

# Package ‘ggfittext’

July 6, 2018

**Title** Fit Text Inside a Box in 'ggplot2'

**Version** 0.6.0

**Description** Provides 'ggplot2' geoms to fit text into a box by growing, shrinking or wrapping the text.

**Depends** R (>= 3.1)

**License** GPL-2

**LazyData** true

**Imports** grid (>= 3.1), stringi (>= 1.1.2), ggplot2 (>= 2.2.1)

**RoxygenNote** 6.0.1

**URL** <https://github.com/wilkox/ggfittext>

**BugReports** <https://github.com/wilkox/ggfittext/issues>

**Suggests** knitr, rmarkdown, testthat

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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geom\_fit\_text                    A 'ggplot2' geom to fit text inside a box

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### Description

geom\_fit\_text shrinks, grows or wraps text to fit inside a defined rectangular area.

### Usage

```
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(0.1, "lines"), place = "centre", min.size = 4,
  grow = FALSE, reflow = FALSE, width = grid::unit(40, "mm"),
  height = grid::unit(40, "mm"), ...)
```

### Arguments

mapping	ggplot2::aes() object as standard in 'ggplot2'. Note that aesthetics specifying the box must be provided. See Details.
data, stat, position, na.rm, show.legend, inherit.aes, ...	Standard geom arguments as for ggplot2::geom_text().
padding.x, padding.y	Amount of horizontal and vertical padding around the text, expressed as grid::unit() objects. Default to 1 mm and 0.1 lines respectively.
place	Where inside the box to place the text. Default is 'centre'; other options are 'topleft', 'top', 'topright', etc.
min.size	Minimum font size, in points. If provided, text that would need to be shrunk below this size to fit the box will not be drawn. Defaults to 4 pt.
grow	If 'TRUE', text will be grown as well as shrunk to fill the box. See Details.
reflow	If 'TRUE', text will be reflowed (wrapped) to better fit the box. See Details.
width, height	When using 'x' and/or 'y' aesthetics, these will be used to determine the width and/or height of the box. These should be either numeric values on the x and y scales or grid::unit() objects. Both default to 40 mm units.

### Details

Except where noted, geom\_fit\_text behaves more or less like ggplot2::geom\_text.

In addition to the normal geom\_text aesthetics, geom\_fit\_text requires you to specify the box in which you wish to fit the text, usually with 'xmin', 'xmax', 'ymin' and 'ymax' aesthetics. Alternatively, you can specify the centre of the box with 'x' and/or 'y', and the height and/or width of the box with 'height' and/or 'width' arguments. This can be useful when one or both axes are discrete. 'height' and 'width' should be provided as 'grid::unit()' objects, and both default to 40 mm.

By default, the text will be drawn as if with `geom_text`, unless it is too big for the box, in which case 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. When `grow = FALSE` (default), text that fits the box will be drawn as if with `geom_text`; text that doesn't fit the box will be reflowed until it does. If the text cannot be made to fit by reflowing alone, it will be reflowed to match the aspect ratio of the box as closely as possible, then be shrunk to fit the box. When `grow = TRUE`, the text will be reflowed to best match the aspect ratio of the box, then made to fill the box completely whether that requires growing or shrinking. Existing line breaks (`'\n'`) in the text will be respected when reflowing.

### Aesthetics

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

### Examples

```
ggplot2::ggplot(ggplot2::presidential, ggplot2::aes(ymin = start, ymax = end,
  label = name, fill = party, xmin = 0, xmax = 1)) +
  ggplot2::geom_rect(colour = 'black') +
  geom_fit_text(grow = TRUE)
```

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ggfittext

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

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### Description

This package provides only one function, `geom_fit_text`.

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