Package 'statquotes'

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Title Quotes on Statistics, Data Visualization and Science

Version 0.2.2

Description Generates a random quotation from a data base of quotes on topics in statistics, data visualization and science.

Depends R (>= 3.2.5)

License GPL (>= 2)

Encoding UTF-8

LazyData true

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BugReports https://github.com/friendly/statquotes/issues

Imports stringr, tidytext, wordcloud

RoxygenNote 6.0.1

NeedsCompilation no

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R topics documented:

quotes *Quotes on statistics, data visualization and science*

Description

A data frame with over 200 quotations. The variables are:

Usage

```
data(quotes)
```

Format

A data frame with 231 rows and 5 variables

Details

- `qid` quote ID, a numeric vector
- `topic` main topic, a factor with levels `Computing` `Data` `Data visualization` `History` `Reviews` `Science` `Statistics` `Unclassified`
- `subtopic` sub topic, a factor with levels `Averages` `Box quotes` `Counts` `Design` `Ellipses` `Generalizations` `Milestones` `Pictures` `Tables` `Tidy data` `Time` `Tukey quotes`
- `text` text of the quote, a character vector
- `source` source of the quote, a character vector

quote_cloud *Function to generate word cloud based upon quote database*

Description

This function takes a search pattern (can use regular expressions) and generates a word cloud based upon that filter.

Usage

```
quote_cloud(search = ".*", max.words = 80, colors = NA, ...)
```

Arguments

`search`	A character string; used to search the database. Regular expression characters are allowed. Default is to search all quotes.
`max.words`	Logical; designate maximum number of words to be plotted.
`colors`	A character vector pertaining to the colors to be used to designate word frequency. The default is 5 levels, from light to dark green.
`...`	additional arguments passed to `search_quotes` and `wordcloud`

Value

A wordcloud is plotted.

See Also

statquote, quote_topics, quotes, search_quotes. wordcloud

Examples

```
quote_cloud()
quote_cloud(search = "graph")
quote_cloud(max.words = 10)
```

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quote_topics *List the topics of the quotes data base*

Description

List the topics of the quotes data base

Usage

```
quote_topics(subtopics = FALSE)
```

Arguments

subtopics	logical; if TRUE the subtopics are printed as well with the associated topic

Examples

```
quote_topics()
quote_topics(TRUE)
```

---

search_quotes *Function to search quote database*

Description

This function takes a search pattern (can use regular expressions) and returns all quotes that match the pattern. If fuzzy is FALSE, then only exact matches are returned (case sensitive).

Usage

```
search_quotes(search, fuzzy = FALSE, fields = c("topic", "subtopic", "text",
  "source"), ...)
```

Arguments

search	A character string, used to search the database. Regular expression characters are allowed.
fuzzy	Logical; If TRUE, the function uses agrep to allow approximate matches to the search string.
fields	A character vector pertaining to the particular fields to search. The default is to search everything: ‘c("topic", "subtopic", "text", "source")‘.
...	additional arguments passed to agrep to fine-tune fuzzy search parameters.

Value

A data frame (also with class 'statquote') object containing all quotes that match the search parameters.

See Also

agrep, statquote, quote_topics, quotes

Examples

```
search_quotes("^D") # regex to find all quotes that start with "D"
search_quotes("Tukey") #all quotes with "Tukey"
search_quotes("bad answer", fuzzy = TRUE) # fuzzy match

# to a data.frame
out <- search_quotes("bad answer", fuzzy = TRUE)
as.data.frame(out)
```

---

statquote *Function to display a randomly chosen statistical quote*

Description

This function displays a randomly statistical quote from a collection. The quotations are classified by topics

Usage

```
statquote(ind, topic = NULL, source = NULL)

## S3 method for class 'statquote'
print(x, width = NULL, ...)

## S3 method for class 'statquote'
as.data.frame(x, row.names = NULL, optional = FALSE,
  ...)
```

Arguments

ind	Optional index of a quote; if missing a random value is sampled from the available quotations.
topic	A character string, used to select a subset of the quotes based on the assigned topics.
source	A character string, used to select a subset of the quotes based on the source for the quote.
x	object of class 'statquote'
width	Optional column width parameter
...	Other optional arguments
row.names	see as.data.frame
optional	see as.data.frame

Value

A character vector containing one randomly selected quote from the included data set. It is of class statquote for which an S3 print method will be invoked.

See Also

quote_topics, search_quotes, quotes, Inspired by: gaussfact (https://github.com/eddelbuettel/gaussfacts fortune

Examples

```
set.seed(1234)
statquote()
statquote(source="Tukey")
statquote(topic="science")
statquote(topic="history")
```

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