Package ‘gtExtras’

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Type Package

Title Extending ‘gt’ for Beautiful HTML Tables

Version 0.4.5

Description Provides additional functions for creating beautiful tables with ‘gt’. The functions are generally wrappers around boilerplate or adding opinionated niche capabilities and helpers functions.

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URL https://github.com/jthomasmock/gtExtras,

https://jthomasmock.github.io/gtExtras/

BugReports https://github.com/jthomasmock/gtExtras/issues

Imports commonmark, dplyr (>= 1.0.9), fontawesome (>= 0.4.0), ggplot2

(>= 3.4.0), glue (>= 1.6.1), gt (>= 0.8.0), htmltools (>= 0.5.3), paletteer (>= 1.4.0), rlang (>= 1.0.4), scales (>= 1.2.0)

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**add_badge_color**

Add badge color

**Description**

Add badge color

**Usage**

```r
add_badge_color(add_color, add_label, alpha_lvl)
```

**Arguments**

- **add_color**: A color to add to the badge
- **add_label**: The label to add to the badge
- **alpha_lvl**: The alpha level

**Value**

HTML character
Description

Create a dot plot from 0 to 100

Usage

add_pcttile_plot(data, palette, add_label, width)

Arguments

data The single value that will be used to plot the point.
palette A length 3 palette, used to highlight high/med/low
add_label A logical indicating whether to add the label or note. This will only be added if it is the first or last row.
width A numeric indicating the

Value

gt table

Description

Create a dot plot from any range - add_point_plot

Usage

add_point_plot(data, palette, add_label, width, vals_range, accuracy)

Arguments

data The single value that will be used to plot the point.
palette A length 3 palette, used to highlight high/med/low
add_label A logical indicating whether to add the label or note. This will only be added if it is the first or last row.
width A numeric indicating the
vals_range vector of length two indicating range
accuracy A number to round to. Use (e.g.) 0.01 to show 2 decimal places of precision. If NULL, the default, uses a heuristic that should ensure breaks have the minimum number of digits needed to show the difference between adjacent values. Applied to rescaled data.
add_text_img

Value
gt table

---

**add_text_img**

*Add text and an image to the left or right of it*

**Description**

The `add_text_img` function takes an existing `gt_tbl` object and adds some user specified text and an image url to a specific cell. This is a wrapper raw HTML strings and `gt::web_image()`. Intended to be used inside the header of a table via `gt::tab_header()`.

**Usage**

```r
add_text_img(text, url, height = 30, left = FALSE)
```

**Arguments**

- `text` A text string to be added to the cell.
- `url` A url that resolves to an image file.
- `height` The absolute height (px) of the image in the table cell.
- `left` A logical TRUE/FALSE indicating if text should be on the left (TRUE) or right (FALSE)

**Value**

An object of class `gt_tbl`.

**Function ID**

2.5

**Figures**

**See Also**

Other Utilities: `fa_icon_repeat()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `generate_df()`, `gt_add_divider()`, `gt_badge()`, `gt_double_table()`, `gt_duplicate_column()`, `gt_fa_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_fa_repeats()`, `gt_highlight_cols()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_img_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()`, `img_header()`, `pad_fn()`, `tab_style_by_grp()`
Examples

```r
library(gt)
title_car <- mtcars %>%
  head() %>%
  gt() %>
  gt::tab_header(
    title = add_text_img(
      "A table about cars made with",
      url = "https://www.r-project.org/logo/Rlogo.png"
    )
  )
)```

create_sum_table

Create a summary table from a dataframe

Description

Create a summary table from a dataframe

Usage

```r
create_sum_table(df)
```

Arguments

- `df`: a dataframe or tibble

Value

A summary dataframe as a tibble

Examples

```r
## Not run:
create_sum_table(iris)
#> # A tibble: 5 × 7
#> type name value n_missing Mean Median SD
#> <chr> <chr> <list> <dbl> <dbl> <dbl> <dbl>
#> 1 numeric Sepal.Length <dbl [150]> 0 5.84 5.8 0.828
#> 2 numeric Sepal.Width <dbl [150]> 0 3.06 3 0.436
#> 3 numeric Petal.Length <dbl [150]> 0 3.76 4.35 1.77
#> 4 numeric Petal.Width <dbl [150]> 0 1.20 1.3 0.762
#> 5 factor Species <fct [150]> 0 NA NA NA

## End(Not run)
```
Description

The `fa_icon_repeat` function takes an fontawesome icon and repeats it `n` times.

Usage

```r
fa_icon_repeat(
  name = "star",
  repeats = 1,
  fill = NULL,
  fill.opacity = NULL,
  stroke = NULL,
  stroke.width = NULL,
  stroke.opacity = NULL,
  height = NULL,
  width = NULL,
  margin.left = NULL,
  margin.right = NULL,
  position = NULL,
  title = NULL,
  a11y = c("deco", "sem", "none")
)
```

Arguments

- **name**: The name of the Font Awesome icon. This could be as a short name (e.g., "npm", "drum", etc.), or, a full name (e.g., "fab fa-npm", "fas fa-drum", etc.). The names should correspond to current Version 5 Font Awesome names. A list of short and full names can be accessed through the `fa_metadata()` function with `fa_metadata()`$icon_names and `fa_metadata()`$icon_names_full. If supplying a Version 4 icon name, it will be internally translated to the Version 5 icon name and a Version 5 icon will be returned. A data frame containing the short names that changed from version 4 (v4_name) to version 5 (v5_name) can be obtained by using `fa_metadata()`$v4_v5_name_tbl.

- **repeats**: An integer indicating the number of repeats for that specific icon/row.

- **fill, fill.opacity**: The fill color of the icon can be set with `fill`. If not provided then the default value of "currentColor" is applied so that the SVG fill matches the color of the parent HTML element’s color attribute. The opacity level of the SVG fill can be controlled with a decimal value between 0 and 1.

- **stroke, stroke.width, stroke.opacity**: The stroke options allow for setting the color, width, and opacity of the SVG outline stroke. By default, the stroke width is very small at "1px" so a size
The height and width style attributes of the rendered SVG. If nothing is provided for height then a default value of "1em" will be applied. If a width isn’t given, then it will be calculated in units of "em" on the basis of the icon’s SVG "viewBox" dimensions.

margin_left, margin_right
The length value for the margin that’s either left or right of the icon. By default, "auto" is used for both properties. If space is needed on either side then a length of "0.2em" is recommended as a starting point.

title
An option for populating the SVG 'title' attribute, which provides on-hover text for the icon. By default, no title text is given to the icon. If a11y == "semantic" then title text will be automatically given to the rendered icon, however, providing text here will override that.

a11y
Cases that distinguish the role of the icon and inform which accessibility attributes to be used. Icons can either be "deco" (decorative, the default case) or "sem" (semantic). Using "none" will result in no accessibility features for the icon.

Value
A character string of class HTML, representing repeated SVG logos

Function ID
2-4

See Also
Other Utilities: add_text_img(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(), generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(), gt_fa_column(), gt_fa_rank_change(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(), gt_highlight_rows(), gt_img_border(), gt_img_circle(), gt_img_multi_rows(), gt_img_rows(), gt_index(), gt_merge_stack_color(), gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(), pad_fn(), tab_style_by_grp()
Usage
fmt_pad_num(gt_object, columns, sep = ",", nsmall = 2, pad0 = FALSE)

Arguments
- **gt_object**: An existing gt table object of class gt_tbl
- **columns**: The columns to format. Can either be a series of column names provided in c(), a vector of column indices, or a helper function focused on selections. The select helper functions are: starts_with(), ends_with(), contains(), matches(), one_of(), num_range(), and everything().
- **sep**: A character for the separator, typically "." or ","
- **nsmall**: The max number of decimal places to round at/display
- **pad0**: A logical, indicating whether to pad the values with trailing zeros.

Value
An object of class gt_tbl.

Figures

Function ID
2-2

See Also
pad_fn()

Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pct_extra(), fmt_symbol_first(),
generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(),
gt_fa_column(), gt_fa_rank_change(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(),
gt_highlight_rows(), gt_img_border(), gt_img_circle(), gt_img_multi_rows(), gt_img_rows(),
gt_index(), gt_merge_stack_color(), gt_merge_stack(), gt_two_column_layout(), gtsave_extra(),
img_header(), pad_fn(), tab_style_by_grp()

Examples
library(gt)
padded_tab <- data.frame(numbers = c(1.2345, 12.345, 123.45, 1234.5, 12345)) %>%
  gt() %>%
  fmt_pad_num(columns = numbers, nsmall = 4)
fmt_pct_extra  
Convert to percent and show less than 1% as <1% in grey

Description

Convert to percent and show less than 1% as <1% in grey

Usage

fmt_pct_extra(gt_object, columns, ..., scale = 1)

Arguments

gt_object  An existing gt table
columns  The columns to affect
...  Additional argument passed to scales::label_percent()
scale  A number to multiply values by, defaults to 1

Value

a gt table

See Also

Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_symbol_first(), generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(), gt_fa_column(), gt_fa_rank_change(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(), gt_highlight_rows(), gt_img_border(), gt_img_circle(), gt_img_multi_rows(), gt_img_rows(), gt_index(), gt_merge_stack_color(), gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(), pad_fn(), tab_style_by_grp()

Examples

library(gt)
pct_tab <- dplyr::tibble(x = c(0.001, 0.05, 0.008, 0.1, 0.2, 0.5, 0.9)) %>%
  gt::gt() %>%
  fmt_pct_extra(x, scale = 100, accuracy = 0.1)
**fmt_symbol_first**

Aligning first-row text only

---

**Description**

This is an experimental function that allows you to apply a suffix/symbol to only the first row of a table, and maintain the alignment with whitespace in the remaining rows.

**Usage**

```r
fmt_symbol_first(
  gt_object,
  column = NULL,
  symbol = NULL,
  suffix = "",
  decimals = NULL,
  last_row_n = NULL,
  symbol_first = FALSE,
  scale_by = NULL,
  gfont = "Fira Mono"
)
```

**Arguments**

- **gt_object**: An existing gt table object of class `gt_tbl`
- **column**: columns to apply color to with tidyeval
- **symbol**: The HTML code or raw character string of the symbol being inserted, optionally
- **suffix**: a suffix to add, optionally
- **decimals**: the number of decimal places to round to
- **last_row_n**: Defining the last row to apply this to. The function will attempt to guess the proper length, but you can always hardcode a specific length.
- **symbol_first**: TRUE/FALSE - symbol before after suffix.
- **scale_by**: A numeric value to multiply the values by. Useful for scaling percentages from 0 to 1 to 0 to 100.
- **gfont**: A string passed to `gt::google_font()` - defaults to "Fira Mono" and requires a Monospaced font for alignment purposes. Existing Google Monospaced fonts are available at: [fonts.google.com](http://fonts.google.com)

**Value**

An object of class `gt_tbl`.

**Figures**
**generate_df**

Generate pseudorandom dataframes with specific parameters

**Description**

This function is a small utility to create a specific length dataframe with a set number of groups, specific mean/sd per group. Note that the total length of the dataframe will be \( n \times n_{grps} \).

**Usage**

```r
generate_df(n = 10L, n_grps = 1L, mean = c(10), sd = mean/10, with_seed = NULL)
```

**Arguments**

- `n` An integer indicating the number of rows per group, default to 10
- `n_grps` An integer indicating the number of rows per group, default to 1
- `mean` A number indicating the mean of the randomly generated values, must be a vector of equal length to the `n_grps`
- `sd` A number indicating the standard deviation of the randomly generated values, must be a vector of equal length to the `n_grps`
- `with_seed` A seed to make the randomization reproducible
**get_row_index**

**Value**

a tibble/dataframe

**Function ID**

2-19

**See Also**

Other Utilities: `add_text_img()`, `fa_icon_repeat()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `gt_add_divider()`, `gt_badge()`, `gt_double_table()`, `gt_duplicate_column()`, `gt_fa_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_fa_repeats()`, `gt_highlight_cols()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_img_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()`, `img_header()`, `pad_fn()`, `tab_style_by_grp()`

**Examples**

```r
library(dplyr)
generate_df(
  100L,
  n_grps = 5,
  mean = seq(10, 50, length.out = 5)
) %>%
  group_by(grp) %>%
  summarise(
    mean = mean(values), # mean is approx mean
    sd = sd(values), # sd is approx sd
    n = n(), # each grp is of length n
    # showing that the sd default of mean/10 works
    'mean/sd' = round(mean / sd, 1)
)
```

---

**get_row_index**

Get underlying row index for gt tables

**Description**

Provides underlying row index for grouped or ungrouped gt tables. In some cases the visual representation of specific rows is inconsistent with the "row number" so this function provides the final output index for subsetting or targeting rows.

**Usage**

`get_row_index(gt_object)`

**Arguments**

- `gt_object` an existing gt table
get_row_index

Value

a vector of row indices

Examples

Create a helper function:
This helper functions lets us be a bit more efficient when showing the row numbers/colors.

