Package 'ggfittext'

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2 animals

Index 8

altitudes

Some craft and their altitudes

Description

Some craft and their altitudes

Usage

altitudes

Format

A data frame with 4 rows and 2 variables:

craft the name of the craft

altitude the craft's normal cruising altitude in metres

animals

Six animals

Description

Six animals

Usage

animals

Format

A data frame with 6 rows and 4 variables:

animal the name of the animal

type the type of animal

flies whether the animal can fly

mass the average mass of the animal in grams

coffees 3

coffees

The composition of two espresso-based beverages

Description

The composition of two espresso-based beverages

Usage

coffees

Format

A data frame with 6 rows and 3 variables:

```
coffee the name of the beverage
```

ingredient the ingredient

proportion the proportion of a cup to fill with the ingredient

geom_bar_text

A 'ggplot2' geom to fit text inside a box

Description

geom_fit_text() shrinks, grows and wraps text to fit inside a defined box. geom_bar_text() is a
convenience wrapper around geom_fit_text() for labelling bar plots generated with geom_col()
and geom_bar().

Usage

```
geom_bar_text(
  mapping = NULL,
  data = NULL,
  stat = "identity",
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
  padding.x = grid::unit(1, "mm"),
  padding.y = grid::unit(1, "mm"),
  min.size = 8,
  place = NULL,
  grow = FALSE,
  reflow = FALSE,
  hjust = NULL,
```

geom_bar_text

```
vjust = NULL,
  fullheight = NULL,
 width = NULL,
 height = NULL,
  formatter = NULL,
  contrast = NULL,
 outside = NULL,
)
geom_fit_text(
 mapping = NULL,
 data = NULL,
  stat = "identity",
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
  padding.x = grid::unit(1, "mm"),
  padding.y = grid::unit(1, "mm"),
 min.size = 4,
 place = "centre",
 outside = FALSE,
  grow = FALSE,
  reflow = FALSE,
  hjust = NULL,
  vjust = NULL,
  fullheight = NULL,
 width = NULL,
  height = NULL,
  formatter = NULL,
  contrast = FALSE,
)
```

Arguments

5 geom_bar_text

> and 'center'/' middle' which are both synonyms for 'centre'. For geom_bar_text(), will be set heuristically if not specified.

If TRUE, text will be grown as well as shrunk to fill the box. Defaults to FALSE. grow reflow If TRUE, text will be reflowed (wrapped) to better fit the box. Defaults to FALSE.

hjust, vjust Horizontal and vertical justification of the text. By default, these are automati-

cally set to appropriate values based on place.

fullheight If TRUE, descenders will be counted when resizing and placing text; if FALSE,

> only the x-height and ascenders will be counted. The main use for this option is for aligning text at the baseline (FALSE) or preventing descenders from spilling outside the box (TRUE). By default this is set automatically depending on place

and grow.

When using x and/or y aesthetics, these set the width and/or height of the box. width, height

These should be either grid::unit() objects or numeric values on the x and y

scales.

formatter A function that will be applied to the text before it is drawn. This is useful

> when using geom_fit_text() in context involving interpolated variables, such as with the 'gganimate' package. formatter will be applied serially to each element in the label column, so it does not need to be a vectorised function.

If TRUE and in combination with a fill aesthetic, the colour of the text will be contrast

inverted for better contrast against dark background fills. FALSE by default for

geom_fit_text(), set heuristically for geom_bar_text().

outside If TRUE, text placed in one of 'top', 'right', 'bottom' or 'left' that would need to

be shrunk smaller than min. size to fit the box will be drawn outside the box if possible. This is mostly useful for drawing text inside bar/column geoms. Defaults to TRUE for position = "identity" when using geom_bar_text(),

otherwise FALSE.

Details

Except where noted, geom_fit_text() behaves more or less like ggplot2::geom_text().

There are three ways to define the box in which you want the text to be drawn. The extents of the box on the x and y axes are independent, so any combination of these methods can be used:

- 1. If the x and/or y aesthetics are used to set the location of the box, the width or height will be set automatically based on the number of discrete values in x and/and y.
- 2. Alternatively, if x and/or y aesthetics are used, the width and/or height of the box can be overridden with a 'width' and/or 'height' argument. These should be grid::unit() objects; if not, they will be assumed to use the native axis scale.
- 3. The boundaries of the box can be set using the aesthetics 'xmin' and 'xmax', and/or 'ymin' and 'ymax'.

If the text is too big for the box, it will be shrunk to fit the box. With grow = TRUE, the text will be made to fill the box completely whether that requires shrinking or growing.

reflow = TRUE will cause the text to be reflowed (wrapped) to better fit in the box. If the text cannot be made to fit by reflowing alone, it will be reflowed then shrunk to fit the box. Existing line breaks in the text will be respected when reflowing.

6 gold

geom_fit_text() includes experimental support for drawing text in polar coordinates (by adding coord_polar() to the plot), however not all features are available when doing so.

Aesthetics

- label (required)
- (xmin AND xmax) OR x (required)
- (ymin AND ymax) OR y (required)
- alpha
- angle
- colour
- · family
- fontface
- lineheight
- size

Examples

```
ggplot2::ggplot(ggplot2::presidential, ggplot2::aes(ymin = start, ymax = end,
    label = name, x = party)) +
    geom_fit_text(grow = TRUE)
```

ggfittext

'ggfittext': provides a 'ggplot2' geom to fit text inside a box.

Description

This package provides only one function, geom_fit_text().

gold

Robert Frost's poem Nothing Gold Can Stay

Description

Robert Frost's poem Nothing Gold Can Stay

Usage

gold

gold 7

Format

A data frame with 8 rows and 5 variables:

label a line from the poem

xmin the xmin coordinate with which to draw the word

xmax the xmax coordinate with which to draw the word

ymin the ymin coordinate with which to draw the word

ymax the ymax coordinate with which to draw the word

line the line number

Index

```
*Topic datasets
    altitudes, 2
    animals, 2
    coffees, 3
    gold, 6

altitudes, 2
animals, 2

coffees, 3

geom_bar_text, 3
geom_fit_text (geom_bar_text), 3
ggfittext, 6
gold, 6
```