# Package 'R.temis'

October 12, 2022

Type Package

Title Integrated Text Mining Solution

Version 0.1.3

**Imports** stats, utils, graphics, testthat, wordcloud, igraph, stringi, crayon, SnowballC, tm.plugin.factiva, tm.plugin.lexisnexis, tm.plugin.europresse, tm.plugin.alceste

**Depends** tm (>= 0.6), NLP, slam, FactoMineR, explor

**Description** An integrated solution to perform

a series of text mining tasks such as importing and cleaning a corpus, and analyses like terms and documents counts, lexical summary, terms co-occurrences and documents similarity measures, graphs of terms, correspondence analysis and hierarchical clustering. Corpora can be imported from spreadsheet-like files, directories of raw text files, as well as from 'Dow Jones Factiva', 'LexisNexis', 'Europresse' and 'Alceste' files.

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**Encoding** UTF-8

RoxygenNote 7.1.1

URL https://github.com/nalimilan/R.TeMiS

BugReports https://github.com/nalimilan/R.TeMiS/issues

NeedsCompilation no

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Repository CRAN

**Date/Publication** 2021-05-12 19:02:12 UTC

2 add\_clusters

# **R** topics documented:

Index		23
	word_cloud	22
	term_freq	
	terms_graph	
	subset_corpus	
	•	
	split_documents	
	specific_terms	
	set_corpus_variables	
	lexical_summary	
	import_corpus	
	frequent_terms	
	extreme_docs	
	dictionary	
	corpus_clustering	
	corpus_ca	
	cooc_terms	
	contributive_docs	
	combine_terms	5 6
	characteristic_docs	4
	build_dtm	
	add_clusters	
	add clusters	- 7

add\_clusters add\_clusters

# Description

Add a meta-data variable to a corpus indicating the cluster to which each document belongs.

# Usage

```
add_clusters(corpus, clust)
```

# Arguments

corpus A Corpus object.

clust A HCPC object resulting from a call to corpus\_clustering.

#### Value

A Corpus object with meta(corpus, "cluster") indicating the cluster of each document.

build\_dtm 3

#### **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
res <- corpus_ca(corpus, dtm, ncp=2, sparsity=0.98)
clust <- corpus_clustering(res, 3)
corpus <- add_clusters(corpus, clust)
meta(corpus)</pre>
```

build\_dtm

build dtm

## **Description**

Compute document-term matrix from a corpus.

## Usage

```
build_dtm(
  corpus,
  sparsity = 1,
  dictionary = NULL,
  remove_stopwords = FALSE,
  tolower = TRUE,
  remove_punctuation = TRUE,
  remove_numbers = TRUE,
  min_length = 2
)
```

# **Arguments**

corpus A Corpus object.

sparsity Value between 0 and 1 indicating the proportion of documents with no occur-

rences of a term above which that term should be dropped. By default all terms

are kept (sparsity=1).

dictionary A vector of terms to which the matrix should be restricted. By default, all words

with more than min\_length characters are considered.

remove\_stopwords

Whether to remove stopwords appearing in a language-specific list (see tm::stopwords).

tolower Whether to convert all text to lower case.

remove\_punctuation

Whether to remove all punctuation from text before tokenizing terms.

remove\_numbers Whether to remove all numbers from text before tokenizing terms.

min\_length The minimal number of characters for a word to be retained.

4 characteristic\_docs

#### Value

A DocumentTermMatrix object.

#### **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
build_dtm(corpus)</pre>
```

characteristic\_docs characteristic\_docs

## **Description**

Print documents which are the most characteristic of each level of a variable, i.e. those with the lowest Chi-squared distance to the average vocabulary of documents belonging to that level.

