

# Package ‘plot.matrix’

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**Type** Package

**Title** Visualizes a Matrix as Heatmap

**Version** 1.0

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**Description**

Visualizes a matrix object plainly as heatmap. It provides a single S3 function plot for matrices.

**License** GPL-3

**RoxygenNote** 6.1.0

**NeedsCompilation** no

**Repository** CRAN

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### Description

Visualizes a matrix with a heatmap and distinguishes between numeric and non-numeric matrices. You may need to modify `mar` with the `par` command from its default `c(5.1, 4.1, 4.1, 2.1)`.

### Usage

```
## S3 method for class 'matrix'  
plot(x, y = NULL, digits = NA, col = NULL,  
     breaks = NULL, key = list(cex.axis = 1), na.col = "white", ...)
```

**Arguments**

x	matrix
y	unused
digits	number of digits for numeric data or length of string for non-numeric data
col	a vector of colors
breaks	breaks for numeric values or values for col
key	list of parameters used for <code>axis</code> . If set to NULL then no information will be plotted.
na.col	color for missing value (default: white)
...	further parameter given to the <code>plot</code> command

**Details**

In case of a numeric matrix it should hold `length(breaks)==length(col)+1`. If not or not given at all then the breaks is recalculated as an equidistant grid between `min(breaks)` and `max(breaks)`. If col is not given then `heat.colors(10)` is used.

In case of a non-numeric matrix it should hold `length(breaks)==length(col)`. If not given at all then the breaks is determined by the unique elements of the matrix. If col is not given then `heat.colors` is used with the number of unique elements in x.

**Value**

a plot

**Examples**

```
par(mar=c(5.1, 4.1, 4.1, 4.1))
# numeric matrix
x <- matrix(runif(50), nrow=10)
plot(x)
plot(x, key=NULL)
plot(x, key=list(cex.axis=0.5, tick=FALSE))
plot(x, digits=3)
plot(x, breaks=c(0,1), digits=3, cex=0.6)
# logical matrix
m <- matrix(runif(50)<0.5, nrow=10)
plot(m)
plot(m, key=NULL, digits=1)
# character matrix
s <- matrix(sample(letters[1:10], 50, replace=TRUE), nrow=10)
plot(s)
plot(s, digits=10)
plot(s, digits=10, col=heat.colors(5), breaks=letters[1:5])
```

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