Package 'graphTweets'

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Type Package		
Title Visualise Twitter Interactions		
Version 0.2		
Date 2016-02-26		
Maintainer John Coene <jcoenep@gmail.com></jcoenep@gmail.com>		
Description Allows building an edge table from data frame of tweets, also provides function to build vertices (meta-data).		
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Depends R (>= $3.0.0$)		
Imports reshape2, dplyr		
RoxygenNote 5.0.1		
<pre>URL https://github.com/JohnCoene/graphTweets</pre>		
<pre>BugReports https://github.com/JohnCoene/graphTweets/issues Suggests testthat</pre>		
R topics documented:		
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getEdges getEdges		
Description Builds a table of edges (source, target) from a list of tweets by subsetting @tags from the text.		
Usage		
<pre>getEdges(data, tweets, source, str.length = NULL,)</pre>		

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Arguments

data	data.frame of tweets, typically returned by searchTwitter, required
tweets	Column name of tweets within data, must be a character string, required.
source	User names or ID column of tweets author, must be a character string, required.
str.length	Defaults to NULL. Shorten length of @tags (see details), to a maximum number of characters, optional.
	Any other columns to be passed on to the edges.

Details

The edges function takes in a data frame of tweets, typically obtained from the twitter Search or Streaming API, scrapes the content of tweets to subset the @tags subsequently forming a table of edges. @tags are subsets of regular expressions between at-signs (@) and first space (" "). Note that the table of edges returned is meant for a directed graph. Node labels can be shortened using the strLength parameters. This is useful for non-latin alphabet where nodes may be wrongly identified.

Author(s)

```
John Coene < john.coene@gmail.com>
```

See Also

twitteR and streamR packages wherefrom the data (tweets_df) can be obtained.

Examples

```
## Not run:
# load twitteR
library(twitteR)
# authenticate
token <- setup_twitter_oauth(consumer_key, consumer_secret,</pre>
                               access_token=NULL, access_secret=NULL)
# search tweets
tweets <- searchTwitter("rstats", n = 200)</pre>
# unlist to data.frame
tweets <- twListToDF(tweets)</pre>
# get edges
edges <- getEdges(data = tweets, tweets = "text", source = "screenName")</pre>
# get edges with coordinates
edges <- getEdges(data = tweets, tweets = "text", source = "screenName",</pre>
                   "longitude", "latitude")
# load igraph
library(igraph)
# plot
g <- graph.data.frame(edges, directed=TRUE)</pre>
```

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```
plot(g)
## End(Not run)
```

getNodes

getNodes

Description

get nodes from a data.frame of edges as typically returned by getEdges

Usage

```
getNodes(edges, source = "source", target = "target", ...)
```

Arguments

edges data.frame of edges as typically returned by getEdges
source Column of source nodes in edges, must be a character string, defaults to source.

target Column of target nodes in edges, must be a character string, required.
... Any other columns to be passed on to the source nodes - will not be applied to

target nodes.

Details

Duplicate values are dropped, additional arguments (...) are only applied to nodes from source.

Author(s)

```
John Coene < jcoenep@gmail.com>
```

Examples

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```
nodes <- getNodes(edges)

# load igraph
library(igraph)

# plot
g <- graph.data.frame(edges, directed=TRUE, vertices = nodes)
plot(g)

## End(Not run)</pre>
```

graphTweets

graphTweets visualise Twitter Interactions.

Description

- getEdges get edges from tweets
- getNodes add meta-data to vertices

Examples

```
## Not run:
# authenticate
token <- twitteR::setup_twitter_oauth(consumer_key, consumer_secret,</pre>
                                        access_token=NULL, access_secret=NULL)
# search tweets
tweets <- twitteR::searchTwitter("rstats", n = 200)</pre>
# unlist to data.frame
tweets <- twitteR::twListToDF(tweets)</pre>
# load graphTweets
library(graphTweets)
# get edges
edges <- getEdges(data = tweets, tweets = "text", source = "screenName")</pre>
# load igraph
library(igraph)
# plot
g <- graph.data.frame(edges, directed=TRUE)</pre>
plot(g)
## End(Not run)
```

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