Package 'LDAShiny'

Title User-Friendly Interface for Review of Scientific Literature

Version 0.9.3

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BugReports https://github.com/JavierDeLaHoz/LDAShiny/issues

Description Contains the development of a tool that provides a
web-based graphical user interface (GUI) to perform a review of the
scientific literature under the Bayesian approach of Latent Dirichlet
Allocation (LDA)and machine learning algorithms. The application
methodology is framed by the well known procedures in topic modelling
on how to clean and process data. Contains methods described by
Blei, David M., Andrew Y. Ng, and Michael I. Jordan (2003)
<https://jmlr.org/papers/volume3/blei03a/blei03a.pdf>
Allocation"; Thomas L. Griffiths and Mark Steyvers (2004)
<doi:10.1073/pnas.0307752101> ; Xiong Hui, et al (2019)
<doi:10.1016/j.cie.2019.06.010>.

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Imports beepr, broom, chinese.misc, dplyr, DT (>= 0.15), highcharter,
htmlwidgets, ldatuning, parallel, plotly, purrr, quanteda,
shiny, shinyalert, shinyBS, shinycssloaders, shinydashboard,
shinyjs, shinyWidgets, SnowballC, stringr, textmineR, tidyr,
tidytext, tm, topicmodels

Suggests knitr, RColorBrewer, rmarkdown, Rmpfr, scales, magrittr

VignetteBuilder knitr

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

NeedsCompilation no

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R **topics documented:**

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crude   *20 Exemplary News Articles from the Reuters-21578 Data Set of Topic
                               crude*

Description

This data set holds 20 news articles with additional meta information from the Reuters-21578 data
set. All documents belong to the topic crude dealing with crude oil

Usage

```
data("crude")
```

Format

A VCorpus of 20 text documents. source Reuters-21578 Text Categorization Collection Distribu-
tion 1.0 XML format

Value

Object class VCorpus

References

Emms, Martin and Luz, Saturnino (2007). Machine Learning for Natural Language Processing.
European Summer School of Logic, Language and Information, course reader.

Examples

```
data("crude")
crude
```

removeSparseTerms	*removeSparseTerms Remove Sparse Terms from a Term-Document Matrix function original pakage tm*

Description

removeSparseTerms Remove Sparse Terms from a Term-Document Matrix function original pakage tm

Usage

```
removeSparseTerms(x, sparse)
```

Arguments

x	A `DocumentTermMatrix` or a `TermDocumentMatrix`
sparse	A numeric for the maximal allowed sparsity in the range from bigger zero to smaller one.

Value

A term-document matrix where those terms from x are removed which have at least a sparse percentage of empty (i.e., terms occurring 0 times in a document) elements. I.e., the resulting matrix contains only terms with a sparse factor of less than `sparse`

Examples

```
data("crude")
require(tm)
tdm <- tm::TermDocumentMatrix(crude)
removeSparseTerms(tdm, 0.3)
```

runLDAShiny	*Shiny UI for LDAShiny package*

Description

Shiny UI for LDAShiny package

Usage

```
runLDAShiny(host = "127.0.0.1", port = NULL, launch.browser = TRUE)
```

Arguments

host   The IPv4 address that the application should listen on. Defaults to the shiny.host
                      option, if set, or "127.0.0.1" if not.

port   is the TCP port that the application should listen on. If the port is not specified,
                      and the shiny.port option is set (with options(shiny.port = XX)), then that port
                      will be used. Otherwise, use a random port.

launch.browser If true, the system's default web browser will be launched automatically after
                      the app is started. Defaults to true in interactive sessions only. This value of this
                      parameter can also be a function to call with the application's URL.

Value

No return value,just start the GUI

Examples

```
if (interactive()) {
runLDAShiny()
}
```

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