#### Usage

```
characteristic_docs(corpus, dtm, variable, ndocs = 10, nterms = 25, p = 0.1)
```

## **Arguments**

corpus A Corpus object.

dtm A DocumentTermMatrix object corresponding to corpus.

variable A vector of values giving the groups for which most frequent terms should be reported.

ndocs The number of (most characteristic) documents to print.

nterms The number of terms to highlight in documents.

p The maximum p-value up to which specific terms should be hightlighted.

#### **Details**

Occurrences of the nterms most specific terms for each level are highlighted. If stemming or other transformations have been applied to original words using combine\_terms, all original words which have been transformed to the specified terms are highlighted.

#### Value

A list with one Corpus object for each level (invisibly).

combine\_terms 5

#### **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
characteristic_docs(corpus, dtm, meta(corpus)$Date)

# Also works when terms have been combined
dict <- dictionary(dtm)
dtm2 <- combine_terms(dtm, dict)
characteristic_docs(corpus, dtm2, meta(corpus)$Date)</pre>
```

combine\_terms

combine\_terms

#### **Description**

Aggregate terms in a document-term matrix to according to groupings specified by a dictionary.

#### Usage

```
combine_terms(dtm, dict)
```

## Arguments

dtm A DocumentTermMatrix object.

dict A data.frame with one row per term in dtm that should be retained. The row

names must match names of rows in dtm, and the first column must give the

term into which it should be transformed.

#### **Details**

If several terms use the same transformation, they will be aggregated together. Terms missing from dict will be dropped.

#### Value

An aggregated DocumentTermMatrix object.

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
dict <- dictionary(dtm)
combine_terms(dtm, dict)</pre>
```

6 concordances

|--|--|

# Description

Print documents which contain one or more terms and return a sub-corpus with these documents.

## Usage

```
concordances(corpus, dtm, terms, all = FALSE)
```

# Arguments

corpus	A Corpus object.
dtm	A DocumentTermMatrix object corresponding to corpus.
terms	One of more terms appearing in dtm.
all	Whether only documents containing all terms should be printed. By default, documents need to contain at least one of the terms.

## **Details**

Occurrences of the specified terms are highlighted. If stemming or other transformations have been applied to original words using combine\_terms, all original words which have been transformed to the specified terms are highlighted.

## Value

```
Corpus object (invisibly).
```

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
concordances(corpus, dtm, "oil")
concordances(corpus, dtm, c("oil", "opec"))
concordances(corpus, dtm, c("oil", "opec"), all=TRUE)

# Also works when terms have been combined
dict <- dictionary(dtm)
dtm2 <- combine_terms(dtm, dict)
concordances(corpus, dtm2, "product")</pre>
```

contributive\_docs 7

_docs
-------

# Description

Print documents which contribute the most to an axis of correspondence analysis.

#### Usage

```
contributive_docs(corpus, ca, axis, ndocs = 10, nterms = 25)
```

# Arguments

corpus	A Corpus object.
ca	A CA object.
axis	The CA axis to consider.
ndocs	The number of (most contributive) documents to print.
nterms	The number of terms to highlight in documents.

#### **Details**

Occurrences of the nterms most contributive terms are highlighted. If stemming or other transformations have been applied to original words using combine\_terms, all original words which have been transformed to the specified terms are highlighted.

#### Value

```
Corpus object (invisibly).
```

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
ca <- corpus_ca(corpus, dtm)
contributive_docs(corpus, ca, 1)

# Also works when terms have been combined
dict <- dictionary(dtm)
dtm2 <- combine_terms(dtm, dict)
ca2 <- corpus_ca(corpus, dtm2)
contributive_docs(corpus, ca2, 1)</pre>
```

8 cooc\_terms

cooc\_terms cooc\_terms

#### Description

Show terms that are the most associated (positively or negatively) with a reference term.

