Package 'textTools'

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Type Package

Title Functions for Text Cleansing and Text Analysis

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Description A framework for text cleansing and analysis. Conveniently prepare and process large amounts of text for analysis.
Includes various metrics for word counts/frequencies that scale efficiently. Quickly analyze large amounts of text data using a text.table (a data.table created with one word (or unit of text analysis) per row, similar to the tidytext format).
Offers flexibility to efficiently work with text data stored in vectors as well as text data format-

License GPL (>= 2) Encoding UTF-8

ted as a text.table.

LazyData true

Depends R (\geq 3.5.0), data.table

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R topics documented:

as.text.table	3
flag_words	4
abel_parts_of_speech	5
_pos	6
ngrams	6
208	7
regex_paragraph	8
egex_sentence	8

regex_word	9
rm_frequent_words	9
rm_infrequent_words	10
rm_long_words	12
rm_no_overlap	13
rm_overlap	14
rm_parts_of_speech	15
rm_regexp_match	16
rm_short_words	17
rm_words	18
sampleStr	19
stopwords	20
str_any_match	20
str_counts	21
str_count_intersect	22
str_count_jaccard_similarity	22
str_count_match	23
str_count_nomatch	24
str_count_positional_match	24
str_count_positional_nomatch	25
str_count_setdiff	26
str_dt_col_combine	26
str_extract_match	27
str_extract_nomatch	28
str_extract_positional_match	28
str_extract_positional_nomatch	29
str_rm_blank_space	30
str_rm_long_words	30
str_rm_non_alphanumeric	31
str_rm_non_printable	31
str_rm_numbers	32
str_rm_punctuation	
str_rm_regexp_match	33
	33
str_rm_words	34
str_rm_words_by_length	35
str_stopwords_by_part_of_speech	35
str_tolower	36
str_weighted_count_match	37

Index

38

as.text.table Convert a data.table column of character vectors into a column with one row per word grouped by a grouping column. Optionally will split a column of strings into vectors of constituents.

Description

Convert a data.table column of character vectors into a column with one row per word grouped by a grouping column. Optionally will split a column of strings into vectors of constituents.

Usage

```
as.text.table(x, text, split = NULL, group_by = NULL)
```

Arguments

x	A data.table.
text	A string, the name of the column in x containing text to un-nest.
split	A string with a pattern to split the text in text column into constituent parts.
group_by	A vector of column names to group by. Doesn't work if the group by column is a list column.

Value

A data.table, text column un-nested to one row per word.

```
as.text.table(
 x = as.data.table(
   list(
      col1 = c(
        "a",
        "b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
   )
 ),
 text = "col2",
 split = " "
)
```

flag_words

Description

Flag rows in a text.table with specific words

Usage

flag_words(x, text, flag = "flag", words)

Arguments

х	A text.table created by as.text.table().
text	A string, the name of the column in x to check for words to flag.
flag	A string, the name of the column created with the flag indicator.
words	A vector of words to flag x.

Value

A text.table, with rows marked with a 1 if the words in those rows are in the vector of words to delete, otherwise 0.

```
flag_words(
as.text.table(
  x = as.data.table(
   list(
      col1 = c(
        "a",
        "b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
   )
  ),
  text = "col2",
  split = " "
),
text = "col2",
flag = "is_stopword",
words = stopwords
)
```

label_parts_of_speech Add a column with the parts of speech for each word in a text.table

Description

Add a column with the parts of speech for each word in a text.table

Usage

```
label_parts_of_speech(x, text)
```

Arguments

х	A text.table created by as.text.table().
text	A string, the name of the column in x to label the parts of speech.

Value

A text.table, with columns added for the matching part of speech and for flagging if the part of speech is for a multi-word phrase.

```
label_parts_of_speech(
as.text.table(
  x = as.data.table(
   list(
      col1 = c(
        "a",
        "b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
   )
  ),
  text = "col2",
  split = " "
),
text = "col2"
)
```

l_pos

Description

Parts of speech for English words/phrases from the Moby Project by Grady Ward. Words with non-ASCII characters have been removed. One row per word.

