

Package ‘guideR’

July 22, 2025

Type Package

Title Miscellaneous Statistical Functions Used in 'guide-R'

Version 0.4.0

Description Companion package for the manual
'guide-R : Guide pour l'analyse de données d'enquêtes avec R' available at
<<https://larmarange.github.io/guide-R/>>. 'guideR' implements miscellaneous
functions introduced in 'guide-R' to facilitate statistical analysis and
manipulation of survey data.

License GPL (>= 3)

URL <https://larmarange.github.io/guideR/>,
<https://github.com/larmarange/guideR>

BugReports <https://github.com/larmarange/guideR/issues>

Depends R (>= 4.2)

Imports cli, dplyr, forcats, ggplot2, labelled, lifecycle, pak,
patchwork, purrr, renv, rlang, scales, srvyr, stats, stringr,
tidyr, tidyselect, utils

Encoding UTF-8

RoxygenNote 7.3.2

Suggests broom.helpers, cardx, FactoMineR, gt, gtsummary, nnet,
parameters, spelling, survey, survival, testthat (>= 3.0.0)

Config/testthat/edition 3

Language en-US

NeedsCompilation no

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Repository CRAN

Date/Publication 2025-04-22 12:00:02 UTC

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cut_quartiles	<i>Cut a continuous variable in quartiles</i>
---------------	---

Description

Convenient function to quickly cut a numeric vector into quartiles, i.e. by applying `cut(x, breaks = fivenum(x))`. Variable label is preserved by `cut_quartiles()`.

Usage

```
cut_quartiles(x, include.lowest = TRUE, ...)
```

Arguments

- `x` a numeric vector which is to be converted to a factor by cutting.
- `include.lowest` logical, indicating if an 'x[i]' equal to the lowest (or highest, for `right = FALSE`) 'breaks' value should be included.
- `...` further arguments passed to `base::cut()`.

Examples

```
mtcars$mpg |> cut_quartiles() |> summary()
```

grouped_tbl_pivot_wider

Helpers for grouped tables generated with gtsummary

Description

A series of helpers for grouped tables generated by `tbl_regression()` in case of multinomial models, multi-components models or other grouped results. `grouped_tbl_pivot_wider()` allows to display results in a wide format, with one set of columns per group. `multinom_add_global_p_pivot_wider()` is a specific case for multinomial models, when displaying global p-values in a wide format: it calls `gtsummary::add_global_p()`, followed by `grouped_tbl_pivot_wider()`, and then keep only the last column with p-values (see examples). Finally, as grouped regression tables doesn't have exactly the same structure as ungrouped tables, functions as `gtsummary::bold_labels()` do not always work properly. If the grouped table is kept in a long format, `style_grouped_tbl()` could be use to improve the output by styling variable labels, levels and/or group names. **TO BE NOTED:** to style group names, `style_grouped_tbl()` convert the table into a gt object with `gtsummary::as_gt()`. This function should therefore be used last. If the table is intended to be exported to another format, do not use `style_grouped_tbl()`.

Usage

```
grouped_tbl_pivot_wider(x)

multinom_add_global_p_pivot_wider(
  x,
  ...,
  p_value_header = "**Likelihood-ratio test**"
)

style_grouped_tbl(
  x,
  bold_groups = TRUE,
  uppercase_groups = TRUE,
  bold_labels = FALSE,
  italicize_labels = TRUE,
  indent_labels = 4L,
  bold_levels = FALSE,
  italicize_levels = FALSE,
  indent_levels = 8L
)
```

Arguments

<code>x</code>	A grouped regression table generated with <code>gtsummary::tbl_regression()</code> .
<code>...</code>	Additional arguments passed to <code>gtsummary::add_global_p()</code> .
<code>p_value_header</code>	Header for the p-value column.

```

bold_groups      Bold group group names?
uppercase_groups      Convert group names to upper case?

bold_labels      Bold variable labels?
italicize_labels      Italicize variable labels?

indent_labels    Number of spaces to indent variable labels.

bold_levels      Bold levels?
italicize_levels      Italicize levels?

indent_levels    Number of spaces to indent levels.

```

Value

A gtsummary or a gt table.

