

Package ‘plotWikipedia’

July 29, 2016

Type Package

Title Do t-SNE and plot the Wikipedia Data

Version 0.99.0

Date 2016-08-06

Author Koki Tsuyuzaki

Maintainer Koki Tsuyuzaki <koki.tsuyuzaki@gmail.com>

Depends Rtsne, igraph

Suggests testthat

Description This package contains the data and the function of Wikipedia.

License Artistic-2.0

R topics documented:

plotWikipedia-package	1
graph.Wiki	2
HyperLink	3
tsne.Wiki	3
Word2Vec	4
Index	5

plotWikipedia-package *Do t-SNE and plot the Wikipedia Data*

Description

This package contains the data and the function of Wikipedia.

Details

The DESCRIPTION file: This package was not yet installed at build time.

Index: This package was not yet installed at build time.

Author(s)

Koki Tsuyuzaki

Maintainer: Koki Tsuyuzaki <koki.tsuyuzaki@gmail.com>

References

Laurens van der Maaten and Geoffrey Hinton (2008). Visualizing Data using t-SNE. Journal of Machine Learning Research Vol. 1, 1-48

See Also

[HyperLink](#), [Word2Vec](#), [graph.Wiki](#), [tsne.Wiki](#)

Examples

```
ls("package:plotWikipedia")
```

graph.Wiki	<i>igraph function for the adjacent matrix of Wikipedia</i>
------------	---

Description

This function performs graph visualization against [HyperLink](#).

Usage

```
graph.Wiki(x, ...)
```

Arguments

x	HyperLink
...	Some parameters for igraph

Value

A graph output

Author(s)

Koki Tsuyuzaki

See Also

[HyperLink](#),

Examples

```
data(HyperLink)
graph.Wiki(HyperLink, vertex.size=log10(rowSums(HyperLink)+1), vertex.color=rgb(0,1,1,0.5), edge.width=0.1)
```

HyperLink	<i>A Adjacent Matrix of Wikipedia, which means the relation of hyper-link</i>
-----------	---

Description

This matrix has *** rows and *** columns (documents).

Usage

```
data("HyperLink")
```

Format

The format is: int [1:6000, 1:6000] 0 0 0 0 1 0 0 0 0 1 ...

Source

https://en.wikipedia.org/wiki/Pokémon_Go

Examples

```
data(HyperLink)
```

tsne.Wiki	<i>t-SNE function for the matrix of Wikipedia converted by word2vec</i>
-----------	---

Description

This function performs t-SNE against Word2Vec.

Usage

```
tsne.Wiki(x, ...)
```

Arguments

x	Word2Vec
...	Some parameters for Rtsne

Value

Rtsne object

Author(s)

Koki Tsuyuzaki

References

Laurens van der Maaten and Geoffrey Hinton (2008). Visualizing Data using t-SNE. Journal of Machine Learning Research Vol. 1, 1-48

See Also

[Word2Vec](#),

Examples

```
data(Word2Vec)
res.tsne <- tsne.Wiki(Word2Vec, dims=2)
plot(res.tsne$Y, pch=16, main="t-SNE of Pokemon GO-related Wikipedia pages", col=rgb(0,0,0,0.5), xlab="Dim1"
```

Word2Vec	<i>A Matrix of Wikipedia converted by word2vec</i>
----------	--

Description

This matrix has *** rows (documents) and 100 columns (dimension).

Usage

```
data("Word2Vec")
```

Format

The format is: num [1:6000, 1:100] 0.0525 0.7594 0.9145 0.4018 0.6652 ... - attr(*, "dimnames")=List of 2 ..\$: chr [1:6000] "Page1" "Page2" "Page3" "Page4"\$: chr [1:100] "Dim1" "Dim2" "Dim3" "Dim4" ...

Source

https://en.wikipedia.org/wiki/Pokémon_Go

Examples

```
data(Word2Vec)
```

Index

*Topic **datasets**

HyperLink, [3](#)

Word2Vec, [4](#)

*Topic **package**

plotWikipedia-package, [1](#)

graph.Wiki, [2](#), [2](#)

HyperLink, [2](#), [3](#)

plotWikipedia (plotWikipedia-package), [1](#)

plotWikipedia-package, [1](#)

tsne.Wiki, [2](#), [3](#)

Word2Vec, [2](#), [4](#), [4](#)