

Package ‘stringr’

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Title Simple, Consistent Wrappers for Common String Operations

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Description A consistent, simple and easy to use set of wrappers around the fantastic 'stringi' package. All function and argument names (and positions) are consistent, all functions deal with ``NA"s and zero length vectors in the same way, and the output from one function is easy to feed into the input of another.

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URL <https://stringr.tidyverse.org>,
<https://github.com/tidyverse/stringr>

BugReports <https://github.com/tidyverse/stringr/issues>

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Contents

case	2
invert_match	4
modifiers	4
stringr-data	6
str_c	7
str_conv	8
str_count	9
str_detect	10
str_dup	11
str_equal	11
str_escape	12
str_extract	13
str_flatten	14
str_glue	15
str_length	16
str_like	17
str_locate	18
str_match	19
str_order	21
str_pad	22
str_remove	23
str_replace	24
str_replace_na	25
str_split	26
str_starts	28
str_sub	29
str_subset	30
str_trim	31
str_trunc	32
str_unique	33
str_view	34
str_which	35
str_wrap	36
word	37

Index	39
-------	----

case	<i>Convert string to upper case, lower case, title case, or sentence case</i>
------	---

Description

- `str_to_upper()` converts to upper case.
- `str_to_lower()` converts to lower case.
- `str_to_title()` converts to title case, where only the first letter of each word is capitalized.
- `str_to_sentence()` convert to sentence case, where only the first letter of sentence is capitalized.

Usage

```
str_to_upper(string, locale = "en")  
  
str_to_lower(string, locale = "en")  
  
str_to_title(string, locale = "en")  
  
str_to_sentence(string, locale = "en")
```

Arguments

<code>string</code>	Input vector. Either a character vector, or something coercible to one.
<code>locale</code>	Locale to use for comparisons. See stringi::stri_locale_list() for all possible options. Defaults to "en" (English) to ensure that default behaviour is consistent across platforms.

Value

A character vector the same length as `string`.

Examples

```
dog <- "The quick brown dog"  
str_to_upper(dog)  
str_to_lower(dog)  
str_to_title(dog)  
str_to_sentence("the quick brown dog")  
  
# Locale matters!  
str_to_upper("i") # English  
str_to_upper("i", "tr") # Turkish
```

invert_match	<i>Switch location of matches to location of non-matches</i>
--------------	--

Description

Invert a matrix of match locations to match the opposite of what was previously matched.

Usage

```
invert_match(loc)
```

Arguments

loc matrix of match locations, as from `str_locate_all()`

Value

numeric match giving locations of non-matches

Examples

```
numbers <- "1 and 2 and 4 and 456"
num_loc <- str_locate_all(numbers, "[0-9]+")[[1]]
str_sub(numbers, num_loc[, "start"], num_loc[, "end"])

text_loc <- invert_match(num_loc)
str_sub(numbers, text_loc[, "start"], text_loc[, "end"])
```

modifiers	<i>Control matching behaviour with modifier functions</i>
-----------	---

Description

Modifier functions control the meaning of the pattern argument to stringr functions:

- `boundary()`: Match boundaries between things.
- `coll()`: Compare strings using standard Unicode collation rules.
- `fixed()`: Compare literal bytes.
- `regex()` (the default): Uses ICU regular expressions.

Usage

```

fixed(pattern, ignore_case = FALSE)

coll(pattern, ignore_case = FALSE, locale = "en", ...)

regex(
  pattern,
  ignore_case = FALSE,
  multiline = FALSE,
  comments = FALSE,
  dotall = FALSE,
  ...
)

boundary(
  type = c("character", "line_break", "sentence", "word"),
  skip_word_none = NA,
  ...
)

```

Arguments

pattern	Pattern to modify behaviour.
ignore_case	Should case differences be ignored in the match? For <code>fixed()</code> , this uses a simple algorithm which assumes a one-to-one mapping between upper and lower case letters.
locale	Locale to use for comparisons. See stringi::stri_locale_list() for all possible options. Defaults to "en" (English) to ensure that default behaviour is consistent across platforms.
...	Other less frequently used arguments passed on to stringi::stri_opts_collator() , stringi::stri_opts_regex() , or stringi::stri_opts_brkiter()
multiline	If TRUE, \$ and ^ match the beginning and end of each line. If FALSE, the default, only match the start and end of the input.
comments	If TRUE, white space and comments beginning with # are ignored. Escape literal spaces with \\ .
dotall	If TRUE, . will also match line terminators.
type	Boundary type to detect. character Every character is a boundary. line_break Boundaries are places where it is acceptable to have a line break in the current locale. sentence The beginnings and ends of sentences are boundaries, using intelligent rules to avoid counting abbreviations (details). word The beginnings and ends of words are boundaries.
skip_word_none	Ignore "words" that don't contain any characters or numbers - i.e. punctuation. Default NA will skip such "words" only when splitting on word boundaries.

Value

A stringr modifier object, i.e. a character vector with parent S3 class `stringr_pattern`.

Examples

```
pattern <- "a.b"
strings <- c("abb", "a.b")
str_detect(strings, pattern)
str_detect(strings, fixed(pattern))
str_detect(strings, coll(pattern))

# coll() is useful for locale-aware case-insensitive matching
i <- c("I", "\u0130", "i")
i
str_detect(i, fixed("i", TRUE))
str_detect(i, coll("i", TRUE))
str_detect(i, coll("i", TRUE, locale = "tr"))

# Word boundaries
words <- c("These are   some words.")
str_count(words, boundary("word"))
str_split(words, " ")[[1]]
str_split(words, boundary("word"))[[1]]

# Regular expression variations
str_extract_all("The Cat in the Hat", "[a-z]+")
str_extract_all("The Cat in the Hat", regex("[a-z]+", TRUE))

str_extract_all("a\nb\nc", "^.")
str_extract_all("a\nb\nc", regex("^.", multiline = TRUE))

str_extract_all("a\nb\nc", "a.")
str_extract_all("a\nb\nc", regex("a.", dotall = TRUE))
```

stringr-data

Sample character vectors for practicing string manipulations

Description

`fruit` and `words` come from the `rcorpora` package written by Gabor Csardi; the data was collected by Darius Kazemi and made available at <https://github.com/dariusk/corpora>. `sentences` is a collection of "Harvard sentences" used for standardised testing of voice.