Examples

```

mod <- nnet::multinom(
  grade ~ stage + marker + age,
  data = gtsummary::trial,
  trace = FALSE
)
tbl <- mod |> gtsummary::tbl_regression(exponentiate = TRUE)
tbl
tbl |> grouped_tbl_pivot_wider()

tbl |> multinom_add_global_p_pivot_wider() |> gtsummary::bold_labels()
tbl |> style_grouped_tbl()

```

install_dependencies *Install / Update project dependencies*

Description

This function uses `renv::dependencies()` to identify R package dependencies in a project and then calls `pak::pkg_install()` to install / update these packages. If some packages are not found, the function will install those available and returns a message indicated packages not installed/updated.

Usage

```
install_dependencies(ask = TRUE)
```

Arguments

ask Whether to ask for confirmation when installing a different version of a package that is already installed. Installations that only add new packages never require confirmation.

Value

(Invisibly) A data frame with information about the installed package(s).

Examples

```
## Not run:
install_dependencies()

## End(Not run)
```

is_different

Comparison tests considering NA as values to be compared

Description

is_different() and is_equal() performs comparison tests, considering NA values as legitimate values (see examples).

Usage

```
is_different(x, y)

is_equal(x, y)

cumdifferent(x)

num_cycle(x)
```

Arguments

x, y Vectors to be compared.

Details

cum_different() allows to identify groups of continuous rows that have the same value. num_cycle() could be used to identify sub-groups that respect a certain condition (see examples).

is_equal(x, y) is equivalent to $(x == y \ \& \ !\text{is.na}(x) \ \& \ !\text{is.na}(y)) \mid (\text{is.na}(x) \ \& \ \text{is.na}(y))$, and is_different(x, y) is equivalent to $(x != y \ \& \ !\text{is.na}(x) \ \& \ !\text{is.na}(y)) \mid \text{xor}(\text{is.na}(x), \text{is.na}(y))$.

Value

A vector of the same length as x.

Examples

```
v <- c("a", "b", NA)
is_different(v, "a")
is_different(v, NA)
is_equal(v, "a")
is_equal(v, NA)
d <- dplyr::tibble(group = c("a", "a", "b", "b", "a", "b", "c", "a"))
d |>
  dplyr::mutate(
    subgroup = cumdifferent(group),
    sub_a = num_cycle(group == "a")
  )
```

leading_zeros	<i>Add leading zeros</i>
---------------	--------------------------

Description

Add leading zeros

Usage

```
leading_zeros(x, left_digits = NULL, digits = 0, prefix = "", suffix = "", ...)
```

Arguments

- x a numeric vector
- left_digits number of digits before decimal point, automatically computed if not provided
- digits number of digits after decimal point
- prefix, suffix Symbols to display before and after value
- ... additional parameters passed to `base::formatC()`, as `big.mark` or `decimal.mark`

Value

A character vector of the same length as x.

See Also

```
base::formatC(), base::sprintf()
```

Examples

```
v <- c(2, 103.24, 1042.147, 12.4566, NA)
leading_zeros(v)
leading_zeros(v, digits = 1)
leading_zeros(v, left_digits = 6, big.mark = " ")
leading_zeros(c(0, 6, 12, 18), prefix = "M")
```

long_to_periods	<i>Transform a data frame from long format to period format</i>
-----------------	---

Description

Transform a data frame from long format to period format

Usage

```
long_to_periods(data, id, start, stop = NULL, by = NULL)
```

Arguments

data	A data frame, or a data frame extension (e.g. a tibble).
id	<tidy-select> Column containing individual ids
start	<tidy-select> Time variable indicating the beginning of each row
stop	<tidy-select> Optional time variable indicating the end of each row. If not provided, it will be derived from the dataset, considering that each row ends at the beginning of the next one.
by	<tidy-select> Co-variables to consider (optional)

Value

A tibble.

See Also

[periods_to_long\(\)](#)

Examples

```
d <- dplyr::tibble(
  patient = c(1, 2, 3, 3, 4, 4, 4),
  begin = c(0, 0, 0, 1, 0, 36, 39),
  end = c(50, 6, 1, 16, 36, 39, 45),
  covar = c("no", "no", "no", "yes", "no", "yes", "yes")
)
d

d |> long_to_periods(id = patient, start = begin, stop = end)
```

```
d |> long_to_periods(id = patient, start = begin, stop = end, by = covar)

# If stop not provided, it is deduced.
# However, it considers that observation ends at the last start time.
d |> long_to_periods(id = patient, start = begin)
```

`observed_vs_theoretical`*Plot observed vs predicted distribution of a fitted model*

Description

Plot observed vs predicted distribution of a fitted model

Usage

```
observed_vs_theoretical(model)
```

Arguments

`model` A statistical model.

