

Package ‘statquotes’

October 13, 2022

Title Quotes on Statistics, Data Visualization and Science

Version 0.3.1

Date 2022-10-10

Language en-US

Description Generates a random quotation from a data base of quotes on topics in statistics, data visualization and science. Other functions allow searching the quotes database by key term tags, or authors or creating a word cloud.

Depends R (>= 3.5.0)

License GPL (>= 2)

Encoding UTF-8

LazyData true

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

URL <https://github.com/friendly/statquotes/>

Imports stringr, tidytext, wordcloud

RoxygenNote 7.2.1

Suggests knitr, rmarkdown, dplyr, forcats, ggplot2

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2022-10-13 19:10:02 UTC

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as.latex	<i>Coerces statquote objects to strings suitable for LaTeX</i>
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Description

This function coerces statquote objects to strings suitable for rendering in LaTeX. Quotes and (potential LaTeX) sources are placed within suitable "epigraph" output format via the `sprintf` function.

Usage

```
as.latex(quotes, form = "\\epigraph{%s}{%s}\n\n")
```

Arguments

quotes	an object of class statquote returned from functions such as search_quotes or statquote
form	structure of the LaTeX output for the text (first argument) and source (second argument) passed to sprintf

Value

character vector of formatted LaTeX quotes

Author(s)

Phil Chalmers

See Also

[as.data.frame.statquote](#), [as.markdown](#)

Examples

```
ll <- search_quotes("Tukey")
as.latex(ll)
```

as.markdown	<i>Function to transform statquote objects to strings suitable for markdown</i>
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Description

This function coerces statquote objects to strings suitable for rendering in markdown. Quotes and sources are placed within output formatted via the [sprintf](#) function.

This function formats a statquote object to the tagged key:value format used for maintaining the statquotes database. The key names are:

```
quo: This is a quotation.
src: Person or persons who said or wrote the quote.
cit: Citation for the original quote.
url: URL where the quote can be found (such as journal articles).
tag: Comma-separated tags to categorize the quote.
tex: TeX-formatted citation
```

Usage

```
as.markdown(quotes, form = "> *%s* -- %s\n\n", cite = FALSE)
```

```
as.tagged(quotes, qid = TRUE)
```

Arguments

quotes	an object of class statquote returned from functions such as search_quotes or statquote
form	structure of the markdown output for the text (first argument) and source (second argument) passed to sprintf
cite	logical; should the cite field be included in the source output?
qid	logical. Should the quote id number 'qid' be included in the output?

Value

character vector of formatted markdown quotes

A character vector of lines

See Also

[as.data.frame.statquote](#), [as.latex](#)

[as.data.frame.statquote](#), [as.latex](#), [as.markdown](#)

Examples

```
ll <- search_quotes("Tukey")
as.markdown(ll)

qitems <- search_quotes("Yates")
cat(as.tagged(qitems[1:5,]))
```

find_duplicate_quotes *Check for duplicate quotes*

Description

Returns a list with qid, source, and the text where strings are aggressively fuzzy matched.

Usage

```
find_duplicate_quotes()
```

Author(s)

Phil Chalmers

Examples

```
# As the number of quotes has grown, this has become very slow.
# find_duplicate_quotes()
```

 quotes

Quotes on statistics, data visualization and science

Description

A data frame with quotations. The variables are:

Usage

```
data(quotes)
```

Format

A data frame

Details

- `qid` quote ID, a numeric vector
- `text` text of the quote
- `source` person(s) who said the quote.
- `citation` citation of the quote
- `url` URL of the quote
- `tags` tags used for searching
- `tex` TeX-style citation

 quote_cloud

Generate a word cloud based upon quote database

Description

This function takes a search pattern (or regular expression) and generates a word cloud based upon that filter.