#### Usage

```
cooc_terms(
  dtm,
  term,
  variable = NULL,
  p = 0.1,
  n = 25,
  sparsity = 1,
  min_occ = 2
)
```

## **Arguments**

dtm A DocumentTermMatrix. A reference term appearing in dtm. term An optional vector of values giving the groups for which most frequent terms variable should be reported. The maximum p-value up to which terms should be reported. p The maximal number of terms to report (for each group, if applicable). sparsity Value between 0 and 1 indicating the proportion of documents with no occurrences of a term above which that term should be dropped. By default all terms are kept (sparsity=1). min\_occ The minimum number of occurrences in the whole dtm below which terms should be skipped.

#### **Details**

Co-occurrent terms are those which are specific to documents which contain the given term. The output is the same as that returned by specific\_terms.

#### Value

A list of matrices, one for each level of the variable, with columns:

- "\ in documents where the chosen term is also present.
- "\ where the chosen term is also present (rather than in documents where it does not appear), i.e. the percent of cooccurrences for the term..

corpus\_ca 9

- "Global \ in the corpus (or in the subset of the corpus corresponding to the variable level).
- "Level": the number of cooccurrences of the term.
- "Global": the number of occurrences of the term in the corpus (or in the subset of the corpus corresponding to the variable level).
- "t value": the quantile of a normal distribution corresponding the probability "Prob.".
- "Prob.": the probability of observing such an extreme (high or low) number of occurrences of the term in documents where the chosen term is also present, under an hypergeometric distribution.

## **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
cooc_terms(dtm, "barrel")
cooc_terms(dtm, "barrel", meta(corpus)$Date)</pre>
```

corpus\_ca

corpus\_ca

## **Description**

Run a correspondence analysis on a corpus.

## Usage

```
corpus_ca(corpus, dtm, variables = NULL, ncp = 5, sparsity = 1, ...)
```

#### **Arguments**

corpus	A Corpus object.
dtm	$\label{thm:composition} A \ DocumentTermMatrix \ object \ corresponding \ to \ corpus \ with \ one \ row \ per \ document.$
variables	An optional list of variables in $meta(corpus)$ over which to aggregate dtm. If NULL (the default), the analysis is run on the unaggregated matrix.
ncp	The number of axes to compute (5 by default). Note that this determines the number of axes that will be used for clustering by HCPC. Pass Inf to compute all axes.
sparsity	Value between 0 and 1 indicating the proportion of documents with no occurrences of a term above which that term should be dropped. By default all terms are kept (sparsity=1).
	Additional arguments passed to FactoMineR::CA.

10 corpus\_clustering

# Value

A CA object containing the correspondence analysis results.

#### **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
corpus_ca(corpus, dtm, ncp=3, sparsity=0.98)</pre>
```

corpus\_clustering

corpus\_clustering

## Description

Run a hierarchical clustering on documents of a corpus based on a correspondence analysis. The number of axes from ca which are used depends on the value of the n argument passed to corpus\_ca.

#### Usage

```
corpus_clustering(ca, n = 0)
```

#### **Arguments**

n

ca A CA object resulting from a call to corpus\_ca.

Number of clusters to create. If 0 (the default), it is determined by clicking on the plot to choose the cut height.

#### Value

A HCPC object.

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
res <- corpus_ca(corpus, dtm, ncp=2, sparsity=0.98)
corpus_clustering(res, 3)</pre>
```

dictionary 11

dictionary

dictionary

# Description

Create a dictionary with information on all words in a corpus.

## Usage

```
dictionary(dtm, remove_stopwords = FALSE)
```

# Arguments

dtm

A DocumentTermMatrix object.

remove\_stopwords

Whether stopwords should be removed from the dictionary.

#### Value

A data.frame with row names indicating the terms, and columns giving the stem, the number of occurrences, and whether the term is a stopword.

## **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
dictionary(dtm)</pre>
```

extreme\_docs

extreme\_docs

## **Description**

Print documents which have the most extreme coordinations on an axis of correspondence analysis.

## Usage

```
extreme_docs(corpus, ca, axis, ndocs = 10, nterms = 25)
```

frequent\_terms

#### **Arguments**

corpus	A Corpus object.
ca	A CA object.
axis	The CA axis to consider.
ndocs	The number of (most contributive) documents to print.
nterms	The number of terms to highlight in documents.