```r
library(gt)

row_sty <- function(tab, row){
  OkabeIto <- c("#E69F00", "#56B4E9", "#009E73", "#F0E442",
                 "#0072B2", "#D55E00", "#CC79A7", "#999999")
  tab %>%
    tab_style(
      cell_fill(color = OkabeIto[row]),
      locations = cells_body(rows = row)
    )
}
```

Randomize the data:
We will randomly sample the data to get it in a specific order.

```r
set.seed(37)

df <- mtcars %>%
  dplyr::group_by(cyl) %>%
  dplyr::slice_sample(n = 2) %>%
  dplyr::ungroup() %>%
  dplyr::slice_sample(n = 6) %>%
  dplyr::mutate(row_id = dplyr::row_number(), .before = 1)
```

Ungrouped data:
Ungrouped data works just fine, and the row indices are identical between the visual representation and the output.

```r
gt(df) %>%
  row_sty(1) %>%
```
Grouped data:
However, for grouped data, the row indices are representative of the underlying data before grouping, leading to some potential confusion.

```
tab2 <- gt(df, groupname_col = "cyl")
```

The `get_row_index()` function gives ability to create an index of the final output, so you can reference specific rows by number.

```
tab_index <- get_row_index(tab2)
```

```
tab2 %>%
  row_sty(4) %>% # wrong row, actually row 6 visually
  row_sty(tab_index[4]) # correct row, actually row 4
```

```
tab2 %>%
  row_sty(tab_index[1]) %>%
  row_sty(tab_index[3]) %>%
  row_sty(tab_index[5])
```

---

**gtsave_extra**

Use webshot2 to save a gt table as a PNG

---

**Description**

Takes existing HTML content, typically additional HTML including a gt table as a PNG via the {webshot2} package.

**Usage**

`gtsave_extra(data, filename, path = NULL, ..., zoom = 2, expand = 5)`

**Arguments**

- `data` HTML content to be saved temporarily to disk
- `filename` The name of the file, should end in .png
- `path` An optional path
- `...` Additional arguments to webshot2::webshot()
gt_add_divider

zoom
A number specifying the zoom factor. A zoom factor of 2 will result in twice as many pixels vertically and horizontally. Note that using 2 is not exactly the same as taking a screenshot on a HiDPI (Retina) device: it is like increasing the zoom to 200 doubling the height and width of the browser window.

expand
A numeric vector specifying how many pixels to expand the clipping rectangle by. If one number, the rectangle will be expanded by that many pixels on all sides. If four numbers, they specify the top, right, bottom, and left, in that order.

Value
Prints the HTML content to the RStudio viewer and saves a .png file to disk.

Function ID
2-14

See Also
Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(), generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(), gt_fa_column(), gt_fa_rank_change(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(), gt_highlight_rows(), gt_img_border(), gt_img_circle(), gt_img_multi_rows(), gt_img_rows(), gt_index(), gt_merge_stack_color(), gt_merge_stack(), gt_two_column_layout(), img_header(), pad_fn(), tab_style_by_grp()

---

**gt_add_divider**

*Add a dividing border to an existing gt table.*

**Description**

The `gt_add_divider` function takes an existing `gt_tbl` object and adds borders or dividers to specific columns.

**Usage**

```r
gt_add_divider(
  gt_object,
  columns,
  sides = "right",
  color = "grey",
  style = "solid",
  weight = px(2),
  include_labels = TRUE
)
```
### gt_add_divider

**Arguments**

- **gt_object**
  An existing gt table object of class `gt_tbl`

- **columns**
  Specific columns to apply color to, accepts either tidyeval column names or columns by position.

- **sides**
  The border sides to be modified. Options include "left", "right", "top", and "bottom". For all borders surrounding the selected cells, we can use the "all" option.

- **color, style, weight**
  The border color, style, and weight. The color can be defined with a color name or with a hexadecimal color code. The default color value is "#00FFFFFF" (black). The style can be one of either "solid" (the default), "dashed", or "dotted". The weight of the border lines is to be given in pixel values (the px() helper function is useful for this. The default value for weight is "1px".

- **include_labels**
  A logical, either TRUE or FALSE indicating whether to also add dividers through the column labels.

**Value**

An object of class `gt_tbl`.

**Examples**

```r
library(gt)
basic_divider <- head(mtcars) %>%
  gt() %>%
  gt_add_divider(columns = "cyl", style = "dashed")
```

**Figures**

**Function ID**

2-11

**See Also**

Other Utilities: `add_text_img()`, `fa_icon_repeat()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `generate_df()`, `gt_badge()`, `gt_double_table()`, `gt_duplicate_column()`, `gt_fa_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_fa_repeats()`, `gt_highlight_cols()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_img_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()`, `img_header()`, `pad_fn()`, `tab_style_by_grp()`
gt_alert_icon  

*Insert an alert icon to a specific column*

**Description**

Insert an alert icon to a specific column

**Usage**

```r
gt_alert_icon(
  gt_object,  
  column,  
  palette = c("#a962b6", "#f1f1f1", "#378e38"),  
  domain = NULL,  
  height = "10px",  
  direction = 1,  
  align = "center",  
  v_pad = -5
)
```

**Arguments**

- **gt_object**: An existing gt table object of class gt_tbl
- **column**: The column wherein the numeric values should be replaced with circular alert icons.
- **palette**: The colours or colour function that values will be mapped to. Can be a character vector (e.g., `c("white", "red")`) or hex colors or a named palette from the {paletteer} package in the package::palette_name structure.
- **domain**: The possible values that can be mapped. This should be a simple numeric range (e.g., `c(0, 100)`)  
- **height**: A character string indicating the height in pixels, like "10px"  
- **direction**: The direction of the paletteer palette, should be either -1 for reversed or the default of 1 for the existing direction.  
- **align**: Character string indicating alignment of the column, defaults to "left"  
- **v_pad**: A numeric value indicating the vertical padding, defaults to -5 to aid in centering within the vertical space.

**Value**

a gt table
gt_badge

Examples

```r
head(mtcars) %>%
dplyr::mutate(warn = ifelse(mpg >= 21, 1, 0), .before = mpg) %>%
gt::gt() %>%
gt_alert_icon(warn)
```

---

**gt_badge**  
*Add a ‘badge’ based on values and palette*

Description

Add a 'badge' based on values and palette

Usage

```r
gt_badge(gt_object, column, palette = NULL, alpha = 0.2)
```

Arguments

- `gt_object`  
  An existing `gt` table object
- `column`  
  The column to convert to badges, accepts `tidyeval`
- `palette`  
  Name of palette as a string. Must be length of 1 or a vector of valid color names/hex values of equal length to the unique levels of the column (ie if there are 4 names, there need to be 4x colors). Note that if you would like to specify a specific color to match a specific icon, you can also use a named vector like:  
  ```r
  c("angle-double-up" = "#009E73", "angle-double-down" = "#D55E00", "sort" = "#000000")
  ```
- `alpha`  
  A numeric indicating the alpha/transparency. Range from 0 to 1

Value

`gt` table

Examples

```r
library(gt)
head(mtcars) %>%
dplyr::mutate(cyl = paste(cyl, "Cyl")) %>%
gt() %>%
gt_badge(cyl, palette = c("4 Cyl"="red","6 Cyl"="blue","8 Cyl"="green"))
```

Figures
gt_color_box

Add a small color box relative to the cell value.

Description

Create PFF-style colorboxes in a gt table. Note that rather than using gt::fmt_ functions on this column, you can send numeric formatting arguments via ... All arguments should be named and are passed to scales::label_number().

Usage

```r
gt_color_box(
  gt_object,
  columns,
  palette = NULL,
  ...
  domain = NULL,
  width = 70,
  font_weight = "bold"
)
```

Arguments

- **gt_object**: An existing gt table object of class gt_tbl
- **columns**: The columns wherein changes to cell data colors should occur.
- **palette**: The colours or colour function that values will be mapped to. Can be a character vector (eg c("white", "red") or hex colors) or a named palette from the (paletteer) package in the package::palette_name structure. Note that 'pff' will fill in a blue -> green -> yellow -> orange -> red palette.
- **domain**: The possible values that can be mapped. This should be a simple numeric range (e.g. c(0, 100))
- **width**: The width of the entire coloring area in pixels.
- **font_weight**: A string indicating the font weight, defaults to "bold", change to "normal" for default weight.
Value

An object of class gt_tbl.

Examples

library(gt)
test_data <- dplyr::tibble(x = letters[1:10],
    y = seq(100, 10, by = -10),
    z = seq(10, 100, by = 10))
color_box_tab <- test_data %>%
gt() %>%
gt_color_box(columns = y, domain = 0:100, palette = "ggsci::blue_material") %>%
gt_color_box(columns = z, domain = 0:100,
    palette = c("purple", "lightgrey", "green"))

Figures

Function ID

4-3

See Also

Other Colors: gt_color_rows(), gt_hulk_col_numeric()

Description

The gt_color_rows function takes an existing gt_tbl object and applies pre-existing palettes from
the (paletteer) package or custom palettes defined by the user. This function is a custom wrapper
around gt::data_color(), and uses some of the boilerplate code. Basic use is simpler than
data_color().

Usage

gt_color_rows(
    gt_object,
    columns,
    palette = "ggsci::red_material",
    direction = 1,
    domain = NULL,
    pal_type = c("discrete", "continuous"),
    ...
)

gt_color_rows

Add scaled colors according to numeric values or categories/levels
Arguments

- **gt_object**: An existing gt table object of class `gt_tbl`.

- **columns**: The columns wherein changes to cell data colors should occur.

- **palette**: The colours or colour function that values will be mapped to.

- **direction**: Either 1 or -1. If -1 the palette will be reversed.

- **domain**: The possible values that can be mapped.
  
  For `col_numeric` and `col_bin`, this can be a simple numeric range (e.g. `c(0, 100)`); `col_quantile` needs representative numeric data; and `col_factor` needs categorical data.

  If NULL, then whenever the resulting colour function is called, the x value will represent the domain. This implies that if the function is invoked multiple times, the encoding between values and colours may not be consistent; if consistency is needed, you must provide a non-NULL domain.

- **pal_type**: A string indicating the palette type (one of `c("discrete", "continuous")`)

- ... Additional arguments passed to `scales::col_numeric()`

Value

An object of class `gt_tbl`.

Examples

```r
library(gt)
# basic use
basic_use <- mtcars %>%
  head(15) %>%
  gt() %>%
  gt_color_rows(mpg:disp)

# change palette to one that paletteer recognizes
change_pal <- mtcars %>%
  head(15) %>%
  gt() %>%
  gt_color_rows(mpg:disp, palette = "ggsci::blue_material")

# change palette to raw values
vector_pal <- mtcars %>%
  head(15) %>%
  gt() %>%
  gt_color_rows(mpg:disp, palette = c("white", "green"))
  # could also use palette = c("#ffffff", "#00FF00")

# use discrete instead of continuous palette
discrete_pal <- mtcars %>%
  head(15) %>%
  gt() %>%
  gt_color_rows(
```

The `gt_double_table` function takes some data and a user-supplied function to generate two tables in a list. To convert existing `gt::gt()` code to a function, you can follow the approximate pattern:

```r
gt_fn <- function(x) {gt(x) %>% more_gt_code...}
```

Your function should only have a single argument, which is the `data` to be supplied directly into the `gt::gt()` function. This function is intended to be passed directly into `gt_two_column_layout()`, for printing it to the viewer, saving it to a `.png`, or returning the raw HTML.

### Usage

```r
gt_double_table(data, gt_fn, nrows = NULL, noisy = TRUE)
```

### Arguments

- **data**
  - A tibble or dataframe to be passed into the supplied `gt_fn`

- **gt_fn**
  - A user-defined function that has one argument, this argument should pass data to the `gt::gt()` function, which will be supplied by the data argument. It should follow the pattern of `gt_function <- function(x) {gt(x) %>% more_gt_code...}`.
gt_double_table

nrows
The number of rows to split at, defaults to NULL and will attempt to split approximately 50/50 in the left vs right table.

noisy
A logical indicating whether to return the warning about not supplying nrows argument.

Value
a list() of two gt tables

Examples

library(gt)
# define your own function
my_gt_function <- function(x) {
  gt(x) %>%
    gtExtras::gt_color_rows(columns = mpg, domain = range(mtcars$mpg)) %>%
    tab_options(data_row.padding = px(3))
}
two_tables <- gt_double_table(mtcars, my_gt_function, nrows = 16)
# list of two gt_tbl objects
# ready to pass to gtExtras::gt_two_column_layout()
str(two_tables, max.level = 1)

Function ID
2-13

See Also
Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(),
generate_df(), gt_add_divider(), gt_badge(), gt_duplicate_column(), gt_fa_column(),
gt_fa_rank_change(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(), gt_highlight_rows(),
gt_img_border(), gt_img_circle(), gt_img_multi_rows(), gt_img_rows(), gt_index(), gt_merge_stack_color(),
gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(), pad_fn(), tab_style_by_grp()
**gt_duplicate_column**  
*Duplicate an existing column in a gt table*

**Description**
This function takes an existing gt table and will duplicate a column. You also have the option to specify where the column ends up, and what will be appending to the end of the column name to differentiate it.

**Usage**
```r
gt_duplicate_column(
  gt_object,
  column,
  after = dplyr::last_col(),
  append_text = "_dupe",
  dupe_name = NULL
)
```

**Arguments**
- `gt_object` An existing gt table object of class `gt_tbl`
- `column` The column to be duplicated
- `after` The column to place the duplicate column after
- `append_text` The text to add to the column name to differentiate it from the original column name
- `dupe_name` A full name for the "new" duplicated column, will override `append_text`

**Value**
An object of class `gt_tbl`.

**Function ID**
2-15

**See Also**
Other Utilities: `add_text_img()`, `fa_icon_repeat()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `generate_df()`, `gt_add_divider()`, `gt_badge()`, `gt_double_table()`, `gt_fa_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_fa_repeats()`, `gt_highlight_cols()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_img_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()`, `img_header()`, `pad_fn()`, `tab_style_by_grp()`
Examples

```r
library(gt)
dupe_table <- head(mtcars) %>%
dplyr::select(mpg, disp) %>%
gt() %>%
gt_duplicate_column(mpg, after = disp, append_text = "2")
```

---

### gt_fa_column

Add `{fontawesome}` icons inside a `{gt}` column.

#### Description

The `gt_fa_column` function takes an existing `{gt_tbl}` object and adds specific `{fontawesome}` icons based on what the names in the column are. The icons are colored according to a palette that the user supplies, either a vector of valid colors/hex colors of length equal to the unique levels.

#### Usage

```r
gt_fa_column(
  gt_object,
  column,
  ..., 
  palette = NULL,
  align = "left",
  direction = 1,
  height = "20px"
)
```

#### Arguments

- **gt_object**
  An existing `{gt_table}` object of class `{gt_tbl}`

- **column**
  The column wherein the character strings should be replaced with their corresponding `{fontawesome}` icons.

- **...**
  Additional arguments passed to `{fontawesome::fa()}`

- **palette**
  Name of palette as a string. Must be either length of 1 or a vector of valid color names/hex values of equal length to the unique levels of the column (ie if there are 4 names, there need to be 4x colors). Note that if you would like to specify a specific color to match a specific icon, you can also use a named vector like:
  ```r
c("angle-double-up" = "#009E73", "angle-double-down" = "#D55E00", "sort" = "#000000")
```

- **align**
  Character string indicating alignment of the column, defaults to "left"

- **direction**
  The direction of the paletteer palette, should be either -1 for reversed or the default of 1 for the existing direction.

- **height**
  A character string indicating the height of the icon, defaults to "20px"
Value

An object of class gt_tbl.

Examples

```r
library(gt)
fa_cars <- mtcars %>%
  head() %>%
  dplyr::select(cyl, mpg, am, gear) %>%
  dplyr::mutate(man = ifelse(am == 1, "gear", "gears")) %>%
  gt() %>
  gt_fa_column(man)
```

Figures

Function ID

2-15

See Also

Other Utilities: `add_text_img()`, `fa_icon_repeat()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `generate_df()`, `gt_add_divider()`, `gt_badge()`, `gt_double_table()`, `gt_duplicate_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_fa_repeats()`, `gt_highlight_cols()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_img_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()` , `img_header()` , `pad_fn()` , `tab_style_by_grp()`

---

**gt_fa_rank_change**  
*Add rank change indicators to a gt table*

Description

Takes an existing gt table and converts a column of integers into various types of up/down arrows. Note that you need to specify a palette of three colors, in the order of up, neutral, down. Defaults to green, grey, purple. There are 6 supported fa_type, representing various arrows. Note that you can use font_color = 'match' to match the palette across arrows and text. show_text = FALSE will remove the text from the column, resulting only in colored arrows.

Usage

```r
gt_fa_rank_change(
  gt_object,  
  column,  
  palette = c("#1b7837", "lightgrey", ",762a83"),  
  fa_type = c("angles", "arrow", "turn", "chevron", "caret"),
```
font_color = "black",
show_text = TRUE
)

Arguments

gt_object       An existing gt table object
column           The single column that you would like to convert to rank change indicators.
palette          A character vector of length 3. Colors can be represented as hex values or named colors. Colors should be in the order of up-arrow, no-change, down-arrow, defaults to green, grey, purple.
fa_type          The name of the Fontawesome icon, limited to 6 types of various arrows.
font_color       A string, indicating the color of the font, can also be returned as 'match' to match the font color to the arrow palette.
show_text        A logical indicating whether to show/hide the values in the column.

Value

a gt table

Examples

rank_table <- dplyr::tibble(x = c(1:3, -1, -2, -5, 0)) %>%
gt::gt() %>%
gt_fa_rank_change(x, font_color = "match")

Figures

See Also

Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(), generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(),
gt_fa_column(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(), gt_highlight_rows(),
gt_img_border(), gt_img_circle(), gt_img_multi_rows(), gt_img_rows(), gt_index(), gt_merge_stack_color(),
gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(), pad_fn(), tab_style_by_grp()

---

**gt_fa_rating**

*Add rating "stars" to a gt column*

Description

Add rating "stars" to a gt column
Usage

```r
gt_fa_rating(
  gt_object,
  column,
  max_rating = 5,
  ..., 
  color = "orange",
  icon = "star"
)
```

Arguments

- **gt_object**: An existing gt table object of class `gt_tbl`
- **column**: The column wherein the numeric values should be replaced with their corresponding `{fontawesome}` icons.
- **max_rating**: The max number of icons to add, these will be added in grey to indicate "missing"
- **...**: Additional arguments passed to `fontawesome::fa()`
- **color**: The color of the icon, accepts named colors ("orange") or hex strings.
- **icon**: The icon name, passed to `fontawesome::fa()`

Value

An object of class `gt_tbl`.

Examples

```r
library(gt)
set.seed(37)
rating_table <- mtcars %>%
  dplyr::select(mpg:wt) %>%
  dplyr::slice(1:5) %>%
  dplyr::mutate(rating = sample(1:5, size = 5, TRUE)) %>%
  gt() %>%
  gt_fa_rating(rating, icon = "r-project")
```

Figures

Function ID

2-16
See Also

Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(), generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(), gt_fa_column(), gt_fa_rank_change(), gt_fa_repeats(), gt_highlight_cols(), gt_highlight_rows(), gt_img_border(), gt_img_circle(), gt_img_multi_rows(), gt_img_rows(), gt_index(), gt_merge_stack_color(), gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(), pad_fn(), tab_style_by_grp().

---

**gt_fa_repeats**

Repeat \{fontawesome\} icons based on an integer.

---

**Description**

The `gt_fa_repeats` function takes an existing `gt_tbl` object and adds specific \{fontawesome\} to the cells. The icons are repeated according to the integer that the column contains.

**Usage**

```r
gt_fa_repeats(
  gt_object,       # An existing gt table object of class gt_tbl
  column,         # The column wherein the integers should be replaced with \{fontawesome\} icons.
  name = NULL,    # A character string indicating the name of the \fontawesome\ icon.
  ...             # Additional arguments passed to fontawesome::fa()
  palette = NULL, # Name of palette as a string. Must be either length of 1 or a vector of valid color
                  # names/hex values of equal length to the unique levels of the column (ie if there
                  # are 4 names, there need to be 4x colors).
  align = "left", # Character string indicating alignment of the column, defaults to "left".
  direction = 1   # The direction of the paletteer palette, should be either -1 for reversed or the
                  # default of 1 for the existing direction.
)
```

**Arguments**

- `gt_object`: An existing gt table object of class `gt_tbl`.
- `column`: The column wherein the integers should be replaced with \{fontawesome\} icons.
- `name`: A character string indicating the name of the \fontawesome\ icon.
- `...`: Additional arguments passed to \fontawesome::fa()\.
- `palette`: Name of palette as a string. Must be either length of 1 or a vector of valid color
  names/hex values of equal length to the unique levels of the column (ie if there are 4 names, there need to be 4x colors).
- `align`: Character string indicating alignment of the column, defaults to "left".
- `direction`: The direction of the paletteer palette, should be either -1 for reversed or the
  default of 1 for the existing direction.

**Value**

An object of class `gt_tbl`.
**Examples**

```r
library(gt)
mtcars[1:5, 1:4] %>%
gt() %>%
gt_fa_repeats(cyl, name = "car")
```

**Figures**

**Function ID**

2-8

**See Also**

Other Utilities: `add_text_img()`, `fa_icon_repeat()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `generate_df()`, `gt_add_divider()`, `gt_badge()`, `gt_double_table()`, `gt_duplicate_column()`, `gt_fa_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_highlight_cols()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_img_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()`, `img_header()`, `pad_fn()`, `tab_style_by_grp()`

---

**gt_highlight_cols**

*Add color highlighting to a specific column(s)*

**Description**

The `gt_highlight_cols` function takes an existing `gt_tbl` object and adds highlighting color to the cell background of a specific column(s).

**Usage**

```r
gt_highlight_cols(
  gt_object, columns,
  fill = "#80bcd8",
  alpha = 1,
  font_weight = "normal",
  font_color = "#000000"
)
```

**Arguments**

- `gt_object`: An existing `gt` table object of class `gt_tbl`
- `columns`: Specific columns to apply color to, accepts either `tidyeval` column names or columns by position.
gt_highlight_cols

- **fill**: A character string indicating the fill color. If nothing is provided, then "#80bcd8" (light blue) will be used as a default.

- **alpha**: An optional alpha transparency value for the color as single value in the range of 0 (fully transparent) to 1 (fully opaque). If not provided the fill color will either be fully opaque or use alpha information from the color value if it is supplied in the #RRGGBBAA format.

- **font_weight**: A string or number indicating the weight of the font. Can be a text-based keyword such as "normal", "bold", "lighter", "bolder", or, a numeric value between 1 and 1000, inclusive. Note that only variable fonts may support the numeric mapping of weight.

- **font_color**: A character string indicating the text color. If nothing is provided, then "#000000" (black) will be used as a default.

**Value**

An object of class gt_tbl.

**Examples**

