Package ‘mountainplot’

April 17, 2021

Title  Mountain Plots, Folded Empirical Cumulative Distribution Plots
Version  1.3
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
RoxygenNote  7.1.1
NeedsCompilation  no
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Mountaingplot

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

## 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)),
  ...
)

## 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".
lab 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**

```r
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)
```

**Description**

The panel function for mountainplot

**Usage**

```r
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
prepanel.mountainplot  The prepanel function for mountainplot

Description
The prepanel function for mountainplot

Usage
prepanel.mountainplot(x, ...)

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