#### **Details**

Occurrences of the nterms most extreme terms are highlighted. If stemming or other transformations have been applied to original words using combine\_terms, all original words which have been transformed to the specified terms are highlighted.

#### Value

```
Corpus object (invisibly).
```

## **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
ca <- corpus_ca(corpus, dtm)
contributive_docs(corpus, ca, 1)

# Also works when terms have been combined
dict <- dictionary(dtm)
dtm2 <- combine_terms(dtm, dict)
ca2 <- corpus_ca(corpus, dtm2)
extreme_docs(corpus, ca2, 1)</pre>
```

frequent\_terms

frequent\_terms

#### **Description**

List terms with the highest number of occurrences in the document-term matrix of a corpus, possibly grouped by the levels of a variable.

## Usage

```
frequent_terms(dtm, variable = NULL, n = 25)
```

import\_corpus 13

## **Arguments**

dtm	A DocumentTermMatrix.
variable	An optional vector of values giving the groups for which most frequent terms should be reported.
n	The maximal number of terms to report (for each group, if applicable).

#### Value

A list of matrices, one for each level of the variable, with columns:

- "\
- "\ (rather than in other levels).
- "Global \
- "Level": the number of occurrences of the term in the level ("internal").
- "Global": the number of occurrences of the term in the corpus.
- "t value": the quantile of a normal distribution corresponding the probability "Prob.".
- "Prob.": the probability of observing such an extreme (high or low) number of occurrences of the term in the level, under an hypergeometric distribution.

## **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
frequent_terms(dtm)
frequent_terms(dtm, meta(corpus)$Date)</pre>
```

 $import\_corpus$ 

import\_corpus

## **Description**

Import a corpus from a file.

#### Usage

```
import_corpus(paths, format, language, textcolumn = 1, encoding = NULL)
```

14 lexical\_summary

#### **Arguments**

paths Path to one of more files, or to a directory (if format="txt") to import.

format File format: can be "csv", "txt", "factiva", "europresse", "lexisnexis"

or "alceste".

language The language name or code (preferably as IETF language tags, see language)

to be used in particular for stopwords and stemming.

textcolumn When format="csv", the column containing the text, either as a string or as a

position

encoding The character encoding of the file, or NULL to attempt automatic detection.

#### Value

A Corpus object.

# **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
import_corpus(file, "factiva", language="en")</pre>
```

# Description

Build a lexical summary table, optionally over a variable.

#### Usage

```
lexical_summary(dtm, corpus, variable = NULL, unit = c("document", "global"))
```

#### **Arguments**

dtm	A DocumentTermMatrix containing the terms to summarize, which may have been stemmed.
corpus	A Corpus object containing the original texts from which $\ensuremath{dtm}$ was constructed.
variable	An optional vector with one element per document indicating to which category it belongs. If 'NULL, per-document measures are returned.
unit	When variable is not NULL, defines the way measures are aggregated (see below). $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$

lexical\_summary 15

#### **Details**

Words are defined as the forms of two or more characters present in the texts before stemming and stopword removal. On the contrary, unique *terms* are extracted from dtm, which means they do not include words that were removed from it, and that words different in the original text might become identical terms if stemming was performed. Please note that percentages for terms and words are computed with regard respectively to the total number of terms and of words, so the denominators are not the same for all measures.

When variable is not NULL, unit defines two different ways of aggregating per-document statistics into per-category measures:

- "document": values computed for each document are simply averaged for each category.
- "global": values are computed for each category taken as a whole: word counts are summed for each category, and ratios and averages are calculated for this level only, from the summed counts.

This distinction does not make sense when variable=NULL: in this case, "level" in the above explanation corresponds to "document", and two columns are provided about the whole corpus.

- "Corpus mean" is simply the average value of measures over all documents
- "Corpus total" is the sum of the number of terms, the percentage of terms (ratio of the summed numbers of terms) and the average word length in the corpus when taken as a single document.

#### Value

A table object with the following information for each document or each category of documents in the corpus:

- total number of terms
- number and percent of unique terms (i.e. appearing at least once) number and percent of hapax legomena (i.e. terms appearing once and only once)
- total number of words
- number and percent of long words (defined as at least seven characters)
- number and percent of very long words (defined as at least ten characters)
- · average word length

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
lexical_summary(dtm, corpus)</pre>
```