```r
library(gt)
basic_col <- head(mtcars) %>%
  gt() %>%
  gt_highlight_cols(cyl, fill = "red", alpha = 0.5)
```

**Figures**

**Function ID**

2-9

**See Also**

Other Utilities: `add_text_img()`, `fa_icon_repeat()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `generate_df()`, `gt_add_divider()`, `gt_badge()`, `gt_double_table()`, `gt_duplicate_column()`, `gt_fa_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_fa_repeats()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_img_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()`, `img_header()`,
**gt_highlight_rows**  
Add color highlighting to a specific row

**Description**

The `gt_highlight_rows` function takes an existing `gt_tbl` object and adds highlighting color to the cell background of a specific row. The function accepts rows only by number (not by logical expression) for now.

**Usage**

```r
gt_highlight_rows(
  gt_object,
  columns = gt::everything(),
  rows = TRUE,
  fill = "#80bcd8",
  alpha = 0.8,
  font_weight = "bold",
  font_color = "#000000",
  bold_target_only = FALSE,
  target_col = c()
)
```

**Arguments**

- **gt_object**: An existing `gt` table object of class `gt_tbl`
- **columns**: Specific columns to apply color to, accepts either `tidyeval` column names or columns by position.
- **rows**: The rows to apply the highlight to. Can either by a `tidyeval` compliant statement (like `cyl == 4`), a number indicating specific row(s) to apply color to or `TRUE` to indicate all rows.
- **fill**: A character string indicating the fill color. If nothing is provided, then "#80bcd8" (light blue) will be used as a default.
- **alpha**: An optional alpha transparency value for the color as single value in the range of 0 (fully transparent) to 1 (fully opaque). If not provided the fill color will either be fully opaque or use alpha information from the color value if it is supplied in the `#RRGGBBAA` format.
- **font_weight**: A string or number indicating the weight of the font. Can be a text-based keyword such as "normal", "bold", "lighter", "bolder", or, a numeric value between 1 and 1000, inclusive. Note that only variable fonts may support the numeric mapping of weight.
- **font_color**: A character string indicating the text color. If nothing is provided, then "#000000" (black) will be used as a default.
- **bold_target_only**: A logical of TRUE/FALSE indicating whether to apply bold to only the specific `target_col`. You must indicate a specific column with `target_col`. 
target_col  A specific tidyverse column to apply bold text to, which allows for normal weight text for the remaining highlighted columns.

Value
An object of class gt_tbl.

Examples

```r
library(gt)
basic_use <- head(mtcars[,1:5]) %>%
tibble::rownames_to_column("car") %>%
  gt() %>%
  gt_highlight_rows(rows = 2, font_weight = "normal")

target_bold_column <- head(mtcars[,1:5]) %>%
tibble::rownames_to_column("car") %>%
  gt() %>%
  gt_highlight_rows(
    rows = 5,
    fill = "lightgrey",
    bold_target_only = TRUE,
    target_col = car
  )
```

Figures

Function ID
2-10

See Also
Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(), generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(),
gt_fa_column(), gt_fa_rank_change(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(),
gt_img_border(), gt_img_circle(), gt_img_multi_rows(), gt_img_rows(), gt_index(), gt_merge_stack_color(),
gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(), pad_fn(), tab_style_by_grp()

---

**Description**

The hulk name comes from the idea of a diverging purple and green theme that is colorblind safe and visually appealing. It is a useful alternative to the red/green palette where purple typically can indicate low or "bad" value, and green can indicate a high or "good" value.
Usage

```r
gt_hulk_col_numeric(
  gt_object,
  columns = NULL,
  domain = NULL,
  ..., 
  trim = FALSE
)
```

Arguments

- `gt_object`: An existing gt table object of class `gt_tbl`
- `columns`: The columns wherein changes to cell data colors should occur.
- `domain`: The possible values that can be mapped.
  For `col_numeric` and `col_bin`, this can be a simple numeric range (e.g. `c(0, 100)`); `col_quantile` needs representative numeric data; and `col_factor` needs categorical data.
  If `NULL`, then whenever the resulting colour function is called, the x value will represent the domain. This implies that if the function is invoked multiple times, the encoding between values and colours may not be consistent; if consistency is needed, you must provide a non-`NULL` domain.
- `...`: Additional arguments passed to `scales::col_numeric()`
- `trim`: trim the palette to give less intense maximal colors

Value

An object of class `gt_tbl`.

Examples

```r
library(gt)
# basic use
hulk_basic <- mtcars %>%
  head() %>%
  gt::gt() %>%
  gt_hulk_col_numeric(mpg)

hulk_trim <- mtcars %>%
  head() %>%
  gt::gt() %>%
  # trim gives small range of colors
  gt_hulk_col_numeric(mpg:disp, trim = TRUE)

# option to reverse the color palette
hulk_rev <- mtcars %>%
  head() %>%
  gt::gt() %>%
```
# trim gives small range of colors
gt_hulk_col_numeric(mpg:disp, reverse = TRUE)

Figures

Function ID

4-1

See Also

Other Colors: `gt_color_box()`, `gt_color_rows()`

---

```r
gt_hyperlink(text, url)
```

Arguments

- `text`: The text displayed for the hyperlink
- `url`: The url for the hyperlink

Value

HTML text
gt_img_border

Create an identifier line border at the bottom of an image

Description
Create an identifier line border at the bottom of an image

Usage

gt_img_border(
  gt_object,  
  column,     
  height = 25,  
  width = 25,   
  border_color = "black",  
  border_weight = 2.5
)

Arguments

  gt_object       An existing gt object
  column          The column to apply the transformation to
  height          A number indicating the height of the image in pixels.
  width           A number indicating the width of the image in pixels.
  border_color    The color of the circular border, can either be a single value ie (white or #FF0000)
                  or a vector where the length of the vector is equal to the number of rows.
  border_weight   A number indicating the weight of the border in pixels.

Value

  a gt object

Examples

library(gt)
gt_img_tab <- dplyr::tibble(  
  x = 1:4,  
  names = c("Waking Up", "Wiggling", "Sleep"," Glamour"),  
  img = c(  
    "https://pbs.twimg.com/media/EiIY-1fXgAEV6CJ?format=jpg&name=360x360",  
    "https://pbs.twimg.com/media/EiIY-1fXcA1PdTS?format=jpg&name=360x360",  
    "https://pbs.twimg.com/media/EiIY-1mX0AE-YkC?format=jpg&name=360x360",  
    "https://pbs.twimg.com/media/EiIY-2cXYA1VaO?format=jpg&name=360x360"  
  )  
)  
%>%
gt() %>%
gt_img_border(img)
Figures

See Also

Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(), generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(),
gt_fa.column(), gt_fa_rank_change(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(),
gt_highlight_rows(), gt_img.circle(), gt_img_multi_rows(), gt_img_rows(), gt_index(),
gt_merge_stack_color(), gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(),
pad_fn(), tab_style_by_grp()
Examples

library(gt)
gt_img_tab <- dplyr::tibble(
  x = 1:4,
  names = c("Rich Iannone", "Katie Masiello", "Tom Mock", "Hadley Wickham"),
  img = c("https://pbs.twimg.com/profile_images/961326215792533504/Ilh6EsvtF_400x400.jpg",
          "https://pbs.twimg.com/profile_images/1471188460220260354/rHhoIXkZ_400x400.jpg",
          "https://pbs.twimg.com/profile_images/1467219661121064965/Lfondr9M_400x400.jpg",
          "https://pbs.twimg.com/profile_images/90518638195147264/7zKAG5sY_400x400.jpg")
) %>%
gt() %>%
gt_img_circle(img)

Figures

Function ID
2-15

See Also
Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(),
generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(),
gt_fa_column(), gt_fa_rank_change(), gt_fa_rating(), gtfa_repeats(), gt_highlight_cols(),
gt_highlight_rows(), gt_img_border(), gt_img_multi_rows(), gt_img_rows(), gt_index(),
gt_merge_stack_color(), gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(),
 pad_fn(), tab_style_by_grp()

---

gt_img_multi_rows  Add multiple local or web images into rows of a gt table

Description
The gt_multi_img_rows function takes an existing gt_tbl object and converts nested cells with
filenames or urls to images into inline images. This is a wrapper around gt::text_transform() +
  gt::web_image()/gt::local_image() with the necessary boilerplate already applied.

Usage

  gt_img_multi_rows(gt_object, columns, img_source = "web", height = 30)
Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>gt_object</td>
<td>An existing gt table object of class gt_tbl.</td>
</tr>
<tr>
<td>columns</td>
<td>The columns wherein changes to cell data colors should occur.</td>
</tr>
<tr>
<td>img_source</td>
<td>A string, specifying either &quot;local&quot; or &quot;web&quot; as the source of the images.</td>
</tr>
<tr>
<td>height</td>
<td>The absolute height (px) of the image in the table cell.</td>
</tr>
</tbody>
</table>

Value

An object of class gt_tbl.

Examples

```r
library(gt)
teams <- "https://github.com/nflverse/nflfastR-data/raw/master/teams_colors_logos.rds"
team_df <- readRDS(url(teams))

conf_table <- team_df %>%
dplyr::select(team_conf, team_division, logo = team_logo_espn) %>%
dplyr::distinct() %>%
tidyr::nest(data = logo) %>%
dplyr::rename(team_logos = data) %>%
dplyr::arrange(team_conf, team_division) %>%
gt() %>%
gt_img_multi_rows(columns = team_logos, height = 25)
```

Figures

Function ID

2-9

See Also

Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(),
generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(),
gt_fa_column(), gt_fa_rank_change(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(),
gt_highlight_rows(), gt_img_border(), gt_img_circle(), gt_img_rows(), gt_index(), gt_merge_stack_color(),
gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(), pad_fn(), tab_style_by_grp()
**Description**

The `gt_img_rows` function takes an existing `gt_tbl` object and converts filenames or urls to images into inline images. This is a wrapper around `gt::text_transform()` + `gt::web_image()`/`gt::local_image()` with the necessary boilerplate already applied.

**Usage**

```r
gt_img_rows(gt_object, columns, img_source = "web", height = 30)
```

**Arguments**

- `gt_object`: An existing gt table object of class `gt_tbl`
- `columns`: The columns wherein changes to cell data colors should occur.
- `img_source`: A string, specifying either "local" or "web" as the source of the images.
- `height`: The absolute height (px) of the image in the table cell.

**Value**

An object of class `gt_tbl`.

**Examples**

```r
library(gt)
teams <- "https://github.com/nflverse/nflfastR-data/raw/master/teams_colors_logos.rds"
team_df <- readRDS(url(teams))

logo_table <- team_df %>%
dplyr::select(team_wordmark, team_abbr, logo = team_logo_espn, team_name:team_conf) %>%
  head() %>%
  gt() %>%
  gt_img_rows(columns = team_wordmark, height = 25) %>%
  gt_img_rows(columns = logo, img_source = "web", height = 30) %>%
  tab_options(data_row.padding = px(1))
```

**Figures**

**Function ID**

2-7
gt_index

Description

This is a utility function to extract the underlying data from a gt table. You can use it with a saved gt table, in the pipe (%>% or even within most other gt functions (e.g., tab_style()). It defaults to returning the column indicated as a vector, so that you can work with the values. Typically this is used with logical statements to affect one column based on the values in that specified secondary column. Alternatively, you can extract the entire ordered data according to the internal index as a tibble. This allows for even more complex steps based on multiple indices.

Usage

