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.

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Encoding UTF-8

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RoxygenNote 7.1.2

NeedsCompilation no

Author Timothy Elder [aut, cre]

Maintainer Timothy Elder <jon.snow@jonsnow.ac.uk>

R topics documented:

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)
```

| 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

x   A dataframe, matrix, or vector.

Value

The same object without any empty rows

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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

x   A list or vector

Value

the number of unique elements in the vector or list

Examples

```
x
```

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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 "fastText"

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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)
```

standardize	*Standardize a variable*

Description

This needs to be changed to keep the rownames

Usage

```
standardize(x)
```

Arguments

x   A variable,

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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