Usage

```
sentences
```

```
fruit
```

```
words
```

Format

Character vectors.

Examples

```
length(sentences)
sentences[1:5]
```

```
length(fruit)
fruit[1:5]
```

```
length(words)
words[1:5]
```

str_c

Join multiple strings into one string

Description

`str_c()` combines multiple character vectors into a single character vector. It's very similar to [paste0\(\)](#) but uses tidyverse recycling and NA rules.

One way to understand how `str_c()` works is picture a 2d matrix of strings, where each argument forms a column. `sep` is inserted between each column, and then each row is combined together into a single string. If `collapse` is set, it's inserted between each row, and then the result is again combined, this time into a single string.

Usage

```
str_c(..., sep = "", collapse = NULL)
```

Arguments

<code>...</code>	One or more character vectors. NULLs are removed; scalar inputs (vectors of length 1) are recycled to the common length of vector inputs. Like most other R functions, missing values are "infectious": whenever a missing value is combined with another string the result will always be missing. Use dplyr::coalesce() or str_replace_na() to convert to the desired value.
<code>sep</code>	String to insert between input vectors.
<code>collapse</code>	Optional string used to combine output into single string. Generally better to use str_flatten() if you needed this behaviour.

Value

If `collapse = NULL` (the default) a character vector with length equal to the longest input. If `collapse` is a string, a character vector of length 1.

Examples

```
str_c("Letter: ", letters)
str_c("Letter", letters, sep = ": ")
str_c(letters, " is for", "...")
str_c(letters[-26], " comes before ", letters[-1])

str_c(letters, collapse = "")
str_c(letters, collapse = ", ")

# Differences from paste() -----
# Missing inputs give missing outputs
str_c(c("a", NA, "b"), "-d")
paste0(c("a", NA, "b"), "-d")
# Use str_replace_NA to display literal NAs:
str_c(str_replace_na(c("a", NA, "b")), "-d")

# Uses tidyverse recycling rules
## Not run: str_c(1:2, 1:3) # errors
paste0(1:2, 1:3)

str_c("x", character())
paste0("x", character())
```

str_conv

Specify the encoding of a string

Description

This is a convenient way to override the current encoding of a string.

Usage

```
str_conv(string, encoding)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
encoding	Name of encoding. See stringi::stri_enc_list() for a complete list.

Examples

```
# Example from encoding?stringi::stringi
x <- rawToChar(as.raw(177))
x
str_conv(x, "ISO-8859-2") # Polish "a with ogonek"
str_conv(x, "ISO-8859-1") # Plus-minus
```

str_count	<i>Count number of matches</i>
-----------	--------------------------------

Description

Counts the number of times pattern is found within each element of string.

Usage

```
str_count(string, pattern = "")
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. The default interpretation is a regular expression, as described in vignette("regular-expressions"). Use regex() for finer control of the matching behaviour. Match a fixed string (i.e. by comparing only bytes), using fixed(). This is fast, but approximate. Generally, for matching human text, you'll want coll() which respects character matching rules for the specified locale. Match character, word, line and sentence boundaries with boundary(). An empty pattern, "", is equivalent to boundary("character").

Value

An integer vector the same length as string/pattern.

See Also

[stringi::stri_count\(\)](#) which this function wraps.

[str_locate\(\)/str_locate_all\(\)](#) to locate position of matches

Examples

```
fruit <- c("apple", "banana", "pear", "pineapple")
str_count(fruit, "a")
str_count(fruit, "p")
str_count(fruit, "e")
str_count(fruit, c("a", "b", "p", "p"))

str_count(c("a.", "...", ".a.a"), ".")
str_count(c("a.", "...", ".a.a"), fixed("."))
```

str_detect	<i>Detect the presence/absence of a match</i>
------------	---

Description

str_detect() returns a logical vector with TRUE for each element of string that matches pattern and FALSE otherwise. It's equivalent to grepl(pattern, string).

Usage

```
str_detect(string, pattern, negate = FALSE)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. The default interpretation is a regular expression, as described in vignette("regular-expressions"). Use regex() for finer control of the matching behaviour. Match a fixed string (i.e. by comparing only bytes), using fixed() . This is fast, but approximate. Generally, for matching human text, you'll want coll() which respects character matching rules for the specified locale. Match character, word, line and sentence boundaries with boundary() . An empty pattern, "", is equivalent to boundary("character").
negate	If TRUE, inverts the resulting boolean vector.

Value

A logical vector the same length as string/pattern.

See Also

[stringi::stri_detect\(\)](#) which this function wraps, [str_subset\(\)](#) for a convenient wrapper around x[str_detect(x, pattern)]

Examples

```
fruit <- c("apple", "banana", "pear", "pineapple")
str_detect(fruit, "a")
str_detect(fruit, "^a")
str_detect(fruit, "a$")
str_detect(fruit, "b")
str_detect(fruit, "[aeiou]")

# Also vectorised over pattern
str_detect("aecfg", letters)

# Returns TRUE if the pattern do NOT match
str_detect(fruit, "^p", negate = TRUE)
```

str_dup	<i>Duplicate a string</i>
---------	---------------------------

Description

str_dup() duplicates the characters within a string, e.g. str_dup("xy", 3) returns "xyxyxy".

Usage

```
str_dup(string, times)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
times	Number of times to duplicate each string.

Value

A character vector the same length as string/times.

Examples

```
fruit <- c("apple", "pear", "banana")
str_dup(fruit, 2)
str_dup(fruit, 1:3)
str_c("ba", str_dup("na", 0:5))
```

str_equal	<i>Determine if two strings are equivalent</i>
-----------	--

Description

This uses Unicode canonicalisation rules, and optionally ignores case.

Usage

```
str_equal(x, y, locale = "en", ignore_case = FALSE, ...)
```

Arguments

x, y	A pair of character vectors.
locale	Locale to use for comparisons. See stringi::stri_locale_list() for all possible options. Defaults to "en" (English) to ensure that default behaviour is consistent across platforms.
ignore_case	Ignore case when comparing strings?
...	Other options used to control collation. Passed on to stringi::stri_opts_collator() .

Value

An logical vector the same length as x/y.

See Also

`stringi::stri_cmp_equiv()` for the underlying implementation.

