

Package ‘tm.plugin.koRpus’

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Type Package

Title Full Corpus Support for the 'koRpus' Package

Description Enhances 'koRpus' text object classes and methods to also support large corpora. Hierarchical ordering of corpus texts into arbitrary categories will be preserved. Provided classes and methods also improve the ability of using the 'koRpus' package together with the 'tm' package. To ask for help, report bugs, suggest feature improvements, or discuss the global development of the package, please subscribe to the koRpus-dev mailing list (<<https://korpusml.reaktanz.de>>).

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'02_method_05_kRp.corpus-class_freq.analysis.R'
'02_method_06_kRp.corpus-class_summary.R'

'02_method_07_kRp.corpus-class_correct.R'
 '02_method_08_kRp.corpus-class_query.R'
 '02_method_09_kRp.corpus-class_filterByClass.R'
 '02_method_10_kRp.corpus-class_jumbleWords.R'
 '02_method_11_kRp.corpus-class_clozeDelete.R'
 '02_method_12_kRp.corpus-class_cTest.R'
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 '02_method_14_kRp.corpus-class_docTermMatrix.R'
 '02_method_15_kRp.corpus-class_split_by_doc_id.R'
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tm.plugin.koRpus-package

Full Corpus Support for the 'koRpus' Package

Description

Enhances 'koRpus' text object classes and methods to also support large corpora. Hierarchical ordering of corpus texts into arbitrary categories will be preserved. Provided classes and methods also improve the ability of using the 'koRpus' package together with the 'tm' package. To ask for help, report bugs, suggest feature improvements, or discuss the global development of the package, please subscribe to the koRpus-dev mailing list (<<https://korpustml.reaktanz.de>>).

Details

The DESCRIPTION file:

```
Package: tm.plugin.koRpus
Type: Package
Version: 0.4-2
Date: 2021-05-17
Depends: R (>= 3.5.0),koRpus (>= 0.13-1),syllly (>= 0.1-6)
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URL: https://reaktanz.de/?c=hacking&s=koRpus
```

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See Also

Useful links:

- <https://reaktanz.de/?c=hacking&s=koRpus>
- Report bugs at <https://github.com/unDocUmeantIt/tm.plugin.koRpus/issues>

clozeDelete, kRp.corpus-method

Apply clozeDelete() to all texts in kRp.corpus objects

Description

This method calls `clozeDelete` on all tagged text objects inside the given `obj` object (using `mclapply`).

Usage

```
## S4 method for signature 'kRp.corpus'
clozeDelete(obj, mc.cores = getOption("mc.cores", 1L), ...)
```

Arguments

obj	An object of class <code>kRp.corpus</code> .
mc.cores	The number of cores to use for parallelization, see <code>mclapply</code> .
...	options to pass through to <code>clozeDelete</code> .

Value

An object of the same class as obj.

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Edwards"
    ),
    hierarchy=list(
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  head(taggedText(myCorpus), n=10)
  myCorpus <- clozeDelete(myCorpus)
  head(taggedText(myCorpus), n=10)
} else {}
```

corpus_files

Get a comprehensive data frame describing the files of your corpus

Description

The function translates the hierarchy definition given into a data frame with one row for each file, including the generated document ID.

Usage

```
corpus_files(
  dir,
  hierarchy = list(),
  fsep = .Platform$file.sep,
  full_list = FALSE
)
```

Arguments

<code>dir</code>	File path to the root directory of the text corpus, or a TIF[1] compliant data frame.
<code>hierarchy</code>	A named list of named character vectors describing the directory hierarchy level by level. If TRUE instead, the hierarchy structure is taken directly from the directory tree. See section Hierarchy of readCorpus for details.
<code>fsep</code>	Character string defining the path separator to use.
<code>full_list</code>	Logical, see return value.

Value

Either a data frame with columns `doc_id`, `file`, `path` and one further factor column for each hierarchy level, or (if `full_list=TRUE`) a list containing that data frame (`all_files`) and also data frames describing the hierarchy by given names (`hier_names`), directories (`hier_dirs`) and relative paths (`hier_paths`).

References

[1] Text Interchange Formats (<https://github.com/ropensci/tif>)

Examples

```
myCorpusFiles <- corpus_files(
  dir=file.path(
    path.package("tm.plugin.koRpus"), "examples", "corpus"
  ),
  hierarchy=list(
    Topic=c(
      Winner="Reality Winner",
      Edwards="Natalie Edwards"
    ),
    Source=c(
      Wikipedia_prev="Wikipedia (old)",
      Wikipedia_new="Wikipedia (new)"
    )
  )
)
```

`corpusTagged`*Deprecated functions and methods*

Description

These functions were used in earlier versions of the package but either replaced or removed.

Usage`corpusTagged(obj, ...)``corpusTTR(obj, ...)``corpusLevel(...)``corpusCategory(...)``corpusID(...)``corpusPath(...)`**Arguments**

<code>obj</code>	No longer used.
------------------	-----------------

<code>...</code>	No longer used.
------------------	-----------------

`correct.hyph,kRp.corpus-method`*Methods to correct kRp.corpus objects*

Description

These methods enable you to correct errors that occurred during automatic processing, e.g., wrong hyphenation.

Usage

