Package 'rapidraker'

May 9, 2026

Type Package

Title Rapid Automatic Keyword Extraction (RAKE) Algorithm

Version 0.1.3

Description A 'Java' implementation of the RAKE algorithm ('Rose', S., 'Engel', D., 'Cramer', N. and 'Cowley', W. (2010) <doi:10.1002/9780470689646.ch1>), which can be used to extract keywords from documents without any training data.

URL https://crew102.github.io/slowraker/articles/rapidraker.html

BugReports https://github.com/crew102/rapidraker/issues

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Encoding UTF-8

Depends R (>= 3.1)

Imports rJava, openNLPdata, slowraker, utils

Suggests knitr, rmarkdown, testthat

SystemRequirements Java (>= 8)

RoxygenNote 7.1.1

NeedsCompilation no

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`rapidrake` *Rapid RAKE*

Description

A relatively fast version of the Rapid Automatic Keyword Extraction (RAKE) algorithm. See Automatic keyword extraction from individual documents for details on how RAKE works.

Usage

```
rapidrake(
  txt,
  stop_words = slowraker::smart_words,
  stop_pos = c("VB", "VBD", "VBG", "VBN", "VBP", "VBZ"),
  word_min_char = 3,
  stem = TRUE,
  phrase_delims = "[-,.?():;\"!/]"
)
```

Arguments

`txt`	A character vector, where each element of the vector contains the text for one document.
`stop_words`	A vector of stop words which will be removed from your documents. The default value (`smart_words`) contains the 'SMART' stop words (equivalent to tm::stopwords('SMART')) . Set `stop_words = NULL` if you don't want to remove stop words.
`stop_pos`	All words that have a part-of-speech (POS) that appears in `stop_pos` will be considered a stop word. `stop_pos` should be a vector of POS tags. All possible POS tags along with their definitions are in the `pos_tags` data frame (`View(slowraker::pos_tags)`). The default value is to remove all words that have a verb-based POS (i.e., `stop_pos = c("VB", "VBD", "VBG", "VBN", "VBP", "VBZ")`). Set `stop_pos = NULL` if you don't want a word's POS to matter during keyword extraction.
`word_min_char`	The minimum number of characters that a word must have to remain in the corpus. Words with fewer than `word_min_char` characters will be removed before the RAKE algorithm is applied. Note that removing words based on `word_min_char` happens before stemming, so you should consider the full length of the word and not the length of its stem when choosing `word_min_char`.
`stem`	Do you want to stem the words before running RAKE?
`phrase_delims`	A regular expression containing the characters that will be used as phrase delimiters

Value

An object of class `rakelist`, which is just a list of data frames (one data frame for each element of `txt`). Each data frame will have the following columns:

keyword A keyword that was identified by RAKE.

freq The number of times the keyword appears in the document.

score The keyword's score, as per the RAKE algorithm. Keywords with higher scores are considered to be higher quality than those with lower scores.

stem If you specified `stem = TRUE`, you will get the stemmed versions of the keywords in this column. When you choose stemming, the keyword's score (`score`) will be based off its stem, but the reported number of times that the keyword appears (`freq`) will still be based off of the raw, unstemmed version of the keyword.

Examples

```
## Not run:
rakelist <- rapidrake(txt = "some text that has great keywords")
slowraker::rbind_rakelist(rakelist)

## End(Not run)
```

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