Usage

l_pos

Format

Data.table with 227519 rows and 3 variables #'

word Lowercase English word or phrase

pos Lowercase English part of speech, grouped by word into a vector if a word has multiple parts of speech.

multi_word TRUE if the word record has a space (contains multiple words), else FALSE.

Source

https://archive.org/details/mobypartofspeech03203gut

ngrams

Create n-grams

Description

Create n-grams

Usage

```
ngrams(
    x,
    text,
    group_by = c(),
    count_col_name = "count",
    n,
    ngram_prefix = NULL
)
```

pos

Arguments

x	A text.table created by as.text.table().
text	A string, the name of the column in x to build n-grams with.
group_by	A vector of column names to group by. Doesn't work if the group by column is a list column.
<pre>count_col_name</pre>	A string, the name of the output column containing the number of times each base record appears in the group.
n	A integer, the number of grams to make.
ngram_prefix	A string, a prefix to add to the output n-gram columns.

Value

A text.table, with columns added for n-grams (the word, the count, and percent of the time the gram follows the word).

Examples

```
ngrams(
as.text.table(
  x = as.data.table(
    list(
      col1 = c(
        "a",
        "b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
    )
  ),
  text = "col2",
  split = " "
),
text = "col2",
group_by = "col1",
n = 2
)
```

pos

Parts of speech for English words from the Moby Project.

Description

Parts of speech for English words/phrases from the Moby Project by Grady Ward. Words with non-ASCII characters have been removed. One row per word + part of speech

Usage

pos

Format

Data.table with 246690 rows and 3 variables #'

word Lowercase English word or phrase

pos Lowercase English part of speech, one per row

multi_word TRUE if the word record has a space (contains multiple words), else FALSE.

Source

https://archive.org/details/mobypartofspeech03203gut

regex_paragraph	Regular expression that might be used to split strings of text into com-
	ponent paragraphs.

Description

"\n", A regular expression to split strings when encountering a new line.

Usage

regex_paragraph

Format

A string

regex_sentence	Regular expression that might be used to split strings of text into com-
	ponent sentences.

Description

"[.?!]\s", A regular expression to split strings when encountering a common end of sentence punctuation pattern.

Usage

regex_sentence

Format

A string

 $regex_word$

Regular expression that might be used to split strings of text into component words.

Description

"", A regular expression to split strings when encountering a space.

Usage

regex_word

Format

A string

<pre>rm_frequent_words</pre>	Delete rows in a text.table where the number of identical records
	within a group is more than a certain threshold

Description

Delete rows in a text.table where the number of identical records within a group is more than a certain threshold

Usage

```
rm_frequent_words(
    x,
    text,
    count_col_name = NULL,
    group_by = c(),
    max_count,
    max_count_is_ratio = FALSE,
    total_count_col = NULL
)
```

Arguments

х	A text.table created by as.text.table().
text	A string, the name of the column in x used to determine deletion of rows based on the term frequency.
<pre>count_col_name</pre>	A string, the name to assign to the new column containing the count of each word. If NULL, does not return the counts.

group_by	A vector of column names to group by. Doesn't work if the group by column is a list column.
max_count	A number, the maximum number of times a word can occur to keep.
<pre>max_count_is_ra</pre>	tio
	TRUE/FALSE, if TRUE, implies the value passed to max_count should be con- sidered a ratio.
<pre>total_count_col</pre>	
	Name of the column containing the denominator (likely total count of records within a group) to use to calculate the ratio of a word count vs total if max_count_is_ratio is TRUE.

Value

A text.table, with rows having a duplicate count over a certain threshold deleted.