```r
gt_index(gt_object, column, as_vector = TRUE)
```

Arguments

- **gt_object**: An existing gt table object
- **column**: The column name that you intend to extract, accepts tidyeval semantics (i.e., `mpg` instead of "mpg")
- **as_vector**: A logical indicating whether you’d like just the column indicated as a vector, or the entire dataframe

Value

A vector or a tibble

See Also

Other Utilities: `add_text_img()`, `fa_icon_repeat()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `generate_df()`, `gt_add_divider()`, `gt_badge()`, `gt_double_table()`, `gt_duplicate_column()`, `gt_fa_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_fa_repeats()`, `gt_highlight_cols()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()`, `img_header()`, `pad_fn()`, `tab_style_by_grp()`
gt_index

See Also
Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(), generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(), gt_fa_column(), gt_fa_rank_change(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(), gt_highlight_rows(), gt_img_border(), gt_img_circle(), gt_img_multi_rows(), gt_img_rows(), gt_merge_stack_color(), gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(), pad_fn(), tab_style_by_grp()

Examples

library(gt)

# This is a key step, as gt will create the row groups
# based on first observation of the unique row items
# this sampling will return a row-group order for cyl of 6,4,8

set.seed(1234)
sliced_data <- mtcars %>%
  dplyr::group_by(cyl) %>%
  dplyr::slice_head(n = 3) %>%
  dplyr::ungroup() %>%
  # randomize the order
  dplyr::slice_sample(n = 9)

# not in "order" yet
sliced_data$cyl

# But unique order of 6,4,8
unique(sliced_data$cyl)

# creating a standalone basic table
test_tab <- sliced_data %>%
  gt(groupname_col = "cyl")

# can style a specific column based on the contents of another column
tab_out_styled <- test_tab %>%
  tab_style(
    locations = cells_body(mpg, rows = gt_index(., am) == 0),
    style = cell_fill("red")
  )

# OR can extract the underlying data in the "correct order"
# according to the internal gt structure, ie arranged by group
# by cylinder, 6,4,8
gt_index(test_tab, mpg, as_vector = FALSE)

# note that the order of the index data is
# not equivalent to the order of the input data
# however all the of the rows still match
sliced_data
gt_label_details

Add a simple table with column names and matching labels

Description

Add a simple table with column names and matching labels

Usage

gt_label_details(label, content, names = c("Column", "Description"))

Arguments

- label: A string representing the label for the details expansion section.
- content: A named list or wide data.frame with 2 rows
- names: a string indicating the name of the two columns inside the details tag

Value

HTML text

gt_merge_stack

Merge and stack text from two columns in gt

Description

The `gt_merge_stack()` function takes an existing `gt` table and merges column 1 and column 2, stacking column 1’s text on top of column 2’s. Top text is in all caps with black bold text, while the lower text is smaller and dark grey.

Usage

gt_merge_stack(
gt_object,
col1,
col2,
palette = c("black", "grey"),
...,  
small_cap = TRUE,
font_size = c("14px", "10px"),
font_weight = c("bold", "bold")
)
Arguments

- **gt_object**: An existing gt table object of class `gt_tbl`
- **col1**: The column to stack on top. Will be converted to all caps, with black and bold text.
- **col2**: The column to merge and place below. Will be smaller and dark grey.
- **palette**: The colors for the text, where the first color is the top, i.e., `col1` and the second color is the bottom, i.e., `col2`. Defaults to `c("black","grey")`. For more information on built-in color names, see `colors()`.

... Arguments passed on to `scales::col2hcl`

- **h**: Hue, `[0, 360]`
- **c**: Chroma, `[0, 100]`
- **l**: Luminance, `[0, 100]`
- **alpha**: Alpha, `[0, 1]`

- **small_cap**: a logical indicating whether to use 'small-cap' on the top line of text
- **font_size**: a string of length 2 indicating the font-size in px of the top and bottom text
- **font_weight**: a string of length 2 indicating the 'font-weight' of the top and bottom text. Must be one of 'bold', 'normal', 'lighter'

Value

An object of class `gt_tbl`.

Examples

```r
library(gt)
team_url <- "https://github.com/nflverse/nflfastR-data/raw/master/teams_colors_logos.rds"
team_df <- readRDS(url(team_url))

stacked_tab <- team_df %>%
dplyr::select(team_nick, team_abbr, team_conf, team_division, team_wordmark) %>%
head(8) %>%
gt(groupname_col = "team_conf") %>%
gt_merge_stack(col1 = team_nick, col2 = team_division) %>%
gt_img_rows(team_wordmark)
```

Figures

Function ID

2-6
gt_merge_stack_color

Description

The `gt_merge_stack_color()` function takes an existing `gt` table and merges column 1 and column 2, stacking column 1’s text on top of column 2’s. This variant also accepts a palette argument to colorize the background values.

Usage

```r
gt_merge_stack_color(
  gt_object,
  top_val,
  color_val,
  palette = c("#512daa", "white", "#2d6a22"),
  domain = NULL,
  small_cap = TRUE,
  font_size = c("14px", "10px"),
  font_weight = c("bold", "bold")
)
```

Arguments

- **gt_object**: An existing `gt` table object of class `gt_tbl`.
- **top_val**: The column to stack on top. Will be converted to all caps, with bold text by default.
- **color_val**: The column to merge and place below, and controls the background color value. Will be smaller by default.
- **palette**: The colours or colour function that values will be mapped to, accepts a string or named palettes from paletteer.
- **domain**: The possible values that can be mapped. This can be a simple numeric range (e.g. `c(0, 100)`).
- **small_cap**: a logical indicating whether to use ‘small-cap’ on the top line of text, defaults to TRUE.
- **font_size**: a string of length 2 indicating the font-size in px of the top and bottom text.
- **font_weight**: a string of length 2 indicating the ‘font-weight’ of the top and bottom text. Must be one of ‘bold’, ‘normal’, ‘lighter’.
Value

An object of class gt_tbl.

Examples

```r
set.seed(12345)
dplyr::tibble(
  value = sample(state.name, 5),
  color_by = seq.int(10, 98, length.out = 5)
) %>%
  gt::gt() %>%
  gt_merge_stack_color(value, color_by)
```

Figures

See Also

Other Utilities: add_text_img(), fa_icon_repeat(), fmt_pad_num(), fmt_pct_extra(), fmt_symbol_first(),
generate_df(), gt_add_divider(), gt_badge(), gt_double_table(), gt_duplicate_column(),
gt_fa_column(), gt_fa_rank_change(), gt_fa_rating(), gt_fa_repeats(), gt_highlight_cols(),
gt_highlight_rows(), gt_img_border(), gt_img_circle(), gt_img_multi_rows(), gt_img_rows(),
gt_index(), gt_merge_stack(), gt_two_column_layout(), gtsave_extra(), img_header(),
pad_fn(), tab_style_by_grp()
Arguments

- **gt_object**: An existing gt table object of class `gt_tbl`.
- **column**: A single column wherein the bar plot should replace existing data.
- **color**: A character representing the color for the bar, defaults to purple. Accepts a named color (e.g., `purple`) or a hex color.
- ... Additional arguments passed to `scales::label_number()` or `scales::label_percent()`, depending on what was specified in `scale_type`.
- **keep_column**: TRUE/FALSE logical indicating if you want to keep a copy of the "plotted" column as raw values next to the plot itself.
- **width**: An integer indicating the width of the plot in pixels.
- **scale_type**: A string indicating additional text formatting and the addition of numeric labels to the plotted bars if not "none". If "none", no numbers will be added to the bar, but if "number" or "percent" are used, then the numbers in the plotted column will be added as a bar-label and formatted according to `scales::label_percent()` or `scales::label_number()`.
- **text_color**: A string indicating the color of text if `scale_type` is used. Defaults to "white".

Value

An object of class `gt_tbl`.

Examples

```r
library(gt)
gt_plt_bar_tab <- mtcars %>%
  head() %>%
  gt() %>%
  gt_plt_bar(column = mpg, keep_column = TRUE)
```

Function ID

3-4

See Also

Other Plotting: `gt_plt_bar_pct()`, `gt_plt_bar_stack()`, `gt_plt_dist()`, `gt_plt_percentile()`, `gt_plt_point()`, `gt_plt_sparkline()`, `gt_plt_winloss()`
gt_plt_bar_pct

Add HTML-based bar plots into rows of a gt table

Description

The `gt_plt_bar_pct` function takes an existing `gt_tbl` object and adds horizontal barplots via native HTML. This is a wrapper around raw HTML strings, `gt::text_transform()` and `gt::cols_align()`. Note that values default to being normalized to the percent of the maximum observed value in the specified column. You can turn this off if the values already represent a percentage value representing 0-100.

Usage

```r
gt_plt_bar_pct(
  gt_object, 
  column, 
  height = 16, 
  fill = "purple", 
  background = "#e1e1e1", 
  scaled = FALSE
)
```

Arguments

- **gt_object**: An existing gt table object of class `gt_tbl`
- **column**: The column wherein the bar plot should replace existing data.
- **height**: A number representing the vertical height of the plot in pixels. Defaults to 16 px.
- **fill**: A character representing the fill for the bar, defaults to purple. Accepts a named color (eg 'purple') or a hex color.
- **background**: A character representing the background filling out the 100% mark of the bar, defaults to light grey. Accepts a named color (eg 'white') or a hex color.
- **scaled**: TRUE/FALSE logical indicating if the value is already scaled to a percent of max (TRUE) or if it needs to be scaled (FALSE). Defaults to FALSE, meaning the value will be divided by the max value in that column and then multiplied by 100.

Value

An object of class `gt_tbl`.

Examples

```r
library(gt)
gt_bar_plot_tab <- mtcars   
   %>% head() %>%
   dplyr::select(cyl, mpg) %>%
```
```r
dplyr::mutate(mpg_pct_max = round(mpg/max(mpg) * 100, digits = 2),
  mpg_scaled = mpg/max(mpg) * 100) %>%
dplyr::mutate(mpg_unscaled = mpg) %>%
  gt() %>%
  gt_plt_bar_pct(column = mpg_scaled, scaled = TRUE) %>%
  gt_plt_bar_pct(column = mpg_unscaled, scaled = FALSE,
    fill = "blue", background = "lightblue") %>%
cols_align("center", contains("scale")) %>%
cols_width(4 ~ px(125),
  5 ~ px(125))
```

**Figures**

**Function ID**

3-5

**See Also**

Other Plotting: gt_plt_bar_stack(), gt_plt_bar(), gt_plt_dist(), gt_plt_percentile(),
gt_plt_point(), gt_plt_sparkline(), gt_plt_winloss()

---

**gt_plt_bar_stack**  
*Add a percent stacked bar chart in place of existing data.*

**Description**

The `gt_plt_bar_stack` function takes an existing `gt_tbl` object and converts the existing values into a percent stacked bar chart. The bar chart will represent either 2 or 3 user-specified values per row, and requires a list column ahead of time. The palette and labels need to be equal length. The values must either add up to 100 i.e. percentage points if using `position = 'fill'`, or can be raw values with `position = 'stack'`. Note that the labels can be controlled via the `fmt_fn` argument and the `scales::label_???(?)` family of function.

**Usage**

```r
gt_plt_bar_stack(
  gt_object,
  column = NULL,
  palette = c("#ff4343", "#bfbfbf", ":0a1c2b"),
  labels = c("Group 1", "Group 2", "Group 3"),
  position = "fill",
  width = 70,
  fmt_fn = scales::label_number(scale_cut = cut_short_scale(), trim = TRUE)
)
```
Arguments

**gt_object**  
An existing `gt` table object of class `gt_tbl`

**column**  
The column wherein the percent stacked barchart should replace existing data. Note that the data must be represented as a list of numeric values ahead of time.

**palette**  
A color palette of length 2 or 3, represented either by hex colors ("#ff4343") or named colors ("red").

**labels**  
A vector of strings of length 2 or 3, representing the labels for the bar chart, will be colored according to the palette as well.

**position**  
An string indicator passed to `ggplot2` indicating if the bar should be a percent of total "fill" or stacked as the raw values "stack".

**width**  
An integer representing the width of the bar chart in pixels.

**fmt_fn**  
A specific function from `scales::label_??` family. Defaults to `scales::label_number()`

Value

An object of class `gt_tbl`.

Examples

