Package: clustringr (via r-universe)

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Type Package
Title Cluster Strings by Edit-Distance
Version 1.0
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Description Returns an edit-distance based clusterization of an input vector of strings. Each cluster will contain a set of strings w/ small mutual edit-distance (e.g., levenshtein, optimum-sequence-alignment, damerau-lev), as computed by stringdist::stringdist(). The set of all mutual edit-distances is then used by g graph algorithms (from package igraph) to single out subsets of high connectivity.
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Encoding UTF-8
LazyData true
Imports magrittr, dplyr, stringi, stringr, stringdist, igraph, assertthat, forcats, rlang, tidygraph, ggraph, ggplot2
Depends R (>= 3.1)
RoxygenNote 6.1.1
Repository https://dan-reznik.r-universe.dev
RemoteUrl https://github.com/dan-reznik/clustringr
RemoteRef HEAD
RemoteSha ad2b777bbf3537bcd0043c0c14207252a5a5efc8
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cluster_plot

Plot string clusters as graph.

Description

Plot string clusters as graph.

Usage

```
cluster_plot(cluster, min_cluster_size = 2, label_size = 2.5,
    repel = T)
```

Arguments

```
cluster string clusters returned from 'cluster_strings()'
min_cluster_size
minimum size for clusters to be plotted.

label_size how big should the cluster name fonts be.

repel whether to "repel" (so cluster names won't overlap)
```

Value

```
a graph plot (using 'ggraph') of the string clusters.
```

Examples

```
s_vec <- c("alcool","alcohol","alcoholic","brandy","brandie","cachaça")
s_clust <- cluster_strings(s_vec,method="lv",max_dist=3,algo="cc")
cluster_plot(s_clust,min_cluster_size=1)</pre>
```

cluster_strings

Cluster Strings by Edit-Distance

Description

Cluster Strings by Edit-Distance

Usage

```
cluster_strings(s_vec, clean = T, method = "osa", max_dist = 3,
    algo = "cc")
```

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Arguments

s_vec a v	ector of character	strings
-----------	--------------------	---------

clean whether to space-squish and de-duplicate s_vec

method one of "osa", "lv", "dl" (as in 'stringdist')

max_dist max distance (typically damerau-levenshtein) between related strings.

algo one of "cc" (connected components) or "eb" (edge betweeness)

Value

a data frame containing cluster membership for each input string

Examples

```
s_vec <- c("alcool","alcohol","alcoholic","brandy","brandie","cachaça")
s_clust <- cluster_strings(s_vec,method="lv",max_dist=3,algo="cc")
s_clust$df_clusters</pre>
```

quijote_words

Distinct words in Cervantes' "Don Quijote".

Description

Dataframe listing all distinct words (length>3), their length, and frequency of appearance in text.

Usage

```
quijote_words
```

Format

```
A data frame w/ ~22k rows and 3 cols:
```

word the unique word, in Spanish

len the word's length

freq number of appearances in text

Source

```
http://www.gutenberg.org/cache/epub/2000/pg2000.txt
```

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