

Package: forstringr (via r-universe)

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Title String Manipulation Package for Those Familiar with 'Microsoft Excel'

Version 1.0.0

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Description The goal of 'forstringr' is to enable complex string manipulation in R especially to those more familiar with LEFT(), RIGHT(), and MID() functions in Microsoft Excel. The package combines the power of 'stringr' with other manipulation packages such as 'dplyr' and 'tidyr'.

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URL <https://github.com/gbganalyst/forstringr>,
<https://gbganalyst.github.io/forstringr/>

BugReports <https://github.com/gbganalyst/forstringr/issues>

Depends R (>= 3.4.0), stringr

Imports dplyr, glue, rlang, stats, tidyselect

Suggests ggplot2, knitr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

Config/pak/sysreqs libicu-dev

Repository <https://gbganalyst.r-universe.dev>

RemoteUrl <https://github.com/gbganalyst/forstringr>

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Contents

community_data	2
length_omit_na	3
richest_in_nigeria	3
str_englue	4
str_extract_part	5
str_left	6
str_mid	7
str_right	7
str_rm_whitespace_df	8
str_split_extract	9
str_title_case	9

Index	11
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community_data	<i>Data containing whitespaces</i>
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Description

This survey data was collected using a Google form to demonstrate how the `str_rm_whitespace_df()` function in the `forstringr` package could be used to eliminate whitespace.

Usage

```
community_data
```

Format

A data frame with 32 rows and 8 variables:

Date Form submission date

First_name First name of the respondent

Gender The gender of the respondent

State State or province living

Degree Whether or not the respondent has a degree

Year The year of graduation from a college

Use_R Whether respondent used R for data science or not

Community The data science community the respondent is associated with

Source

Ezekiel and **Esther** developed the Google form that was used to collect the data. By clicking the following link, you may also add to the data:

<https://docs.google.com/forms/d/e/1FAIpQLSeAhIBaze-pTHghyIKDZEx5kDuke0oYv0YPqg4gtGKijhSaUg/viewform>

length_omit_na	<i>Length of an object</i>
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Description

length_omitna() counts only non-missing elements of a vector.

Usage

```
length_omit_na(x)
```

Arguments

x Input vector. Either a vector, or something coercible to one.

Value

An integer

See Also

[length\(\)](#) counts all the elements in a vector including those that are missing (NAs).

Examples

```
ethnicity <- c("Hausa", NA, "Yoruba", "Igbo", NA, "Fulani", "Kanuri", "Others")  
  
length_omit_na(ethnicity)  
  
length(ethnicity)
```

richest_in_nigeria	<i>Rank of billionaires in Nigeria</i>
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Description

A dataset containing the list of top ten billionaires in Nigeria.

Usage

```
richest_in_nigeria
```

Format

A data frame with 10 rows and 5 variables:

Rank rank from 1 to 10

Name full name of the billionaires

Net worth net worth in billion dollars

Age the current age of billionaires

Source of Wealth the origin of the billionaires' entire body of wealth

Source

<https://rnn.ng/richest-men-in-nigeria/>

str_englue

Dynamic plot labels using glue operators

Description

str_englue() helps you solve the labeling problem during plotting. For example, any value wrapped in { } will be inserted into the string and it can also understand embracing, {{ }}, which automatically inserts a given variable name.

Usage

```
str_englue(x, env, error_call, error_arg)
```

Arguments

x	A string to interpolate with glue operators.
env	User environment where the interpolation data lives in case you're wrapping englue() in another function.
error_call	The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.
error_arg	An argument name as a string. This argument will be mentioned in error messages as the input that is at the origin of a problem.

See Also

[rlang::englue\(\)](#)

Examples

```
library(ggplot2)

histogram_plot <- function(df, var, binwidth) {
  ggplot(df, aes(x = {{ var }})) +
    geom_histogram(binwidth = binwidth) +
    labs(title = str_englue("A histogram of {{var}} with binwidth {binwidth}"))
}

histogram_plot(iris, Sepal.Length, binwidth = 0.1)
```

str_extract_part	<i>Extract strings before or after a given pattern</i>
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Description

Vectorised over string and pattern.

Usage

```
str_extract_part(string, pattern, before = TRUE)
```

Arguments

string	A character vector.
pattern	Pattern to look for.
before	The position in the string to extract from. If TRUE, the extract will occur before the pattern; if FALSE, it will happen after the pattern.

Value

A subset of the input vector.

See Also

[str_split_extract\(\)](#) which splits up a string into pieces and extracts the results using a specified index position.