Details

Has been tested with `stats::lm()` and `stats::glm()` models. It may work with other types of models, but without any warranty.

Value

A ggplot2 plot.

Examples

```
# a linear model
mod <- lm(Sepal.Length ~ Sepal.Width + Species, data = iris)
mod |> observed_vs_theoretical()

# a logistic regression
mod <- glm(
  as.factor(Survived) ~ Class + Sex,
  data = titanic,
  family = binomial()
)
mod |> observed_vs_theoretical()
```

periods_to_long	<i>Transform a data frame from period format to long format</i>
-----------------	---

Description

Transform a data frame from period format to long format

Usage

```
periods_to_long(
  data,
  start,
  stop,
  time_step = 1,
  time_name = "time",
  keep = FALSE
)
```

Arguments

data	A data frame, or a data frame extension (e.g. a tibble).
start	<tidy-select> Time variable indicating the beginning of each row
stop	<tidy-select> Optional time variable indicating the end of each row. If not provided, it will be derived from the dataset, considering that each row ends at the beginning of the next one.
time_step	(numeric) Desired value for the time variable.
time_name	(character) Name of the time variable.
keep	(logical) Should start and stop variable be kept in the results?

Value

A tibble.

See Also

[long_to_periods\(\)](#)

Examples

```
d <- dplyr::tibble(
  patient = c(1, 2, 3, 3),
  begin = c(0, 2, 0, 3),
  end = c(6, 4, 2, 8),
  covar = c("no", "yes", "no", "yes")
)
d
```

```
d |> periods_to_long(start = begin, stop = end)
d |> periods_to_long(start = begin, stop = end, time_step = 5)
```

```
plot_inertia_from_tree
```

Plot inertia, absolute loss and relative loss from a classification tree

Description

Plot inertia, absolute loss and relative loss from a classification tree

Usage

```
plot_inertia_from_tree(tree, k_max = 15)

get_inertia_from_tree(tree, k_max = 15)
```

Arguments

tree	A dendrogram, i.e. an stats::hclust object, an FactoMineR::HCPC object or an object that can be converted to an stats::hclust object with stats::as.hclust() .
k_max	Maximum number of clusters to return / plot.

Value

A ggplot2 plot or a tibble.

Examples

```
hc <- hclust(dist(USArrests))
get_inertia_from_tree(hc)
plot_inertia_from_tree(hc)
```

```
plot_proportions
```

Plot proportions by sub-groups

Description

Plot one or several proportions (defined by logical conditions) by sub-groups. See [proportion\(\)](#) for more details on the way proportions and confidence intervals are computed. By default, return a bar plot, but other geometries could be used (see examples). [stratified_by\(\)](#) is an helper function facilitating a stratified analyses (i.e. proportions by groups stratified according to a third variable, see examples). [dummy_proportions\(\)](#) is an helper to easily convert a categorical variable into dummy variables and therefore showing the proportion of each level of the original variable (see examples).

Usage

```

plot_proportions(
  data,
  condition,
  by = NULL,
  drop_na_by = FALSE,
  convert_continuous = TRUE,
  geom = "bar",
  ...,
  show_overall = TRUE,
  overall_label = "Overall",
  show_ci = TRUE,
  conf_level = 0.95,
  ci_color = "black",
  show_pvalues = TRUE,
  pvalues_test = c("fisher", "chisq"),
  pvalues_labeller = scales::label_pvalue(add_p = TRUE),
  pvalues_size = 3.5,
  show_labels = TRUE,
  labels_labeller = scales::label_percent(1),
  labels_size = 3.5,
  labels_color = "black",
  show_overall_line = FALSE,
  overall_line_type = "dashed",
  overall_line_color = "black",
  overall_line_width = 0.5,
  facet_labeller = ggplot2::label_wrap_gen(width = 50, multi_line = TRUE),
  flip = FALSE,
  free_scale = FALSE,
  return_data = FALSE
)

stratified_by(condition, strata)

dummy_proportions(variable)

```

Arguments

data	A data frame, data frame extension (e.g. a tibble), or a survey design object.
condition	<data-masking> A condition defining a proportion, or a <code>dplyr::tibble()</code> defining several proportions (see examples).
by	<tidy-select> List of variables to group by (comparison is done separately for each variable).
drop_na_by	Remove NA values in by variables?
convert_continuous	Should continuous variables (with 5 unique values or more) be converted to quartiles (using <code>cut_quartiles()</code>)?

