# Package 'ggfittext'

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Title Fit Text Inside a Box in 'ggplot2'
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<b>Description</b> A 'ggplot2' extension to fit text into a box by growing, shrinking or wrapping the text.
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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

Some animals and their attributes

#### **Description**

Some animals and their attributes

# 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

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animals\_rich

Some animals and their attributes, in rich text

# **Description**

Some animals and their attributes, in rich text

# Usage

animals\_rich

#### **Format**

A data frame with 6 rows and 4 variables:

animal the name of the animal, in rich text

type the type of animal

flies whether the animal can fly

mass the average mass of the animal in grams

beverages

The compositions of some espresso-based beverages

# Description

The compositions of some espresso-based beverages

#### Usage

beverages

#### **Format**

A data frame with 6 rows and 3 variables:

beverage the name of the beverage

ingredient the ingredient

proportion the proportion of a cup to fill with the ingredient

geom\_bar\_text

beverages\_rich

The compositions of some espresso-based beverages, in rich text

### **Description**

The compositions of some espresso-based beverages, in rich text

#### Usage

```
beverages_rich
```

#### **Format**

A data frame with 6 rows and 3 variables:

beverage the name of the beverage

ingredient the ingredient, in rich text

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,
  outside = NULL,
  grow = FALSE,
  reflow = FALSE,
```

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```
hjust = NULL,
  vjust = NULL,
  fullheight = NULL,
 width = NULL,
  height = NULL,
  formatter = NULL,
  contrast = NULL,
 rich = FALSE,
)
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,
  flip = FALSE,
  rich = FALSE,
)
```

#### **Arguments**

geom\_bar\_text

	to fit the box will be hidden. Defaults to 4 pt (8 pt for geom_bar_text())
place	Where inside the box to place the text. Default is 'centre'; other options are 'topleft', 'top', 'topright', 'right', 'bottomright', 'bottom', 'bottomleft', 'left', and 'center'/'middle' which are both synonyms for 'centre'. For geom_bar_text(), will be set heuristically if not specified.
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.
grow	If TRUE, text will be grown as well as shrunk to fill the box. Defaults to FALSE.
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 automatically 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.
width, height	When using x and/or y aesthetics, these set the width and/or height of the box. 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.
contrast	If TRUE and in combination with a fill aesthetic, the colour of the text will be inverted for better contrast against dark background fills. FALSE by default for geom_fit_text(), set heuristically for geom_bar_text().
rich	If TRUE, text will be formatted with markdown and HTML markup as implemented by gridtext::richtext_grob(). FALSE by default. Rich text cannot be drawn in polar coordinates. Please note that rich text support is <b>experimental</b> and breaking changes are likely
flip	If TRUE, when in polar coordinates 'upside-down' text will be flipped the 'right way up', to enhance readability.

# **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.

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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.

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)
```

gold

Robert Frost's poem Nothing Gold Can Stay (1923)

#### **Description**

Robert Frost's poem Nothing Gold Can Stay (1923)

#### Usage

gold

8 gold

# **Format**

A data frame with 8 rows and 5 variables:

line a line from the poem

xmin the xmin coordinate with which to draw the line

xmax the xmax coordinate with which to draw the line

ymin the ymin coordinate with which to draw the line

ymax the ymax coordinate with which to draw the line

linenumber the line number

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