Examples

```
# These two strings encode "a" with an accent in two different ways
a1 <- "\u00e1"
a2 <- "a\u0301"
c(a1, a2)

a1 == a2
str_equal(a1, a2)

# ohm and omega use different code points but should always be treated
# as equal
ohm <- "\u2126"
omega <- "\u03A9"
c(ohm, omega)

ohm == omega
str_equal(ohm, omega)
```

str_escape

Escape regular expression metacharacters

Description

This function escapes metacharacter, the characters that have special meaning to the regular expression engine. In most cases you are better off using `fixed()` since it is faster, but `str_escape()` is useful if you are composing user provided strings into a pattern.

Usage

```
str_escape(string)
```

Arguments

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

Value

A character vector the same length as `string`.

Examples

```
str_detect(c("a", "."), ".")
str_detect(c("a", "."), str_escape("."))
```

str_extract	<i>Extract the complete match</i>
-------------	-----------------------------------

Description

str_extract() extracts the first complete match from each string, str_extract_all() extracts all matches from each string.

Usage

```
str_extract(string, pattern, group = NULL)

str_extract_all(string, pattern, simplify = FALSE)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. The default interpretation is a regular expression, as described in vignette("regular-expressions"). Use regex() for finer control of the matching behaviour. Match a fixed string (i.e. by comparing only bytes), using fixed(). This is fast, but approximate. Generally, for matching human text, you'll want coll() which respects character matching rules for the specified locale. Match character, word, line and sentence boundaries with boundary(). An empty pattern, "", is equivalent to boundary("character").
group	If supplied, instead of returning the complete match, will return the matched text from the specified capturing group.
simplify	A boolean. - FALSE (the default): returns a list of character vectors. - TRUE: returns a character matrix.

Value

- str_extract(): an character vector the same length as string/pattern.
- str_extract_all(): a list of character vectors the same length as string/pattern.

See Also

[str_match\(\)](#) to extract matched groups; [stringi::stri_extract\(\)](#) for the underlying implementation.

Examples

```
shopping_list <- c("apples x4", "bag of flour", "bag of sugar", "milk x2")
str_extract(shopping_list, "\\d")
str_extract(shopping_list, "[a-z]+")
str_extract(shopping_list, "[a-z]{1,4}")
str_extract(shopping_list, "\\b[a-z]{1,4}\\b")

str_extract(shopping_list, "[a-z]+ of ([a-z]+)")
str_extract(shopping_list, "[a-z]+ of ([a-z]+)", group = 1)
str_extract(shopping_list, "[a-z]+ of ([a-z]+)", group = 2)

# Extract all matches
str_extract_all(shopping_list, "[a-z]+")
str_extract_all(shopping_list, "\\b[a-z]+\\b")
str_extract_all(shopping_list, "\\d")

# Simplify results into character matrix
str_extract_all(shopping_list, "\\b[a-z]+\\b", simplify = TRUE)
str_extract_all(shopping_list, "\\d", simplify = TRUE)

# Extract all words
str_extract_all("This is, suprisingly, a sentence.", boundary("word"))
```

str_flatten

*Flatten a string***Description**

str_flatten() reduces a character vector to a single string. This is a summary function because regardless of the length of the input x, it always returns a single string.

str_flatten_comma() is a variation designed specifically for flattening with commas. It automatically recognises if last uses the Oxford comma and handles the special case of 2 elements.

Usage

```
str_flatten(string, collapse = "", last = NULL, na.rm = FALSE)
```

```
str_flatten_comma(string, last = NULL, na.rm = FALSE)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
collapse	String to insert between each piece. Defaults to "".
last	Optional string to use in place of the final separator.
na.rm	Remove missing values? If FALSE (the default), the result will be NA if any element of string is NA.

Value

A string, i.e. a character vector of length 1.

Examples

```
str_flatten(letters)
str_flatten(letters, "-")

str_flatten(letters[1:3], ", ")

# Use last to customise the last component
str_flatten(letters[1:3], ", ", " and ")

# this almost works if you want an Oxford (aka serial) comma
str_flatten(letters[1:3], ", ", ", and ")

# but it will always add a comma, even when not necessary
str_flatten(letters[1:2], ", ", ", and ")

# str_flatten_comma knows how to handle the Oxford comma
str_flatten_comma(letters[1:3], ", and ")
str_flatten_comma(letters[1:2], ", and ")
```

str_glue

Interpolation with glue

Description

These functions are wrappers around `glue::glue()` and `glue::glue_data()`, which provide a powerful and elegant syntax for interpolating strings with `{}`.

These wrappers provide a small set of the full options. Use `glue()` and `glue_data()` directly from `glue` for more control.

Usage

```
str_glue(..., .sep = "", .envir = parent.frame())

str_glue_data(.x, ..., .sep = "", .envir = parent.frame(), .na = "NA")
```

Arguments

<code>...</code>	[expressions] Unnamed arguments are taken to be expression string(s) to format. Multiple inputs are concatenated together before formatting. Named arguments are taken to be temporary variables available for substitution. For <code>glue_data()</code> , elements in <code>...</code> override the values in <code>.x</code> .
<code>.sep</code>	[character(1): ""] Separator used to separate elements.

.envir	[environment: parent.frame()] Environment to evaluate each expression in. Expressions are evaluated from left to right. If .x is an environment, the expressions are evaluated in that environment and .envir is ignored. If NULL is passed, it is equivalent to <code>emptyenv()</code> .
.x	[listish] An environment, list, or data frame used to lookup values.
.na	[character(1): 'NA'] Value to replace NA values with. If NULL missing values are propagated, that is an NA result will cause NA output. Otherwise the value is replaced by the value of .na.

Value

A character vector with same length as the longest input.

Examples

```
name <- "Fred"
age <- 50
anniversary <- as.Date("1991-10-12")
str_glue(
  "My name is {name}, ",
  "my age next year is {age + 1}, ",
  "and my anniversary is {format(anniversary, '%A, %B %d, %Y')}. "
)

# single braces can be inserted by doubling them
str_glue("My name is {name}, not {{name}}.")

# You can also used named arguments
str_glue(
  "My name is {name}, ",
  "and my age next year is {age + 1}.",
  name = "Joe",
  age = 40
)

# `str_glue_data()` is useful in data pipelines
mtcars %>% str_glue_data("{rownames(.)} has {hp} hp")
```

str_length

Compute the length/width

Description

`str_length()` returns the number of codepoints in a string. These are the individual elements (which are often, but not always letters) that can be extracted with `str_sub()`.

