

Package: LDAShiny (via r-universe)

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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](https://doi.org/10.1073/pnas.0307752101)> ; Xiong Hui, et al (2019) <[doi:10.1016/j.cie.2019.06.010](https://doi.org/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

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

Repository <https://javierdelahoz.r-universe.dev>

RemoteUrl <https://github.com/javierdelahoz/ldashiny>

RemoteRef HEAD

RemoteSha 204cfe108f5107762ff143c7881f037f97114df7

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crude	<i>20 Exemplary News Articles from the Reuters-21578 Data Set of Topic crude</i>
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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 Distribution 1.0 XML format

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	<i>removeSparseTerms Remove Sparse Terms from a Term-Document Matrix function original package tm</i>
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Description

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

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")
#library(tm)
# tdm <- 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.

Examples

```
# runLDAShiny()
```

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