```r
library(gt)
library(dplyr)

ex_df <- dplyr::tibble(
  x = c("Example 1","Example 1",
        "Example 1","Example 2","Example 2",
        "Example 3","Example 3","Example 3",
        "Example 4","Example 4"),
  measure = c("Measure 1","Measure 2",
              "Measure 3","Measure 1","Measure 2",
              "Measure 1","Measure 2","Measure 3",
              "Measure 1","Measure 2"),
  data = c(30, 20, 50, 30, 30, 40, 30, 40, 30, 30, 50, 20)
)

tab_df <- ex_df %>%
  group_by(x) %>%
  summarise(list_data = list(data))

tab_df

ex_tab <- tab_df %>%
  gt() %>%
  gt_plt_bar_stack(column = list_data)
```
gt_plt_bullet

Create an inline 'bullet chart' in a gt table

Description

Create an inline 'bullet chart' in a gt table

Usage

```r
gt_plt_bullet(
  gt_object, 
  column = NULL, 
  target = NULL, 
  width = 65, 
  palette = c("grey", "red"), 
  palette_col = NULL 
)
```

Arguments

- `gt_object`: An existing gt table object of class `gt_tbl`
- `column`: The column where a 'bullet chart' will replace the inline values.
- `target`: The column indicating the target values that will be represented by a vertical line
- `width`: Width of the plot in pixels
- `palette`: Color of the bar and target line, defaults to `c("grey", "red"), can use named colors or hex colors. Must be of length two, and the first color will always be used as the bar color.
- `palette_col`: An additional column that contains specific colors for the bar colors themselves. Defaults to NULL which skips this argument.

Value

An object of class `gt_tbl`.

See Also

Other Plotting: `gt_plt_bar_pct()`, `gt_plt_bar()`, `gt_plt_dist()`, `gt_plt_percentile()`, `gt_plt_point()`, `gt_plt_sparkline()`, `gt_plt_winloss()`
Examples

```r
set.seed(37)
bullet_tab <- tibble::rownames_to_column(mtcars) %>%
dplyr::select(rowname, cyl:drat, mpg) %>%
dplyr::group_by(cyl) %>%
dplyr::mutate(target_col = mean(mpg)) %>%
dplyr::slice_sample(n = 3) %>%
dplyr::ungroup() %>%
gt::gt() %>%
gt_plt_bullet(column = mpg, target = target_col, width = 45, palette = c("lightblue", "black")) %>%
gt_theme_538()
```

Function ID

3-7

See Also

Other Themes: `gt_plt_conf_int()`, `gt_plt_dot()`, `gt_theme_538()`, `gt_theme_dark()`, `gt_theme_dot_matrix()`, `gt_theme_espn()`, `gt_theme_excel()`, `gt_theme_guardian()`, `gt_theme_nytimes()`, `gt_theme_pff()`

---

**gt_plt_conf_int**  
Plot a confidence interval around a point

Description

Plot a confidence interval around a point

Usage

```r
gt_plt_conf_int(
  gt_object,
  column,
  ci_columns,
  ci = 0.9,
  ref_line = NULL,
  palette = c("black", "grey", "white", "black"),
  width = 45,
  text_args = list(accuracy = 1),
  text_size = 1.5
)
```
Arguments

gt_object An existing gt table
column The column that contains the mean of the sample. This can either be a single number per row, if you have calculated the values ahead of time, or a list of values if you want to calculate the confidence intervals.
ci_columns Optional columns representing the left/right confidence intervals of your sample.
ci The confidence interval, representing the percentage, i.e. 0.9 which represents 10-90 for the two tails.
ref_line A number indicating where to place reference line on x-axis.
palette A vector of color strings of exactly length 4. The colors represent the central point, the color of the range, the color of the stroke around the central point, and the color of the text, in that specific order.
width A number indicating the width of the plot in "mm", defaults to 45.
text_args A list of named arguments. Optional text arguments passed as a list to scales::label_number.
text_size A number indicating the size of the text indicators in the plot. Defaults to 1.5. Can also be set to 0 to "remove" the text itself.

Value

a gt table

Examples

# gtExtras can calculate basic conf int
# using confint() function

ci_table <- generate_df(
  n = 50, n_grps = 3,
  mean = c(10, 15, 20), sd = c(10, 10, 10),
  with_seed = 37
) %>%
dplyr::group_by(grp) %>%
dplyr::summarise(
  n = dplyr::n(),
  avg = mean(values),
  sd = sd(values),
  list_data = list(values)
) %>%
gt::gt() %>%
gt_plt_conf_int(list_data, ci = 0.9)

# You can also provide your own values
# based on your own algorithm/calculations
pre_calc_ci_tab <- dplyr::tibble(
  mean = c(12, 10), ci1 = c(8, 5), ci2 = c(16, 15),
  ci_plot = c(12, 10))
The `gt_plt_dist` function takes an existing `gt_tbl` object and adds summary distribution sparklines via `ggplot2`. Note that these sparklines are limited to density, histogram, boxplot or rug/strip charts.

If you're wanting to plot more traditional sparklines, you can use `gtExtras::gt_plt_sparkline()`.

**Usage**

```r
gt_plt_dist(  
gt_object,  
column,  
type = "density",  
fig_dim = c(5, 30),  
line_color = "black",  
fill_color = "grey",  
bw = NULL,  
trim = FALSE,  
same_limit = TRUE)
```

---

**Figures**

**Function ID**

3-10

**See Also**

Other Themes: `gt_plt_bullet()`, `gt_plt_dot()`, `gt_theme_538()`, `gt_theme_dark()`, `gt_theme_dot_matrix()`, `gt_theme_espn()`, `gt_theme_excel()`, `gt_theme_guardian()`, `gt_theme_nytimes()`, `gt_theme_pff()`

---

| `gt_plt_dist` | Add distribution plots into rows of a `gt` table |

---

**Description**

The `gt_plt_dist` function takes an existing `gt_tbl` object and adds summary distribution sparklines via `ggplot2`. Note that these sparklines are limited to density, histogram, boxplot or rug/strip charts.

If you're wanting to plot more traditional sparklines, you can use `gtExtras::gt_plt_sparkline()`.

---

**Usage**

```r
gt_plt_dist(  
gt_object,  
column,  
type = "density",  
fig_dim = c(5, 30),  
line_color = "black",  
fill_color = "grey",  
bw = NULL,  
trim = FALSE,  
same_limit = TRUE)
```
Arguments

- **gt_object**
  - An existing gt table object of class `gt_tbl`

- **column**
  - The column wherein the sparkline plot should replace existing data. Note that the data *must* be represented as a list of numeric values ahead of time.

- **type**
  - A string indicating the type of plot to generate, accepts "boxplot", "histogram", "rug_strip" or "density".

- **fig_dim**
  - A vector of two numbers indicating the height/width of the plot in mm at a DPI of 25.4, defaults to `c(5, 30)`

- **line_color**
  - Color for the line, defaults to "black". Accepts a named color (eg 'blue') or a hex color.

- **fill_color**
  - Color for the fill of histograms/density plots, defaults to "grey". Accepts a named color (eg 'blue') or a hex color.

- **bw**
  - The bandwidth or binwidth, passed to `density()` or `ggplot2::geom_histogram()`. If `type` = "density", then `bw` is passed to the `bw` argument, if `type` = "histogram", then `bw` is passed to the `binwidth` argument.

- **trim**
  - A logical indicating whether to trim the values in `type` = "density" to a slight expansion beyond the observable range. Can help with long tails in density plots.

- **same_limit**
  - A logical indicating that the plots will use the same axis range (TRUE) or have individual axis ranges (FALSE).

Value

- An object of class `gt_tbl`.

Examples

```r
library(gt)
gt_sparkline_tab <- mtcars %>%
  dplyr::group_by(cyl) %>%
  # must end up with list of data for each row in the input dataframe
  dplyr::summarize(mpg_data = list(mpg), .groups = "drop") %>%
  gt() %>%
gt_plt_dist(mpg_data)
```

Figures

Function ID

1-4

See Also

Other Plotting: `gt_plt_bar_pct()`, `gt_plt_bar_stack()`, `gt_plt_bar()`, `gt_plt_percentile()`, `gt_plt_point()`, `gt_plt_sparkline()`, `gt_plt_winloss()`
gt_plt_dot

Add a color dot and thin bar chart to a table

Description

This function takes a data column and a categorical column and adds a colored dot and a colored
dot to the categorical column. You can supply a specific palette or a palette from the \{paletteer\}
package.

Usage

\[
\text{gt\_plt\_dot(}
\text{gt\_object,}
\text{column,}
\text{category\_column,}
\text{palette = NULL,}
\text{max\_value = NULL}
\text{)}
\]

Arguments

gt_object An existing gt table object of class \text{gt\_tbl}
column The column which supplies values to create the inline bar plot
category_column The category column, where a colored dot and bar will be added
palette The colors or color function that values will be mapped to. Can be a character vector (eg c\("white", \"red\") or hex colors) or a named palette from the \{paletteer\} package.
max_value A single numeric value indicating the max value, if left as NULL then the range
of the column values will be used

Value

a \text{gt\_tbl}

Examples

\[
\text{library(gt)}
dot\_bar\_tab <- \text{mtcars %>%
head(\%>
\text{dplyr::mutate(cars = sapply(strsplit(rownames(.)," "), \"[\", 1)) %>%
\text{dplyr::select(cars, mpg, disp) %>%
\text{gt() %>%
\text{gt\_plt\_dot(disp, cars, palette = \"ggthemes::fivethirtyeight\") %>%
cols\_width(cars ~ px(125))}
\]
gt_plt_percentile

Create a dot plot for percentiles

Description

Creates a percentile dot plot in each row. Can be used as an alternative for a 0 to 100% bar plot. Allows for scaling values as well and accepts a vector of colors for the range of values.

Usage

```r
gt_plt_percentile(
  gt_object,
  column,
  palette = c("#007ad6", "#f0f0f0", "#f72e2e"),
  width = 25,
  scale = 1
)
```

Arguments

- `gt_object` An existing `gt` table
- `column` The column to transform to the percentile dot plot. Accepts `tidyeval`. All values must be end up being between 0 and 100.
- `palette` A vector of strings of length 3. Defaults to `c('blue', 'lightgrey', 'red')` as hex so `c("#007ad6", "#f0f0f0", "#f72e2e")`
- `width` A numeric, indicating the width of the plot in mm, defaults to 25
- `scale` A number to multiply/scale the values in the column by. Defaults to 1, but can also be 100 if you have decimals.

Value

- a `gt` table

See Also

Other Themes: `gt_plt_bullet()`, `gt_plt_conf_int()`, `gt_theme_538()`, `gt_theme_dark()`, `gt_theme_dot_matrix()`, `gt_theme_espn()`, `gt_theme_excel()`, `gt_theme_guardian()`, `gt_theme_nytimes()`, `gt_theme_pff()`
Examples

library(gt)
dot_plt <- dplyr::tibble(x = c(seq(10, 90, length.out = 5))) %>%
  gt() %>%
  gt_duplicate_column(x, dupe_name = "dot_plot") %>%
  gt_plt_percentile(dot_plot)

Figures

Function ID
3-8

See Also

Other Plotting: `gt_plt_bar_pct()`, `gt_plt_bar_stack()`, `gt_plt_bar()`, `gt_plt_dist()`, `gt_plt_point()`,
`gt_plt_sparkline()`, `gt_plt_winloss()`

---

**gt_plt_point**

Create a point plot in place of each value.

Description

Creates a dot/point plot in each row. Can be used as an alternative for a bar plot. Accepts any range of values, as opposed to `gt_plt_percentile` which is intended to be used for values between 0 and 100.

Usage