```
## S4 method for signature 'kRp.corpus'  
correct.hyph(obj, word = NULL, hyphen = NULL, cache = TRUE)
```

Arguments

obj	An object of class <code>kRp.corpus</code> .
word	A character string, the (possibly incorrectly hyphenated) word entry to be replaced with hyphen.
hyphen	A character string, the new manually hyphenated version of word. Mustn't contain anything other than characters of word plus the hyphenation mark "-".
cache	Logical, if TRUE, the given hyphenation will be added to the sessions' hyphenation cache. Existing entries for the same word will be replaced.

Details

For details on what these methods do on a per text object basis, please refer to the documentation of `correct.hyph` in the `syll` package.

Value

An object of the same class as obj.

cTest, kRp.corpus-method

Apply cTest() to all texts in kRp.corpus objects

Description

This method calls `cTest` on all tagged text objects inside the given obj object (using `mclapply`).

Usage

```
## S4 method for signature 'kRp.corpus'
cTest(obj, mc.cores = getOption("mc.cores", 1L), ...)
```

Arguments

obj	An object of class <code>kRp.corpus</code> .
mc.cores	The number of cores to use for parallelization, see <code>mclapply</code> .
...	options to pass through to <code>cTest</code> .

Value

An object of the same class as obj.

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Edwards"
    ),
    hierarchy=list(
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  taggedText(myCorpus)[20:30,]
  myCorpus <- cTest(myCorpus)
  taggedText(myCorpus)[20:30,]
} else {}
```

docTermMatrix, kRp.corpus-method

Generate a document-term matrix from a corpus object

Description

Calculates a sparse document-term matrix calculated from a given object of class `kRp.corpus` and adds it to the object's feature list. You can also calculate the term frequency inverted document frequency value (tf-idf) for each term.

Usage

```
## S4 method for signature 'kRp.corpus'
docTermMatrix(
  obj,
  terms = "token",
  case.sens = FALSE,
  tfidf = FALSE,
  as.feature = TRUE
)
```

Arguments

`obj` An object of class `kRp.corpus`.

terms	A character string defining the tokens column to be used for calculating the matrix.
case.sens	Logical, whether terms should be counted case sensitive.
tfidf	Logical, if TRUE calculates term frequency–inverse document frequency (tf-idf) values instead of absolute frequency.
as.feature	Logical, whether the output should be just the sparse matrix or the input object with that matrix added as a feature. Use corpusDocTermMatrix to get the matrix from such an aggregated object.

Details

The settings of terms, case.sens, and tfidf will be stored in the object's meta slot, so you can use `corpusMeta(..., "doc_term_matrix")` to fetch it.

See the examples to learn how to limit the analysis to desired word classes.

Value

Either an object of the input class or a sparse matrix of class [dgCMatrix](#).

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(path.package("tm.plugin.koRpus"), "examples", "corpus"),
    hierarchy=list(
      Topic=c(
        Winner="Reality Winner",
        Edwards="Natalie Edwards"
      ),
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  # get the document-term frequencies in a sparse matrix
  myDTMatrix <- docTermMatrix(myCorpus, as.feature=FALSE)

  # combine with filterByClass() to, e.g., exclude all punctuation
  myDTMatrix <- docTermMatrix(filterByClass(myCorpus), as.feature=FALSE)

  # instead of absolute frequencies, get the tf-idf values
  myDTMatrix <- docTermMatrix(
    filterByClass(myCorpus),
```

```

    tfidf=TRUE,
    as.feature=FALSE
  )
} else {}

```

filterByClass,kRp.corpus-method

Apply filterByClass() to all texts in kRp.corpus objects

Description

This method calls [filterByClass](#) on all tagged text objects inside the given txt object (using [mclapply](#)).

Usage

```

## S4 method for signature 'kRp.corpus'
filterByClass(txt, mc.cores = getOption("mc.cores", 1L), ...)

```

Arguments

txt	An object of class kRp.corpus .
mc.cores	The number of cores to use for parallelization, see mclapply .
...	options to pass through to filterByClass .

Value

An object of the same class as txt.

Examples

```

# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Edwards"
    ),
    hierarchy=list(
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )
}

```

```

head(taggedText(myCorpus), n=10)
# remove all punctuation
myCorpus <- filterByClass(myCorpus)
head(taggedText(myCorpus), n=10)
} else {}

```

freq.analysis,kRp.corpus-method

Apply freq.analysis() to all texts in kRp.corpus objects

Description

This method calls [freq.analysis](#) on all tagged text objects inside the given `txt.file` object.

Usage

