

Package: birdseyeview (via r-universe)

September 10, 2024

Type Package

Title Make Planning Maps, Tables, and Visualizations

Version 0.1.0

Description This package helps create maps, tables, and figures for planning documents using open spatial data. birdseyeview is designed to work with the sfext and maplayer packages and relies on sf, ggplot2, and gt.

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URL <https://elipousson.github.io/birdseyeview/>

Imports cli, dplyr, ggplot2, glue, gt, magrittr, purrr, rlang, sf, sfext, tibble, tidyselect, utils

Suggests forcats, getdata (>= 0.1.0), knitr, maplayer (>= 0.1.0), rmarkdown, scales

VignetteBuilder knitr

Remotes elipousson/getdata, elipousson/maplayer, elipousson/sfext

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.0.9000

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

RemoteUrl <https://github.com/elipousson/birdseyeview>

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gt_merge_stack	<i>Merge and stack text from two columns in gt (variation on {gtExtras})</i>
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Description

A variation on the [gtExtras::gt_merge_stack](#) function that implements a horizontal rule parameter separating the top and bottom text and simplifies the requirements for the input variables. {gtExtras} was created by Thomas Mock and is available under an MIT License.

Usage

```
gt_merge_stack(
  gt_object,
  columns = c(1, 2),
  font_color = c("black", "grey"),
  ...,
  small_cap = FALSE,
  font_size = c(14, 10),
  font_weight = "bold",
  h_rule = FALSE
)
```

Arguments

gt_object	An existing gt table object of class gt_tbl
columns	Columns to stack, Default: c(1, 2)
font_color	Color(s) to use for stacked text. Default: c("black", "grey")
...	Arguments passed on to scales::col2hcl h Hue, [0, 360] c Chroma, [0, 100] l Luminance, [0, 100] alpha Alpha, [0, 1].
small_cap	a logical indicating whether to use 'small-cap' on the top line of text
font_size	a string of length 2 indicating the font-size in px of the top and bottom text
font_weight	a string of length 2 indicating the 'font-weight' of the top and bottom text. Must be one of 'bold', 'normal', 'lighter'
h_rule	Horizontal rule to separate top and bottom column text. If TRUE, use a 1px line with a 2px margin on top and bottom. If FALSE, include no horizontal rule. To create a custom rule, provide a <hr> thematic break tag or a <div> with css styling.

gt_sf_rows

*Add maps of simple features into rows of a gt table***Description**

Add maps of simple features into rows of a gt table with ggplot2. Function naming convention borrowed from [gtExtras::gt_img_rows](#). Previously named `gt_geom_sf_rows`.

Usage

```
gt_sf_rows(
  gt_object,
  mapping = NULL,
  fill = NA,
  color = "black",
  size = 1,
  linetype = "solid",
  height = 100,
  asp = 1,
  geom = "sf",
  layer_fn = NULL,
  sf_label = "map",
  ...
)
```

Arguments

gt_object	An existing gt table object of class <code>gt_tbl</code> or an sf object. If a <code>gt_object</code> must be convertible to an sf object with <code>sf::st_as_sf()</code> (e.g. geometry must be retained before passing to <code>gt::gt()</code>).
mapping	aesthetic mapping passed to <code>maplayer::layer_location_data()</code> , Default: NULL
fill	Fill (used for polygon geometry), Default: NA
color	Color (used for polygon, point, and line geometry), Default: 'black'
size	Color (used for polygon, point, and line geometry), Default: 1
linetype	Color (used for polygon and line geometry), Default: 'solid'
height	The absolute height (px) of the map in the table cell
asp	The aspect ratio of the map in the table cell.
layer_fn	Optional rowwise function that results in ggplot2 map the replaces geometry column.
sf_label	Label used for column with ggplot2 map.

tbl_marker_key	<i>Make a key for a marker map</i>
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Description

Designed for use with maps created using `layer_show_markers()`

Usage

```
tbl_marker_key(
  data,
  title_col = NULL,
  groupname_col = NULL,
  number_col = NULL,
  color = FALSE,
  palette = NULL
)
```

Arguments

<code>data</code>	Data frame or sf object with marker data
<code>title_col</code>	Title column name, Default: NULL
<code>groupname_col</code>	Group column name, Default: NULL
<code>number_col</code>	Number column name, Default: NULL. If NULL and data does not contain a column named "number", add a number column created using <code>dplyr::row_number()</code> function.
<code>color</code>	If TRUE, apply a cell fill color to the group headings in the table (defined by <code>groupname_col</code>)
<code>palette</code>	palette to use for the group heading fill colors (passed to <code>group_data_pal()</code>)

tbl_photo_key	<i>Create numbered photo key as a gt table (not working)</i>
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Description

Designed to work with the `sfext::read_sf_exif` function. More information on this approach here <https://elipousson.github.io/posts/2021-03-06-creating-a-key-map-for-photographs-with-r/>

Usage

```
tbl_photo_key(  
  data,  
  height = 240,  
  asp = 0.75,  
  photo_col = "photo",  
  title_col = "title",  
  title_size = "large",  
  title_align = "right",  
  number = FALSE,  
  orientation = NULL  
)
```

Arguments

data	sf object or data frame with photo column containing the file path or url for photos.
height	The height in pixels of image in table.
asp	Aspect ratio of image (width/height)
photo_col	Photo path/url column name.
title_col	Title/description column name.
title_size	Title text size, Default: 'large'
title_align	Title tex alignment, Default: 'right'
number	If TRUE, add a number column that will by 20% of the width of the photo column; defaults to FALSE. There may be a name conflict if the dataframe already contains a column named "rowid".
orientation	Orientation to filter by if data contains image_width and image_height columns.

Details

Function naming convention inspired by the gtsummary package <https://www.danielsjoberg.com/gtsummary/index.html>

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