

Package ‘speechanalysis’

January 13, 2021

Title A Package to Provide Graphical Summaries of Speech Data

Version 0.0.0.9000

Date 2021-01-14

Description Provides a number of functions which produce graphical summaries of speech data. An example dataset is provided, which consists of 10 speeches made by Donald Trump throughout September 2020.

License GPL-2 | GPL-3

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

Depends R (>= 2.10)

Imports tidyverse, tidytext, lubridate, scales

RoxygenNote 7.1.1

Suggests knitr,
rmarkdown

VignetteBuilder knitr

R topics documented:

plot_tf_idf	1
trump_speeches	2
word_frequency	3
Index	4

plot_tf_idf	<i>Most Frequent Words per Speech, by tf-idf Index</i>
-------------	--

Description

Produces a plot of the most frequent words used (in descending order) during a collection of speeches. The plot is faceted by the location of the speech, and uses the tf-idf index to determine word frequencies.

Usage

```
plot_tf_idf(df, n_words = 10)
```

Arguments

df A dataframe with the following columns: 'speech' <chr>, 'location' <chr>, 'date' <date>

n_words <int> The number of 'top' values to plot

Value

<ggplot> A plot of the most frequent words used

Author(s)

1073945 <1073945>

Examples

```
plot_tf_idf(trump_speeches, 10)
```

trump_speeches	<i>Trump Speech Data</i>
----------------	--------------------------

Description

A dataset consisting of 10 speeches made by Donald Trump throughout September 2020.

Usage

```
trump_speeches
```

Format

A data.frame with 10 rows and 3 columns:

speech Speech transcript

location Location of speech

date Date of speech

Source

???

Examples

```
# plot the top 10 most frequent words, according to their tf-idf index
plot_tf_idf(trump_speeches, 10)
```

word_frequency*Graph of word usage of a data set*

Description

This function provides a graph using ggplot2 of a data set containing speeches.

Usage

```
word_frequency(df, words_to_graph)
```

Arguments

df A dataframe with the following columns: 'speech' <chr>, 'location' <chr>, 'date' <date>

words_to_graph A collection of words for which the user wants graphs plotted

Value

A named vector of a plot:

plot The data plotted in a graph.

Author(s)

10701983 <10701983>

Examples

```
word_frequency(trump_speeches, c("america", "biden", "China"))
```

Index

* **datasets**

trump_speeches, [2](#)

plot_tf_idf, [1](#)

trump_speeches, [2](#)

word_frequency, [3](#)