```

## S4 method for signature 'kRp.corpus'
freq.analysis(txt.file, ...)

```

Arguments

<code>txt.file</code>	An object of class kRp.corpus .
<code>...</code>	options to pass through to freq.analysis .

Details

If `corp.freq` was not specified but a valid object of class [kRp.corp.freq](#) is found in the `freq` slot of `txt.file`, it is used automatically. That is the case if you called [read.corp.custom](#) on the object previously.

Value

An object of the same class as `txt.file`.

Examples

```

# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Edwards"
    ),
    hierarchy=list(
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
  ),

```

```

    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  myCorpus <- read.corp.custom(myCorpus)
  myCorpus <- freq.analysis(myCorpus)
  corpusFreq(myCorpus)
} else {}

```

hyphen, kRp.corpus-method

Apply hyphen() to all texts in kRp.corpus objects

Description

This method calls [hyphen](#) on all tagged text objects inside the given words object (using [mclapply](#)).

Usage

```

## S4 method for signature 'kRp.corpus'
hyphen(words, mc.cores = getOption("mc.cores", 1L), quiet = TRUE,
      ...)

```

Arguments

words	An object of class kRp.corpus .
mc.cores	The number of cores to use for parallelization, see mclapply .
quiet	Logical, if FALSE shows a status bar for the hyphenation process of each text.
...	options to pass through to hyphen .

Value

An object of the same class as words.

Examples

```

# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Winner", "Wikipedia_new"
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )
}

```

```
myCorpus <- hyphen(myCorpus)
} else {}
```

```
jumbleWords, kRp.corpus-method
```

Apply jumbleWords() to all texts in kRp.corpus objects

Description

This method calls `jumbleWords` on all tagged text objects inside the given words object (using `mclapply`).

Usage

```
## S4 method for signature 'kRp.corpus'
jumbleWords(words, mc.cores = getOption("mc.cores", 1L), ...)
```

Arguments

<code>words</code>	An object of class <code>kRp.corpus</code> .
<code>mc.cores</code>	The number of cores to use for parallelization, see <code>mclapply</code> .
<code>...</code>	options to pass through to <code>jumbleWords</code> .

Value

An object of the same class as `words`.

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Edwards"
    ),
    hierarchy=list(
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  head(taggedText(myCorpus), n=10)
```

```

myCorpus <- jumbleWords(myCorpus)
head(taggedText(myCorpus), n=10)
} else {}

```

kRp.corpus,-class *S4 Class kRp.corpus*

Description

Objects of this class can contain full text corpora in a hierarchical structure. It supports both the tm package's [Corpus](#) class and koRpus' own object classes and stores them in separated slots.

Details

Objects should be created using the [readCorpus](#) function.

Slots

lang A character string, naming the language that is assumed for the tokenized texts in this object.

desc A named list of descriptive statistics of the tagged texts.

meta A named list. Can be used to store meta information. Currently, no particular format is defined.

raw A list of objects of class [Corpus](#).

tokens A data frame as used for the tokens slot in objects of class [kRp.text](#). In addition to the columns usually found in those objects, this data frame also has a factor column for each hierarchical category defined (if any).

features A named logical vector, indicating which features are available in this object's `feat_list` slot. Common features are listed in the description of the `feat_list` slot.

feat_list A named list with optional analysis results or other content as used by the defined features:

- **hierarchy** A named list of named character vectors describing the directory hierarchy level by level.
- **hyphen** A named list of objects of class [kRp.hyphen](#).
- **readability** A named list of objects of class [kRp.readability](#).
- **lex_div** A named list of objects of class [kRp.TTR](#).
- **freq** The `freq.analysis` slot of a [kRp.txt.freq](#) class object after [freq.analysis](#) was called.
- **corp_freq** An object of class [kRp.corp.freq](#), e.g., results of a call to [read.corp.custom](#).
- **diff** A named list of diff features of a [kRp.text](#) object after a method like [textTransform](#) was called.
- **summary** A summary data frame for the full corpus, including descriptive statistics on all texts, as well as results of analyses like readability and lexical diversity, if available.
- **doc_term_matrix** A sparse document-term matrix, as produced by [docTermMatrix](#).

- stopwords A numeric vector with the total number of stopwords in each text, if stopwords were analyzed during tokenizing or POS tagging.

See the [getter and setter methods](#) for easy access to these sub-slots. There can actually be any number of additional features, the above is just a list of those already defined by this package.

Constructor function

Should you need to manually generate objects of this class (which should rarely be the case), the constructor function `kRp.corpus(...)` can be used instead of `new("kRp.corpus", ...)`. Whenever possible, stick to [readCorpus](#).

Note

There is also [getter and setter methods](#) for objects of this class.