`str_width()` returns how much space the string will occupy when printed in a fixed width font (i.e. when printed in the console).

Usage

```
str_length(string)
```

```
str_width(string)
```

Arguments

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

Value

A numeric vector the same length as string.

See Also

`stringi::stri_length()` which this function wraps.

Examples

```
str_length(letters)
str_length(NA)
str_length(factor("abc"))
str_length(c("i", "like", "programming", NA))

# Some characters, like emoji and Chinese characters (hanzi), are square
# which means they take up the width of two Latin characters
x <- c("\u6c49\u5b57", "\U0001f60a")
str_view(x)
str_width(x)
str_length(x)

# There are two ways of representing a u with an umlaut
u <- c("\u00fc", "u\u0308")
# They have the same width
str_width(u)
# But a different length
str_length(u)
# Because the second element is made up of a u + an accent
str_sub(u, 1, 1)
```

str_like

Detect a pattern in the same way as SQL's LIKE operator

Description

str_like() follows the conventions of the SQL LIKE operator:

- Must match the entire string.
- `_` matches a single character (like `.`).

- % matches any number of characters (like .*).
- \% and _ match literal % and _.
- The match is case insensitive by default.

Usage

```
str_like(string, pattern, ignore_case = TRUE)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	A character vector containing a SQL "like" pattern. See above for details.
ignore_case	Ignore case of matches? Defaults to TRUE to match the SQL LIKE operator.

Value

A logical vector the same length as string.

Examples

```
fruit <- c("apple", "banana", "pear", "pineapple")
str_like(fruit, "app")
str_like(fruit, "app%")
str_like(fruit, "ba_ana")
str_like(fruit, "%APPLE")
```

str_locate	<i>Find location of match</i>
------------	-------------------------------

Description

str_locate() returns the start and end position of the first match; str_locate_all() returns the start and end position of each match.

Because the start and end values are inclusive, zero-length matches (e.g. \$, ^, \\b) will have an end that is smaller than start.

Usage

```
str_locate(string, pattern)
```

```
str_locate_all(string, pattern)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. The default interpretation is a regular expression, as described in <code>vignette("regular-expressions")</code>. Use <code>regex()</code> for finer control of the matching behaviour. Match a fixed string (i.e. by comparing only bytes), using <code>fixed()</code>. This is fast, but approximate. Generally, for matching human text, you'll want <code>coll()</code> which respects character matching rules for the specified locale. Match character, word, line and sentence boundaries with <code>boundary()</code>. An empty pattern, "", is equivalent to <code>boundary("character")</code>.

Value

- `str_locate()` returns an integer matrix with two columns and one row for each element of `string`. The first column, `start`, gives the position at the start of the match, and the second column, `end`, gives the position of the end.
- `str_locate_all()` returns a list of integer matrices with the same length as `string/pattern`. The matrices have columns `start` and `end` as above, and one row for each match.

See Also

`str_extract()` for a convenient way of extracting matches, `stringi::stri_locate()` for the underlying implementation.

Examples

```
fruit <- c("apple", "banana", "pear", "pineapple")
str_locate(fruit, "$")
str_locate(fruit, "a")
str_locate(fruit, "e")
str_locate(fruit, c("a", "b", "p", "p"))

str_locate_all(fruit, "a")
str_locate_all(fruit, "e")
str_locate_all(fruit, c("a", "b", "p", "p"))

# Find location of every character
str_locate_all(fruit, "")
```

str_match

*Extract components (capturing groups) from a match***Description**

Extract any number of matches defined by unnamed, `(pattern)`, and named, `(?<name>pattern)` capture groups.

Use a non-capturing group, `(?:pattern)`, if you need to override default operate precedence but don't want to capture the result.

Usage

```
str_match(string, pattern)

str_match_all(string, pattern)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Unlike other stringr functions, <code>str_match()</code> only supports regular expressions, as described vignette("regular-expressions"). The pattern should contain at least one capturing group.

Value

- `str_match()`: a character matrix with the same number of rows as the length of `string/pattern`. The first column is the complete match, followed by one column for each capture group. The columns will be named if you used "named captured groups", i.e. `(?<name>pattern')`.
- `str_match_all()`: a list of the same length as `string/pattern` containing character matrices. Each matrix has columns as described above and one row for each match.

See Also

[str_extract\(\)](#) to extract the complete match, [stringi::stri_match\(\)](#) for the underlying implementation.

Examples

```
strings <- c(" 219 733 8965", "329-293-8753 ", "banana", "595 794 7569",
  "387 287 6718", "apple", "233.398.9187 ", "482 952 3315",
  "239 923 8115 and 842 566 4692", "Work: 579-499-7527", "$1000",
  "Home: 543.355.3679")
phone <- "([2-9][0-9]{2})[-. ]([0-9]{3})[-. ]([0-9]{4})"

str_extract(strings, phone)
str_match(strings, phone)

# Extract/match all
str_extract_all(strings, phone)
str_match_all(strings, phone)

# You can also name the groups to make further manipulation easier
phone <- "(?<area>[2-9][0-9]{2})[-. ](?<phone>[0-9]{3})[-. ]([0-9]{4})"
str_match(strings, phone)

x <- c("<a> <b>", "<a> <>", "<a>", "", NA)
str_match(x, "<(.*?)> <(.*?)>")
str_match_all(x, "<(.*?)>")

str_extract(x, "<.*?>")
str_extract_all(x, "<.*?>")
```

str_order	<i>Order, rank, or sort a character vector</i>
-----------	--

Description

- `str_sort()` returns the sorted vector.
- `str_order()` returns an integer vector that returns the desired order when used for subsetting, i.e. `x[str_order(x)]` is the same as `str_sort()`
- `str_rank()` returns the ranks of the values, i.e. `arrange(df, str_rank(x))` is the same as `str_sort(df$x)`.

Usage

```
str_order(
  x,
  decreasing = FALSE,
  na_last = TRUE,
  locale = "en",
  numeric = FALSE,
  ...
)

str_rank(x, locale = "en", numeric = FALSE, ...)