Usage

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

Arguments

- | | |
|------------------------|---|
| <code>search</code> | Character string (or regular expression) used to search the database. Default is to search all quotes. |
| <code>max.words</code> | Integer; The maximum number of words to be plotted. |
| <code>colors</code> | A character vector of colors to be used to designate word frequency. The default is 5 levels, from light to dark green. |
| <code>...</code> | additional arguments passed to search_quotes and wordcloud |

Value

None. A wordcloud is plotted.

See Also

[statquote](#), [quote_tags](#), [quotes](#), [search_quotes](#), [wordcloud](#)

Examples

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

quote_tags

List the tags of the quotes database

Description

This function finds the unique tags of items in the quotes database and returns them as vector or a one-way table giving their frequencies.

Usage

```
quote_tags(table = FALSE)
```

Arguments

`table` Logical. If `table=TRUE`, return a one-way frequency table of quotes for each tag; otherwise return the sorted vector of unique tags.

Value

Returns either a vector of tags in the quotes database or a one-way frequency table of the number of quotes for each tag.

Examples

```
quote_tags()  
quote_tags(table=TRUE)  
  
library(ggplot2)  
qt <- quote_tags(table=TRUE)  
qtdf <- as.data.frame(qt)  
# bar plot of frequencies  
ggplot2::ggplot(data=qtdf, aes(x=Freq, y=tags)) +  
  geom_bar(stat = "identity")  
  
# Sort tags by frequency
```

```

qtdf |>
  dplyr::mutate(tags = forcats::fct_reorder(tags, Freq)) |>
  ggplot2::ggplot(aes(x=Freq, y=tags)) +
  geom_bar(stat = "identity")

```

search_quotes

Search the quote database for a string or regex pattern

Description

This function takes a search pattern (or regular expression) and returns all quotes that match the pattern.

A convenient wrapper for search quotes that by default returns all quotes

Usage

```

search_quotes(
  search,
  ignore_case = TRUE,
  fuzzy = FALSE,
  fields = c("text", "source", "tags"),
  ...
)

search_text(search, fuzzy = FALSE, ...)

get_quotes(search = ".*", ...)

```

Arguments

search	A character string or regex pattern to search the database.
ignore_case	If TRUE, matching is done without regard to case.
fuzzy	If TRUE, use agrep to allow approximate matches to the search string.
fields	A character vector of the particular fields to search. The default is <code>c("text", "source", "tags")</code> . You can use the shortcut <code>fields="all"</code> to search all fields (including citation, url).
...	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.

A data frame (also with class 'statquote') object containing all quotes.

See Also

[agrep](#), [statquote](#).

Examples

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

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

search_text("omnibus")
qdb <- get_quotes()
nrow(qdb)
names(qdb)
```

statquote

Display a randomly chosen statistical quote.

Description

Display a randomly chosen statistical quote.

Usage

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

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

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

Arguments

ind	Integer or character. If 'ind' is missing, a random quote is chosen from all quotations. If 'ind' is specified and is an integer, return the ind th quote. If 'ind' is specified and is character, use it as the 'pattern'.
pattern	Character string. Quotes are subset to those which match the pattern in the quote text.
tag	Character string. Quotes are subset to those matching the specified tag.
source	Character string. Quotes are subset to those matching the specified source (person).
topic	Deprecated. Use 'tag' instead. Only kept for backward compatibility.

x	object of class 'statquote'
cite	logical; should the cite field be printed?
width	Optional print width parameter
...	Other optional arguments, unused here
row.names	see as.data.frame
optional	see as.data.frame

Value

A character vector containing one quote. It is of class `statquote` for which an S3 print method will be invoked, and for which other methods are available.

See Also

[quote_tags](#), [search_quotes](#), [quotes](#), Inspired by: [fortune](#)
[as.latex](#), [as.markdown](#)

Examples

```
set.seed(1234)
statquote()
statquote(10)
statquote("boggled")
statquote(pattern="boggled")
statquote(source="Yates")
statquote(tag="anova")
print.data.frame(statquote(302)) # All information
```

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