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   *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   *igraph function for the adjacent matrix of Wikipedia*

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	*A Adjacent Matrix of Wikipedia, which means the relation of hyperlink*

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	*t-SNE function for the matrix of Wikipedia converted by word2vec*

Description

This function performs t-SNE against Word2Vec.

Usage

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

Arguments

x	Word2Vec
...	Some parameters for Rtsne

Value

Rtsne obeject

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   *A Matrix of Wikipedia converted by word2vec*

Description

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

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