specific\_terms

```
set_corpus_variables set_corpus_variables
```

# Description

Set corpus meta-data variables from a data frame.

# Usage

```
set_corpus_variables(corpus, dset)
```

# Arguments

corpus A Corpus object.

dset A data.frame containing meta-data variables, with one row per document in

'corpus.

#### Value

A Corpus object with meta-data added.

## **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
dset <- data.frame(x=1:length(corpus))
corpus <- set_corpus_variables(corpus, dset)</pre>
```

 ${\tt specific\_terms}$ 

specific\_terms

## **Description**

List terms most associated (positively or negatively) with each document or each of a variable's levels.

specific\_terms 17

#### Usage

```
specific_terms(
  dtm,
  variable = NULL,
  p = 0.1,
  n = 25,
  sparsity = 1,
  min_occ = 2
)
```

#### **Arguments**

dtm	A DocumentTermMatrix.
variable	An optional vector of values giving the groups for which most frequent terms should be reported.
р	The maximum p-value up to which terms should be reported.
n	The maximal number of terms to report (for each group, if applicable).
sparsity	Value between 0 and 1 indicating the proportion of documents with no occurrences of a term above which that term should be dropped. By default all terms are kept (sparsity=1).
min_occ	The minimum number of occurrences in the whole dtm below which terms should be skipped.

#### **Details**

Specific terms reported here are those whose observed frequency in the document or level has the lowest probability under an hypergeometric distribution, based on their global frequencies in the corpus and on the number of occurrences of all terms in the document or variable level considered. The positive or negative character of the association is visible from the sign of the t value, or by comparing the value of the "\ column.

#### Value

A list of matrices, one for each level of the variable, with columns:

- "\
- "\ (rather than in other levels).
- "Global \
- "Level": the number of occurrences of the term in the level ("internal").
- "Global": the number of occurrences of the term in the corpus.
- "t value": the quantile of a normal distribution corresponding the probability "Prob.".
- "Prob.": the probability of observing such an extreme (high or low) number of occurrences of the term in the level, under an hypergeometric distribution.

split\_documents

## **Examples**

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
specific_terms(dtm)
specific_terms(dtm, meta(corpus)$Date)</pre>
```

split\_documents

split\_documents

# Description

Split documents in a corpus into documents of one of more paragraphs.

# Usage

```
split_documents(corpus, chunksize, preserveMetadata = TRUE)
```

# Arguments

corpus A Corpus object.

chunksize The number of paragraphs each new document should contain at most.

preserveMetadata

Whether to preserve the meta-data of original documents.

#### Value

A Corpus object with split documents.

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
split_documents(corpus, 3)</pre>
```

subset\_corpus 19

# Description

Select documents containing (or not containing) one or more terms.

# Usage

```
subset_corpus(corpus, dtm, terms, exclude = FALSE, all = FALSE)
```

# Arguments

corpus	A Corpus object.
dtm	A DocumentTermMatrix object corresponding to corpus.
terms	One of more terms appearing in dtm.
exclude	Whether documents containing the terms should be excluded rather than retained.
all	Whether only documents containing all terms should be retained or excluded. By default, documents need to contain at least one of the terms.

#### Value

Corpus object.

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
subset_corpus(corpus, dtm, "barrel")
subset_corpus(corpus, dtm, c("barrel", "opec"))
subset_corpus(corpus, dtm, c("barrel", "opec"), exclude=TRUE)
subset_corpus(corpus, dtm, c("barrel", "opec"), all=TRUE)</pre>
```

20 terms\_graph

terms\_graph

terms\_graph

## **Description**

Plot a graph of terms.