str_sort(
  x,
  decreasing = FALSE,
  na_last = TRUE,
  locale = "en",
  numeric = FALSE,
  ...
)
```

Arguments

<code>x</code>	A character vector to sort.
<code>decreasing</code>	A boolean. If <code>FALSE</code> , the default, sorts from lowest to highest; if <code>TRUE</code> sorts from highest to lowest.
<code>na_last</code>	Where should NA go? <code>TRUE</code> at the end, <code>FALSE</code> at the beginning, NA dropped.
<code>locale</code>	Locale to use for comparisons. See stringi::stri_locale_list() for all possible options. Defaults to "en" (English) to ensure that default behaviour is consistent across platforms.
<code>numeric</code>	If <code>TRUE</code> , will sort digits numerically, instead of as strings.
<code>...</code>	Other options used to control collation. Passed on to stringi::stri_opts_collator() .

Value

A character vector the same length as string.

See Also

`stringi::stri_order()` for the underlying implementation.

Examples

```
x <- c("apple", "car", "happy", "char")
str_sort(x)

str_order(x)
x[str_order(x)]

str_rank(x)

# In Czech, ch is a digraph that sorts after h
str_sort(x, locale = "cs")

# Use numeric = TRUE to sort numbers in strings
x <- c("100a10", "100a5", "2b", "2a")
str_sort(x)
str_sort(x, numeric = TRUE)
```

str_pad	<i>Pad a string to minimum width</i>
---------	--------------------------------------

Description

Pad a string to a fixed width, so that `str_length(str_pad(x, n))` is always greater than or equal to `n`.

Usage

```
str_pad(
  string,
  width,
  side = c("left", "right", "both"),
  pad = " ",
  use_width = TRUE
)
```

Arguments

- | | |
|--------|---|
| string | Input vector. Either a character vector, or something coercible to one. |
| width | Minimum width of padded strings. |
| side | Side on which padding character is added (left, right or both). |

pad	Single padding character (default is a space).
use_width	If FALSE, use the length of the string instead of the width; see str_width()/str_length() for the difference.

Value

A character vector the same length as stringr/width/pad.

See Also

[str_trim\(\)](#) to remove whitespace; [str_trunc\(\)](#) to decrease the maximum width of a string.

Examples

```

rbind(
  str_pad("hadley", 30, "left"),
  str_pad("hadley", 30, "right"),
  str_pad("hadley", 30, "both")
)

# All arguments are vectorised except side
str_pad(c("a", "abc", "abcdef"), 10)
str_pad("a", c(5, 10, 20))
str_pad("a", 10, pad = c("-", "_", " "))

# Longer strings are returned unchanged
str_pad("hadley", 3)

```

str_remove	<i>Remove matched patterns</i>
------------	--------------------------------

Description

Remove matches, i.e. replace them with "".

Usage

```

str_remove(string, pattern)

str_remove_all(string, pattern)

```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. The default interpretation is a regular expression, as described in vignette("regular-expressions") . Use regex() for finer control of the matching behaviour.

Match a fixed string (i.e. by comparing only bytes), using `fixed()`. This is fast, but approximate. Generally, for matching human text, you'll want `coll()` which respects character matching rules for the specified locale.

Match character, word, line and sentence boundaries with `boundary()`. An empty pattern, "", is equivalent to `boundary("character")`.

Value

A character vector the same length as string/pattern.

See Also

`str_replace()` for the underlying implementation.

Examples

```
fruits <- c("one apple", "two pears", "three bananas")
str_remove(fruits, "[aeiou]")
str_remove_all(fruits, "[aeiou]")
```

str_replace	<i>Replace matches with new text</i>
-------------	--------------------------------------

Description

`str_replace()` replaces the first match; `str_replace_all()` replaces all matches.

Usage

```
str_replace(string, pattern, replacement)

str_replace_all(string, pattern, replacement)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. The default interpretation is a regular expression, as described in stringi::about_search_regex . Control options with <code>regex()</code> . For <code>str_replace_all()</code> this can also be a named vector (<code>c(pattern1 = replacement1)</code>), in order to perform multiple replacements in each element of string. Match a fixed string (i.e. by comparing only bytes), using <code>fixed()</code> . This is fast, but approximate. Generally, for matching human text, you'll want <code>coll()</code> which respects character matching rules for the specified locale.
replacement	The replacement value, usually a single string, but it can be the a vector the same length as string or pattern. References of the form <code>\1</code> , <code>\2</code> , etc will be replaced with the contents of the respective matched group (created by <code>()</code>). Alternatively, supply a function, which will be called once for each match (from right to left) and its return value will be used to replace the match.

Value

A character vector the same length as string/pattern/replacement.

See Also

`str_replace_na()` to turn missing values into "NA"; `stringi::stri_replace()` for the underlying implementation.

Examples

```
fruits <- c("one apple", "two pears", "three bananas")
str_replace(fruits, "[aeiou]", "-")
str_replace_all(fruits, "[aeiou]", "-")
str_replace_all(fruits, "[aeiou]", toupper)
str_replace_all(fruits, "b", NA_character_)

str_replace(fruits, "([aeiou])", "")
str_replace(fruits, "([aeiou])", "\\1\\1")

# Note that str_replace() is vectorised along text, pattern, and replacement
str_replace(fruits, "[aeiou]", c("1", "2", "3"))
str_replace(fruits, c("a", "e", "i"), "-")

# If you want to apply multiple patterns and replacements to the same
# string, pass a named vector to pattern.
fruits %>%
  str_c(collapse = "---") %>%
  str_replace_all(c("one" = "1", "two" = "2", "three" = "3"))

# Use a function for more sophisticated replacement. This example
# replaces colour names with their hex values.
colours <- str_c("\\b", colors(), "\\b", collapse="|")
col2hex <- function(col) {
  rgb <- col2rgb(col)
  rgb(rgb["red", ], rgb["green", ], rgb["blue", ], max = 255)
}

x <- c(
  "Roses are red, violets are blue",
  "My favourite colour is green"
)
str_replace_all(x, colours, col2hex)
```

str_replace_na

Turn NA into "NA"

Description

Turn NA into "NA"

Usage

```
str_replace_na(string, replacement = "NA")
```

Arguments

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

`replacement` A single string.

Examples

```
str_replace_na(c(NA, "abc", "def"))
```

str_split	<i>Split up a string into pieces</i>
-----------	--------------------------------------

Description

This family of functions provides various ways of splitting a string up into pieces. These two functions return a character vector:

- `str_split_1()` takes a single string and splits it into pieces, returning a single character vector.
- `str_split_i()` splits each string in a character vector into pieces and extracts the `i`th value, returning a character vector.

