

Package: `kwb.rect` (via `r-universe`)

November 20, 2024

Title R Package for Plotting Rectangles

Version 0.0.0.9000

Description This package provides functions to define and plot rectangles, e.g. to plot rectangles side-by-side or on top of each other.

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URL <https://github.com/KWB-R/kwb.rect>

BugReports <https://github.com/KWB-R/kwb.rect/issues>

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Suggests covr

Imports dplyr, kwb.utils, magrittr

Remotes github::KWB-R/kwb.utils@dev

Repository <https://kwb-r.r-universe.dev>

RemoteUrl <https://github.com/KWB-R/kwb.rect>

RemoteRef HEAD

RemoteSha 063a202f1ca6cb50cee92cffdb5d4df7dd9d1628

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c.rects

Combine Rectangles

Description

Combine Rectangles

Usage

```
## S3 method for class 'rects'  
c(...)
```

Arguments

... one or more objects of class "rects"

move

Generic Function to Move Objects

Description

Generic Function to Move Objects

Usage

```
move(rects, ...)
```

Arguments

rects objects to be moved

... arguments passed to class methods

move.rects	<i>Move Rectangles</i>
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Description

Move Rectangles

Usage

```
## S3 method for class 'rects'
move(
  rects,
  dx = 0,
  dy = 0,
  top = NULL,
  bottom = NULL,
  left = NULL,
  right = NULL,
  each = FALSE,
  ...
)
```

Arguments

rects	A "rects" object
dx	delta x
dy	delta y
top	top position
bottom	bottom position
left	left position
right	right position
each	logical indicating whether to move each rectangle or the group of rectangles
...	additional arguments (currently not used)

new_rects	<i>Create a "rects" object</i>
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Description

Create a "rects" object

Usage

```

new_rects(
  w = 1,
  h = 1,
  llx = 0,
  lly = 0,
  lbl_text = NULL,
  lbl_align = "centre",
  density = -1,
  angle = 45,
  col = NA,
  border = graphics::par("fg"),
  lty = graphics::par("lty"),
  lwd = graphics::par("lwd"),
  n = NULL
)

```

Arguments

w	width(s) of rectangle(s)
h	height(s) of rectangle(s)
llx	x position(s) of lower left corner(s) of rectangle(s)
lly	y position(s) of lower left corner(s) of rectangle(s)
lbl_text	text label(s)
lbl_align	label alignment(s), default: "centre"
density	density of shade lines. Default: -1
angle	angle of shade lines. Default: 45
col	fill colour(s) of rectangles
border	border colour(s) of rectangles
lty	line type(s) of rectangles
lwd	line width(s) of rectangles
n	number of rectangles. All other arguments are recycled to vectors of this length.

plot.rects

Plot Rectangles

Description

Plot Rectangles

Usage

```

## S3 method for class 'rects'
plot(x, add = !is.null(grDevices::dev.list()), cex = 1, y = NULL, ...)

```

Arguments

x	object of class "rects"
add	logical indicating whether to add rectangles to an existing plot or to start a new plot
cex	character expansion factor
y	not used. Just there to comply with the generic plot() interface.
...	additional arguments (currently not used)

separate.rects	<i>Separate Rectangles</i>
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Description

Separate Rectangles

Usage

```
## S3 method for class 'rects'
separate(x, dx = 0, dy = 0, ...)
```

Arguments

x	"rects" object
dx	space in horizontal direction to be put in between the rectangles
dy	space in vertical direction to be put in between the rectangles
...	further arguments (currently not used)

stack	<i>Stack Rectangles</i>
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Description

Stack Rectangles

Usage

```
stack(rects, ...)
```

Arguments

rects	a "rects" object
...	further arguments passed to stack.rects

stack.rects	<i>Stack Rectangles Vertically or Horizontally</i>
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Description

Stack Rectangles Vertically or Horizontally

Usage

```
## S3 method for class 'rects'  
stack(rects, horizontal = FALSE, delta = 0, reverse = FALSE, ...)
```

Arguments

rects	a "rects" object as returned by new_rects
horizontal	whether to stack the rectangles horizontally or not. The default is FALSE, i.e. rectangles are stacked vertically.
delta	space between rectangles, default: 0
reverse	whether or not to reverse the stack order. The default is FALSE.
...	not used

Examples

```
rects <- new_rects(w = 1:3)  
stacked_vertically <- stack(rects)  
stacked_horizontally <- stack(rects, horizontal = TRUE)  
plot(stacked_vertically, add = FALSE)  
plot(stacked_horizontally, add = FALSE)  
stacked_vertically_spaced <- stack(rects, delta = 0.1)  
stacked_horizontally_spaced <- stack(rects, horizontal = TRUE, delta = 0.1)  
plot(stacked_vertically_spaced, add = FALSE)  
plot(stacked_horizontally_spaced, add = FALSE)
```

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