Package: heatmap.plus (via r-universe)

November 19, 2026

Type Package

Title Heatmap with more Sensible Behavior

Version 1.3.9001

Author Allen Day [aut, cre]

Maintainer Allen Day <allenday@ucla.edu>

Description Allows heatmap matrix to have non-identical X- and Y-dimensions. Allows multiple tracks of annotation for RowSideColors and ColSideColors. Compatibility updates by Renova.

License GPL

Repository https://renova-r.r-universe.dev

Date/Publication 2026-11-19 06:18:55 UTC

RemoteUrl https://github.com/renova-r/heatmap.plus

RemoteRef renova-1.3.9001

RemoteSha 9a134fa0e2a4e125df032835042e6f3b0e17b69e

Contents

heatmap.plus.package 1

Index **4**

`heatmap.plus.package` *Heatmap with more sensible behavior*

Description

Call exactly as you would the base heatmap() function. Only two optional parameters' values should differ, RowSideColors and ColSideColors. They should be matrices instead of vectors, where colnames() on each matrix is a vector of the annotation track names. One annotation track will be drawn per column. See help('heatmap') for documentation of arguments not documented here.

Usage

```
heatmap.plus(x, Rowv = NULL, Colv = if (symm) "Rowv" else NULL,
             distfun = dist, hclustfun = hclust,
             reorderfun = function(d, w) reorder(d, w), add.expr,
             symm = FALSE, revC = identical(Colv, "Rowv"),
             scale = c("row", "column", "none"), na.rm = TRUE,
             margins = c(5, 5), ColSideColors, RowSideColors,
             cexRow = 0.2 + 1/log10(nr), cexCol = 0.2 + 1/log10(nc),
             labRow = NULL, labCol = NULL, main = NULL, xlab = NULL,
             ylab = NULL, keep.dendro = FALSE,
             verbose = getOption("verbose"), ...)
```

Arguments

x	numeric matrix of the values to be plotted.
Rowv	determines if and how the *row* dendrogram should be computed and reordered. Either a dendrogram or a vector of values used to reorder the row dendrogram or NA to suppress any row dendrogram (and reordering) or by default, NULL, see *Details* below.
Colv	determines if and how the *column* dendrogram should be reordered. Has the same options as the Rowv argument above and *additionally* when x is a square matrix, Colv = "Rowv" means that columns should be treated identically to the rows.
distfun	function used to compute the distance (dissimilarity) between both rows and columns. Defaults to dist.
hclustfun	function used to compute the hierarchical clustering when Rowv or Colv are not dendrograms. Defaults to hclust.
reorderfun	function(d,w) of dendrogram and weights for reordering the row and column dendrograms. The default uses reorder.dendrogram.
add.expr	expression that will be evaluated after the call to image. Can be used to add components to the plot.
symm	logical indicating if x should be treated **symm**etrically; can only be true when x is a square matrix.
revC	logical indicating if the column order should be reversed for plotting, such that e.g., for the symmetric case, the symmetry axis is as usual.
scale	character indicating if the values should be centered and scaled in either the row direction or the column direction, or none. The default is "row" if symm false, and "none" otherwise.
na.rm	logical indicating whether NA's should be removed.
margins	numeric vector of length 2 containing the margins (see par(mar= *)) for column and row names, respectively.
ColSideColors	(optional) character matrix with number of rows matching number of rows in x. Each column is plotted as a row similar to heatmap()'s ColSideColors. colnames() will be used for labels if present.

RowSideColors	(optional)character matrix with number of rows matching number of columns in x. Each column is plotted as a row similar to heatmap()'s RowSideColors. colnames() will be used for labels if present.
cexRow, cexCol	positive numbers, used as cex.axis in for the row or column axis labeling. The defaults currently only use number of rows or columns, respectively.
labRow, labCol	character vectors with row and column labels to use; these default to rownames(x) or colnames(x), respectively.
main, xlab, ylab	main, x- and y-axis titles; defaults to none.
keep.dendro	logical indicating if the dendrogram(s) should be kept as part of the result (when Rowv and/or Colv are not NA).
verbose	logical indicating if information should be printed.
...	additional arguments passed on to image, e.g., col specifying the colors.

Author(s)

Allen Day

See Also

heatmap

Examples

```
z = matrix(rnorm(30),nrow=5,ncol=6);
rlab = matrix(as.character(c(1:5,2:6,3:7,4:8)),nrow=5,ncol=4);
clab = matrix(as.character(c(1:6,6:1)),nrow=6,ncol=2);
colnames(rlab) = LETTERS[1:dim(rlab)[2]];
colnames(clab) = 1:dim(clab)[2];
heatmap.plus(z,ColSideColors=clab,RowSideColors=rlab);
```

Index

∗ **data**
heatmap.plus.package, 1

dendrogram, *2*
dist, *2*

hclust, *2*
heatmap, *3*
heatmap.plus *(*heatmap.plus.package*)*, 1
heatmap.plus.package, 1

image, *3*

NA, *2*
NULL, *2*

par, *2*

reorder.dendrogram, *2*
rev, *2*