geom	Geometry to use for plotting proportions ("bar" by default).
...	Additional arguments passed to the geom defined by geom.
show_overall	Display "Overall" column?
overall_label	Label for the overall column.
show_ci	Display confidence intervals?
conf_level	Confidence level for the confidence intervals.
ci_color	Color of the error bars representing confidence intervals.
show_pvalues	Display p-values in the top-left corner?
pvalues_test	Test to compute p-values for data frames: "fisher" for <code>stats::fisher.test()</code> (with <code>simulate.p.value = TRUE</code>) or "chisq" for <code>stats::chisq.test()</code> . Has no effect on survey objects for those <code>survey::svychisq()</code> is used.
pvalues_labeller	Labeller function for p-values.
pvalues_size	Text size for p-values.
show_labels	Display proportion labels?
labels_labeller	Labeller function for proportion labels.
labels_size	Size of proportion labels.
labels_color	Color of proportion labels.
show_overall_line	Add an overall line?
overall_line_type	Line type of the overall line.
overall_line_color	Color of the overall line.
overall_line_width	Line width of the overall line.
facet_labeller	Labeller function for strip labels.
flip	Flip x and y axis?
free_scale	Allow y axis to vary between conditions?
return_data	Return data used instead of the plot?
strata	Stratification variable
variable	Variable to be converted into dummy variables.

Examples

```
titanic |>
  plot_proportions(
    Survived == "Yes",
    overall_label = "All",
    labels_color = "white"
  )
```

```
titanic |>
  plot_proportions(
    Survived == "Yes",
    by = c(Class, Sex),
    fill = "lightblue"
  )
```

```
titanic |>
  plot_proportions(
    Survived == "Yes",
    by = c(Class, Sex),
    fill = "lightblue",
    flip = TRUE
  )
```

```
titanic |>
  plot_proportions(
    Survived == "Yes",
    by = c(Class, Sex),
    geom = "point",
    color = "red",
    size = 3,
    show_labels = FALSE
  )
```

```
titanic |>
  plot_proportions(
    Survived == "Yes",
    by = c(Class, Sex),
    geom = "area",
    fill = "lightgreen",
    show_overall = FALSE
  )
```

```
titanic |>
  plot_proportions(
    Survived == "Yes",
    by = c(Class, Sex),
    geom = "line",
    color = "purple",
    ci_color = "darkblue",
    show_overall = FALSE
  )
```

```
titanic |>
  plot_proportions(
    Survived == "Yes",
    by = -Survived,
    mapping = ggplot2::aes(fill = variable),
    color = "black",
    show.legend = FALSE,
```

```

    show_overall_line = TRUE,
    show_pvalues = FALSE
  )

# defining several proportions

titanic |>
  plot_proportions(
    dplyr::tibble(
      Survived = Survived == "Yes",
      Male = Sex == "Male"
    ),
    by = c(Class),
    mapping = ggplot2::aes(fill = condition)
  )

titanic |>
  plot_proportions(
    dplyr::tibble(
      Survived = Survived == "Yes",
      Male = Sex == "Male"
    ),
    by = c(Class),
    mapping = ggplot2::aes(fill = condition),
    free_scale = TRUE
  )

iris |>
  plot_proportions(
    dplyr::tibble(
      "Long sepal" = Sepal.Length > 6,
      "Short petal" = Petal.Width < 1
    ),
    by = Species,
    fill = "palegreen"
  )

iris |>
  plot_proportions(
    dplyr::tibble(
      "Long sepal" = Sepal.Length > 6,
      "Short petal" = Petal.Width < 1
    ),
    by = Species,
    fill = "palegreen",
    flip = TRUE
  )

# works with continuous by variables
iris |>
  labelled::set_variable_labels(
    Sepal.Length = "Length of the sepal"
  ) |>

