

Package: percentiles (via r-universe)

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Type Package

Title Calculate (Stratified) Percentiles

Version 0.3.0

Description Calculate (stratified) percentiles on a data.frame
Stratification will split the data.frame into subgroups and
calculate percentiles for each independently.

Depends R (>= 4.0.0)

Imports dplyr, assertthat, R6

Suggests testthat (>= 3.0.0)

License GPL-3

Encoding UTF-8

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Author Dr Peter Amin Marquardt [aut, cre] (ORCID:
<<https://orcid.org/0000-0002-5596-1357>>)

Maintainer Dr Peter Amin Marquardt <peter@kmarquardt.de>

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calculate_percentiles *Calculate percentiles*

Description

Calculate percentiles for values in a data.frame

Usage

```
calculate_percentiles(data, value_col)
```

Arguments

data	A data.frame
value_col	character name of column containing values

Value

A vector of numerics with percentile values of length of nrow(data)

Author(s)

Peter Amin Marquardt

Examples

```
data <- data.frame('values' = 100:1, 'group' = rep(c('A', 'B', 'C', 'D'), 25))
calculate_percentiles(data, 'values')
```

calculate_stratified_percentiles
Calculate stratified percentiles

Description

Calculate percentiles for values in a data.frame while stratifying for other characteristics in same df

Usage

```
calculate_stratified_percentiles(data, value_col, stratify_by, use.na = FALSE)
```

Arguments

<code>data</code>	A data frame
<code>value_col</code>	character name of column containing values
<code>stratify_by</code>	list or vector. Use a named list to specify column name as key and a value of type vector indicating accepted levels of the property stratified by to be included. If an unnamed list or vector is passed, all levels of indicated columns will be used
<code>use.na</code>	A logical indicating whether NA values should be used. If TRUE, NA values and non-included value levels will be grouped like a separate value level

Value

A vector of numerics with percentile values of length of `nrow(data)`

Author(s)

Peter Amin Marquardt

Examples

```
data <- data.frame('values' = 100:1, 'group' = rep(c('A', 'B', NA, 'D'), 25))
calculate_stratified_percentiles(data, 'values', list(group = c('A', 'B', 'D')))
calculate_stratified_percentiles(data, 'values', c('group'), use.na = TRUE)
calculate_stratified_percentiles(data, 'values', list(group = c('A', 'C')), use.na=TRUE)
# The following example will result in NA values caused by NAs in 'group'.
# Therefore, it will return the percentile vector, but issue a warning.
calculate_stratified_percentiles(data, 'values', 'group')
```

Stratified_percentile_calculator_generator

R6 Class representing a compound of data and methods used to calculate stratified percentiles

Description

A calculator has: - `raw_data` representing the data.frame passed in for calculation - `result_data` an environment containing the result data.frame `$data`, shared with - `sub_results` representing subordinate steps in recursive calculation process

Active bindings

`raw_data` Return the data.frame originally handed to the object

`result_data` Return the environment containing a data.frame (`$data`) containing results of current hierarchy

`sub_results` Return the named list with `Stratified_percentile_calculator_generator` objects for recursive stacking

Methods

Public methods:

- `Stratified_percentile_calculator$new()`
- `Stratified_percentile_calculator$divide_and_calculate()`
- `Stratified_percentile_calculator$clone()`

`Stratified_percentile_calculator$new()`: Create a new `Stratified_percentile_calculator` object.

Usage:

```
Stratified_percentile_calculator$new(
  raw_data = NULL,
  result_data = new.env(),
  current_stratification_characteristic = NULL,
  remaining_stratification_characteristics = NULL,
  value_column = NULL,
  output_column = NULL,
  use.na = FALSE
)
```

Arguments:

`raw_data` `data.frame` to perform calculation/stratification on.

`result_data` environment containing `$data`, a `data.frame` with the current state of results.

`current_stratification_characteristic` named list with column name and levels of characteristic to stratify by.

`remaining_stratification_characteristics` named list with column names and levels of characteristics to stratify by.

`value_column` character column with values to calculate percentiles on

`output_column` character column to write calculated percentile values to

`use.na` logical indicating whether or not NA/non-listed stratification values should be included as a separate group

Returns: A new ‘`Stratified_percentile_calculator`’ object.

`Stratified_percentile_calculator$divide_and_calculate()`: recursively calculate stratified percentiles on `data.frame` Updates following private fields: - `..result_data$data` - `::sub_results` - `..current_stratification_characteristic` - `..remaining_stratification_characteristics`

Usage:

```
Stratified_percentile_calculator$divide_and_calculate()
```

Returns: void, but updates `..result_data` field

`Stratified_percentile_calculator$clone()`: The objects of this class are cloneable with this method.

Usage:

```
Stratified_percentile_calculator$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

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