Package 'highlightr'

October 17, 2024

```
Title Highlight Conserved Edits Across Versions of a Document
Version 1.0.2
Description Input multiple versions of a source document,
      and receive HTML code for a highlighted version of the source document
      indicating the frequency of occurrence of phrases in the different versions.
      This method is described in Chapter 3 of
      Rogers (2024) <a href="https://digitalcommons.unl.edu/dissertations/AAI31240449/">https://digitalcommons.unl.edu/dissertations/AAI31240449/>.
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collocate_comments

Collocation of Comments

Description

This function provides the frequency of collocations in comments that correspond to the provided transcript.

Usage

```
collocate_comments(transcript_token, note_token, collocate_length = 5)
```

Arguments

```
transcript_token
transcript token to act as baseline for notes, resulting from token_transcript()

note_token
tokenized document of notes, resulting from token_comments()

collocate_length
the length of the collocation. Default is 5
```

Value

data frame of the transcript and corresponding note frequency

Examples

```
comment_example_rename <- dplyr::rename(comment_example, page_notes=Notes)
toks_comment <- token_comments(comment_example_rename[1:100,])
transcript_example_rename <- dplyr::rename(transcript_example, text=Text)
toks_transcript <- token_transcript(transcript_example_rename)
collocation_object <- collocate_comments(toks_transcript, toks_comment)</pre>
```

Description

This function provides the frequency of collocations in comments that correspond to the provided transcript, using fuzzy matching.

Usage

```
collocate_comments_fuzzy(transcript_token, note_token, collocate_length = 5)
```

Arguments

```
transcript_token
transcript token to act as baseline for notes, resulting from token_transcript()
note_token
tokenized document of notes, resulting from token_comments()
collocate_length
the length of the collocation. Default is 5
```

Value

data frame of the transcript and corresponding note frequency

Examples

```
comment_example_rename <- dplyr::rename(comment_example, page_notes=Notes)
toks_comment <- token_comments(comment_example_rename)
transcript_example_rename <- dplyr::rename(transcript_example, text=Text)
toks_transcript <- token_transcript(transcript_example_rename)
collocation_object <- collocate_comments_fuzzy(toks_transcript, toks_comment)</pre>
```

collocation_plot

Map collocation to ggplot object

Description

This assigns colors based on frequency to the words in the transcript.

Usage

```
collocation_plot(
  frequency_doc,
  n_scenario = 1,
  colors = c("#f251fc", "#f8ff1b")
)
```

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Arguments

frequency_doc document of frequencies (returned from transcript_frequency())

n_scenario number of scenarios for which this transcript appeared. Defualt is 1

colors list for color specification for the gradient. Default is c("#f251fc","#f8ff1b")

Value

list of plot, plot object, and frequency

Examples

```
comment_example_rename <- dplyr::rename(comment_example, page_notes=Notes)
toks_comment <- token_comments(comment_example_rename)
transcript_example_rename <- dplyr::rename(transcript_example, text=Text)
toks_transcript <- token_transcript(transcript_example_rename)
collocation_object <- collocate_comments_fuzzy(toks_transcript, toks_comment)
merged_frequency <- transcript_frequency(transcript_example_rename, collocation_object)
freq_plot <- collocation_plot(merged_frequency)</pre>
```

comment_example

Comment Example Dataset

Description

Participant comments for the initial description used in the jury perception study

Usage

```
comment_example
```

Format

```
comment_example:
```

A data frame with 125 rows and 2 columns:

ID Participant Identifier

Notes Participant notes

Source

```
Jury Perception Study (see Rogers (2024) https://digitalcommons.unl.edu/dissertations/AAI31240449/)
```

highlighted_text 5

Description

Adds html tags to create a highlighted testimony corresponding to word frequency.

Usage

```
highlighted_text(plot_object, labels = c("", ""))
```

Arguments

plot_object plot object resulting from collocation_plot()
labels lower and upper labels for the gradient scale

Value

html code for highlighted text

Examples

```
comment_example_rename <- dplyr::rename(comment_example, page_notes=Notes)
toks_comment <- token_comments(comment_example_rename)
transcript_example_rename <- dplyr::rename(transcript_example, text=Text)
toks_transcript <- token_transcript(transcript_example_rename)
collocation_object <- collocate_comments_fuzzy(toks_transcript, toks_comment)
merged_frequency <- transcript_frequency(transcript_example_rename, collocation_object)
freq_plot <- collocation_plot(merged_frequency)
page_highlight <- highlighted_text(freq_plot, merged_frequency)</pre>
```

token_comments

Tokenize comments

Description

This function tokenizes comments that are to be used in collocate_comments_fuzzy() or collocate_comments()

Usage

```
token_comments(comment_document)
```

Arguments

```
comment_document
```

document containing notes by individual, where the column containing the notes is named page_notes

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Value

tokenized comments

Examples

```
comment_example_rename <- dplyr::rename(comment_example, page_notes=Notes)
toks_comment <- token_comments(comment_example_rename)</pre>
```

token_transcript

Tokenize Transcript

Description

This function tokenizes a transcript document that is to be used in collocate_comments_fuzzy() or collocate_comments()

Usage

```
token_transcript(transcript_file)
```

Arguments

transcript_file

data frame of the transcript, where the transcript text is in a column named text.

Value

a tokenized object

Examples

```
transcript_example_rename <- dplyr::rename(transcript_example, text=Text)
toks_transcript <- token_transcript(transcript_example_rename)</pre>
```

transcript_example

Transcript Example

Description

Text corresponding to participant comments

Usage

```
transcript_example
```

transcript_frequency 7

Format

```
transcript_example:
A data frame with 1 row and 1 column:

Text Transcript text corresponding to the jury perception study
```

Source

```
Jury Perception Study (see Rogers (2024) https://digitalcommons.unl.edu/dissertations/AAI31240449/ and Garrett et. al. (2020) doi:10.1037/lhb0000423)
```

Description

This function connects the collocation frequency calculated in collocate_comments_fuzzy() to the base transcript.

Usage

```
transcript_frequency(transcript, collocate_object)
```

Arguments

Value

a dataframe of the transcript document with collocation values by word

Examples

```
comment_example_rename <- dplyr::rename(comment_example, page_notes=Notes)
toks_comment <- token_comments(comment_example_rename)
transcript_example_rename <- dplyr::rename(transcript_example, text=Text)
toks_transcript <- token_transcript(transcript_example_rename)
collocation_object <- collocate_comments_fuzzy(toks_transcript, toks_comment)
merged_frequency <- transcript_frequency(transcript_example_rename, collocation_object)</pre>
```

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wiki_pages

Wikipedia Edit History for "Highlighter"

Description

Text corresponding to versions of the Wikipedia article for Highlighter

Usage

```
wiki_pages
```

Format

```
wiki_pages:
```

A data frame with 50 rows and 1 column:

page_notes text of the Wikipedia page for Highlighter

Source

Wikipedia: https://en.wikipedia.org/w/index.php?title=Highlighter&action=history

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