```

```
plot_proportions(  
  Species == "versicolor",  
  by = dplyr::contains("leng"),  
  fill = "plum",  
  colour = "plum4"  
)  
  
# works with survey object  
titanic |>  
  srvyr::as_survey() |>  
  plot_proportions(  
    Survived == "Yes",  
    by = c(Class, Sex),  
    fill = "darksalmon",  
    color = "black",  
    show_overall_line = TRUE,  
    labels_labeller = scales::label_percent(.1)  
  )  
  
# stratified analysis  
titanic |>  
  plot_proportions(  
    (Survived == "Yes") |> stratified_by(Sex),  
    by = Class,  
    mapping = ggplot2::aes(fill = condition)  
  ) +  
  ggplot2::theme(legend.position = "bottom") +  
  ggplot2::labs(fill = NULL)  
  
# Convert Class into dummy variables  
titanic |>  
  plot_proportions(  
    dummy_proportions(Class),  
    by = Sex,  
    mapping = ggplot2::aes(fill = level)  
  )
```

proportion

Compute proportions

Description

`proportion()` lets you quickly count observations (like `dplyr::count()`) and compute relative proportions. Proportions are computed separately by group (see examples).

Usage

```
proportion(data, ...)
```

```
## S3 method for class 'data.frame'
proportion(
  data,
  ...,
  .by = NULL,
  .na.rm = FALSE,
  .weight = NULL,
  .scale = 100,
  .sort = FALSE,
  .drop = FALSE,
  .drop_na_by = FALSE,
  .conf.int = FALSE,
  .conf.level = 0.95,
  .options = list(correct = TRUE)
)

## S3 method for class 'survey.design'
proportion(
  data,
  ...,
  .by = NULL,
  .na.rm = FALSE,
  .scale = 100,
  .sort = FALSE,
  .drop_na_by = FALSE,
  .conf.int = FALSE,
  .conf.level = 0.95,
  .options = NULL
)

## Default S3 method:
proportion(
  data,
  ...,
  .na.rm = FALSE,
  .scale = 100,
  .sort = FALSE,
  .drop = FALSE,
  .conf.int = FALSE,
  .conf.level = 0.95,
  .options = list(correct = TRUE)
)
```

Arguments

<code>data</code>	A vector, a data frame, data frame extension (e.g. a tibble), or a survey design object.
<code>...</code>	<data-masking> Variable(s) for those computing proportions.

<code>.by</code>	<tidy-select> Optional additional variables to group by (in addition to those eventually previously declared using <code>dplyr::group_by()</code>).
<code>.na.rm</code>	Should NA values be removed (from variables declared in ...)?
<code>.weight</code>	<data-masking> Frequency weights. Can be NULL or a variable.
<code>.scale</code>	A scaling factor applied to proportion. Use 1 for keeping proportions unchanged.
<code>.sort</code>	If TRUE, will show the highest proportions at the top.
<code>.drop</code>	If TRUE, will remove empty groups from the output.
<code>.drop_na_by</code>	If TRUE, will remove any NA values observed in the <code>.by</code> variables (or variables defined with <code>dplyr::group_by()</code>).
<code>.conf.int</code>	If TRUE, will estimate confidence intervals.
<code>.conf.level</code>	Confidence level for the returned confidence intervals.
<code>.options</code>	Additional arguments passed to <code>stats::prop.test()</code> or <code>srvyr::survey_prop()</code> .

Value

A tibble.

A tibble with one row per group.

Examples

```
# using a vector
titanic$Class |> proportion()

# univariable table
titanic |> proportion(Class)
titanic |> proportion(Class, .sort = TRUE)
titanic |> proportion(Class, .conf.int = TRUE)
titanic |> proportion(Class, .conf.int = TRUE, .scale = 1)

# bivariable table
titanic |> proportion(Class, Survived) # proportions of the total
titanic |> proportion(Survived, .by = Class) # row proportions
titanic |> # equivalent syntax
  dplyr::group_by(Class) |>
  proportion(Survived)

# combining 3 variables or more
titanic |> proportion(Class, Sex, Survived)
titanic |> proportion(Sex, Survived, .by = Class)
titanic |> proportion(Survived, .by = c(Class, Sex))

# missing values
dna <- titanic
dna$Survived[c(1:20, 500:530)] <- NA
dna |> proportion(Survived)
dna |> proportion(Survived, .na.rm = TRUE)
```

```
## SURVEY DATA -----

ds <- srvyr::as_survey(titanic)

# univariable table
ds |> proportion(Class)
ds |> proportion(Class, .sort = TRUE)
ds |> proportion(Class, .conf.int = TRUE)
ds |> proportion(Class, .conf.int = TRUE, .scale = 1)

# bivariable table
ds |> proportion(Class, Survived) # proportions of the total
ds |> proportion(Survived, .by = Class) # row proportions
ds |> dplyr::group_by(Class) |> proportion(Survived)

# combining 3 variables or more
ds |> proportion(Class, Sex, Survived)
ds |> proportion(Sex, Survived, .by = Class)
ds |> proportion(Survived, .by = c(Class, Sex))

# missing values
dsna <- srvyr::as_survey(dna)
dsna |> proportion(Survived)
dsna |> proportion(Survived, .na.rm = TRUE)
```

round_preserve_sum	<i>Round values while preserve their rounded sum in R</i>
--------------------	---

Description

Sometimes, the sum of rounded numbers (e.g., using `base::round()`) is not the same as their rounded sum.

