Package ‘docorator’

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Title Docorate (Decorate + Output) Displays

Version 0.6.0

Description A framework for creating production outputs. Users can frame a table, listing, or figure with headers and footers and save to an output file. Stores an intermediate 'docorator' object for reproducibility and rendering to multiple output types.

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Encoding UTF-8

RoxygenNote 7.3.3

Imports gt (>= 1.2.0), rmarkdown, rlang, cli, dplyr, rstudioapi, purrr, stringr, stringi, tidyr, lifecycle, png, knitr, withr, quarto

Suggests rprojroot, testthat (>= 3.0.0), tfrmt, pdftools, ggplot2

Config/testthat/edition 3

VignetteBuilder knitr

URL https://GSK-Biostatistics.github.io/docorator/, https://github.com/GSK-Biostatistics/docorator

BugReports https://github.com/GSK-Biostatistics/docorator/issues

Depends R (>= 4.1.0)

NeedsCompilation no

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Contents

`apply_to_gt_group` *apply a gt function to a gt_group*

Description

apply a gt function to a gt_group

Usage

```
apply_to_gt_group(x, func, args, call = rlang::caller_env())
```

Arguments

`x`	gt group object
`func`	string with function name
`args`	named list of function arguments with gt_tbl or gt_group as first arg
`call`	caller env

Examples

```
gt_tbl <- gt::exibble|> gt::gt()
gt_group <- gt::gt_group(gt_tbl, gt_tbl)

func <- gt::tab_options
arg_list_group <- list(page.header.use_tbl_headings = c(TRUE))

apply_to_gt_group(gt_group, func,arg_list_group)
```

`as_docorator` *Create docorator object*

Description

Create docorator object

Usage

```
as_docorator(
  x,
  display_name,
  display_loc = NULL,
  header = fancyhead(fancyrow(right = doc_pagenum())),
  footer = NULL,
  save_object = TRUE,
  object_loc = display_loc,
  ...,
  fontsize = 10,
  geometry = geom_set(),
  fig_dim = c(5, 8),
  tbl_scale = TRUE,
  tbl_stub_pct = 0.3
)
```

Arguments

`x`	object containing the display. See @details for more information.
`display_name`	required name of file (excluding extension)
`display_loc`	optional path to save the output file to
`header`	Document header. Accepts a `fancyhead` object. If `NULL`, no header will be displayed.
`footer`	Document footer Accepts a `fancyfoot` object. If `NULL`, no footer will be displayed.
`save_object`	Boolean indicating if a docorator object should be saved.
`object_loc`	path for the docorator object - defaults to display_loc argument.
`...`	These dots are for future extensions and must be empty.
`fontsize`	Font size (pt). Defaults to `10`. Accepted values: 10, 11, 12.
`geometry`	Document sizing options based on the `geometry` latex package. Accepts a named list. Default is `geom_set()`.
`fig_dim`	vector containing figure height and width in inches. Defaults to `c(5,8)`
`tbl_scale`	Boolean for whether or not to automatically scale table columns to fit display area. Defaults to TRUE. Note that this will overwrite scaling set in the table directly unless set to FALSE.
`tbl_stub_pct`	percent of total width that should be dedicated to stub column(s). If more than 1 stub column then this is the total for both.

Details

While the x argument flexibly accepts many different R objects, the following classes/types are recommended:

- gt
- gt_group (list of gt objects)
- ggplot
- list of ggplots
- path to PNG file created via png_path()
- list of paths to PNG files created via png_path()

Value

docorator object

Examples

```
## Not run:
gt::gtcars |>
  dplyr::slice_head(n = 10) |>
  dplyr::select(mfr, model, year, msrp) |>
  gt::gt(groupname_col = "mfr",
         row_group_as_column = TRUE) |>
  as_docorator(
   header = fancyhead(fancyrow("Header 1"), fancyrow("Header 2")),
   display_name = "mytbl",
   footer = NULL)

## End(Not run)
```

---

docorate *Decorate and output a table, listing, or figure to a file*

Description

[Deprecated]

This function was deprecated and replaced with as_docorator and a corresponding render function i.e render_pdf

Usage

```
docorate(
  x,
  filename,
  path = NULL,
  header = fancyhead(fancyrow(right = doc_pagenum())),
  footer = fancyfoot(fancyrow(left = doc_path(filename, path), right = doc_datetime())),
  ...,
  fontsize = 10,
  geometry = geom_set(),
  fig_dim = c(5, 8),
  tbl_scale = TRUE,
  tbl_stub_pct = 0.3
)
```

Arguments

`x` object containing the display. See @details for more information.