These two functions return a more complex object:

- `str_split()` splits each string in a character vector into a varying number of pieces, returning a list of character vectors.
- `str_split_fixed()` splits each string in a character vector into a fixed number of pieces, returning a character matrix.

Usage

```
str_split(string, pattern, n = Inf, simplify = FALSE)
```

```
str_split_1(string, pattern)
```

```
str_split_fixed(string, pattern, n)
```

```
str_split_i(string, pattern, i)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. The default interpretation is a regular expression, as described in vignette("regular-expressions"). Use <code>regex()</code> for finer control of the matching behaviour. Match a fixed string (i.e. by comparing only bytes), using <code>fixed()</code>. This is fast, but approximate. Generally, for matching human text, you'll want <code>coll()</code> which respects character matching rules for the specified locale. Match character, word, line and sentence boundaries with <code>boundary()</code>. An empty pattern, "", is equivalent to <code>boundary("character")</code>.
n	Maximum number of pieces to return. Default (Inf) uses all possible split positions. For <code>str_split()</code>, this determines the maximum length of each element of the output. For <code>str_split_fixed()</code>, this determines the number of columns in the output; if an input is too short, the result will be padded with "".
simplify	A boolean. • FALSE (the default): returns a list of character vectors. • TRUE: returns a character matrix.
i	Element to return. Use a negative value to count from the right hand side.

Value

- `str_split_1()`: a character vector.
- `str_split()`: a list the same length as `string/pattern` containing character vectors.
- `str_split_fixed()`: a character matrix with `n` columns and the same number of rows as the length of `string/pattern`.
- `str_split_i()`: a character vector the same length as `string/pattern`.

See Also

`stringi::stri_split()` for the underlying implementation.

Examples

```
fruits <- c(
  "apples and oranges and pears and bananas",
  "pineapples and mangos and guavas"
)

str_split(fruits, " and ")
str_split(fruits, " and ", simplify = TRUE)

# If you want to split a single string, use `str_split_1`
str_split_1(fruits[[1]], " and ")

# Specify n to restrict the number of possible matches
```

```

str_split(fruits, " and ", n = 3)
str_split(fruits, " and ", n = 2)
# If n greater than number of pieces, no padding occurs
str_split(fruits, " and ", n = 5)

# Use fixed to return a character matrix
str_split_fixed(fruits, " and ", 3)
str_split_fixed(fruits, " and ", 4)

# str_split_i extracts only a single piece from a string
str_split_i(fruits, " and ", 1)
str_split_i(fruits, " and ", 4)
# use a negative number to select from the end
str_split_i(fruits, " and ", -1)

```

str_starts

Detect the presence/absence of a match at the start/end

Description

str_starts() and str_ends() are special cases of [str_detect\(\)](#) that only match at the beginning or end of a string, respectively.

Usage

```
str_starts(string, pattern, negate = FALSE)
```

```
str_ends(string, pattern, negate = FALSE)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern with which the string starts or ends. The default interpretation is a regular expression, as described in stringi::about_search_regex. Control options with regex(). Match a fixed string (i.e. by comparing only bytes), using fixed(). This is fast, but approximate. Generally, for matching human text, you'll want coll() which respects character matching rules for the specified locale.
negate	If TRUE, inverts the resulting boolean vector.

Value

A logical vector.

Examples

```
fruit <- c("apple", "banana", "pear", "pineapple")
str_starts(fruit, "p")
str_starts(fruit, "p", negate = TRUE)
str_ends(fruit, "e")
str_ends(fruit, "e", negate = TRUE)
```

str_sub

*Get and set substrings using their positions***Description**

str_sub() extracts or replaces the elements at a single position in each string. str_sub_all() allows you to extract strings at multiple elements in every string.

Usage

```
str_sub(string, start = 1L, end = -1L)

str_sub(string, start = 1L, end = -1L, omit_na = FALSE) <- value

str_sub_all(string, start = 1L, end = -1L)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
start, end	A pair of integer vectors defining the range of characters to extract (inclusive). Alternatively, instead of a pair of vectors, you can pass a matrix to start. The matrix should have two columns, either labelled start and end, or start and length.
omit_na	Single logical value. If TRUE, missing values in any of the arguments provided will result in an unchanged input.
value	replacement string

Value

- str_sub(): A character vector the same length as string/start/end.
- str_sub_all(): A list the same length as string. Each element is a character vector the same length as start/end.

See Also

The underlying implementation in `stringi::stri_sub()`

Examples

```
hw <- "Hadley Wickham"

str_sub(hw, 1, 6)
str_sub(hw, end = 6)
str_sub(hw, 8, 14)
str_sub(hw, 8)

# Negative indices index from end of string
str_sub(hw, -1)
str_sub(hw, -7)
str_sub(hw, end = -7)

# str_sub() is vectorised by both string and position
str_sub(hw, c(1, 8), c(6, 14))

# if you want to extract multiple positions from multiple strings,
# use str_sub_all()
x <- c("abcde", "ghifgh")
str_sub(x, c(1, 2), c(2, 4))
str_sub_all(x, start = c(1, 2), end = c(2, 4))

# Alternatively, you can pass in a two column matrix, as in the
# output from str_locate_all
pos <- str_locate_all(hw, "[aeio]")[1]
pos
str_sub(hw, pos)

# You can also use `str_sub()` to modify strings:
x <- "BBCDEF"
str_sub(x, 1, 1) <- "A"; x
str_sub(x, -1, -1) <- "K"; x
str_sub(x, -2, -2) <- "GHIJ"; x
str_sub(x, 2, -2) <- ""; x
```

str_subset

Find matching elements

Description

`str_subset()` returns all elements of string where there's at least one match to pattern. It's a wrapper around `x[str_detect(x, pattern)]`, and is equivalent to `grep(pattern, x, value = TRUE)`.

Use [str_extract\(\)](#) to find the location of the match *within* each string.

Usage

```
str_subset(string, pattern, negate = FALSE)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. The default interpretation is a regular expression, as described in vignette("regular-expressions"). Use <code>regex()</code> for finer control of the matching behaviour. Match a fixed string (i.e. by comparing only bytes), using <code>fixed()</code>. This is fast, but approximate. Generally, for matching human text, you'll want <code>coll()</code> which respects character matching rules for the specified locale. Match character, word, line and sentence boundaries with <code>boundary()</code>. An empty pattern, "", is equivalent to <code>boundary("character")</code>.
negate	If TRUE, inverts the resulting boolean vector.

