Package 'vvconverter'

June 11, 2024

Title Apply Transformations to Data

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academic_year

Academic year

Description

In this function, a date is translated to the academic year in which it falls. This is based on a start of the academic year on the 1st of September.

Usage

```
academic_year(x, start_1_oct = FALSE)
```

Arguments

x A date, or vector with multiple dates. POSIXct is also accepted.

Start_1_oct Does the academic year start on the 1st of October? default FALSE: based on September 1st

Value

The academic year in which the specified date falls

See Also

```
Other vector calculations: clean_multiple_underscores(), interval_round(), month_name(), sum_0_1(), transform_01_to_ft()
```

```
academic_year(lubridate::today())
```

clean_multiple_underscores

clean multiple underscores

Description

Replaces multiple underscores into a single underscore in a vector or string.

Usage

```
clean_multiple_underscores(x)
```

Arguments

Х

The vector or string to be cleaned.

Value

cleaned vector or string.

See Also

```
Other vector calculations: academic_year(), interval_round(), month_name(), sum_0_1(), transform_01_to_ft()
```

Examples

```
clean_multiple_underscores("hello___world")
```

destring

Convert character vector to numeric, ignoring irrelevant characters.

Description

Convert character vector to numeric, ignoring irrelevant characters.

Usage

```
destring(x, keep = "0-9.-")
```

Arguments

x A vector to be operated on

keep Characters to keep in, in bracket regular expression form. Typically includes 0-9 as well as the decimal separator (. in the US and , in Europe).

group_summary

Value

vector of type numeric

Examples

```
destring("24k")
destring("5,5")
```

group_summary

Group Summary

Description

Calculate the means (or other function) per group to analyze how each segment behaves. It scales each variable mean into the 0 to 1 range to easily profile the groups according to its mean. It also calculates the mean regardless of the grouping. This function is also useful when you want to profile cluster results in terms of its means. It automatically adds a row representing the summary of the column regardless of the group_var categories, which is useful to compare each segment with the whole population. It will exclude all factor/character variables.

Usage

```
group_summary(data, group_var, group_func = mean)
```

Arguments

data Input data source.

group_var Variable to make the group by.

group_func Function to be used in the group by. Default is mean.

Value

Grouped data frame.

group_summary_rank 5

group_summary_rank

Group Summary Rank

Description

Similar to 'group_summary' function, this one computes the rank of each value in order to quickly know what is the value in each segment that has the highest value (rank=1). 1 represents the highest number. It will exclude all factor/character variables.

Usage

```
group_summary_rank(data, group_var, group_func = mean)
```

Arguments

data Input data source.

group_var Variable to make the group by.

group_func Function to be used in the group by. Default is mean.

Value

Grouped data frame, showing the rank instead of the absolute values.

interval_round

Interval round

Description

Function to round numeric values in a vector to values from an interval sequence.

Usage

```
interval_round(x, interval)
```

Arguments

x The numeric vector to adjust

interval The interval sequence

Value

The vector corrected for the given interval

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See Also

```
Other vector calculations: academic_year(), clean_multiple_underscores(), month_name(), sum_0_1(), transform_01_to_ft()
```

Examples

```
interval\_round(c(5, 4, 2, 6), interval = seq(1:4))
```

ltrim

LTrim

Description

Trim leading whitespace from sting.

Usage

ltrim(x)

Arguments

Х

A text string.

Value

Cleaned string.

Examples

```
trim(" hello")
```

median_top_10

Median top 10 percentage

Description

Calculate the median of the top ten percentage of the values.

Usage

```
median_top_10(x, na.rm = FALSE)
```

Arguments

x A numerical vector

na.rm Default TRUE: Remove NAs, before calculations.

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Value

A numerical value

Examples

```
median_top_10(mtcars$cyl)
```

mode

Mode (most common value)

Description

Determine the most common value in a vector. If two values have the same frequency, the first occurring value is used.

Usage

```
mode(x, na.rm = FALSE)
```

Arguments

x a vector

na.rm If TRUE: Remove nas before the calculation is done

Value

the most common value in the vector x

Examples

```
mode(c(0, 3, 5, 7, 5, 3, 2))
```

month_name

Month Name

Description

Transform month from numeric to equivalent in specified language.

