

# Package ‘statquotes’

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**Title** Quotes on Statistics, Data Visualization and Science

**Version** 0.2.6

**Date** 2022-03-03

**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 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** 7.1.2

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**NeedsCompilation** no

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as.latex	<i>Function 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 <code>search_quotes</code> or <code>statquote</code>
form	structure of the LaTeX output for the text (first argument) and source (second argument) passed to <code>sprintf</code>

### Value

character vector of formatted LaTeX quotes

### Examples

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

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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 format via the [sprintf](#) function.

### Usage

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

### Arguments

quotes	an object of class statquote returned from functions such as <a href="#">search_quotes</a> or <a href="#">statquote</a>
form	structure of the markdown output for the text (first argument) and source (second argument) passed to <a href="#">sprintf</a>

### Value

character vector of formatted markdown quotes

### Examples

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

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find_duplicate_quotes	<i>Check for duplicates in master .csv file</i>
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### 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**

```
# find_duplicate_quotes()
```

---

quotes	<i>Quotes on statistics, data visualization and science</i>
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**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

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quote_cloud	<i>Function to generate word cloud based upon quote database</i>
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**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, ...)
```

**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 <a href="#">search_quotes</a> and <a href="#">wordcloud</a>

**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	<i>List the topics of the quotes data base</i>
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**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
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**Examples**

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

---

search_quotes	<i>Search the quote database for a string or regex pattern</i>
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### Description

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

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

### Usage

```
search_quotes(search, ignore_case = TRUE, fuzzy = FALSE, fields = NULL, ...)
```

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

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

### Arguments

search	A character string, used to search the database. Regular expression characters are allowed.
ignore_case	Logical; If TRUE, matching is done without regard to case.
fuzzy	Logical; If TRUE, the function uses <a href="#">agrep</a> 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", "TeXsource")'.
...	additional arguments passed to <a href="#">agrep</a> 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. This is meant to be assigned to name rather than printed.

### 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)

qdb <- get_quotes()
nrow(qdb)
names(qdb)

```

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statquote

*Function to display a randomly chosen statistical quote*


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**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, or a vector of such integer indices 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 <a href="#">as.data.frame</a>
optional	see <a href="#">as.data.frame</a>

**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(123)
statquote(source="Tukey")
statquote(topic="science")
statquote(topic="history")
```



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