Package 'PAWR'

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	**		
Version 0.0.1			
Author Sercan Kah	veci		
Description Easily scrape reddit content using the pushshift.io API. PAWR formats your queries, takes breaks when exceeding the rate limit, and outputs the data in a usable format.			
BugReports https	://github.com/Spiritspeak/PAWR/issues		
Depends R (>= 3.6.	.1), magrittr, dplyr, httr		
Imports rvest			
License GPL-3			
Encoding UTF-8			
LazyData true			
RoxygenNote 7.1.1			
ByteCompile true			
PaginateDa PAWR QueryPush	ggs		
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Description

Send multiple queries to pushshift.io to get all available information for your request. This function is meant to get around the maximum of 1000 items returned by a single aggs query.

2 PaginateData

Usage

```
PaginateAggs(
  type = c("comment", "submission", "subreddit"),
  aggs = c("author", "link_id", "created_utc", "subreddit"),
  paginate_by = c("date", "author"),
  before = round(as.numeric(Sys.time())),
  after = NULL,
  timescope = NULL,
  verbose = getOption("PAWR.VerbosePaginate"),
  ...
)
```

Arguments

type Type of requested content. Can be comment, submission, or subreddit.

aggs What should be aggregated over?

paginate_by Define which variable should be used to break the data into smaller chunks;

either author or date.

verbose Should output be verbose? Defaults to a global option which can be set with

options(PAWR.VerbosePaginate=TRUE/FALSE).

... Other valid parameters. Run PSParams() to see all valid parameters and their

descriptions.

Examples

```
#Find out on which subreddits the users of r/cheese post
#Analysis is limited to December 2019
users<-PaginateAggs(aggs="author",paginate_by="date",
    subreddit="cheese",timescope=30*24*60*60,before=1577836800)
users<-users$key
#remove bots and missing values
users<-users[!(users %in% c("[deleted]","AutoModerator"))]
#Posting behavior of all authors is aggregated.
subreddits<-PaginateAggs(aggs="subreddit",paginate_by="author",
    author=users,timescope=30*24*60*60,before=1577836800)</pre>
```

PaginateData

Paginate PushShift Data

Description

Send multiple queries to pushshift.io, to be able to get all data within a given date range.

Usage

```
PaginateData(
  type = c("comment", "submission", "subreddit"),
  verbose = getOption("PAWR.VerbosePaginate"),
  before = round(as.numeric(Sys.time())),
  after = NULL,
```

PAWR 3

```
timescope = NULL,
...
)
```

Arguments

Type of requested content. Can be comment, submission, or subreddit.

verbose Should output be verbose? Defaults to a global option which can be set with

options(PAWR.VerbosePaginate=TRUE/FALSE).

before Upper limit in the date range of posts to be fetched.

after Lower limit in the date range of posts to be fetched.

timescope Time range, in seconds, within which posts should be fetched; works in conjunc-

tion with either before or after. When argument after is used, timescope causes the current function to fetch data that was created up to N seconds after the timestamp defined in after When argument before is used, timescope causes the current function to fetch data that was created up to N seconds before

the timestamp defined in before

... Other valid parameters. Run PSParams() to see all valid parameters and their

descriptions.

Examples

#Get all comments from today containing the word "chocolate" PaginateData(timescope=24 * 60 * 60,q="chocolate")

PAWR

PAWR: The Pushshift API Wrapper for R.

Package options

- PAWR. VerboseGet designates whether the main data retrieval function should produce verbose output. Useful when debugging.
- PAWR.VerbosePaginate designates whether pagination functions should produce verbose output.
- PAWR. VerboseRateLimit designates whether rate limit-induced pauses should be reported.
- PAWR. UserAgent is the useragent used by PAWR when querying pushshift.io.
- PAWR. QuerySize determines how many entries a pushshift query maximally returns.

4 QueryPushshift

QueryPushshift

Query data from pushshift.io

Description

Query data from pushshift.io

Usage

```
QueryPushshift(
  type = c("comment", "submission", "subreddit"),
  as.df = T,
  purge = F,
  verbose = getOption("PAWR.VerboseGet"),
  size = getOption("PAWR.QuerySize"),
  aggs = c("none", "author", "link_id", "created_utc", "subreddit"),
  agg_size = 0,
  q = NULL,
  metadata = TRUE,
  ...
)
```

Arguments

type	Type of requested content. Can be comment, submission, or subreddit.
as.df	Convert output to data.frame? Defaults to TRUE.
purge	Purge deleted posts? Defaults to FALSE.
verbose	Should output be verbose? Defaults to a global option which can be set with options(PAWR.VerboseGet=TRUE/FALSE).
size	Maximum number of pieces of content to return. Defaults to the maximum, which is 500, except when using aggs, when it defaults to 0.
agg_size	Maximum number of values to return when using aggs; defaults to 500 unless you're not using aggs.
q	Query term.
metadata	Request metadata from pushshift, which will be used to check whether the query was successful or some of pushshift's shards failed to respond. This is recommended for academic research.
•••	Other valid parameters. Run PSParams() to see all valid parameters and their descriptions.

Value

If as.df=T, returns a data.frame; else, returns a list.

Functions

• QueryPushshiftMeta: Query pushshift's meta endpoint

UtilityFunctions 5

Examples

```
#Get u/spez's first ever comment
QueryPushshift(author="spez",after=0,size=1)

#See in which subreddits the word "gamer" is used the most
QueryPushshift(q="Gamer",aggs="subreddit")
QueryPushshiftMeta()$client_user_agent
```

UtilityFunctions

Utility Functions

Description

Utility Functions

Usage

```
refreshPAWR(verbose = T)
PSParams(type = c("all", "comment", "submission", "subreddit"))
GetTotalQuerySize(...)
list2df(li)
unevenrbind(...)
now()
```

Arguments

verbose	Logical. Produce verbose output or not.
type	Character. The type of content that parameters are being looked up for (comment, submission, subreddit). Defaults to all.
	To-be-merged data frames with an uneven number of columns and/or nonmatching column names
li	List of lists, to be converted to data. frame.

Functions

- refreshPAWR: re-fetches the rate limit and parameter list from pushshift.io
- PSParams: returns all available pushshift.io parameters for a given data type; defaults to all data types.
- GetTotalQuerySize: gives the total amount of content that matches the provided parameters
- list2df: converts a list of lists (pushshift's preferred output format) to a data.frame
- unevenrbind: binds two data.frames together by row, even if their columns do not match
- now: Get the timestamp of the current moment.

Index

```
GetTotalQuerySize (UtilityFunctions), 5

list2df (UtilityFunctions), 5

now (UtilityFunctions), 5

PaginateAggs, 1
PaginateData, 2
PAWR, 3
PSParams (UtilityFunctions), 5

QueryPushshift, 4
QueryPushshiftMeta (QueryPushshift), 4

refreshPAWR (UtilityFunctions), 5

unevenrbind (UtilityFunctions), 5

UtilityFunctions, 5
```