Examples

```
rm_frequent_words(
as.text.table(
  x = as.data.table(
   list(
      col1 = c(
        "a",
        "b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
   )
  ),
  text = "col2",
  split = " "
),
text = "col2",
count_col_name = "count",
max_count = 1
)
```

rm_infrequent_words Delete rows in a text.table where the number of identical records within a group is less than a certain threshold

Description

Delete rows in a text.table where the number of identical records within a group is less than a certain threshold

rm_infrequent_words

Usage

```
rm_infrequent_words(
    x,
    text,
    count_col_name = NULL,
    group_by = c(),
    min_count,
    min_count_is_ratio = FALSE,
    total_count_col = NULL
)
```

Arguments

х	A text.table created by as.text.table().	
text	A string, the name of the column in x used to determine deletion of rows based on the term frequency.	
count_col_name	A string, the name to assign to the new column containing the count of each word. If NULL, does not return the counts.	
group_by	A vector of column names to group by. Doesn't work if the group by column is a list column.	
min_count	A number, the minimum number of times a word must occur to keep.	
<pre>min_count_is_ratio</pre>		
	TRUE/FALSE, if TRUE, implies the value passed to min_count should be con- sidered a ratio.	
total_count_col		
	Name of the column containing the denominator (likely total count of records	

Value

A text.table, with rows having a duplicate count of less than a certain threshold deleted.

```
rm_infrequent_words(
as.text.table(
    x = as.data.table(
        list(
            col1 = c(
                "a",
               "b"
        ),
            col2 = c(
            tolower("The dog is nice because it picked up the newspaper."),
            tolower("The dog is extremely nice because it does the dishes.")
        )
      )
```

```
),
  text = "col2",
  split = " "
),
text = "col2",
count_col_name = "count",
min_count = 4
)
rm_infrequent_words(
as.text.table(
  x = as.data.table(
    list(
      col1 = c(
        "a",
"b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the
        newspaper and it is the nice kind of dog."),
        tolower("The dog is extremely nice because it does the dishes
        and it is cool.")
      )
   )
  ),
  text = "col2",
  split = " "
),
text = "col2",
count_col_name = "count",
group_by = "col1",
min_count = 2
)
```

```
rm_long_words
```

Delete rows in a text.table where the word has more than a minimum number of characters

Description

Delete rows in a text.table where the word has more than a minimum number of characters

Usage

rm_long_words(x, text, max_char_length)

Arguments

х

A text.table created by as.text.table().

12

rm_no_overlap

text A string, the name of the column in x used to determine deletion of rows based on the number of characters. max_char_length

A number, the maximum number of characters allowed to not delete a row.

Value

A text.table, with rows having more than a certain number of characters deleted.

Examples

```
rm_long_words(
as.text.table(
 x = as.data.table(
   list(
      col1 = c(
        "a",
        "b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
   )
 ),
 text = "col2",
 split = " "
),
text = "col2",
max_char_length = 4
)
```

rm_no_overlap

Delete rows in a text.table where the records within a group are not also found in other groups (overlapping records)

Description

Delete rows in a text.table where the records within a group are not also found in other groups (overlapping records)

Usage

rm_no_overlap(x, text, group_by = c())

x	A text.table created by as.text.table().
text	A string, the name of the column in x to determine deletion of rows based on the lack of presence of overlapping records.
group_by	A vector of column names to group by. Doesn't work if the group by column is a list column.

Value

A text.table, with rows not having records found in multiple groups (overlapping records) deleted.

Examples

```
rm_no_overlap(
as.text.table(
  x = as.data.table(
    list(
      col1 = c(
        "a",
"b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
    )
  ),
  text = "col2",
  split = " "
),
text = "col2",
group_by = "col1"
)
```

rm	_overl	ap
· · ···_	_0,01,1	- 42

Delete rows in a text.table where the records within a group are also found in other groups (overlapping records)

Description

Delete rows in a text.table where the records within a group are also found in other groups (overlapping records)

Usage

```
rm_overlap(x, text, group_by = c())
```

x	A text.table created by as.text.table().
text	A string, the name of the column in x to determine deletion of rows based on the presence of overlapping records.
group_by	A vector of column names to group by. Doesn't work if the group by column is a list column.

