# 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.

**License** Apache License 2.0

**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)

**Suggests** testthat (>= 3.0.0)

**Config/Needs/check** hms

**Config/Needs/website** rmarkdown, yaml, insightsengineering/nesttemplate

**Config/testthat/edition** 3

**Config/testthat/parallel** true

**Encoding** UTF-8

**Language** en-US

**RoxygenNote** 7.3.2

**NeedsCompilation** no

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**Repository** CRAN

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add_blank_row                    *Add Blank Row*

---

### 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()
```

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roche_pvalue *Round p-values*

---

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

### Value

A character vector of rounded p-values

### Examples

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

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

---

### Description

This is a thin wrapper of [gtsummary::tbl_summary()](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)<br>A data frame. |
| `by` | ([tidy-select](tidy-select))<br>A single column from `data`. Summary statistics will be stratified by this variable. Default is `NULL`. |
| `label` | ([formula-list-selector](formula-list-selector))<br>Used to override default labels in summary table, e.g. `list(age = "Age, years")`. The default for each variable is the column label attribute, `attr(., 'label')`. If no label has been set, the column name is used. |

statistic        ([formula-list-selector](formula-list-selector))
                 Specifies summary statistics to display for each variable. The default is list(all_continuous()
                 ~ "{median} ({p25}, {p75})", all_categorical() ~ "{n} ({p}%)"). See
                 below for details.

digits           ([formula-list-selector](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 assign_summary_digits().
                 See below for details.

type             ([formula-list-selector](formula-list-selector))
                 Specifies the summary type. Accepted value are c("continuous", "continuous2",
                 "categorical", "dichotomous"). If not specified, default type is assigned via
                 assign_summary_type(). See below for details.

value            ([formula-list-selector](formula-list-selector))
                 Specifies the level of a variable to display on a single row. The gtsummary type
                 selectors, e.g. all_dichotomous(), cannot be used with this argument. Default
                 is NULL. See below for details.

nonmissing, nonmissing_text, nonmissing_stat
                 Arguments dictating how and if missing values are presented:

                 • nonmissing: must be one of c("always", "ifany", "no")
                 • nonmissing_text: string indicating text shown on non-missing row. De-
                   fault is "n"
                 • nonmissing_stat: statistic to show on non-missing row. Default is "{N_nonmiss}".
                   Possible values are N_nonmiss, N_miss, N_obs,, p_nonmiss p_miss.

sort             ([formula-list-selector](formula-list-selector))
                 Specifies sorting to perform for categorical variables. Values must be one of
                 c("alphanumeric", "frequency"). Default is all_categorical(FALSE) ~
                 "alphanumeric".

percent          (string)
                 Indicates the type of percentage to return. Must be one of c("column", "row",
                 "cell"). Default is "column".

include          ([tidy-select](tidy-select))
                 Variables to include in the summary table. Default is everything().

## Value

a 'gtsummary' table

## Examples

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

theme_gtsummary_roche    *Roche Theme*

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### Description

A gtsummary theme for Roche tables

- Calls the [gtsummary::theme_gtsummary_compact()](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`)<br>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`)<br>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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