`filename` required name of file including extension (note: only PDF supported currently)

`path` optional path to save the output pdf to

`header` Document header. Accepts a `fancyhead` object. If `NULL`, no header will be displayed.

`footer` Document footer Accepts a `fancyfoot` object. If `NULL`, no footer will be displayed.

`...` These dots are for future extensions and must be empty.

`fontsize` Font size (pt). Defaults to `10`. Accepted values: 10, 11, 12.

`geometry` Document sizing options based on the `geometry` latex package. Accepts a named list. Default is `geom_set()`.

`fig_dim` vector containing figure height and width in inches. Defaults to `c(5,8)`

`tbl_scale` Boolean for whether or not to automatically scale table columns to fit display area. Defaults to TRUE. Note that this will overwrite scaling set in the table directly unless set to FALSE.

`tbl_stub_pct` percent of total width that should be dedicated to stub column(s). If more than 1 stub column then this is the total for both.

Details

While the `x` argument flexibly accepts many different R objects, the following classes/types are recommended:

- `gt`
- `gt_group` (list of `gt` objects)
- `ggplot`
- list of `ggplots`
- path to PNG file created via `png_path()`
- list of paths to PNG files created via `png_path()`

Value

This function is called for its side effects

Examples

```
## Not run:
gt::gtcars |>
  dplyr::slice_head(n = 10) |>
  dplyr::select(mfr, model, year, msrp) |>
  gt::gt(groupname_col = "mfr",
         row_group_as_column = TRUE) |>
  docorate(
   header = fancyhead(fancyrow("Header 1"), fancyrow("Header 2")),
   filename = "mytbl.pdf")

## End(Not run)
```

doc_datetime *Date and time of program run*

Description

Date and time of program run

Usage

```
doc_datetime()
```

Value

character string

Examples

```
doc_datetime()
```

doc_pagenum *Automatic page numbering*

Description

Automatic page numbering

Usage

```
doc_pagenum()
```

Value

character string containing latex code

Examples

```
doc_pagenum()
```

doc_path *Path of program*

Description

Path of program

Usage

```
doc_path(filename = NULL, path = NULL)
```

Arguments

filename	Name of output file
path	program path

Value

character string

Examples

```
## Not run:
 doc_path(filename = "my_tbl.pdf", path = NULL)

## End(Not run)
```

fancyfoot *Construct document footer*

Description

Define document footer through a series of fancyrows. Each row represents a new line in the footer with options for positioning text at left, center, and/or right positions.

Usage

```
fancyfoot(...)
```

Arguments

...	Series of objects of class fancyrow. Each entry represents a new row in the document footer.

Value

Character string containing latex code for the fancyfoot entries as part of the fancyhdr latex framework

Examples

```
fancyfoot(
 fancyrow(left = "My first footnote", right = doc_datetime())
)
```

fancyhead *Construct document header*

Description

Define document header through a series of fancyrows. Each row represents a new line in the header with options for positioning text at left, center, and/or right positions.

Usage

```
fancyhead(...)
```

Arguments

...	Series of objects of class fancyrow. Each entry represents a new row in the document header.

Value

Character string containing latex code for the `fancyhead` entries as part of the `fancyhdr` latex framework

Examples

```
fancyhead(
 fancyrow(left = "Protocol: 12345", right = doc_pagenum()),
 fancyrow(center = "Demographic Summary")
)
```

`fancyrow` *Construct document header row*

Description

Define a single row in the document header/footer. Each row represents a single line of text, with options for positioning text at left, center, and/or right.

Usage

```
fancyrow(left = NA, center = NA, right = NA)
```

Arguments

`left` Character string to be aligned to the left side of the row.

`center` Character string to be aligned to the center of the row.

`right` Character string to be aligned to the right side of the row.