Value

A text.table, with rows having records found in multiple groups (overlapping records) deleted.

Examples

```
rm_overlap(
as.text.table(
  x = as.data.table(
   list(
      col1 = c(
        "a",
        "b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
   )
  ),
  text = "col2",
  split = " "
),
text = "col2",
group_by = "col1"
)
```

rm_parts_of_speech Delete rows in a text.table where the word has a certain part of speech

Description

Delete rows in a text.table where the word has a certain part of speech

Usage

```
rm_parts_of_speech(
    x,
    text,
    pos_delete = c("adjective", "adverb", "conjunction", "definite article",
        "interjection", "noun", "noun phrase", "plural", "preposition", "pronoun",
        "verb (intransitive)", "verb (transitive)", "verb (usu participle)")
)
```

х	A text.table created by as.text.table().
text	A string, the name of the column in x used to determine deletion of rows based on the part of speech.
pos_delete	A vector of parts of speech to delete. At least one of the following: 'adjective', 'adverb', 'conjunction', 'definite article', 'interjection', 'noun', 'noun phrase', 'plural', 'preposition', 'pronoun', 'verb (intransitive)', 'verb (transitive)', 'verb (usu participle)'

Value

A text.table, with rows matching a part of speech deleted.

Examples

```
rm_parts_of_speech(
as.text.table(
  x = as.data.table(
   list(
      col1 = c(
       "a",
"b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
   )
  ),
  text = "col2",
  split = " "
),
text = "col2",
pos_delete = "conjunction"
)
```

rm_regexp_match	Delete rows in a text.table where the record has a certain pattern in-
	dicated by a regular expression

Description

Delete rows in a text.table where the record has a certain pattern indicated by a regular expression

Usage

rm_regexp_match(x, text, pattern)

rm_short_words

Arguments

x	A text.table created by as.text.table().
text	A string, the name of the column in x used to determine deletion of rows based on the regular expression.
pattern	A regular expression, gets passed to grepl().

Value

A text.table, with rows having a certain pattern indicated by a regular expression deleted.

Examples

```
rm_regexp_match(
as.text.table(
 x = as.data.table(
   list(
      col1 = c(
        "a",
        "b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
   )
  ),
  text = "col2",
  split = " "
),
text = "col2",
pattern = "do"
)
```

rm_short_words	Delete rows in a text.table where the word has less than a minimum
	number of characters

Description

Delete rows in a text.table where the word has less than a minimum number of characters

Usage

rm_short_words(x, text, min_char_length)

х	A text.table created by as.text.table().	
text	A string, the name of the column in x used to determine deletion of rows based	
	on the number of characters.	
<pre>min_char_length</pre>	1	

A number, the minimum number of characters required to not delete a row.

Value

A text.table, with rows having less than a certain number of characters deleted.

Examples

```
rm_short_words(
as.text.table(
  x = as.data.table(
   list(
      col1 = c(
        "a",
        "b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
   )
  ),
  text = "col2",
  split = " "
),
text = "col2",
min_char_length = 4
)
```

rm_words

Remove rows from a text.table with specific words

Description

Remove rows from a text.table with specific words

Usage

rm_words(x, text, words = stopwords)

Arguments

Х	A text.table created by as.text.table().
text	A string, the name of the column in x to check for words to delete.
words	A vector of words to delete from x.

sampleStr

Value

A text.table, with rows deleted if the words in those rows are in the vector of words to delete.

Examples

```
rm_words(
as.text.table(
  x = as.data.table(
   list(
      col1 = c(
       "a",
        "b"
      ),
      col2 = c(
        tolower("The dog is nice because it picked up the newspaper."),
        tolower("The dog is extremely nice because it does the dishes.")
      )
   )
  ),
  text = "col2",
 split = " "
),
text = "col2"
)
```

Ge

```
Generates (pseudo)random strings of the specified char length
```

Description

Generates (pseudo)random strings of the specified char length

Usage

```
sampleStr(char)
```

Arguments

char A integer, the number of chars to include in the output string.

