

Package ‘statquotes’

August 29, 2017

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

Maintainer Michael Friendly <friendly@yorku.ca>

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

Imports stringr, tidytext, wordcloud

RoxygenNote 6.0.1

NeedsCompilation no

Author Michael Friendly [aut, cre],
Phil Chalmers [ctb],
Matthew Sigal [ctb]

Repository CRAN

Date/Publication 2017-08-29 21:24:38 UTC

R topics documented:

quotes	2
quote_cloud	2
quote_topics	3
search_quotes	3
statquote	4

Index	6
--------------	----------

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)
```

quote_topics	<i>List the topics of the quotes data base</i>
--------------	--

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	<i>Function to search quote database</i>
---------------	--

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 \(https://github.com/eddelbuettel/gaussfacts\)](https://github.com/eddelbuettel/gaussfacts), [fortune](#)

Examples

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

Index

*Topic **datasets**

quotes, 2

agrep, 4

as.data.frame, 5

as.data.frame.statquote (statquote), 4

fortune, 5

print.statquote (statquote), 4

quote_cloud, 2

quote_topics, 3, 3, 4, 5

quotes, 2, 3–5

search_quotes, 2, 3, 3, 5

statquote, 3, 4, 4

wordcloud, 2, 3