Package ‘ggtibble’
February 7, 2024

Title Create Tibbles and Lists of ‘ggplot’ Figures for Reporting
Version 1.0.0
Description Create tibbles and lists of ‘ggplot’ figures that can be modified as easily as regular ‘ggplot’ figures. Typical use cases are for creating reports or web pages where many figures are needed with different data and similar formatting.
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Generate a list of ggplots from a list of data.frames

Usage

```r
gglist(
data = NULL,
mapping = ggplot2::aes(),
...,
environment = parent.frame()
)
```

Arguments

- **data**: A list of data.frames (or similar objects)
- **mapping**: Default list of aesthetic mappings to use for plot. If not specified, must be supplied in each layer added to the plot.
- **...**: Other arguments passed on to methods. Not currently used.
- **environment**: [Deprecated] Used prior to tidy evaluation.

Value

A list of ggplot2 objects

Examples

```r
mydata <- list(
data.frame(x = 1:3, y = 3:1),
data.frame(x = 4:7, y = 7:4)
)
gglist(mydata, ggplot2::aes(x = x, y = y)) +
ggplot2::geom_point()
```
ggtibble

Make a tibble where one column is the data to plot, one is the gglist, and one is the caption

Description

Make a tibble where one column is the data to plot, one is the gglist, and one is the caption

Usage

ggtibble(data, ...)

## S3 method for class 'data.frame'
ggtibble(
data,
mapping = ggplot2::aes(),
..., 
outercols = group_vars(data),
labs = list()

caption = ""
)

Arguments

data The data.frame to plot
...
Passed to subsequent methods (usually passed to gglist())
mapping Default list of aesthetic mappings to use for plot. If not specified, must be sup-
plied in each layer added to the plot.
outercols The columns to have outside the nesting
labs Labels to add via labs_glue()
caption The glue specification for creating the caption

Value

A data.frame with a column named "data_plot" with the data to plot, "figure" with the gglist, and 
"caption" with the captions

A ggtibble object which is a tibble with columns named "figure" which is a gglist object (a list 
of ggplots), "data_plot" which is the list of data.frames making up the source data used for each 
individual plot, "caption" which is the text to use for the plot caption, and all of the outercols used 
for nesting.

Methods (by class)

• ggtibble(data.frame): The default method for a data.frame or tibble
Examples

d_plot <-
data.frame(
    A = rep(c("foo", "bar"), each = 4),
    B = 1:8,
    C = 11:18,
    Bunit = "mg",
    Cunit = "km"
)
all_plots <-
ggtibble(
    d_plot,
    ggplot2::aes(x = B, y = C),
    outercols = c("A", "Bunit", "Cunit"),
    caption = "All the {A}",
    labs = list(x = "B (Bunit)", y = "C (Cunit)"
)
) +
ggplot2::geom_point() +
ggplot2::geom_line()

knit_print(all_plots)

---

knit_print.gg  
Print a ggplot (usually within knit_print.gglist)

Description

Print a ggplot (usually within knit_print.gglist)

Usage

## S3 method for class 'gg'
knit_print(
  x,
  ...,
  fig_prefix,
  fig_suffix,
  filename = NULL,
  width = 6,
  height = 4,
  units = "in"
)

Arguments

x  The gg object (i.e. a ggplot)
...
    Ignored
fig_prefix  Text to cat() before the figure is printed
**Description**

The filename argument may be given with a sprintf() format including "%d" to allow automatic numbering of the output filenames. Specifically, the pattern of "%d" with an optional non-negative integer between the "%" and "d" is searched for and if found, then the filename will be generated using that sprintf() format. Note that also means that other requirements for sprintf() must be met; for example, if you want a percent sign ("%") in the filename, it must be doubled so that sprintf returns what is desired.

**Usage**

```r
## S3 method for class 'gglist'
knit_print(x, ..., filename = NULL, fig_suffix = "\n\n")

## S3 method for class 'ggtibble'
knit_print(x, ...)
```

**Arguments**

- `x` The gglist object
- `...` extra arguments to knit_print()
- `filename` A filename with an optional "%d" sprintf pattern for saving the plots
- `fig_suffix` Any text to add after the figure

**Value**

The list, invisibly
Functions

- `knit_print(ggtibble)`: Print the plots in a ggtibble object

See Also

Other knitters: `knit_print.gg()`

Examples

```r
# Ensure that each figure is within its own float area
mydata <- list(
  data.frame(x = 1:3, y = 3:1),
  data.frame(x = 4:7, y = 7:4)
)
p <- gglist(mydata, ggplot2::aes(x = x, y = y)) +
  ggplot2::geom_point()
knit_print(p, fig_suffix = "\n\n\FloatBarrier\n\n")
```

labs_glue

Generate ggplot2 labels based on data in a ggtibble

Description

Generate ggplot2 labels based on data in a ggtibble

Usage

```r
labs_glue(p, ...)
```

Arguments

- `p` The ggtibble object
- `...` Named arguments to be used as `ggplot2::labs()` labels where the value is a glue specification

Value

- `p` with the labels modified
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