Value

A string.

Examples

sampleStr(10)

stopwords

Description

Unique lowercase English stop words from 3 lexicons combined into one vector. Combines snowball, onix, and SMART lists of stopwords.

Usage

stopwords

Format

A vector of 728 unique English stop words in lowercase

Source

```
http://snowball.tartarus.org/algorithms/english/stop.txt
http://www.lextek.com/manuals/onix/stopwords1.html
http://www.lextek.com/manuals/onix/stopwords2.html
```

str_any_match Detect if there are any words in a vector also found in another vector.

Description

Detect if there are any words in a vector also found in another vector.

Usage

str_any_match(x, y)

Arguments

x	A vector of words.
У	A vector of words to test against.

Value

TRUE/FALSE, TRUE if any words in x are also in y

str_counts

Examples

```
str_any_match(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("the")
)
str_any_match(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("apple")
)
```

str_counts	Create a list of a vector of unique words found in x and a vector of the
	counts of each word in x.

Description

Create a list of a vector of unique words found in x and a vector of the counts of each word in x.

Usage

```
str_counts(x)
```

Arguments

x A vector of words.

Value

A list, position one is a vector of unique and sorted words from x, position two is a vector of the counts for each word.

```
str_counts(
x = c("a", "dog", "went", "to", "the", "store", "and", "a", "dog", "went", "to", "another", "store")
)
```

str_count_intersect

Description

Count the intersecting words in a vector that are found in another vector (only counts unique words).

Usage

```
str_count_intersect(x, y)
```

Arguments

х	A vector of words.
У	A vector of words to test against.

Value

A number, the count of unique words in x also in y

Examples

```
str_count_intersect(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("dog", "to", "store")
)
```

str_count_jaccard_similarity

Calculates the intersect divided by union of two vectors of words.

Description

Calculates the intersect divided by union of two vectors of words.

Usage

str_count_jaccard_similarity(x, y)

Arguments

x	A vector of words.
У	A vector of words to test against.

str_count_match

Value

A number, the intersect divided by union of two vectors of words.

Examples

```
str_count_jaccard_similarity(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("this", "dog", "went", "to", "the", "store")
)
```

str_count_match Count the words in a vector that are found in another vector.

Description

Count the words in a vector that are found in another vector.

Usage

str_count_match(x, y, ratio = FALSE)

Arguments

х	A vector of words.
У	A vector of words to test against.
ratio	TRUE/FALSE, if TRUE, returns the number of words in x with a match in y divided by the number of words in x.

Value

A number, the count of words in x also in y

```
str_count_match(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("dog", "to", "store")
)
str_count_match(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("dog", "to", "store"),
ratio = TRUE
)
```

str_count_nomatch *Count the words in a vector that are not found in another vector.*

Description

Count the words in a vector that are not found in another vector.

Usage

```
str_count_nomatch(x, y, ratio = FALSE)
```

Arguments

х	A vector of words.
У	A vector of words to test against.
ratio	TRUE/FALSE, if TRUE, returns the number of words in x without a match in y
	divided by the number of words in x.

Value

A number, the count of words in x and not in y

Examples

```
str_count_nomatch(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("dog", "to", "store")
)
str_count_nomatch(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("dog", "store"),
ratio = TRUE
)
```

str_count_positional_match

Count words from a vector that are found in the same position in another vector.

Description

Count words from a vector that are found in the same position in another vector.

Usage

```
str_count_positional_match(x, y, ratio = FALSE)
```

x	A vector of words.
у	A vector of words to test against.
ratio	TRUE/FALSE, if TRUE, returns the number of words in x with a positional match in y divided by the number of words in x.

Value

A count of the words in x with matches in the same position in y.

Examples

```
str_count_positional_match(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("this", "dog", "ran", "from", "the", "store")
)
```

```
str_count_positional_nomatch
```

Count words from a vector that are not found in the same position in another vector.

