Package 'rapidraker'

October 14, 2022

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.</doi:10.1002>	
<pre>URL https://crew102.github.io/slowraker/articles/rapidraker.html</pre>	
BugReports https://github.com/crew102/rapidraker/issues	
License MIT + file LICENSE	
Encoding UTF-8	
Depends R (>= 3.1)	
Imports rJava, openNLPdata, slowraker, utils	
Suggests knitr, rmarkdown, testthat	
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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 de-

fault value (smart_words) contains the 'SMART' stop words (equivalent to tm::stopwords('SMART')). Set $stop_words = NULL$ if you don't want to re-

move 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 de-

limiters

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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)</pre>
```

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