#### Usage

```
terms_graph(
  dtm,
  n = 100,
  min_occ = 0,
  interactive = base::interactive(),
  vertex.label.cex = 1,
  ...
)
```

# Arguments

dtm A DocumentTermMatrix object.

n The maximum number of terms to represent.

min\_occ The minimum number of occurrences for a term to be retained.

interactive If TRUE, show an interactive plot using tkplot. This is the case by default for interactive sessions.

vertex.label.cex

The font size for vertex labels. It is interpreted as a multiplication factor of some device-dependent base font size.

Optional arguments passed to plot.igraph or tkplot.

#### Value

The ID of the plot returned by tkplot if interactive=TRUE, or NULL invisibly otherwise.

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
terms_graph(dtm, 100, 3)</pre>
```

term\_freq 21

#### **Description**

Study frequencies of chosen terms in the corpus, among documents, or among levels of

#### Usage

```
term_freq(dtm, terms, variable = NULL, by_term = FALSE)
```

#### **Arguments**

dtm A DocumentTermMatrix.

terms One or more reference term(s) appearing in dtm.

variable An optional vector of values giving the groups for which most frequent terms should be reported.

by\_term Whether the third dimension of the array should be terms instead of levels.

#### Value

A list of matrices, one for each level of the variable, with columns:

- "\ in documents where the chosen term is also present.
- "\ where the chosen term is also present (rather than in documents where it does not appear), i.e. the percent of cooccurrences for the term..
- "Global \ in the corpus (or in the subset of the corpus corresponding to the variable level).
- "Level": the number of cooccurrences of the term.
- "Global": the number of occurrences of the term in the corpus (or in the subset of the corpus corresponding to the variable level).
- "t value": the quantile of a normal distribution corresponding the probability "Prob.".
- "Prob.": the probability of observing such an extreme (high or low) number of occurrences of the term in documents where the chosen term is also present, under an hypergeometric distribution.

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
term_freq(dtm, "barrel")
term_freq(dtm, "barrel", meta(corpus)$Date)</pre>
```

22 word\_cloud

word\_cloud

word\_cloud

# Description

Plot a word cloud from a document-term matrix.

# Usage

```
word_cloud(dtm, n = 50, remove_stopwords = TRUE, ...)
```

# Arguments

dtm A DocumentTermMatrix object.

n The maximum number of words to plot.

remove\_stopwords

Whether to remove stopwords appearing in a language-specific list (see tm::stopwords).

... Additional arguments passed to wordcloud.

```
file <- system.file("texts", "reut21578-factiva.xml", package="tm.plugin.factiva")
corpus <- import_corpus(file, "factiva", language="en")
dtm <- build_dtm(corpus)
word_cloud(dtm)</pre>
```

# **Index**

```
add_clusters, 2
build_dtm, 3
CA, 7, 10, 12
characteristic_docs, 4
combine_terms, 4, 5, 6, 7, 12
concordances, 6
\verb|contributive_docs|, 7
cooc_terms, 8
corpus_ca, 9, 10
corpus\_clustering, 2, 10
dictionary, 11
extreme_docs, 11
FactoMineR::CA, 9
frequent_terms, 12
HCPC, 2, 9, 10
import_corpus, 13
language, 14
lexical_summary, 14
meta(corpus), 9
plot.igraph, 20
set_corpus_variables, 16
specific_terms, 8, 16
split_documents, 18
subset_corpus, 19
term_freq, 21
\texttt{terms\_graph}, \textcolor{red}{20}
tkplot, 20
tm::stopwords, 3, 22
word_cloud, 22
wordcloud, 22
```