Package ‘modelwordcloud’

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Title Model Word Clouds
Version 0.1
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Description Makes a word cloud of text, sized by the frequency of the word, and colored either by user-specified colors or colored by the strength of the coefficient of that text derived from a regression model.
License LGPL-2.1
LazyData true
Imports methods, graphics, stats
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Suggests testthat
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\textbf{R topics documented:}

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\begin{itemize}
  \item \texttt{wordcloud} \hspace{1cm} Make a word cloud.
\end{itemize}

Description

Make a word cloud.
Usage

wordcloud(model_object = NULL, words = NULL, freq = NULL, coefficients = NULL, colors = "black", scale = c(4, 0.5), min_freq = 3, max_words = Inf, random_order = FALSE, random_color = FALSE, rot_per = 0, bg_color = "#FFFFFF")

Arguments

model_object lm. A linear model object. If this is passed, words, freq, and coefficients can be derived and do not need to be passed.

words character. A vector of words to plot.

freq numeric. The frequency of those words.

coefficients numeric. If provided, colors will be assigned according to coefficients.

colors character. The colors to use for plotting.

scale numeric. The range of sizes.

min_freq numeric. Words with less frequency than this will not be plotted.

max_words numeric. Don’t plot more words than this amount.

random_order logical. Should words be plotted in a random_order or by frequency (default FALSE)?

random_color logical. Allocate words a color by random? (default FALSE).

rot_per numeric. Amount of rotation to apply to each word, between 0 and 1. Defaults to 0 (no rotation).

bg_color character. The color of the background.

Examples

data(iris)
model <- lm(Petal.Width ~ Species, iris)
library(modelwordcloud)
colors <- c("red", "orange", "blue")
wordcloud(model, colors = colors)
words_and_freqs <- rle(as.character(iris$Species))
freqs <- words_and_freqs$lengths
words <- words_and_freqs$values
coefficients <- model$coefficients
wordcloud(words = words, freq = freqs, coefficients = coefficients, colors = colors)
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