Usage

```
month_name(month_numeric, lang = "nl")
```

8 rtrim

Arguments

```
month_numeric Numeric in range 1 - 12.

lang The language of the month names. Default is "nl" (Dutch).
```

Value

Character string representation of month in specified language.

See Also

```
Other vector calculations: academic_year(), clean_multiple_underscores(), interval_round(), sum_0_1(), transform_01_to_ft()
```

rtrim

RTrim

Description

Trim trailing whitespaces from string.

Usage

```
rtrim(x)
```

Arguments

Χ

A text string.

Value

Cleaned string.

```
trim("hello ")
```

str_replace_all_in_file 9

```
str_replace_all_in_file
```

Replace all occurences of a pattern in a file

Description

Replace all occurences of a pattern in a file

Usage

```
str_replace_all_in_file(
   file,
   pattern,
   replacement = "[...]",
   only_comments = TRUE,
   collapse = FALSE
)
```

Arguments

file character, path of file to be modified pattern character, pattern to be replaced replacement character, replacement text

only_comments logical, should the replacement only be done in comments

collapse logical, should the lines be collapsed into a single line before replacement

Value

NULL, the file is modified in place

 sum_0_1

Sum 0 1

Description

This function is the same as sum(), with one exception: If the outcome value is higher than 1, it will always return 1.

Usage

```
sum_0_1(x)
```

Arguments

Х

a vector with numeric values

10 test_01

Value

0 or 1. Depending on whether the sum is greater than 0 or not.

See Also

```
Other vector calculations: academic_year(), clean_multiple_underscores(), interval_round(), month_name(), transform_01_to_ft()
```

test_01

Test 01

Description

This function tests whether the vector is actually a boolean, but is encoded as a 0/1 variable. The function checks for numeric vectors whether the only occurring values are 0, 1, or NA. At character and factor vectors checks whether the only occurring values are "0", "1", or NA to be. If there is a 0/1 variable, TRUE is returned, in all others cases FALSE.

Usage

```
test_01(x)
```

Arguments

Х

The vector to test

Value

A TRUE/FALSE value on the test

See Also

```
Other booleans: transform_01_to_ft()
```

```
vector <- c(0, 1, 0, 1, 1, 1, 0)
test_01(vector)</pre>
```

test_yes_no 11

test_yes_no

Test Yes/No Responses

Description

This function tests if a vector of responses are yes or no.

Usage

```
test_yes_no(responses)
```

Arguments

responses

A vector of responses.

Value

A logical vector indicating if each response is yes or no.

transform_01_to_ft

Transform 01 to FT

Description

If the vector is a 0/1 vector, it is converted to a logical one TRUE/FALSE vector. This transformation is performed only if the vector contains only values 0, 1, or NA. If this is not the case returns the original variable. This transformation can be done on numeric, string, and factor vectors.

Usage

```
transform_01_to_ft(x)
```

Arguments

Χ

the vector to be tested and transformed.

Value

The transformed vector if a transformation is possible. If no transformation is possible, the original vector returned.

See Also

```
Other vector calculations: academic_year(), clean_multiple_underscores(), interval_round(), month_name(), sum_0_1()
Other booleans: test_01()
```

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Examples

```
vector <- c(0, 1, 0, 1, 1, 1, 0)
transform_01_to_ft(vector)</pre>
```

```
transform_logical_yes_no
```

Transform Logical to Yes/No and Vice Versa

Description

This function transforms a logical vector to a vector of yes/no strings or vice versa.

Usage

```
transform_logical_yes_no(x, lang = "nl")
```

Arguments

x A logical or character vector.

lang The language of the yes/no strings. Default is "nl" (Dutch).

Value

A vector of yes/no strings or a logical vector.

translate_yes_no

Translate Yes/No Responses

Description

This function translates yes/no responses from a given language to English.

Usage

```
translate_yes_no(responses, source_language = "nl")
```

Arguments

```
\begin{tabular}{ll} responses & A vector of responses. \\ source\_language & \\ \end{tabular}
```

The language of the responses. Default is "n1" (Dutch).

Value

A vector of translated responses.

trim 13

trim *Trim*

Description

Trim both leading and trailing whitespaces from string.

Usage

trim(x)

Arguments

x A text string.

Value

Cleaned string.

```
trim(" hello ")
```

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