

Package: highlightr (via r-universe)

September 17, 2024

Title Highlight Conserved Edits Across Versions of a Document

Version 1.0.0.9000

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)
<<https://digitalcommons.unl.edu/dissertations/AAI31240449/>>.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Imports dplyr, fuzzyjoin, ggplot2, magrittr, purrr, quanteda, quanteda.textstats, stringi, stringr, tibble, tidyr, tm

Depends R (>= 2.10)

LazyData true

URL <https://rachelesrogers.github.io/highlightr/>,
<https://github.com/rachelesrogers/highlightr>

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

BugReports <https://github.com/rachelesrogers/highlightr/issues>

Repository <https://rachelesrogers.r-universe.dev>

RemoteUrl <https://github.com/rachelesrogers/highlightr>

RemoteRef HEAD

RemoteSha 9bd91504b97320a272cc53f6b11e10997aff6e9d

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| | |
|--------------------|--------------------------------|
| collocate_comments | <i>Collocation of Comments</i> |
|--------------------|--------------------------------|

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)
transcript_example_rename <- dplyr::rename(transcript_example, text=Text)
toks_transcript <- token_transcript(transcript_example_rename)
collocation_object <- collocate_comments(toks_transcript, toks_comment)
```

collocate_comments_fuzzy
Collocate Comments Fuzzy

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)
```

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")
)
```

Arguments

frequency_doc document of frequencies (returned from `transcript_frequency()`)
 n_scenario number of scenarios for which this transcript appeared. Default 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(tok_s_transcript, toks_comment)
merged_frequency <- transcript_frequency(transcript_example_rename, collocation_object)
freq_plot <- collocation_plot(merged_frequency)
```

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 | <i>Create Highlighted Testimony</i> |
|------------------|-------------------------------------|

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 <code>collocation_plot()</code> |
| 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(tok_s_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)
```

| | |
|----------------|--------------------------|
| token_comments | <i>Tokenize comments</i> |
|----------------|--------------------------|

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 <code>page_notes</code> |
|------------------|---|

Value

tokenized comments

Examples

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

| | |
|------------------|----------------------------|
| token_transcript | <i>Tokenize Transcript</i> |
|------------------|----------------------------|

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)
```

| | |
|--------------------|---------------------------|
| transcript_example | <i>Transcript Example</i> |
|--------------------|---------------------------|

Description

Text corresponding to participant comments

Usage

```
transcript_example
```

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) <https://psycnet.apa.org/doiLanding?doi=10.1037%2F1hb0000423>)

transcript_frequency *Mapping Collocation Frequency to Transcript Document*

Description

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

Usage

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

Arguments

transcript transcript document

collocate_object

collocation object (returned from `collocate_comments_fuzzy()` or `collocate_comments()`)

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)
```

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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