```r
gt_plt_point(
  gt_object, 
  column, 
  palette = c("#007ad6", "#f0f0f0", "#f72e2e"), 
  width = 25, 
  scale = 1, 
  accuracy = 1
)
```

Arguments

- **gt_object** An existing gt table
- **column** The column to transform to the percentile dot plot. Accepts tidyeval. All values must be end up being between 0 and 100.
- **palette** A vector of strings of length 3. Defaults to `c(‘blue’, ‘lightgrey’, ‘red’)` as hex so `c("#007ad6", "#f0f0f0", "#f72e2e")`
gt_plt_sparkline

width A numeric, indicating the width of the plot in mm, defaults to 25
scale A number to multiplySCALE values in the column by. Defaults to 1, but can also be 100 if you have decimals.
accuracy Accuracy of the number labels in the plot, passed to scales::label_number()

Value
a gt table

Examples
point_tab <- dplyr::tibble(x = c(seq(1.2e6, 2e6, length.out = 5))) %>%
gt::gt() %>%
gt_duplicate_column(x, dupe_name = "point_plot") %>%
gt_plt_point(point_plot, accuracy = .1, width = 25) %>%
gt::fmt_number(x, suffixing = TRUE, decimals = 1)

Figures

Function ID
3-9

See Also
Other Plotting: gt_plt_bar_pct(), gt_plt_bar_stack(), gt_plt_bar(), gt_plt_dist(), gt_plt_percentile(),
gt_plt_sparkline(), gt_plt_winloss()

gt_plt_sparkline Add sparklines into rows of a gt table

Description
The gt_plt_sparkline function takes an existing gt_tbl object and adds sparklines via the ggplot2. Note that if you’d rather plot summary distributions (ie density/histograms) you can instead use: gtExtras::gt_plt_dist()

Usage
gt_plt_sparkline(
  gt_object,
  column,
  type = "default",
  fig_dim = c(5, 30),
  palette = c("black", "black", "purple", "green", "lightgrey"),
)
same_limit = TRUE,
label = TRUE
)

Arguments

- **gt_object**: An existing gt table object of class `gt_tbl`
- **column**: The column wherein the sparkline plot should replace existing data. Note that the data must be represented as a list of numeric values ahead of time.
- **type**: A string indicating the type of plot to generate, accepts "default", "points", "shaded", "ref_median", "ref_mean", "ref_iqr", "ref_last". "points" will add points to every observation instead of just the high/low and final. "shaded" will add shading below the sparkline. The "ref_" options add a thin reference line based off the summary statistic chosen.
- **fig_dim**: A vector of two numbers indicating the height/width of the plot in mm at a DPI of 25.4, defaults to c(5,30).
- **palette**: A character string with 5 elements indicating the colors of various components. Order matters, and palette = sparkline color, final value color, range color low, range color high, and 'type' color (eg shading or reference lines). To show a plot with no points (only the line itself), use: `palette = c("black", rep("transparent", 4))`.
- **same_limit**: A logical indicating that the plots will use the same axis range (TRUE) or have individual axis ranges (FALSE).
- **label**: A logical indicating whether the sparkline will have a numeric label at the end of the plot.

Value

An object of class `gt_tbl`.

Examples

```r
library(gt)
gt_sparkline_tab <- mtcars %>%
  dplyr::group_by(cyl) %>%
  # must end up with list of data for each row in the input dataframe
  dplyr::summarize(mpg_data = list(mpg), .groups = "drop") %>%
gt() %>%
gt_plt_sparkline(mpg_data)
```

Figures

Function ID

1-4
gt_plt_winloss

See Also

Other Plotting: `gt_plt_bar_pct()`, `gt_plt_bar_stack()`, `gt_plt_bar()`, `gt_plt_dist()`, `gt_plt_percentile()`, `gt_plt_point()`, `gt_plt_winloss()`

---

gt_plt_summary | Create a summary table from a dataframe

Description

Create a summary table from a dataframe with inline histograms or area bar charts. Inspired by the Observable team and the observablehq/SummaryTable function: https://observablehq.com/d/d8d2929832202050

Usage

```r
gt_plt_summary(df, title = NULL)
```

Arguments

- `df`: a dataframe or tibble
- `title`: a character string to be used in the table title

Value

a gt table

Examples

Create a summary table from a data.frame or tibble.

```r
gt_plt_summary(datasets::ChickWeight)
```

---

gt_plt_winloss | Add win loss point plot into rows of a gt table

Description

The `gt_plt_winloss` function takes an existing `gt_tbl` object and adds squares of a specific color and vertical position based on wins/losses. It is a wrapper around `gt::text_transform()`. The column chosen must be a list-column as seen in the example code. The column should also only contain values of 0 (loss), 0.5 (tie), and 1 (win).
Usage

```r
gt_plt_winloss(
  gt_object,
  column,
  max_wins = 17,
  palette = c("#013369", "#D50A0A", "gray"),
  type = "pill",
  width = max_wins/0.83
)
```

Arguments

- `gt_object`: An existing `gt` table object of class `gt_tbl`
- `column`: The column wherein the winloss plot should replace existing data. Note that the data must be represented as a list of numeric values ahead of time.
- `max_wins`: An integer indicating the max possible wins, this will be used to add padding if the total wins/losses observed is less than the max. This is useful for mid-season reporting. Defaults to a red, blue, grey palette.
- `palette`: A character vector of length 3, specifying the colors for win, loss, tie in that exact order.
- `type`: A character string representing the type of plot, either a 'pill' or 'square'
- `width`: A numeric indicating the width of the plot in mm, this can help with larger datasets where data points are overlapping.

Value

An object of class `gt_tbl`.

Examples

```r
#' library(gt)

set.seed(37)
data_in <- dplyr::tibble(
  grp = rep(c("A", "B", "C"), each = 10),
  wins = sample(c(0,1,.5), size = 30, prob = c(0.45, 0.45, 0.1), replace = TRUE)
)
  dplyr::group_by(grp) %>%
  dplyr::summarize(wins=list(wins), .groups = "drop")
data_in

win_table <- data_in %>%
gt() %>%
gt_plt_winloss(wins)
```
Function ID

3-1

See Also

Other Plotting: gt_plt_bar_pct(), gt_plt_bar_stack(), gt_plt_bar(), gt_plt_dist(), gt_plt_percentile(), gt_plt_point(), gt_plt_sparkline()

gt_theme_538  Apply FiveThirtyEight theme to a gt table

Description

Apply FiveThirtyEight theme to a gt table

Usage

gt_theme_538(gt_object, ...)

Arguments

- **gt_object**: An existing gt table object of class gt_tbl
- **...**: Optional additional arguments to gt::table_options()

Value

An object of class gt_tbl.

Examples

```r
library(gt)
themed_tab <- head(mtcars) %>%
  gt() %>%
  gt_theme_538()
```

Figures

Function ID

1-1

See Also

Other Themes: gt_plt_bullet(), gt_plt_conf_int(), gt_plt_dot(), gt_theme_dark(), gt_theme_dot_matrix(), gt_theme_espn(), gt_theme_excel(), gt_theme_guardian(), gt_theme_nytimes(), gt_theme_pff()
gt_theme_dark

Apply dark theme to a gt table

Description

Apply dark theme to a gt table

Usage

gt_theme_dark(gt_object, ...)

Arguments

gt_object An existing gt table object of class gt_tbl
...
Optional additional arguments to gt::table_options()

Value

An object of class gt_tbl.

Figures

Function ID

1-6

See Also

Other Themes: gt_plt_bullet(), gt_plt_conf_int(), gt_plt_dot(), gt_theme_538(), gt_theme_dot_matrix(),
gt_theme_espn(), gt_theme_excel(), gt_theme_guardian(), gt_theme_nytimes(), gt_theme_pff()

Examples

library(gt)
dark_tab <- head(mtcars) %>%
gt() %>%
gt_theme_dark() %>%
tab_header(title = "Dark mode table")
gt_theme_dot_matrix  

Apply dot matrix theme to a gt table

Description

Apply dot matrix theme to a gt table

Usage

gt_theme_dot_matrix(gt_object, ..., color = "#b5dbb6")

Arguments

- **gt_object**: An existing gt table object of class `gt_tbl`
- **...**: Additional arguments passed to `gt::tab_options()`
- **color**: A string indicating the color of the row striping, defaults to a light green. Accepts either named colors or hex colors.

Value

An object of class `gt_tbl`.

Examples

```r
library(gt)
themed_tab <- head(mtcars) %>%
  gt() %>%
  gt_theme_dot_matrix() %>%
  tab_header(title = "Styled like dot matrix printer paper")
```

Figures

See Also

Other Themes: `gt_plt_bullet()`, `gt_plt_conf_int()`, `gt_plt_dot()`, `gt_theme_538()`, `gt_theme_dark()`, `gt_theme_espn()`, `gt_theme_excel()`, `gt_theme_guardian()`, `gt_theme_nytimes()`, `gt_theme_pff()`
gt_theme_espn

Apply ESPN theme to a gt table

Description

Apply ESPN theme to a gt table

Usage

gt_theme_espn(gt_object, ...)

Arguments

gt_object: An existing gt table object of class gt_tbl
...
: Optional additional arguments to gt::table_options()

Value

An object of class gt_tbl.

Figures

Function ID

1-2

See Also

Other Themes: gt_plt_bullet(), gt_plt_conf_int(), gt_plt_dot(), gt_theme_538(), gt_theme_dark(),
gt_theme_dot_matrix(), gt_theme_excel(), gt_theme_guardian(), gt_theme_nytimes(), gt_theme_pff()

Examples

library(gt)

themed_tab <- head(mtcars) %>%
gt() %>%
gt_theme_espn()
gt_theme_excel

Apply Excel-style theme to an existing gt table

Description

Apply Excel-style theme to an existing gt table

Usage

\[
\text{gt\_theme\_excel}(\text{gt\_object}, \ldots, \text{color} = \text{"lightgrey"})
\]

Arguments

- \text{gt\_object}: An existing gt table object of class \text{gt\_tbl}
- \ldots: Additional arguments passed to \text{gt::tab\_options()}
- \text{color}: A string indicating the color of the row striping, defaults to a light gray. Accepts either named colors or hex colors.

Value

An object of class \text{gt\_tbl}.

Figures

Function ID

1-7

See Also

Other Themes: \text{gt\_plt\_bullet()}, \text{gt\_plt\_conf\_int()}, \text{gt\_plt\_dot()}, \text{gt\_theme\_538()}, \text{gt\_theme\_dark()}, \text{gt\_theme\_dot\_matrix()}, \text{gt\_theme\_espn()}, \text{gt\_theme\_guardian()}, \text{gt\_theme\_nytimes()}, \text{gt\_theme\_pff()}

Examples

\[
\begin{align*}
\text{library(gt)} \\
\text{themed\_tab} & \leftarrow \text{head(mtcars)} \%>\% \text{gt()} \%>\% \text{gt\_theme\_excel()} \%>\% \text{tab\_header(title = \text{"Styled like your old pal, Excel"})}
\end{align*}
\]
**gt_theme_guardian**

Apply Guardian theme to a `gt` table

---

**Description**

Apply Guardian theme to a `gt` table

**Usage**

`gt_theme_guardian(gt_object, ...)`

**Arguments**

- `gt_object` An existing `gt` table object of class `gt_tbl`
- `...` Optional additional arguments to `gt::table_options()`

**Value**

An object of class `gt_tbl`.

**Figures**

**Function ID**

1-4

**See Also**

Other Themes: `gt_plt_bullet()`, `gt_plt_conf_int()`, `gt_plt_dot()`, `gt_theme_538()`, `gt_theme_dark()`, `gt_theme_dot_matrix()`, `gt_theme_espn()`, `gt_theme_excel()`, `gt_theme_nytimes()`, `gt_theme_pff()`

**Examples**

```r
library(gt)
themed_tab <- head(mtcars) %>%
gt() %>%
  gt_theme_guardian()
```
gt_theme_nytimes

Apply NY Times theme to a gt table

Description

Apply NY Times theme to a gt table

Usage

gt_theme_nytimes(gt_object, ...)

Arguments

gt_object An existing gt table object of class gt_tbl

... Optional additional arguments to gt::table_options()

Value

An object of class gt_tbl.

Figures

Function ID

1-3

See Also

Other Themes: gt_plt_bullet(), gt_plt_conf_int(), gt_plt_dot(), gt_theme_538(), gt_theme_dark(),
gt_theme_dot_matrix(), gt_theme_espn(), gt_theme_excel(), gt_theme_guardian(), gt_theme_pff()

Examples

library(gt)
nyt_tab <- head(mtcars) %>%
gt() %>%
gt_theme_nytimes() %>%
tab_header(title = "Table styled like the NY Times")
gt_theme_pff

Apply a table theme like PFF

Description

Apply a table theme like PFF

Usage

