Package 'ggragged'

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Title Ragged Grids for 'ggplot2'

Version 0.2.0

Description Extend 'ggplot2' facets to panel layouts arranged in a grid with ragged edges. facet_ragged_rows() groups panels into rows that can vary in length, facet_ragged_cols() does the same but for columns. These can be useful, for example, to represent nested or partially crossed relationships between faceting variables.

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URL https://github.com/mikmart/ggragged, https://mikmart.github.io/ggragged/

BugReports https://github.com/mikmart/ggragged/issues

Depends ggplot2

Imports grid, gtable, rlang, vctrs

Suggests covr, knitr, nlme, ragg, rmarkdown, roxygen2, testthat (>= 3.0.0), vdiffr

VignetteBuilder knitr

Config/testthat/edition 3

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NeedsCompilation no

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Contents

`facet_ragged` *Lay out panels in a ragged grid*

Description

These facets create layouts in-between `ggplot2::facet_wrap()` and `ggplot2::facet_grid()`. Panels are arranged into groups stacked along the defining dimension, but remain independent in the other dimension, allowing for a grid with ragged edges. This can be useful, for example, to represent nested or partially crossed relationships between faceting variables.

Usage

```
facet_ragged_rows(
  rows,
  cols,
  ...,
  scales = "fixed",
  switch = "none",
  strips = "margins",
  axes = "margins",
  align = "start",
  labeller = "label_value"
)

facet_ragged_cols(
  rows,
  cols,
  ...,
  scales = "fixed",
  switch = "none",
  strips = "margins",
  axes = "margins",
  align = "start",
  labeller = "label_value"
)
```

Arguments

`rows`, `cols`	A set of variables or expressions quoted by `ggplot2::vars()`, the combinations of which define the panels in the layout.
`...`	Arguments reserved for future use.
`scales`	Determines which panels share axis ranges. By default (`"fixed"`), all panels share the same scales. Use `"free_x"` to let x-axes vary, use `"free_y"` to let y-axes vary, or `"free"` to let both axes vary. Panels within groups always share the scale along the grouping dimension.

switch — Determines how facet label strips are positioned. By default ("none"), strips are drawn to the top and right of the panels. Use "x" to switch the top strip to the bottom, use "y" to switch the right strip to the left, or "both" to do both.

strips — Determines which facet label strips are drawn. By default ("margins"), strips between panels along the grouping dimension will be suppressed. Use "all" to always draw both strips.

axes — Determines which axes are drawn. By default ("margins"), axes between panels will be suppressed if they are fixed. Use "all_x" to always draw x-axes, "all_y" to always draw y-axes, or "all" to always draw both axes.

align — Determines how panels are positioned within groups. By default ("start"), panels in groups are densely packed from the start. Use "end" to instead pack panels to the end of the group.

labeller — A function that takes one data frame of labels and returns a list or data frame of character vectors. Each input column corresponds to one factor. Thus there will be more than one with vars(cyl, am). Each output column gets displayed as one separate line in the strip label. This function should inherit from the "labeller" S3 class for compatibility with labeller(). You can use different labeling functions for different kind of labels, for example use label_parsed() for formatting facet labels. label_value() is used by default, check it for more details and pointers to other options.

Value

A Facet that can be added to a ggplot.

Examples

```
p <- ggplot(mpg, aes(displ, cty)) + geom_point()
p + facet_ragged_rows(vars(drv), vars(cyl))
p + facet_ragged_cols(vars(cyl), vars(drv))

# Allow axes to vary between panels
p + facet_ragged_rows(vars(drv), vars(cyl), scales = "free_y")
p + facet_ragged_rows(vars(drv), vars(cyl), scales = "free")

# Change strip label positions
p + facet_ragged_rows(vars(drv), vars(cyl), switch = "y")
p + facet_ragged_rows(vars(drv), vars(cyl), switch = "both")

# Draw strips between panels
p + facet_ragged_rows(vars(drv), vars(cyl), strips = "all")

# Draw axes between panels
p + facet_ragged_rows(vars(drv), vars(cyl), axes = "all_x")
p + facet_ragged_rows(vars(drv), vars(cyl), axes = "all")

# Change panel alignment
p + facet_ragged_rows(vars(drv), vars(cyl), align = "end")
```

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