Value

Object of class `fancyrow`

Examples

```
fancyrow(left = "Left most text", right = "Right most text")

fancyrow(center = "Just text in the center")

fancyrow(left = "All", center = "Three", right = "Positions filled")
```

geom_set — *Set document geometry defaults*

Description

Set document geometry defaults

Usage

```
geom_set(...)
```

Arguments

`...`	Series of named value pairs for latex geometry options

Details

Type geom_set() in console to view package defaults. Use of the function will add to the defaults and/or override included defaults of the same name. For values that are `NULL`, such as for `headheight` and `footskip`, the values will be calculated automatically based on the number of header and/or footer lines. For all geometry settings, reference the documentation here: https://texdoc.org/serve/geometry.pdf/0

Value

Named list

Examples

```
# view defaults
geom_set()

# Update the defaults
geom_set(left="0.5in", right="0.5in")

# add new defaults
geom_set(paper = "legalpaper")
```

png_path *Path of png file*

Description

Path of png file

Usage

```
png_path(path = NULL)
```

Arguments

`path`	path to png

Value

object with png attribute

Examples

```
## Not run:
png_path <- png_path(path = "path_to_my_png.png")

## End(Not run)
```

render_pdf *Render to pdf*

Description

Render to pdf

Usage

```
render_pdf(
  x,
  display_loc = NULL,
  transform = NULL,
  header_latex = NULL,
  keep_tex = FALSE,
  escape_latex = TRUE,
  quarto = FALSE,
  version_check = TRUE,
  fancywrap = TRUE
)
```

Arguments

`x` `docorator` object

`display_loc` optional path to save the output pdf to

`transform` optional latex transformation function to apply to a gt latex string

`header_latex` optional .tex file of header latex

`keep_tex` Boolean indicating if to keep resulting .tex file from latex conversion. Defaults to FALSE.

`escape_latex` Boolean indicating if headers and footers of a gt table should be escaped with gt::escape_latex

`quarto` Boolean indicating whether to use Quarto as the rendering engine. Defaults to `FALSE`, which uses Rmarkdown to render. **[Experimental]**

`version_check` Boolean indicating whether to print a note if gt or ggplot versions dont match between the original docorator object and the one being used for rendering

`fancywrap` Boolean indicating if headers and footers should be split to fit the page. Defaults to `TRUE`. Note that only fancyrows with one `left`, `right` OR `center` element will be wrapped. **[Experimental]**

Value

This function saves a pdf to a specified location

Examples

```
gt::gtcars |>
  dplyr::slice_head(n = 10) |>
  dplyr::select(mfr, model, year, msrp) |>
  gt::gt(groupname_col = "mfr",
         row_group_as_column = TRUE) |>
  as_docorator(
   header = fancyhead(fancyrow("Header 1"), fancyrow("Header 2")),
   display_name = "mytbl") |>
 render_pdf()
```

`render_rtf` *Render to rtf*

Description

[Experimental]

Usage

```
render_rtf(
  x,
  display_loc = NULL,
  remove_unicode_ws = TRUE,
  use_page_header = FALSE,
  version_check = TRUE
)
```

Arguments

`x` `docorator` object

`display_loc` path to save the output rtf to

`remove_unicode_ws`
Option to remove unicode white space from text.

`use_page_header`
If `TRUE` then all table headings will be migrated to the page header. See https://gt.rstudio.com/reference/tab page-header-use-tbl-headings

`version_check` Boolean indicating whether to print a note if gt or ggplot versions dont match between the original docorator object and the one being used for rendering

Details

Option `remove_unicode_ws` serves as a workaround for this issue in gt

Value

This function saves an rtf to a specified location

Examples

```
gt::gtcars |>
  dplyr::slice_head(n = 10) |>
  dplyr::select(mfr, model, year, msrp) |>
  gt::gt(groupname_col = "mfr",
         row_group_as_column = TRUE) |>
  as_docorator(
   header = fancyhead(fancyrow("Header 1"), fancyrow("Header 2")),
   display_name = "mytbl") |>
 render_rtf()
```

`scale_gt` *Scale gt table contents for document*

Description

Scale gt table contents for document

Usage

```
scale_gt(x, tbl_stub_pct = 0.3)
```

Arguments

`x`	table of class `gt_tbl`
`tbl_stub_pct`	percent of total width that should be dedicated to stub column(s). If more than 1 stub column then this is the total for both.

Value

Table with col_widths settings applied

Examples

```
gt::gtcars |>
  dplyr::slice_head(n = 10) |>
  dplyr::select(mfr, model, year, msrp, ctry_origin) |>
  gt::gt(
      groupname_col = "ctry_origin",
      rowname_col = "mfr",
      row_group_as_column = TRUE) |>
  scale_gt(tbl_stub_pct = 0.4)
```

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