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(path.package("tm.plugin.koRpus"), "examples", "corpus"),
    hierarchy=list(
      Topic=c(
        Winner="Reality Winner",
        Edwards="Natalie Edwards"
      ),
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )
} else {}

# manual creation
emptyCorpus <- kRp.corpus()
```

Description

An rather untested attempt to sketch a [Source](#) function for `tm`. Supposed to be used to translate tagged `koRpus` objects into `tm` objects.

Usage

```
kRpSource(obj, encoding = "UTF-8")
```

Arguments

obj	An object of class <code>kRp.text</code> (a class union for tagged text objects).
encoding	Character string, defining the character encoding of the object.

Details

Also provided are the methods `getElem` and `pGetElem` for S3 class `kRpSource`.

Value

An object of class `Source`, also inheriting class `kRpSource`.

```
lex.div, kRp.corpus-method
```

Apply `lex.div()` to all texts in `kRp.corpus` objects

Description

This method calls `lex.div` on all tagged text objects inside the given `txt` object (using `mclapply`).

Usage

```
## S4 method for signature 'kRp.corpus'
lex.div(
  txt,
  summary = TRUE,
  mc.cores = getOption("mc.cores", 1L),
  char = "",
  quiet = TRUE,
  ...
)
```

Arguments

txt	An object of class <code>kRp.corpus</code> .
summary	Logical, determines if the summary slot should automatically be updated by calling <code>summary</code> on the result.
mc.cores	The number of cores to use for parallelization, see <code>mclapply</code> .
char	Character vector to specify measures of which characteristics should be computed, see <code>lex.div</code> for details.
quiet	Logical, if FALSE shows a status bar for some measures of each text, see <code>lex.div</code> for details.
...	options to pass through to <code>lex.div</code> .

Value

An object of the same class as txt.

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(path.package("tm.plugin.koRpus"), "examples", "corpus"),
    hierarchy=list(
      Topic=c(
        Winner="Reality Winner",
        Edwards="Natalie Edwards"
      ),
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )
  myCorpus <- lex.div(myCorpus)
  corpusSummary(myCorpus)
} else {}
```

query, kRp.corpus-method

Apply query() to all texts in kRp.corpus objects

Description

This method calls [query](#) on all tagged text objects inside the given object.

Usage

```
## S4 method for signature 'kRp.corpus'
query(
  obj,
  var,
  query,
  rel = "eq",
  as.df = TRUE,
  ignore.case = TRUE,
  perl = FALSE,
  regexp_var = "token"
)
```

Arguments

obj	An object of class <code>kRp.corpus</code> .
var	A character string naming a column in the tagged text. If set to "regexp", <code>grep1</code> is called on the column specified by <code>regexp_var</code> .
query	A character vector (for words), regular expression, or single number naming values to be matched in the variable. Can also be a vector of two numbers to query a range of frequency data, or a list of named lists for multiple queries (see "Query lists" section of query).
rel	A character string defining the relation of the queried value and desired results. Must either be "eq" (equal, the default), "gt" (greater than), "ge" (greater of equal), "lt" (less than) or "le" (less or equal). If <code>var="word"</code> , is always interpreted as "eq"
as.df	Logical, if TRUE, returns a data frame, otherwise an object of the input class.
ignore.case	Logical, passed through to <code>grep1</code> if <code>var="regexp"</code> .
perl	Logical, passed through to <code>grep1</code> if <code>var="regexp"</code> .
regexp_var	A character string naming the column to query if <code>var="regexp"</code> .

Value

Depending on the arguments, might include whole objects, lists, single values etc.

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Edwards"
    ),
    hierarchy=list(
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  query(myCorpus, var="lttr", query="7", rel="gt")
} else {}
```

 read.corp.custom, kRp.corpus-method

Apply read.corp.custom() to all texts in kRp.corpus objects

Description

This method calls [read.corp.custom](#) on all tagged text objects inside the given corpus object.

Usage

```
## S4 method for signature 'kRp.corpus'
read.corp.custom(corpus, caseSens = TRUE, log.base = 10,
  keep_dtm = FALSE, ...)
```

Arguments

corpus	An object of class kRp.corpus .
caseSens	Logical. If FALSE, all tokens will be matched in their lower case form.
log.base	A numeric value defining the base of the logarithm used for inverse document frequency (idf). See log for details.
keep_dtm	Logical. If TRUE and corpus does not yet provide a document term matrix , the one generated during calculation will be added to the resulting object.
...	Options to pass through to the read.corp.custom method for objects of the class union kRp.text .

Details

Since the analysis is based on a document term matrix, a pre-existing matrix as a feature of the corpus object will be used if it matches the case sensitivity setting. Otherwise a new matrix will be generated (but not replace the existing one). If no document term matrix is present yet, also one will be generated and can be kept as an additional feature of the resulting object.

Value

An object of the same class as corpus.

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Edwards"
    ),
    hierarchy=list(
      Source=c(
```

```

        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
    )
),
# use tokenize() so examples run without a TreeTagger installation
tagger="tokenize",
lang="en"
)

myCorpus <- read.corp.custom(myCorpus)
corpusCorpFreq(myCorpus)
} else {}

```

readability,kRp.corpus-method

Apply readability() to all texts in kRp.corpus objects

Description

This method calls [readability](#) on all tagged text objects inside the given `txt.file` object (using `mclapply`).