Usage

```
round_preserve_sum(x, digits = 0)
```

Arguments

<code>x</code>	Numerical vector to sum.
<code>digits</code>	Number of decimals for rounding.

Details

This solution applies the following algorithm

- Round down to the specified number of decimal places
- Order numbers by their remainder values
- Increment the specified decimal place of values with k largest remainders, where k is the number of values that must be incremented to preserve their rounded sum

Value

A numerical vector of same length as `x`.

Source

<https://biostatmatt.com/archives/2902>

Examples

```
sum(c(0.333, 0.333, 0.334))
round(c(0.333, 0.333, 0.334), 2)
sum(round(c(0.333, 0.333, 0.334), 2))
round_preserve_sum(c(0.333, 0.333, 0.334), 2)
sum(round_preserve_sum(c(0.333, 0.333, 0.334), 2))
```

step_with_na	<i>Apply step(), taking into account missing values</i>
--------------	---

Description

When your data contains missing values, concerned observations are removed from a model. However, then at a later stage, you try to apply a descending stepwise approach to reduce your model by minimization of AIC, you may encounter an error because the number of rows has changed.

Usage

```
step_with_na(model, ...)

## Default S3 method:
step_with_na(model, ..., full_data = eval(model$call$data))

## S3 method for class 'svyglm'
step_with_na(model, ..., design)
```

Arguments

<code>model</code>	A model object.
<code>...</code>	Additional parameters passed to <code>stats::step()</code> .
<code>full_data</code>	Full data frame used for the model, including missing data.
<code>design</code>	Survey design previously passed to <code>survey::svyglm()</code> .

Details

step_with_na() applies the following strategy:

- recomputes the models using only complete cases;
- applies `stats::step()`;
- recomputes the reduced model using the full original dataset.

step_with_na() has been tested with `stats::lm()`, `stats::glm()`, `nnet::multinom()`, `survey::svyglm()` and `survival::coxph()`. It may be working with other types of models, but with no warranty.

In some cases, it may be necessary to provide the full dataset initially used to estimate the model.

step_with_na() may not work inside other functions. In that case, you may try to pass `full_data` to the function.

Value

The stepwise-selected model.

Examples

```
set.seed(42)
d <- titanic |>
  dplyr::mutate(
    Group = sample(
      c("a", "b", NA),
      dplyr::n(),
      replace = TRUE
    )
  )
mod <- glm(as.factor(Survived) ~ ., data = d, family = binomial())
# step(mod) should produce an error
mod2 <- step_with_na(mod, full_data = d)
mod2
```

WITH SURVEY -----

```
library(survey)
ds <- d |>
  dplyr::mutate(Survived = as.factor(Survived)) |>
  srvyr::as_survey()
mods <- survey::svyglm(
  Survived ~ Class + Group + Sex,
  design = ds,
  family = quasibinomial()
)
mod2s <- step_with_na(mods, design = ds)
mod2s
```

titanic	<i>Titanic data set in long format</i>
---------	--

Description

This titanic dataset is equivalent to `datasets::Titanic |> dplyr::as_tibble() |> tidyr::uncount(n)`.

Usage

```
titanic
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 2201 rows and 4 columns.

See Also

[datasets::Titanic](#)

unrowwise	<i>Remove row-wise grouping</i>
-----------	---------------------------------

Description

Remove row-wise grouping created with [dplyr::rowwise\(\)](#) while preserving any other grouping declared with [dplyr::group_by\(\)](#).

Usage

```
unrowwise(data)
```

Arguments

data	A tibble.
------	-----------

Value

A tibble.

Examples

```
titanic |> dplyr::rowwise()
titanic |> dplyr::rowwise() |> unrowwise()

titanic |> dplyr::group_by(Sex, Class) |> dplyr::rowwise()
titanic |> dplyr::group_by(Sex, Class) |> dplyr::rowwise() |> unrowwise()
```

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