Examples

```
weekdays <- c(
  "Monday_1", "Tuesday_2", "Wednesday_3", "Thursday_4",
  "Friday_5", "Saturday_6", "Sunday_7"
)

str_extract_part(weekdays, before = TRUE, pattern = "_")
```

```
str_extract_part(c("$159", "$587", "$897"), before = FALSE, pattern = "$")
```

str_left	<i>Returns a substring from the beginning of a specified string</i>
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Description

Given a character vector, `str_left()` returns the left side of a string.

Usage

```
str_left(string, n = 1)
```

Arguments

string	The character from which the left portion will be returned.
n	Optional. The number of characters to return from the left side of string

Value

A character vector

See Also

[str_right\(\)](#) which extracts characters from the right and [str_mid\(\)](#) which returns a segment of character strings.

Examples

```
str_left("Nigeria")
str_left("Nigeria", n = 3)
str_left(c("Female", "Male", "Male", "Female"))
```

str_mid	Returns a segment of character strings
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Description

str_mid() returns a specific number of characters from a text string, starting at the position you specify, based on the number of characters you specify.

Usage

```
str_mid(string, start, n)
```

Arguments

string	The text string containing the characters you want to extract.
start	The position of the first character you want to extract in the text. The first character in text has start = 1, and so on.
n	The length of character to extract.

Value

A character vector.

See Also

[str_left\(\)](#) which extracts characters from the left and [str_right\(\)](#) which extracts characters from the right.

Examples

```
str_mid("Super Eagle", 7, 5)
```

```
str_mid("Oyo Ibadan", 5, 6)
```

str_right	Returns a substring from the end of a specified string
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Description

Given a character vector, str_right() returns the right side of a string.

Usage

```
str_right(string, n = 1)
```

Arguments

string The character from which the right portion will be returned.
n Optional. The number of characters to return from the right side of string.

Value

A character vector.

See Also

[str_left\(\)](#) which extracts characters from the left and [str_mid\(\)](#) which returns a segment of character strings.

Examples

```
str_right("Sale Price")  
str_right("Sale Price", n = 5)
```

str_rm_whitespace_df *Remove extra spaces in a data frame*

Description

str_rm_whitespace_df() removes all leading, trailing, and collapses multiple consecutive white spaces in non-numerical variables in a data frame.

Usage

```
str_rm_whitespace_df(df)
```

Arguments

df A data frame or data frame extension (e.g. a tibble) with leading or trailing spaces.

Value

A clean data frame with no leading or trailing spaces.

Examples

```
richest_in_nigeria  
str_rm_whitespace_df(richest_in_nigeria)
```

str_split_extract	<i>Extract the result of a positional split string</i>
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Description

Split up a string into pieces and extract the results using a specific index position. Mathematically, you can interpret it as follows:

Given a character string, S, extract the element at a given position, k, from the result of splitting S by a given pattern, m.

Usage

```
str_split_extract(string, pattern, position)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. This may also contain regular expression.
position	Index position to return from the character vector.

Value

A character vector.

Examples

```
code <- c("HS-IB-EDE", "OG-OYO-CAS-0121", "NY-ILR-NIG-036")  
str_split_extract(code, "-", 1)  
str_split_extract(code, "-", 4)
```

str_title_case	<i>Convert string to title case</i>
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Description

str_title_case() converts string to title case, capitalizing only the first letter of each word while ignoring articles, prepositions, and conjunctions

Usage

```
str_title_case(string)
```

Arguments

string Input vector. Either a character vector, or something coercible to one.

Details

Please note that `str_title_case()` is different from `stringr::str_to_title()` which converts to title case, where only the first letter of each word is capitalized.

Value

A character vector the same length as the string and in title case.

Examples

```
words <- "the quick brown fox jumps over a lazy dog"

str_title_case(words)

str_to_title(words)

words <- "A journey through the history of music"

str_title_case(words)

str_to_title(words)
```

Index

* datasets

- community_data, 2
- richest_in_nigeria, 3

abort(), 4

community_data, 2

length(), 3

length_omit_na, 3

NA, 3

richest_in_nigeria, 3

rlang::englue(), 4

str_englue, 4

str_extract_part, 5

str_left, 6

str_left(), 7, 8

str_mid, 7

str_mid(), 6, 8

str_right, 7

str_right(), 6, 7

str_rm_whitespace_df, 8

str_split_extract, 9

str_split_extract(), 5

str_title_case, 9

stringr::str_to_title(), 10