Usage

```

## S4 method for signature 'kRp.corpus'
readability(
  txt.file,
  summary = TRUE,
  mc.cores = getOption("mc.cores", 1L),
  quiet = TRUE,
  ...
)

```

Arguments

<code>txt.file</code>	An object of class kRp.corpus .
<code>summary</code>	Logical, determines if the summary slot should automatically be updated by calling summary on the result.
<code>mc.cores</code>	The number of cores to use for parallelization, see mclapply .
<code>quiet</code>	Logical, if FALSE shows a status bar for some calculations of each text, see readability for details.
<code>...</code>	options to pass through to readability .

Value

An object of the same class as `txt.file`.

Examples

```

# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(path.package("tm.plugin.koRpus"), "examples", "corpus"),
    hierarchy=list(
      Topic=c(
        Winner="Reality Winner",
        Edwards="Natalie Edwards"
      ),
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  myTexts <- readability(myCorpus)
  corpusSummary(myCorpus)
} else {}

```

readCorpus

Create kRp.corpus objects from text files or data frames

Description

You can either read a corpus from text files (one file per text, also see the Hierarchy section below) or from TIF compliant data frames (see the Data frames section below).

Usage

```

readCorpus(
  dir,
  hierarchy = list(),
  lang = "kRp.env",
  tagger = "kRp.env",
  encoding = "",
  pattern = NULL,
  recursive = FALSE,
  ignore.case = FALSE,
  mode = "text",
  format = "file",
  mc.cores = getOption("mc.cores", 1L),
  id = "",
  ...
)

```

Arguments

<code>dir</code>	Either a file path to the root directory of the text corpus, or a TIF compliant data frame. If a directory path (character string), texts can be recursively ordered into subfolders named exactly as defined by <code>hierarchy</code> . If <code>hierarchy</code> is an empty list, all text files located in <code>dir</code> are parsed without a hierarchical structure. If a data frame, also set <code>format="obj"</code> and provide hierarchy levels as additional columns, as described in the Data frames section.
<code>hierarchy</code>	A named list of named character vectors describing the directory hierarchy level by level. If <code>TRUE</code> instead, the hierarchy structure is taken directly from the directory tree. See section Hierarchy for details.
<code>lang</code>	A character string naming the language of the analyzed corpus. See <code>kRp.POS.tags</code> for all supported languages. If set to <code>"kRp.env"</code> this is got from <code>get.kRp.env</code> . This information will also be passed to the <code>readerControl</code> list of the <code>VCorpus</code> call.
<code>tagger</code>	A character string pointing to the tokenizer/tagger command you want to use for basic text analysis. Defaults to <code>tagger="kRp.env"</code> to get the settings by <code>get.kRp.env</code> . Set to <code>"tokenize"</code> to use <code>tokenize</code> .
<code>encoding</code>	Character string describing the current encoding. See <code>DirSource</code> for details, omitted if <code>format="obj"</code> .
<code>pattern</code>	A regular expression for file matching. See <code>DirSource</code> for details, omitted if <code>format="obj"</code> .
<code>recursive</code>	Logical, indicates whether directories should be read recursively. See <code>DirSource</code> for details, omitted if <code>format="obj"</code> .
<code>ignore.case</code>	Logical, indicates whether <code>pattern</code> is matched case sensitive. See <code>DirSource</code> for details, omitted if <code>format="obj"</code> .
<code>mode</code>	Character string defining the reading mode. See <code>DirSource</code> for details, omitted if <code>format="obj"</code> .
<code>format</code>	Either <code>"file"</code> or <code>"obj"</code> , depending on whether you want to scan files or analyze the text in a given object, like a character vector. If the latter and <code>treetag</code> is used as the tagger, texts will be written to temporary files for the process (see <code>dir</code>).
<code>mc.cores</code>	The number of cores to use for parallelization, see <code>mclapply</code> . This value is passed through to <code>simpleCorpus</code> .
<code>id</code>	A character string describing the main subject/purpose of the text corpus.
<code>...</code>	Additional options which are passed through to the defined tagger.

Value

An object of class `kRp.corpus`.

Hierarchy

To import a hierarchically structured text corpus you must categorize all texts in a directory structure that resembles the hierarchy. If for example you would like to import a corpus on two different topics and two different sources, your hierarchy has two nested levels (topic and source). The root

directory `dir` would then need to have two subdirectories (one for each topic) which in turn must have two subdirectories (one for each source), and the actual text files are found in those.