Description

Count words from a vector that are not found in the same position in another vector.

Usage

```
str_count_positional_nomatch(x, y, ratio = FALSE)
```

Arguments

х	A vector of words.
У	A vector of words to test against.
ratio	TRUE/FALSE, if TRUE, returns the number of words in x without a positional
	match in y divided by the number of words in x.

Value

A count of the words in x without matches in the same position in y.

```
str_count_positional_nomatch(
x = c("a", "cool", "dog", "went", "to", "the", "store"),
y = c("a", "dog", "ran", "from", "the", "store")
)
```

str_count_setdiff

Description

Count the words in a vector that don't intersect with another vector (only counts unique words).

Usage

```
str_count_setdiff(x, y)
```

Arguments

х	A vector of words.
У	A vector of words to test against.

Value

A number, the count of unique words in x not also in y

Examples

```
str_count_setdiff(
x = c("a", "dog", "dog", "went", "to", "the", "store"),
y = c("dog", "to", "store")
)
```

str_dt_col_combine Combine columns of a data.table into a list in a new column, wraps
list(unlist(c(...)))

Description

Combine columns of a data.table into a list in a new column, wraps list(unlist(c(...)))

Usage

str_dt_col_combine(...)

Arguments

... Unquoted column names of a data.table.

Value

A list, with columns combined into a vector if grouped properly

str_extract_match

Examples

```
as.data.table(
list(
  col1 = c(
    "a",
    "b"
  ),
  col2 = c(
    tolower("The dog is nice because it picked up the newspaper."),
    tolower("The dog is extremely nice because it does the dishes.")
  ),
  col3 = c(
    "test 1",
    "test 2"
  )
)
)[, col4 := .(str_dt_col_combine(col2, col3)), col1]
```

str_extract_match *Extract words from a vector that are found in another vector.*

Description

Extract words from a vector that are found in another vector.

Usage

str_extract_match(x, y)

Arguments

х	A vector of words.
У	A vector of words to test against.

Value

x, with the words not found in y removed.

```
str_extract_match(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("dog", "to", "store")
)
```

Extract words from a vector that are not found in another vector. str_extract_nomatch

Description

Extract words from a vector that are not found in another vector.

Usage

```
str_extract_nomatch(x, y)
```

Arguments

х	A vector of words.
у	A vector of words to test against.

Value

x, with the words found in y removed.

Examples

```
str_extract_nomatch(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("dog", "to", "store")
)
```

```
str_extract_positional_match
```

Extract words from a vector that are found in the same position in another vector.

Description

Extract words from a vector that are found in the same position in another vector.

Usage

str_extract_positional_match(x, y)

Arguments

х	A vector of words.
У	A vector of words to test against.

Value

x, with the words without matches in the same position in y removed.

Examples

```
str_extract_positional_match(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("this", "dog", "ran", "from", "the", "store")
)
```

str_extract_positional_nomatch

Extract words from a vector that are not found in the same position in another vector.

Description

Extract words from a vector that are not found in the same position in another vector.

Usage

str_extract_positional_nomatch(x, y)

Arguments

х	A vector of words.
у	A vector of words to test against.

Value

x, with the words with matches found in the same position in y removed.

```
str_extract_positional_nomatch(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("a", "crazy", "dog", "ran", "from", "the", "store")
)
```

str_rm_blank_space *Remove and replace excess white space from strings.*

Description

Remove and replace excess white space from strings.

Usage

```
str_rm_blank_space(x, replacement = " ")
```

Arguments

Х	A vector or string.
replacement,	A string to replace the blank space with, defaults to " ", which replaces excess
	space with a single space.

Value

x, with extra white space removed/replaced.

Examples

```
str_rm_blank_space(c("this is a test. ", " will it work? "))
```

str_rm_long_words	Remove words from a vector that have more than a maximum number
	of characters.

Description

Remove words from a vector that have more than a maximum number of characters.

