

Package ‘voson.tcn’

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Title Twitter Conversation Networks and Analysis

Description Collects tweets and metadata for threaded conversations and generates networks.

Version 0.1.8

Type Package

Imports dplyr, httr, jsonlite, magrittr, openssl, rlang, stringr,
tibble, tidyr

Depends R (>= 3.6)

License GPL (>= 3)

Encoding UTF-8

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NeedsCompilation no

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`tcn_network`*Generate network from conversation tweets*

Description

Creates the nodes and edges for a Twitter conversation network. An "activity" type network with tweets as nodes, or an "actor" type with users as nodes can be created.

Usage

```
tcn_network(data = NULL, type = "actor")
```

Arguments

<code>data</code>	Named list. Dataframes of threaded conversation tweets and users collected by <code>get_threads</code> function.
<code>type</code>	Character string. Type of network to generate, either "actor" or "activity". Default is "actor".

Value

Named list of dataframes for network nodes and edges.

Examples

```
## Not run:  
# generate twitter conversation network  
network <- tcn_network(tweets, "activity")  
  
# network nodes and edges  
network$nodes  
network$edges  
  
## End(Not run)
```

`tcn_threads`*Get threaded conversation tweets*

Description

Collects tweets that share the same Twitter conversation ID as supplied tweets.

Usage

```
tcn_threads(
  tweet_ids = NULL,
  token = NULL,
  end_point = "recent",
  skip_list = NULL
)
```

Arguments

tweet_ids	List. Tweet ids of any tweet that are part of the threaded conversations of interest. Also accepts a list of tweet URLs or a mixed list.
token	List. Twitter API tokens.
end_point	Character string. Twitter API v2 search end-point. Can be either "recent" for the last 7 days or "all" if users app has access to historical tweets. Default is "recent".
skip_list	Character vector. List of tweet conversation IDs to skip searching if found. This list is automatically appended with conversation_id's when collecting multiple conversation threads to prevent search duplication.

Value

A dataframe of tweets.

Examples

```
## Not run:
# get twitter conversation threads by tweet ids or urls
tweet_ids <- c("xxxxxxx",
              "https://twitter.com/xxxxxxx/status/xxxxxxx")
tweets <- tcn_threads(tweet_ids, token)

## End(Not run)
```

tcn_token	<i>Get a twitter API access token</i>
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Description

Assigns a bearer token to the token object or retrieves a bearer token from the Twitter API using a Twitter apps consumer keys.

Usage

```
tcn_token(bearer = NULL, consumer_key = NULL, consumer_secret = NULL)
```

Arguments

bearer Character string. App bearer token.
consumer_key Character string. App consumer key.
consumer_secret Character string. App consumer secret.

Value

Named list containing the token.

Examples

```
## Not run:  
  
# assign bearer token  
token <- tcn_token(bearer = "xxxxxxx")  
  
# retrieve twitter app bearer token  
token <- tcn_token(consumer_key = "xxxxxxx",  
                  consumer_secret = "xxxxxxx")  
  
## End(Not run)
```

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