To use this hierarchical structure in `readCorpus`, the `hierarchy` argument is used. It is a named list, where each list item represents one hierarchical level (here again topic and source), and its value is a named character vector describing the actual topics and sources to be used. It is important to understand how these character vectors are treated: The names of elements must exactly match the corresponding subdirectory name, whereas the value is a free text description. The names of the list items however describe the hierarchical level and are not matched with directory names.

Data frames

In order to import a corpus from a data frame, the object must be in Text Interchange Format (TIF) as described by [1]. As a minimum, the data frame must have two character columns, `doc_id` and `text`.

You can provide additional information on hierarchical categories by using further columns, where the column name must match the category name (hierarchical level). The order of those columns in the data frame is not important, as you must still fully define the hierarchical structure using the `hierarchy` argument. All columns you omit are ignored, but the values used in the hierarchy list and the respective columns must match, as rows with unmatched category levels will also be ignored.

Note that the special column names `path` and `file` will also be imported automatically.

References

[1] Text Interchange Formats (<https://github.com/ropensci/tif>)

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  # "flat" corpus, parse all texts in the given dir
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Winner", "Wikipedia_prev"
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  # corpus with one category names "Source"
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Winner"
    ),
    hierarchy=list(
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    )
  )
}
```

```

    )
  ),
  tagger="tokenize",
  lang="en"
)

# two hierarchical levels, "Topic" and "Source"
myCorpus <- readCorpus(
  dir=file.path(path.package("tm.plugin.koRpus"), "examples", "corpus"),
  hierarchy=list(
    Topic=c(
      Winner="Reality Winner",
      Edwards="Natalie Edwards"
    ),
    Source=c(
      Wikipedia_prev="Wikipedia (old)",
      Wikipedia_new="Wikipedia (new)"
    )
  ),
  tagger="tokenize",
  lang="en"
)

# get hierarchy from directory tree
myCorpus <- readCorpus(
  dir=file.path(path.package("tm.plugin.koRpus"), "examples", "corpus"),
  hierarchy=TRUE,
  tagger="tokenize",
  lang="en"
)

## Not run:
# if the same corpus is available as TIF compliant data frame
myCorpus <- readCorpus(
  dir=myCorpus_df,
  hierarchy=list(
    Topic=c(
      Winner="Reality Winner",
      Edwards="Natalie Edwards"
    ),
    Source=c(
      Wikipedia_prev="Wikipedia (old)",
      Wikipedia_new="Wikipedia (new)"
    )
  ),
  lang="en",
  format="obj"
)

## End(Not run)
} else {}

```

 show, kRp.corpus-method

Show methods for kRp.corpus objects

Description

Show methods for S4 objects of class `kRp.corpus`.

Usage

```
## S4 method for signature 'kRp.corpus'
show(object)
```

Arguments

object An object of class `kRp.corpus`.

 split_by_doc_id, kRp.corpus-method

Turn a kRp.corpus object into a list of kRp.text objects

Description

For some analysis steps it might be important to have individual tagged texts instead of one large corpus object. This method produces just that.

Usage

```
## S4 method for signature 'kRp.corpus'
split_by_doc_id(obj, keepFeatures = TRUE)
```

Arguments

obj An object of class `kRp.corpus`.

keepFeatures Either logical, whether to keep all features or drop them, or a character vector of names of features to keep if present.

Value

A named list of objects of class `kRp.text`. Elements are named by their `doc_id`.

Examples

```

# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(path.package("tm.plugin.koRpus"), "examples", "corpus"),
    hierarchy=list(
      Topic=c(
        Winner="Reality Winner",
        Edwards="Natalie Edwards"
      ),
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  myCorpusList <- split_by_doc_id(myCorpus)
} else {}

```

summary,kRp.corpus-method

Apply summary() to all texts in kRp.corpus objects

Description

This method performs a summary call on all text objects inside the given object object. Contrary to what other summary methods do, this method always returns the full object with an updated summary slot.

Usage

```

## S4 method for signature 'kRp.corpus'
summary(object, missing = NA, ...)

corpusSummary(obj)

## S4 method for signature 'kRp.corpus'
corpusSummary(obj)

corpusSummary(obj) <- value

## S4 replacement method for signature 'kRp.corpus'
corpusSummary(obj) <- value

```

Arguments

object	An object of class <code>kRp.corpus</code> .
missing	Character string to use for missing values.
...	Used for internal processes.
obj	An object of class <code>kRp.corpus</code> .
value	The new value to replace the current with.

Details

The summary slot contains a data.frame with aggregated information of all texts that the respective object contains.

corpusSummary is a simple method to get or set the summary slot in kRp.corpus objects directly.

Value

An object of the same class as object.

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Edwards"
    ),
    hierarchy=list(
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  # calculate readability, but prevent a summary table from being added
  myCorpus <- readability(myCorpus, summary=FALSE)
  corpusSummary(myCorpus)

  # add summaries
  myCorpus <- summary(myCorpus)
  corpusSummary(myCorpus)
} else {}
```

taggedText, kRp.corpus-method

Getter/setter methods for kRp.corpus objects

Description

These methods should be used to get or set values of text objects generated by functions like [readCorpus](#).