Usage

```
str_rm_long_words(x, max_char_length)
```

Arguments

```
x A vector of words.
max_char_length,
```

An integer, the maximum number of characters a word can have to not be removed.

Value

x, with the words not having a character count less than or equal to the max_char_length removed.

str_rm_non_alphanumeric

Examples

```
str_rm_long_words(
x = c("a", "dog", "went", "to", "the", "store"),
max_char_length = 2
)
```

str_rm_non_alphanumeric

Remove and replace non-alphanumeric characters from strings.

Description

Remove and replace non-alphanumeric characters from strings.

Usage

```
str_rm_non_alphanumeric(x, replacement = " ")
```

Arguments

х	A vector or string.
replacement,	A string to replace the numbers with, defaults to " ".

Value

x, with non-alphanumeric (A-z, 0-9) characters removed/replaced.

Examples

str_rm_non_alphanumeric(c("test 67890 * % \$ "))

str_rm_non_printable Remove and replace non-printable characters from strings.

Description

Remove and replace non-printable characters from strings.

Usage

```
str_rm_non_printable(x, replacement = " ")
```

Arguments

x	A vector or string.
replacement,	A string to replace the numbers with, defaults to " ".

Value

x, with non-printable characters removed/replaced.

Examples

```
str_rm_non_printable(c("test \n\nh67890 * % $ "))
```

str_rm_numbers *Remove and replace numbers from strings.*

Description

Remove and replace numbers from strings.

Usage

```
str_rm_numbers(x, replacement = "")
```

Arguments

х	A vector or string.
replacement,	A string to replace the numbers with, defaults to "".

Value

x, with numbers 0-9 removed/replaced.

Examples

```
str_rm_numbers(c("test 1a234b5", "test 67890"))
```

str_rm_punctuation Remove and replace punctuation from strings.

Description

Remove and replace punctuation from strings.

Usage

```
str_rm_punctuation(x, replacement = "")
```

Arguments

х	A vector or string.
replacement,	A string to replace the punctuation with, defaults to "".

32

Value

x, with punctuation removed/replaced.

Examples

```
str_rm_punctuation(c("wait, is this is a test?", "Tests: . ! ?"))
```

str_rm_regexp_match Remove words from a vector that match a regular expression.

Description

Remove words from a vector that match a regular expression.

Usage

str_rm_regexp_match(x, pattern)

Arguments

х	A vector of words.
pattern,	A regular expression.

Value

x, with the words matching the regular expression removed.

Examples

```
str_rm_regexp_match(
x = c("a", "dog", "went", "to", "the", "store"),
pattern = "to"
)
```

<pre>str_rm_short_words</pre>	Remove words from a vector that don't have a minimum number of
	characters.

Description

Remove words from a vector that don't have a minimum number of characters.

Usage

str_rm_short_words(x, min_char_length)

x A vector of words.
min_char_length,

An integer, the minimum number of characters a word can have to not be removed.

Value

x, with the words not having a character count greater than or equal to the min_char_length removed.

Examples

```
str_rm_short_words(
x = c("a", "dog", "went", "to", "the", "store"),
min_char_length = 3
)
```

str_rm_words	Remove words from a vector of words found in another vector of
	words.

Description

Remove words from a vector of words found in another vector of words.

Usage

str_rm_words(x, y = stopwords)

Arguments

Х	A vector of words.
у,	A vector of words to delete from x, defaults to English stop words.

Value

x, with the words found in y removed.

Examples

```
str_rm_words(
x = c("a", "dog", "went", "to", "the", "store"),
y = stopwords
)
str_rm_words(
x = c("a", "dog", "went", "to", "the", "store"),
y = c("dog", "store")
)
```

34

str_rm_words_by_length

Remove words from a vector based on the number of characters in each word.

Description

Remove words from a vector based on the number of characters in each word.

Usage

```
str_rm_words_by_length(x, min_char_length = 0, max_char_length = Inf)
```

Arguments ×

A vector of words.

min_char_length,

An integer, the minimum number of characters a word can have to not be removed.

max_char_length,

An integer, the maximum number of characters a word can have to not be removed.

