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)

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R topics documented:

tcn_network .............................................................. 2
tcn_threads .............................................................. 2
tcn_token ................................................................. 3

Index 5

1
**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**

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

**Arguments**

- **data**
  - Named list. Dataframes of threaded conversation tweets and users collected by `get_threads` function.
- **type**
  - 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**

```r
## Not run:
# generate twitter conversation network
twitter_conversation <- tcn_network(tweets, "activity")

# network nodes and edges
twitter_conversation$nodes
twitter_conversation$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.

drop_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

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

---

tcn_token

Get a twitter API access token

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

```r
## Not run:

# assign bearer token
token <- tcn_token(bearer = "xxxxxxxx")

# retrieve twitter app bearer token
token <- tcn_token(consumer_key = "xxxxxxxx",
                   consumer_secret = "xxxxxxxx")

## End(Not run)
```
Index

tcn_network, 2
tcn_threads, 2
tcn_token, 3