Value

A character vector, usually smaller than `string`.

See Also

`grep()` with argument `value = TRUE`, `stringi::stri_subset()` for the underlying implementation.

Examples

```
fruit <- c("apple", "banana", "pear", "pineapple")
str_subset(fruit, "a")

str_subset(fruit, "^a")
str_subset(fruit, "a$")
str_subset(fruit, "b")
str_subset(fruit, "[aeiou]")

# Elements that don't match
str_subset(fruit, "^p", negate = TRUE)

# Missings never match
str_subset(c("a", NA, "b"), ".")
```

str_trim

Remove whitespace

Description

`str_trim()` removes whitespace from start and end of string; `str_squish()` removes whitespace at the start and end, and replaces all internal whitespace with a single space.

Usage

```
str_trim(string, side = c("both", "left", "right"))

str_squish(string)
```

Arguments

- string Input vector. Either a character vector, or something coercible to one.
- side Side on which to remove whitespace: "left", "right", or "both", the default.

Value

A character vector the same length as string.

See Also

[str_pad\(\)](#) to add whitespace

Examples

```
str_trim(" String with trailing and leading white space\t")
str_trim("\n\nString with trailing and leading white space\n\n")

str_squish(" String with trailing, middle, and leading white space\t")
str_squish("\n\nString with excess, trailing and leading white space\n\n")
```

str_trunc	<i>Truncate a string to maximum width</i>
-----------	---

Description

Truncate a string to a fixed of characters, so that `str_length(str_trunc(x, n))` is always less than or equal to `n`.

Usage

```
str_trunc(string, width, side = c("right", "left", "center"), ellipsis = "...")
```

Arguments

- string Input vector. Either a character vector, or something coercible to one.
- width Maximum width of string.
- side, ellipsis Location and content of ellipsis that indicates content has been removed.

Value

A character vector the same length as string.

See Also

[str_pad\(\)](#) to increase the minimum width of a string.

Examples

```
x <- "This string is moderately long"
rbind(
  str_trunc(x, 20, "right"),
  str_trunc(x, 20, "left"),
  str_trunc(x, 20, "center")
)
```

str_unique	<i>Remove duplicated strings</i>
------------	----------------------------------

Description

`str_unique()` removes duplicated values, with optional control over how duplication is measured.

Usage

```
str_unique(string, locale = "en", ignore_case = FALSE, ...)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
locale	Locale to use for comparisons. See stringi::stri_locale_list() for all possible options. Defaults to "en" (English) to ensure that default behaviour is consistent across platforms.
ignore_case	Ignore case when comparing strings?
...	Other options used to control collation. Passed on to stringi::stri_opts_collator() .

Value

A character vector, usually shorter than `string`.

See Also

[unique\(\)](#), [stringi::stri_unique\(\)](#) which this function wraps.

Examples

```
str_unique(c("a", "b", "c", "b", "a"))

str_unique(c("a", "b", "c", "B", "A"))
str_unique(c("a", "b", "c", "B", "A"), ignore_case = TRUE)

# Use ... to pass additional arguments to stri_unique()
str_unique(c("motley", "mötley", "pinguino", "pingüino"))
str_unique(c("motley", "mötley", "pinguino", "pingüino"), strength = 1)
```

str_view

View strings and matches

Description

str_view() is used to print the underlying representation of a string and to see how a pattern matches.

Matches are surrounded by <> and unusual whitespace (i.e. all whitespace apart from " " and "\n") are surrounded by {}. Where possible, matches and unusual whitespace are coloured blue and NAs red.

Usage

```
str_view(
  string,
  pattern = NULL,
  match = TRUE,
  html = FALSE,
  use_escapes = FALSE
)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. The default interpretation is a regular expression, as described in vignette("regular-expressions"). Use regex() for finer control of the matching behaviour. Match a fixed string (i.e. by comparing only bytes), using fixed(). This is fast, but approximate. Generally, for matching human text, you'll want coll() which respects character matching rules for the specified locale. Match character, word, line and sentence boundaries with boundary(). An empty pattern, "", is equivalent to boundary("character").
match	If pattern is supplied, which elements should be shown? • TRUE, the default, shows only elements that match the pattern. • NA shows all elements.

	• FALSE shows only elements that don't match the pattern.
	If pattern is not supplied, all elements are always shown.
html	Use HTML output? If TRUE will create an HTML widget; if FALSE will style using ANSI escapes.
use_escapes	If TRUE, all non-ASCII characters will be rendered with unicode escapes. This is useful to see exactly what underlying values are stored in the string.

Examples

```
# Show special characters
str_view(c("\\""\\", "\\\\""\\", "fgh", NA, "NA"))

# A non-breaking space looks like a regular space:
nbsp <- "Hi\u00A0you"
nbsp
# But it doesn't behave like one:
str_detect(nbsp, " ")
# So str_view() brings it to your attention with a blue background
str_view(nbsp)

# You can also use escapes to see all non-ASCII characters
str_view(nbsp, use_escapes = TRUE)

# Supply a pattern to see where it matches
str_view(c("abc", "def", "fghi"), "[aeiou]")
str_view(c("abc", "def", "fghi"), "^")
str_view(c("abc", "def", "fghi"), "..")

# By default, only matching strings will be shown
str_view(c("abc", "def", "fghi"), "e")
# but you can show all:
str_view(c("abc", "def", "fghi"), "e", match = NA)
# or just those that don't match:
str_view(c("abc", "def", "fghi"), "e", match = FALSE)
```

str_which	<i>Find matching indices</i>
-----------	------------------------------

Description

str_which() returns the indices of string where there's at least one match to pattern. It's a wrapper around which(str_detect(x, pattern)), and is equivalent to grep(pattern, x).