Usage

```
## S4 method for signature 'kRp.corpus'  
taggedText(obj)  
  
## S4 replacement method for signature 'kRp.corpus'  
taggedText(obj) <- value  
  
## S4 method for signature 'kRp.corpus'  
doc_id(obj, has_id = NULL)  
  
## S4 method for signature 'kRp.corpus'  
describe(obj, doc_id = NULL, simplify = TRUE, ...)  
  
## S4 replacement method for signature 'kRp.corpus'  
describe(obj, doc_id = NULL, ...) <- value  
  
## S4 method for signature 'kRp.corpus'  
language(obj)  
  
## S4 replacement method for signature 'kRp.corpus'  
language(obj) <- value  
  
## S4 method for signature 'kRp.corpus'  
hasFeature(obj, feature = NULL)  
  
## S4 replacement method for signature 'kRp.corpus'  
hasFeature(obj, feature) <- value  
  
## S4 method for signature 'kRp.corpus'  
feature(obj, feature, doc_id = NULL)  
  
## S4 replacement method for signature 'kRp.corpus'  
feature(obj, feature) <- value  
  
## S4 method for signature 'kRp.corpus'  
corpusReadability(obj, doc_id = NULL)
```

```
## S4 replacement method for signature 'kRp.corpus'  
corpusReadability(obj) <- value  
  
corpusTm(obj)  
  
## S4 method for signature 'kRp.corpus'  
corpusTm(obj)  
  
corpusTm(obj) <- value  
  
## S4 replacement method for signature 'kRp.corpus'  
corpusTm(obj) <- value  
  
corpusMeta(obj, meta = NULL, fail = TRUE)  
  
## S4 method for signature 'kRp.corpus'  
corpusMeta(obj, meta = NULL, fail = TRUE)  
  
corpusMeta(obj, meta = NULL) <- value  
  
## S4 replacement method for signature 'kRp.corpus'  
corpusMeta(obj, meta = NULL) <- value  
  
## S4 method for signature 'kRp.corpus'  
corpusHyphen(obj, doc_id = NULL)  
  
## S4 replacement method for signature 'kRp.corpus'  
corpusHyphen(obj) <- value  
  
## S4 method for signature 'kRp.corpus'  
corpusLexDiv(obj, doc_id = NULL)  
  
## S4 replacement method for signature 'kRp.corpus'  
corpusLexDiv(obj) <- value  
  
## S4 method for signature 'kRp.corpus'  
corpusFreq(obj)  
  
## S4 replacement method for signature 'kRp.corpus'  
corpusFreq(obj) <- value  
  
## S4 method for signature 'kRp.corpus'  
corpusCorpFreq(obj)  
  
## S4 replacement method for signature 'kRp.corpus'  
corpusCorpFreq(obj) <- value  
  
corpusHierarchy(obj, ...)
```

```
## S4 method for signature 'kRp.corpus'
corpusHierarchy(obj)

corpusHierarchy(obj) <- value

## S4 replacement method for signature 'kRp.corpus'
corpusHierarchy(obj) <- value

corpusFiles(obj, paths = FALSE, ...)

## S4 method for signature 'kRp.corpus'
corpusFiles(obj, paths = FALSE)

corpusFiles(obj) <- value

## S4 replacement method for signature 'kRp.corpus'
corpusFiles(obj) <- value

corpusDocTermMatrix(obj, ...)

## S4 method for signature 'kRp.corpus'
corpusDocTermMatrix(obj)

corpusDocTermMatrix(obj, terms = NULL, case.sens = NULL, tfidf = NULL) <- value

## S4 replacement method for signature 'kRp.corpus'
corpusDocTermMatrix(obj, terms = NULL, case.sens = NULL,
  tfidf = NULL) <- value

## S4 method for signature 'kRp.corpus'
corpusStopwords(obj)

## S4 replacement method for signature 'kRp.corpus'
corpusStopwords(obj) <- value

## S4 method for signature 'kRp.corpus'
diffText(obj, doc_id = NULL)

## S4 replacement method for signature 'kRp.corpus'
diffText(obj) <- value

## S4 method for signature 'kRp.corpus'
originalText(obj)

is.corpus(obj)

## S4 method for signature 'kRp.corpus,ANY,ANY,ANY'
```

```

x[i, j, ..., drop = TRUE]

## S4 replacement method for signature 'kRp.corpus,ANY,ANY,ANY'
x[i, j, ...] <- value

## S4 method for signature 'kRp.corpus'
x[[i, doc_id = NULL, ...]]

## S4 replacement method for signature 'kRp.corpus'
x[[i, doc_id = NULL, ...]] <- value

## S4 method for signature 'kRp.corpus'
tif_as_tokens_df(tokens)

tif_as_corpus_df(corpus)

## S4 method for signature 'kRp.corpus'
tif_as_corpus_df(corpus)