Value

x, with the words not having a character count of at least the min_char_length and at most the max_char_length removed.

Examples

```
str_rm_words_by_length(
x = c("a", "dog", "went", "to", "the", "store"),
min_char_length = 3
)
```

str_stopwords_by_part_of_speech

Create a vector of English words associated with particular parts of speech.

Description

Create a vector of English words associated with particular parts of speech.

Usage

```
str_stopwords_by_part_of_speech(
  parts = c("adjective", "adverb", "conjunction", "definite article", "interjection",
    "noun", "noun phrase", "plural", "preposition", "pronoun", "verb (intransitive)",
    "verb (transitive)", "verb (usu participle)"),
    include_multi_word = FALSE
)
```

Arguments

parts	A vector, at least one of the following: 'adjective', 'adverb', 'conjunction', 'def-
	inite article', 'interjection', 'noun', 'noun phrase', 'plural', 'preposition', 'pro-
	noun', 'verb (intransitive)', 'verb (transitive)', 'verb (usu participle)'

include_multi_word

TRUE/FALSE, if TRUE, includes records from the pos data.table where multi_word == TRUE, otherwise excludes these records.

Value

A vector of words matching the part of speech shown in the data.table pos.

Examples

str_stopwords_by_part_of_speech('adjective')

str_tolower	Calls base::tolower(), which converts letters to lowercase. Only in-
	cluded to point out that base::tolower exists and should be used di-
	rectly.

Description

Calls base::tolower(), which converts letters to lowercase. Only included to point out that base::tolower exists and should be used directly.

Usage

str_tolower(x)

Arguments

x A vector or string.

Value

x, converted to lowercase.

36

Examples

str_tolower(c("ALLCAPS", "Some capS"))

```
str_weighted_count_match
```

Weighted count of the words in a vector that are found in another vector.

Description

Weighted count of the words in a vector that are found in another vector.

Usage

```
str_weighted_count_match(x, y)
```

Arguments

х	A list of words and counts created by str_counts(x).
У	A list of words and counts created by $str_counts(y)$.

Value

A number, the count of words in x also in y scaled by the number of times each word appears in x and y. If a word appears 3 times in x and 2 times in y, the result is 6, assuming no other words match.

```
str_weighted_count_match(
x = str_counts(c("a", "dog", "dog", "went", "to", "the", "store")),
y = str_counts(c("dog", "dog", "dog"))
)
```

Index

* datasets 1_pos, 6 pos, 7 regex_paragraph, 8 regex_sentence, 8 regex_word, 9 stopwords, 20 as.text.table, 3 flag_words, 4 1_pos, 6 label_parts_of_speech, 5 ngrams, 6 pos, 7 regex_paragraph, 8 regex_sentence, 8 regex_word, 9 rm_frequent_words, 9 rm_infrequent_words, 10 rm_long_words, 12 rm_no_overlap, 13 rm_overlap, 14 rm_parts_of_speech, 15 rm_regexp_match, 16 rm_short_words, 17 rm_words, 18 sampleStr, 19 stopwords, 20str_any_match, 20 str_count_intersect, 22 str_count_jaccard_similarity, 22 str_count_match, 23 str_count_nomatch, 24 str_count_positional_match, 24 str_count_positional_nomatch, 25 str_count_setdiff, 26 str_counts, 21 str_dt_col_combine, 26 str_extract_match, 27 str_extract_nomatch, 28 str_extract_positional_match, 28 str_extract_positional_nomatch, 29 str_rm_blank_space, 30 str_rm_long_words, 30 str_rm_non_alphanumeric, 31 str_rm_non_printable, 31 str_rm_numbers, 32 str_rm_punctuation, 32 str_rm_regexp_match, 33 str_rm_short_words, 33 str_rm_words, 34 str_rm_words_by_length, 35 str_stopwords_by_part_of_speech, 35 str_tolower, 36 str_weighted_count_match, 37