visHexBarplot

June 24, 2016

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visHexBarplot   *Function to visualise codebook matrix using barplot for all hexagons or a specific one*

Description

visHexBarplot is supposed to visualise codebook matrix using barplot for all hexagons or a specific one

Usage

```
visHexBarplot(sObj, which.hexagon = NULL, height = 7, margin = rep(0.1,
4), colormap = c("customized", "bwr", "jet", "gbr", "wyr", "br", "yr",
"rainbow", "wb"), customized.color = "red", zeropattern.color = "gray",
gp = grid::gpar(cex = 0.7, font = 1, col = "black"), bar.text.cex =
0.8,
bar.text.srt = 90, newpage = T)
```

Arguments

sObj	an object of class "sMap" or "sTopol" or "sInit"
which.hexagon	the integer specifying which hexagon to display. If NULL, all hexagons will be visualised
height	a numeric value specifying the height of device
margin	margins as units of length 4 or 1
colormap	short name for the predifined colormap, and "customized" for custom input (see the next 'customized.color'). The predifined colormap can be one of "jet" (jet colormap), "bwr" (blue-white-red colormap), "gbr" (green-black-red colormap), "wyr" (white-yellow-red colormap), "br" (black-red colormap), "yr" (yellow-red colormap), "wb" (white-black colormap), and "rainbow" (rainbow colormap, that is, red-yellow-green-cyan-blue-magenta). Alternatively, any hyphen-separated HTML color names, e.g. "blue-black-yellow", "royalblue-white-sandybrown", "darkgreen-white-darkviolet". A list of standard color names can be found in http://html-color-codes.info/color-names
customized.color	the customized color for pattern visualisation

zeropattern.color	
	the color for zero horizental line
gp	an object of class "gpar". It is the output from a call to the function "gpar" (i.e., a list of graphical parameter settings)
bar.text.cex	a numerical value giving the amount by which bar text should be magnified relative to the default (i.e., 1)
bar.text.srt	a numerical value giving the angle by which bar text should be orientated
newpage	logical to indicate whether to open a new page. By default, it sets to true for opening a new page

Value

invisible

Note

See Also

[sPipeline](), [visColormap]()

Examples

```
# 1) generate data with an iid matrix of 1000 x 9
data <- cbind(matrix(rnorm(1000*3,mean=0,sd=1), nrow=1000, ncol=3),
matrix(rnorm(1000*3,mean=0.5,sd=1), nrow=1000, ncol=3),
matrix(rnorm(1000*3,mean=-0.5,sd=1), nrow=1000, ncol=3))
colnames(data) <- c("S1","S1","S1","S2","S2","S2","S3","S3","S3")

# 2) sMap resulted from using by default setup
sMap <- sPipeline(data=data)

# 3) plot codebook patterns using different types
# 3a) for all hexagons
visHexBarplot(sMap)
# 3b) only for the first hexagon
visHexBarplot(sMap, which.hexagon=1)
```