

Package ‘crane’

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Title Supplements the 'gtsummary' Package for Pharmaceutical Reporting

Version 0.1.0

Description Tables summarizing clinical trial results are often complex and require detailed tailoring prior to submission to a health authority. The 'crane' package supplements the functionality of the 'gtsummary' package for creating these often highly bespoke tables in the pharmaceutical industry.

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URL <https://github.com/insightsengineering/crane>,
<https://insightsengineering.github.io/crane/>

BugReports <https://github.com/insightsengineering/crane/issues>

Depends R (>= 4.2)

Imports cli (>= 3.6.4), dplyr (>= 1.1.4), flextable (>= 0.9.7), gt (>= 0.11.1), gtsummary (>= 2.1.0), rlang (>= 1.1.5)

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add_blank_row	<i>Add Blank Row</i>
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Description

Add a blank row below each variable group. A blank row will not be added to the bottom of the table.

NOTE: For HTML flextable output (which includes the RStudio IDE Viewer), the blank rows do not render. But they will appear when the table is rendered to Word.

Usage

```
add_blank_row(x)
```

Arguments

x (gtsummary)
a 'gtsummary' table. The table must include a column named 'variable' in x\$table_body.

Value

updated 'gtsummary' table

Examples

```
gtsummary::trial |>  
  tbl_demographics(  
    by = trt,  
    include = c(age, marker, grade)  
  ) |>  
  add_blank_row()
```

roche_pvalue	<i>Round p-values</i>
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Description

Round p-values

Usage

```
roche_pvalue(
  x,
  big.mark = ifelse(decimal.mark == ",", " ", ","),
  decimal.mark = getOption("OutDec"),
  ...
)

label_roche_pvalue(
  big.mark = ifelse(decimal.mark == ",", " ", ","),
  decimal.mark = getOption("OutDec"),
  ...
)
```

Arguments

x	(numeric) Numeric vector of p-values.
big.mark	(string) Character used between every 3 digits to separate hundreds/thousands/millions/etc. Default is " ", except when decimal.mark = "," when the default is a space.
decimal.mark	(string) The character to be used to indicate the numeric decimal point. Default is "." or getOption("OutDec")
...	Arguments passed on to <code>base::format()</code>

Value

A character vector of rounded p-values

Examples

```
x <- c(0.0000001, 0.123456)

roche_pvalue(x)
label_roche_pvalue()(x)
```

tbl_demographics *Demographics Table*

Description

This is a thin wrapper of `gtsummary::tbl_summary()` with the following differences:

- Default summary type for continuous variables is 'continuous2'.
- Number of non-missing observations is added for each variable by default and placed on the row under the header.
- The `tbl_summary(missing*)` arguments have been renamed to `tbl_demographics(nonmissing*)` with updated default values.
- The default footnotes from `tbl_summary()` are removed.

Usage

```
tbl_demographics(
  data,
  by = NULL,
  label = NULL,
  statistic = list(all_continuous() ~ c("{mean} ({sd})", "{median}", "{min} - {max}"),
    all_categorical() ~ "{n} ({p}%)",
  digits = NULL,
  type = NULL,
  value = NULL,
  nonmissing = c("always", "ifany", "no"),
  nonmissing_text = "n",
  nonmissing_stat = "{N_nonmiss}",
  sort = all_categorical(FALSE) ~ "alphanumeric",
  percent = c("column", "row", "cell"),
  include = everything()
)
```

Arguments

data	(data.frame) A data frame.
by	(tidy-select) A single column from data. Summary statistics will be stratified by this variable. Default is NULL.
label	(formula-list-selector) Used to override default labels in summary table, e.g. <code>list(age = "Age, years")</code> . The default for each variable is the column label attribute, <code>attr(, 'label')</code> . If no label has been set, the column name is used.

statistic	(formula-list-selector) Specifies summary statistics to display for each variable. The default is <code>list(all_continuous() ~ "{median} ({p25}, {p75})", all_categorical() ~ "{n} ({p}%)")</code> . See below for details.
digits	(formula-list-selector) Specifies how summary statistics are rounded. Values may be either integer(s) or function(s). If not specified, default formatting is assigned via <code>assign_summary_digits()</code> . See below for details.
type	(formula-list-selector) Specifies the summary type. Accepted value are <code>c("continuous", "continuous2", "categorical", "dichotomous")</code> . If not specified, default type is assigned via <code>assign_summary_type()</code> . See below for details.
value	(formula-list-selector) Specifies the level of a variable to display on a single row. The <code>gtsummary</code> type selectors, e.g. <code>all_dichotomous()</code> , cannot be used with this argument. Default is <code>NULL</code> . See below for details.
nonmissing, nonmissing_text, nonmissing_stat	Arguments dictating how and if missing values are presented: • <code>nonmissing</code>: must be one of <code>c("always", "ifany", "no")</code> • <code>nonmissing_text</code>: string indicating text shown on non-missing row. Default is <code>"n"</code> • <code>nonmissing_stat</code>: statistic to show on non-missing row. Default is <code>"{N_nonmiss}"</code>. Possible values are <code>N_nonmiss</code>, <code>N_miss</code>, <code>N_obs</code>, <code>p_nonmiss</code>, <code>p_miss</code>.
sort	(formula-list-selector) Specifies sorting to perform for categorical variables. Values must be one of <code>c("alphanumeric", "frequency")</code> . Default is <code>all_categorical(FALSE) ~ "alphanumeric"</code> .
percent	(string) Indicates the type of percentage to return. Must be one of <code>c("column", "row", "cell")</code> . Default is <code>"column"</code> .
include	(tidy-select) Variables to include in the summary table. Default is <code>everything()</code> .

Value

a 'gtsummary' table

Examples

```
# Example 1 -----
gtsummary::trial |>
  tbl_demographics(
    by = trt,
    include = c(age, grade)
  )
```

theme_gtsummary_roche *Roche Theme*

Description

A gtsummary theme for Roche tables

- Calls the `gtsummary::theme_gtsummary_compact()` theme.
- Uses `label_roche_pvalue()` as the default formatting function for all p-values.
- Defaults to a mono-spaced font for gt tables.

Usage

```
theme_gtsummary_roche(set_theme = TRUE, font_size = NULL)
```

Arguments

set_theme	(scalar logical) Logical indicating whether to set the theme. Default is TRUE. When FALSE the named list of theme elements is returned invisibly
font_size	(scalar numeric) Numeric font size for compact theme. Default is 13 for gt tables, and 8 for all other output types

Value

theme list

Examples

```
theme_gtsummary_roche()
```

```
tbl_demographics(gtsummary::trial, by = trt, include = c(age, grade))
```

```
gtsummary::reset_gtsummary_theme()
```

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