```
gt_theme_pff(gt_object, ..., divider, spanners, rank_col)
```

Arguments

- **gt_object**: an existing `gt_tbl` object
- `...`: Additional arguments passed to `gt::tab_options()`
- **divider**: A column name to add a divider to the left of - accepts tidy-eval column names.
- **spanners**: Character string that indicates the names of specific spanners you have created with `gt::tab_spanner()`.
- **rank_col**: A column name to add a grey background to. Accepts tidy-eval column names.

Value

`gt_tbl`

Examples

```r
library(gt)
out_df <- tibble::tribble(~rank, ~player, ~jersey, ~team, ~g, ~pass, ~pr_snaps, ~rsh_pct, ~prp, ~prsh,
  1L, "Trey Hendrickson", "91", "CIN", 16, 495, 454, 91.7, 10.8, 83.9,
  2L, "T.J. Watt", "90", "PIT", 15, 461, 413, 89.6, 10.7, 90.6,
  3L, "Rashan Gary", "52", "GB", 16, 471, 463, 98.3, 10.4, 88.9,
  4L, "Maxx Crosby", "98", "LV", 17, 599, 597, 99.7, 10, 91.8,
  5L, "Matthew Judon", "89", "NE", 17, 510, 420, 82.4, 9.7, 73.2,
  6L, "Myles Garrett", "95", "CLV", 17, 554, 543, 98, 9.5, 92.7,
  7L, "Shaquil Barrett", "58", "TB", 15, 563, 485, 86.1, 9.3, 81.5,
  8L, "Nick Bosa", "97", "SF", 17, 529, 525, 99.2, 9.2, 89.8,
  9L, "Marcus Davenport", "92", "NO", 11, 302, 297, 98.3, 9.1, 82,
  10L, "Joey Bosa", "97", "LAC", 16, 495, 468, 94.5, 8.9, 90.3,
  11L, "Robert Quinn", "94", "CHI", 16, 445, 402, 90.3, 8.6, 79.7,
  12L, "Randy Gregory", "94", "DAL", 12, 315, 308, 97.8, 8.6, 84.4)
```

```r
class <- function()
  tab_spanner(columns = pass:rsh_pct, label = "snaps")
  tab_spanner(columns = prp:prsh, label = "grade")
```

gt_two_column_layout

Create a two-column layout from a list of two gt tables

description

This function takes a list() of two gt-tables and returns them as a two-column layout. The expectation is that the user either supplies two tables like list(table1, table2), or passes the output of gt_double_table() into this function. The user should indicate whether they want to return the HTML to R’s viewer with output = “viewer” to “view” the final output, or to save to disk as a .png via output = “save”. Note that this is a relatively complex wrapper around htmltools::div() + webshot2::webshot(). Additional arguments can be passed to webshot2::webshot() if the automatic output is not satisfactory. In most situations, modifying the vwidth argument is sufficient to get the desired output, but all arguments to webshot2::webshot() are available by their original name via the passed ....

Figures

See Also

Other Themes: gt_plt_bullet(), gt_plt_conf_int(), gt_plt_dot(), gt_theme_538(), gt_theme_dark(), gt_theme_dot_matrix(), gt_theme_espn(), gt_theme_excel(), gt_theme_guardian(), gt_theme_nytimes()
Usage

```r
gt_two_column_layout(
  tables = NULL,
  output = "viewer",
  filename = NULL,
  path = NULL,
  vwidth = 992,
  vheight = 600,
  ..., 
  zoom = 2,
  expand = 5
)
```

Arguments

- **tables** A list() of two tables, typically supplied by `gt_double_table()`
- **output** A character string indicating the desired output, either "save" to save it to disk via `webshot`, "viewer" to return it to the RStudio Viewer, or "html" to return the raw HTML.
- **filename** The filename of the table, must contain .png and only used if `output = "save"`
- **path** An optional path of where to save the printed .png, used in conjunction with `filename`.
- **vwidth** Viewport width. This is the width of the browser "window" when passed to `webshot2::webshot()`.
- **vheight** Viewport height. This is the height of the browser "window" when passed to `webshot2::webshot()`.
- **...** Additional arguments passed to `webshot2::webshot()`, only to be used if `output = "save"`, saving the two-column layout tables to disk as a .png.
- **zoom** Argument to `webshot2::webshot()`. A number specifying the zoom factor. A zoom factor of 2 will result in twice as many pixels vertically and horizontally. Note that using 2 is not exactly the same as taking a screenshot on a HiDPI (Retina) device: it is like increasing the zoom to 200 doubling the height and width of the browser window. This differs from using a HiDPI device because some web pages load different, higher-resolution images when they know they will be displayed on a HiDPI device (but using zoom will not report that there is a HiDPI device).
- **expand** Argument to `webshot2::webshot()`. A numeric vector specifying how many pixels to expand the clipping rectangle by. If one number, the rectangle will be expanded by that many pixels on all sides. If four numbers, they specify the top, right, bottom, and left, in that order. When taking screenshots of multiple URLs, this parameter can also be a list with same length as `url` with each element of the list containing a single number or four numbers to use for the corresponding URL.
Value
Saves a .png to disk if output = "save", returns HTML to the viewer via htmltools::browsable() when output = "viewer", or returns raw HTML if output = "html".

Examples
Add row numbers and drop some columns

library(gt)
my_cars <- mtcars %>%
dplyr::mutate(row_n = dplyr::row_number(), .before = mpg) %>%
dplyr::select(row_n, mpg:drat)

Create two tables, just split half/half

tab1 <- my_cars %>%
dplyr::slice(1:16) %>%
  gt() %>%
  gtExtras::gt_color_rows(columns = row_n, domain = 1:32)

tab2 <- my_cars %>%
dplyr::slice(17:32) %>%
  gt() %>%
  gtExtras::gt_color_rows(columns = row_n, domain = 1:32)

Put the tables in a list and then pass list to the gt_two_column_layout function.

listed_tables <- list(tab1, tab2)

A better option - write a small function, use gt_double_table() to generate the tables and then pass it to gt_double_table()

my_gt_fn <- function(x) {
  gt(x) %>%
    gtExtras::gt_color_rows(columns = row_n, domain = 1:32)
}

my_tables <- gt_double_table(my_cars, my_gt_fn, nrows = nrow(my_cars) / 2)

This will return it to the viewer

gt_two_column_layout(my_tables)

If you wanted to save it out instead, could use the code below

get_two_column_layout(my_tables, output = "save",
  filename = "basic-two-col.png",
  vwidth = 550, vheight = 620)
Add images as the column label for a table

Description

Add images as the column label for a table

Usage

```r
ing_header(
  label,
  img_url,
  height = 60,
  font_size = 12,
  palette = c("black", "black")
)
```

Arguments

- **label**: A string indicating the label of the column.
- **img_url**: A string for the image url.
- **height**: A number indicating the height of the image in pixels.
- **font_size**: The font size of the label in pixels.
- **palette**: A vector of two colors, indicating the bottom border color and the text color.

Value

HTML string
Examples

```r
library(gt)
dplyr::tibble(
  x = 1:5, y = 6:10
)

%%
gt() %>%
cols_label(
  x = img_header(
    "Luka Doncic",
    height = 60,
    font_size = 14
  )
)
```

Figures

See Also

Other Utilities: `add_text_img()`, `fa_icon_repeat()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `generate_df()`, `gt_add_divider()`, `gt_badge()`, `gt_double_table()`, `gt_duplicate_column()`, `gt_fa_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_fa_repeats()`, `gt_highlight_cols()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_img_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()`, `pad_fn()`, `tab_style_by_grp()`

---

**last_row_id**

Get last row id/index even by group

**Description**

Get last row id/index even by group

**Usage**

```r
last_row_id(gt_object)
```

**Arguments**

- `gt_object` An existing `gt` table object of class `gt_tbl`
**n_decimals**

*Count number of decimals*

**Description**

Count number of decimals

**Usage**

\[ n\_decimals(x) \]

**Arguments**

- **x** A value to count decimals from

**Value**

an integer

---

**pad_fn**

*Pad a vector of numbers to align on the decimal point.*

**Description**

This helper function adds whitespace to numeric values so that they can be aligned on the decimal without requiring additional trailing zeroes. This function is intended to use within the `gt::fmt()` function.

**Usage**

\[ pad\_fn(x, nsmall = 2, pad0) \]

**Arguments**

- **x** A vector of numbers to pad/align at the decimal point
- **nsmall** The max number of decimal places to round at/display
- **pad0** A logical, indicating whether to pad the values with trailing zeros.

**Value**

Returns a vector of equal length to the input vector

**Figures**
Function ID

2-3

See Also

Other Utilities: `add_text_img()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `generate_df()`, `gt_add_divider()`, `gt_badge()`, `gt_double_table()`, `gt_duplicate_column()`, `gt_fa_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_fa_repeats()`, `gt_highlight_cols()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_img_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()`, `img_header()`, `tab_style_by_grp()`

Examples

```r
library(gt)
padded_tab <- data.frame(x = c(1.2345, 12.345, 123.45, 1234.5, 12345)) %>%
  gt() %>%
  fmt(fns = function(x) {
    pad_fn(x, nsmall = 4)
  }) %>%
  tab_style(
    # MUST USE A MONO-SPACED FONT
    # https://fonts.google.com/?category=Monospace
    style = cell_text(font = google_font("Fira Mono")),
    locations = cells_body(columns = x)
  )
```

---

### plot_data

Create inline plots for a summary table

#### Description

Create inline plots for a summary table

#### Usage

```r
plot_data(col, col_name, ...)
```

#### Arguments

- `col` The column of data to be used for plotting
- `col_name` The name of the column - use for reporting warnings
- `...` Additional arguments passed to `scales::label_number()`

#### Value

SVG text encoded as HTML
tab_style_by_grp

Add table styling to specific rows by group

Description

The `tab_style_by_grp` function takes an existing `gt_tbl` object and styling according to each group. Currently it supports styling the `max()`/`min()` for each group.

Usage

```r
tab_style_by_grp(gt_object, column, fn, ...)
```

Arguments

- `gt_object`  
  An existing `gt` table object of class `gt_tbl`
- `column`  
  The column using tidy variable name or a number indicating which column should have the styling affect it.
- `fn`  
  The name of a summarizing function (ie `max()`, `min()`)
- `...`  
  Arguments passed to `tab_style(style = ...)`

Value

An object of class `gt_tbl`.

Examples

```r
library(gt)
df_in <- mtcars %>%
dplyr::select(cyl:hp, mpg) %>%
tibble::rownames_to_column() %>%
dplyr::group_by(cyl) %>%
dplyr::slice(1:4) %>%
dplyr::ungroup()

test_tab <- df_in %>%
gt(groupname_col = "cyl") %>%
tab_style_by_grp(mpg, fn = max, cell_fill(color = "red", alpha = 0.5))
```

Figures

Function ID

2-12
See Also

Other Utilities: `add_text_img()`, `fa_icon_repeat()`, `fmt_pad_num()`, `fmt_pct_extra()`, `fmt_symbol_first()`, `generate_df()`, `gt_add_divider()`, `gt_badge()`, `gt_double_table()`, `gt_duplicate_column()`, `gt_fa_column()`, `gt_fa_rank_change()`, `gt_fa_rating()`, `gt_fa_repeats()`, `gt_highlight_cols()`, `gt_highlight_rows()`, `gt_img_border()`, `gt_img_circle()`, `gt_img_multi_rows()`, `gt_img_rows()`, `gt_index()`, `gt_merge_stack_color()`, `gt_merge_stack()`, `gt_two_column_layout()`, `gtsave_extra()`, `img_header()`, `pad_fn()`

---

**with_tooltip**

A helper to add basic tooltip inside a gt table

---

**Description**

This is a lightweight helper to add tooltip, typically to be used within `gt::cols_label()`.

**Usage**

```r
with_tooltip(label, tooltip)
```

**Arguments**

- **label**: The label for the item with a tooltip
- **tooltip**: The text based tooltip for the item

**Value**

HTML text
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