Package 'storyshapes'

January 14, 2023

Title Shape of Stories

Version 0.0.1	
Description A set of functions, palettes and options used for the shape_of_stories project, which can be applied to matrices of word embeddings and vectors of semantic dimensions.	
License: MIT + file LICENSE	
Encoding UTF-8	
Roxygen list(markdown = TRUE)	
Imports ggplot2	
RoxygenNote 7.1.2	
NeedsCompilation no	
-	
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2 assign_rownames

add

Addition

Description

Add together two numbers

Usage

```
add(x, y)
```

Arguments

x A number.y A number.

Value

A numeric vector.

Examples

```
add(1, 1)
add(10, 1)
```

assign_rownames

Make first column of matrix the rownames and drop

Description

Make first column of matrix the rownames and drop

Usage

```
assign_rownames(embedding)
```

Arguments

embedding

A dataframe.

Value

The same dataframe with the first row as the row.names

Examples

```
embedding <- assign_rownames(embedding)</pre>
```

cos 3

cos

Cosine Similarity

Description

Cosine Similarity

Usage

```
cos(x, y)
```

dimension

Calculate semantic dimension from antonym pair

Description

Calculate semantic dimension from antonym pair

Usage

```
dimension(x, y)
```

dot

Dot product

Description

Dot product

Usage

dot(x, y)

dropMT

Drop Empty

Description

Drop empty rows from a dataframe

Usage

dropMT(x)

Arguments

Х

A dataframe, matrix, or vector.

Value

The same object without any empty rows

4 howmuch

exponent

Exponentiate

Description

Exponentiate a number or vector to a given power

Usage

```
exponent(x, power)
```

Arguments

x The number or vector to exponentiate

power The power to exponentiate to

howmuch

Count the number of unique elements in a list or vector

Description

Count the number of unique elements in a list or vector

Usage

howmuch(x)

Arguments

Х

A list or vector

Value

the number of unique elements in the vector or list

Examples

Х

load_embedding 5

load_embedding

Load word embedding

Description

Function for loading a word embedding

Usage

```
load_embedding(path, source = c("Google", "GloVe", "fastText"))
```

Arguments

path A valid string path to the word embedding file

source indicating the source of the embedding file either, "Google", "GloVe", or "fast-

Text"

make_dim

Make semantic dimension

Description

Make semantic dimension

Usage

```
make_dim(embedding, pairs)
```

Arguments

embedding A word embedding in the form of a matrix

pairs A set of antonym pairs

Value

A dataframe with the projections

norm_vec

Calculate norm of vector

Description

Calculate norm of vector

Usage

```
norm\_vec(x)
```

6 twenty3pal

standardize

Standardize a variable

Description

This needs to be changed to keep the rownames

Usage

```
standardize(x)
```

Arguments

х

A variable,

suppress_ticks

Suppress tick marks

Description

For suppressing tick labels in ggplot

Usage

```
suppress_ticks
```

Format

An object of class theme (inherits from gg) of length 4.

Examples

```
ggplot(df, aes(x = VAR1, y = VAR2)) + geom_scatter() + suppress_ticks
```

twenty3pal

2023 Color Palette

Description

A color palette for the year 2023.

Usage

twenty3pal

Format

An object of class character of length 5.

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