```

Arguments

obj	An object of class <code>kRp.corpus</code> .
value	A new value to replace the current with.
has_id	A character vector with doc_ids to look for in the object. The return value is then a logical vector of the same length, indicating if the respective id was found or not.
doc_id	A character vector to limit the scope to one or more particular document IDs.
simplify	If TRUE and result is a list of length 1, return the list element.
...	Additional arguments to pass through, depending on the method.
feature	Character string naming the object feature to look for.
meta	If not NULL, the meta list entry of the given name.
fail	Logical, whether the method should fail with an error if meta was not found. If set to FALSE, returns <code>invisible(NULL)</code> instead.
paths	Logical, indicates for <code>corpusFiles()</code> whether full paths should be returned, or just the actual file name.
terms	A character string defining the tokens used for calculating the matrix. Stored in object's meta data slot.
case.sens	Logical, whether terms were counted case sensitive. Stored in object's meta data slot.
tfidf	Logical, use TRUE if the term frequency–inverse document frequency (tf-idf) values were calculated instead of absolute frequency. Stored in object's meta data slot.
x	See obj.
i	Defines the row selector (<code>[]</code>) or the name to match (<code>[[</code>) in the tokens slot.

j	Defines the column selector in the tokens slot.
drop	See [] .
tokens	An object of class <code>kRp.corpus</code> .
corpus	An object of class <code>kRp.corpus</code> .

Details

- `taggedText()` returns the tokens slot.
- `describe()` returns the desc slot.
- `hasFeature()` returns TRUE or codeFALSE, depending on whether the requested feature is present or not.
- `feature()` returns the list entry of the `feat_list` slot for the requested feature.
- `corpusReadability()` returns the list of `kRp.readability` objects.
- `corpusTm()` returns the `VCorpus` object.
- `corpusMeta()` returns the list with meta information.
- `corpusHyphen()` returns the list of `kRp.hyphen` objects.
- `corpusLexDiv()` returns the list of `kRp.TTR` objects.
- `corpusFiles()` returns the character vector of file names of the object.
- `corpusFreq()` returns the frequency analysis data from the `feat_list` slot.
- `corpusCorpFreq()` returns the `kRp.corp.freq` object of the `feat_list` slot.
- `corpusHierarchy()` returns the corpus' hierarchy structure.
- `corpusDocTermMatrix()` returns the sparse document term matrix of the `feat_list` slot.
- `corpusStopwords()` returns the number of stopwords found in each text (if analyzed) from the `feat_list` slot.
- `diffText()` returns the `diff` element of the `feat_list` slot.
- `originalText` regenerates the original text before text transformations and returns it as a data frame.
- `[]` can be used as a shortcut to index the results of `taggedText()`.
- `tif_as_corpus_df` returns the whole corpus in a single TIF[1] compliant data.frame.
- `tif_as_tokens_df` returns the tokens slot in a TIF[1] compliant data.frame, i.e., `doc_id` is not a factor but a character vector.

References

- [1] Text Interchange Formats (<https://github.com/ropensci/tif>)

Examples

```

# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Winner", "Wikipedia_new"
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  taggedText(myCorpus)

  corpusMeta(myCorpus, "note") <- "an interesting read!"

  # export object to TIF compliant data frame
  myCorpus_df <- tif_as_corpus_df(myCorpus)
} else {}

```

textTransform, kRp.corpus-method

Apply textTransform() to all texts in kRp.corpus objects

Description

This method calls [textTransform](#) on all tagged text objects inside the given txt object (using [mclapply](#)).

Usage

```

## S4 method for signature 'kRp.corpus'
textTransform(txt, mc.cores = getOption("mc.cores", 1L), ...)

```

Arguments

txt	An object of class kRp.corpus .
mc.cores	The number of cores to use for parallelization, see mclapply .
...	options to pass through to textTransform .

Value

An object of the same class as txt.

Examples

```
# use readCorpus() to create an object of class kRp.corpus
# code is only run when the english language package can be loaded
if(require("koRpus.lang.en", quietly = TRUE)){
  myCorpus <- readCorpus(
    dir=file.path(
      path.package("tm.plugin.koRpus"), "examples", "corpus", "Edwards"
    ),
    hierarchy=list(
      Source=c(
        Wikipedia_prev="Wikipedia (old)",
        Wikipedia_new="Wikipedia (new)"
      )
    ),
    # use tokenize() so examples run without a TreeTagger installation
    tagger="tokenize",
    lang="en"
  )

  head(taggedText(myCorpus), n=10)
  myCorpus <- textTransform(myCorpus, scheme="minor")
  head(taggedText(myCorpus), n=10)
} else {}
```

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