section)
    section <- gsub(" 2", "", section)
    section <- factor(section)
})
mountainplot(~height, data = singer, type='s')
mountainplot(~height|voice.part, data = singer, type='p')
mountainplot(~height|section, data = singer, groups=voice.part, type='l',
    auto.key=list(columns=4), as.table=TRUE)

panel.mountainplot

The panel function for mountainplot

Description

The panel function for mountainplot

Usage

panel.mountainplot(x, type = "s", groups = NULL, ref = TRUE, ...)

Arguments

x
  The data to be plotted.

type
  The type of ecdf line to use. Default is 's' square.

groups
  Variable to use for grouping

ref
  If TRUE, draw horizontal reference lines at 0,1

... Other arguments
Description

The prepanel function for mountainplot

Usage

prepanel.mountainplot(x, ...)

Arguments

x  The data to be plotted.
... Other arguments
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