Usage

```
str_which(string, pattern, negate = FALSE)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
pattern	Pattern to look for. The default interpretation is a regular expression, as described in vignette("regular-expressions"). Use <code>regex()</code> for finer control of the matching behaviour. Match a fixed string (i.e. by comparing only bytes), using <code>fixed()</code> . This is fast, but approximate. Generally, for matching human text, you'll want <code>coll()</code> which respects character matching rules for the specified locale. Match character, word, line and sentence boundaries with <code>boundary()</code> . An empty pattern, "", is equivalent to <code>boundary("character")</code> .
negate	If TRUE, inverts the resulting boolean vector.

Value

An integer vector, usually smaller than string.

Examples

```
fruit <- c("apple", "banana", "pear", "pineapple")
str_which(fruit, "a")

# Elements that don't match
str_which(fruit, "^p", negate = TRUE)

# Missings never match
str_which(c("a", NA, "b"), ".")
```

str_wrap

Wrap words into nicely formatted paragraphs

Description

Wrap words into paragraphs, minimizing the "raggedness" of the lines (i.e. the variation in length line) using the Knuth-Plass algorithm.

Usage

```
str_wrap(string, width = 80, indent = 0, exdent = 0, whitespace_only = TRUE)
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
width	Positive integer giving target line width (in number of characters). A width less than or equal to 1 will put each word on its own line.
indent, exdent	A non-negative integer giving the indent for the first line (indent) and all subsequent lines (exdent).

whitespace_only

A boolean.

- If TRUE (the default) wrapping will only occur at whitespace.
- If FALSE, can break on any non-word character (e.g. /, -).

Value

A character vector the same length as string.

See Also

`stringi::stri_wrap()` for the underlying implementation.

Examples

```
thanks_path <- file.path(R.home("doc"), "THANKS")
thanks <- str_c(readLines(thanks_path), collapse = "\n")
thanks <- word(thanks, 1, 3, fixed("\n\n"))
cat(str_wrap(thanks), "\n")
cat(str_wrap(thanks, width = 40), "\n")
cat(str_wrap(thanks, width = 60, indent = 2), "\n")
cat(str_wrap(thanks, width = 60, exdent = 2), "\n")
cat(str_wrap(thanks, width = 0, exdent = 2), "\n")
```

word

Extract words from a sentence

Description

Extract words from a sentence

Usage

```
word(string, start = 1L, end = start, sep = fixed(" "))
```

Arguments

string	Input vector. Either a character vector, or something coercible to one.
start, end	Pair of integer vectors giving range of words (inclusive) to extract. If negative, counts backwards from the last word. The default value select the first word.
sep	Separator between words. Defaults to single space.

Value

A character vector with the same length as string/start/end.

Examples

```
sentences <- c("Jane saw a cat", "Jane sat down")
word(sentences, 1)
word(sentences, 2)
word(sentences, -1)
word(sentences, 2, -1)
```

```
# Also vectorised over start and end
word(sentences[1], 1:3, -1)
word(sentences[1], 1, 1:4)
```

```
# Can define words by other separators
str <- 'abc.def..123.4568.999'
word(str, 1, sep = fixed('..'))
word(str, 2, sep = fixed('..'))
```

Index

* datasets

- stringr-data, 6
- boundary (modifiers), 4
- boundary(), 9, 10, 13, 19, 24, 27, 31, 34, 36
- case, 2
- coll (modifiers), 4
- coll(), 9, 10, 13, 19, 24, 27, 28, 31, 34, 36
- dplyr::coalesce(), 7
- emptyenv(), 16
- fixed (modifiers), 4
- fixed(), 9, 10, 12, 13, 19, 24, 27, 28, 31, 34, 36
- fruit (stringr-data), 6
- glue::glue(), 15
- glue::glue_data(), 15
- grep(), 31
- invert_match, 4
- modifiers, 4
- paste0(), 7
- regex (modifiers), 4
- regex(), 9, 10, 13, 19, 23, 24, 27, 28, 31, 34, 36
- sentences (stringr-data), 6
- str_c, 7
- str_conv, 8
- str_count, 9
- str_detect, 10
- str_detect(), 28
- str_dup, 11
- str_ends (str_starts), 28
- str_equal, 11

- str_escape, 12
- str_extract, 13
- str_extract(), 19, 20, 30
- str_extract_all (str_extract), 13
- str_flatten, 14
- str_flatten(), 7
- str_flatten_comma (str_flatten), 14
- str_glue, 15
- str_glue_data (str_glue), 15
- str_length, 16
- str_length(), 23
- str_like, 17
- str_locate, 18
- str_locate(), 9
- str_locate_all (str_locate), 18
- str_locate_all(), 4, 9
- str_match, 19
- str_match(), 13
- str_match_all (str_match), 19
- str_order, 21
- str_pad, 22
- str_pad(), 32, 33
- str_rank (str_order), 21
- str_remove, 23
- str_remove_all (str_remove), 23
- str_replace, 24
- str_replace(), 24
- str_replace_all (str_replace), 24
- str_replace_na, 25
- str_replace_na(), 7, 25
- str_sort (str_order), 21
- str_split, 26
- str_split_1 (str_split), 26
- str_split_fixed (str_split), 26
- str_split_i (str_split), 26
- str_squish (str_trim), 31
- str_starts, 28
- str_sub, 29
- str_sub(), 16

`str_sub<-` (`str_sub`), 29
`str_sub_all` (`str_sub`), 29
`str_subset`, 30
`str_subset()`, 10
`str_to_lower` (`case`), 2
`str_to_sentence` (`case`), 2
`str_to_title` (`case`), 2
`str_to_upper` (`case`), 2
`str_trim`, 31
`str_trim()`, 23
`str_trunc`, 32
`str_trunc()`, 23
`str_unique`, 33
`str_view`, 34
`str_view_all` (`str_view`), 34
`str_which`, 35
`str_width` (`str_length`), 16
`str_width()`, 23
`str_wrap`, 36
`stringi::about_search_regex`, 24, 28
`stringi::stri_cmp_equiv()`, 12
`stringi::stri_count()`, 9
`stringi::stri_detect()`, 10
`stringi::stri_enc_list()`, 8
`stringi::stri_extract()`, 13
`stringi::stri_length()`, 17
`stringi::stri_locale_list()`, 3, 5, 11, 21, 33
`stringi::stri_locate()`, 19
`stringi::stri_match()`, 20
`stringi::stri_opts_brkiter()`, 5
`stringi::stri_opts_collator()`, 5, 11, 21, 33
`stringi::stri_opts_regex()`, 5
`stringi::stri_order()`, 22
`stringi::stri_replace()`, 25
`stringi::stri_split()`, 27
`stringi::stri_sub()`, 29
`stringi::stri_subset()`, 31
`stringi::stri_unique()`, 33
`stringi::stri_wrap()`, 37
`stringr-data`, 6

`unique()`, 33

`word`, 37
`words` (`stringr-data`), 6