

# Package ‘docorator’

May 8, 2026

**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.

**License** Apache License 2.0

**Encoding** UTF-8

**RoxygenNote** 7.3.3

**Imports** gt ( $\geq 1.2.0$ ), rmarkdown, rlang, cli, dplyr, rstudioapi, purrr, stringr, stringi, tidyr, lifecycle, png, knitr, withr, quarto

**Suggests** rprojroot, testthat ( $\geq 3.0.0$ ), 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 ( $\geq 4.1.0$ )

**NeedsCompilation** no

**Author** Becca Krouse [aut, cre],  
Shannon Haughton [aut],  
Seongbin Hong [aut],  
Dragoş Moldovan-Grünfeld [aut],  
GlaxoSmithKline Research & Development Limited [cph, fnd]

**Maintainer** Becca Krouse <[becca.z.krouse@gsk.com](mailto:becca.z.krouse@gsk.com)>

**Repository** CRAN

**Date/Publication** 2026-03-20 17:20:02 UTC

## Contents

apply_to_gt_group	2
as_docator	3
docorate	4
doc_datetime	6
doc_pagenum	7
doc_path	7
fancyfoot	8
fancyhead	8
fancyrow	9
geom_set	10
png_path	11
render_pdf	11
render_rtf	12
scale_gt	14

<b>Index</b>	<b>15</b>
--------------	-----------

---

apply_to_gt_group	<i>apply a gt function to a gt_group</i>
-------------------	--

---

### Description

apply a gt function to a `gt_group`

### Usage

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

### Arguments

<code>x</code>	gt group object
<code>func</code>	string with function name
<code>args</code>	named list of function arguments with <code>gt_tbl</code> or <code>gt_group</code> as first arg
<code>call</code>	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\_docator                      *Create docorator object*

---

## Description

Create docorator object

## Usage

```
as_docator(
  x,
  display_name,
  display_loc = NULL,
  header = fancyhead(fancyrow(right = doc_pagemum())),
  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

decorator 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_decorator(
    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_decorator` 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**

<code>x</code>	object containing the display. See <code>@details</code> for more information.
<code>filename</code>	required name of file including extension (note: only PDF supported currently)
<code>path</code>	optional path to save the output pdf to
<code>header</code>	Document header. Accepts a <code>fancyhead</code> object. If <code>NULL</code> , no header will be displayed.
<code>footer</code>	Document footer Accepts a <code>fancyfoot</code> object. If <code>NULL</code> , no footer will be displayed.
<code>...</code>	These dots are for future extensions and must be empty.
<code>fontsize</code>	Font size (pt). Defaults to 10. Accepted values: 10, 11, 12.
<code>geometry</code>	Document sizing options based on the <code>geometry</code> latex package. Accepts a named list. Default is <code>geom_set()</code> .
<code>fig_dim</code>	vector containing figure height and width in inches. Defaults to <code>c(5, 8)</code>
<code>tbl_scale</code>	Boolean for whether or not to automatically scale table columns to fit display area. Defaults to <code>TRUE</code> . Note that this will overwrite scaling set in the table directly unless set to <code>FALSE</code> .
<code>tbl_stub_pct</code>	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	<i>Automatic page numbering</i>
-------------	---------------------------------

---

**Description**

Automatic page numbering

**Usage**

```
doc_pagenum()
```

**Value**

character string containing latex code

**Examples**

```
doc_pagenum()
```

---

doc_path	<i>Path of program</i>
----------	------------------------

---

**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	<i>Set document geometry defaults</i>
----------	---------------------------------------

---

## 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	<i>Path of png file</i>
----------	-------------------------

---

**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	<i>Render to pdf</i>
------------	----------------------

---

**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	decorator 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. <b>[Experimental]</b>
version_check	Boolean indicating whether to print a note if gt or ggplot versions dont match between the original decorator 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. <b>[Experimental]</b>

**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_decorator(
    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	decorator 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 <a href="https://gt.rstudio.com/reference/table-page-header-use-tbl-headings">https://gt.rstudio.com/reference/table-page-header-use-tbl-headings</a>
version_check	Boolean indicating whether to print a note if gt or ggplot versions dont match between the original decorator 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_decorator(
    header = fancyhead(fancyrow("Header 1"), fancyrow("Header 2")),
    display_name = "mytbl") |>
  render_rtf()
```

---

scale_gt	<i>Scale gt table contents for document</i>
----------	---

---

**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)
```

# Index

`apply_to_gt_group`, 2  
`as_dcorator`, 3

`doc_datetime`, 6  
`doc_pagenum`, 7  
`doc_path`, 7  
`dcorate`, 4

`fancyfoot`, 8  
`fancyhead`, 8  
`fancyrow`, 9

`geom_set`, 10

`png_path`, 11

`render_pdf`, 11  
`render_rtf`, 12

`scale_gt`, 14