

Package ‘gcite’

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Type Package

Title Google Citation Parser

Version 0.11.0

Description Scrapes Google Citation pages and creates data frames of citations over time.

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Imports xml2, httr, rvest, stats, pbapply, data.table, wordcloud, tm, graphics

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Encoding UTF-8

Suggests covr, testthat, spelling

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author_cloud	<i>Make Wordcloud of authors from Papers</i>
--------------	--

Description

Takes a vector of authors and then creates a frequency table of those words and plots a wordcloud

Usage

```
author_cloud(
  authors,
  addstopwords = gcite_stopwords(),
  author_pattern = NULL,
  split = ",",
  verbose = TRUE,
  colors = c("#66C2A4", "#41AE76", "#238B45", "#006D2C", "#00441B"),
  ...
)

author_frequency(
  authors,
  author_pattern = NULL,
  split = ",",
  addstopwords = gcite_stopwords(),
  verbose = TRUE
)
```

Arguments

authors	Vector of authors of papers
addstopwords	Additional words to remove from wordcloud
author_pattern	regular expression for patterns to exclude from individual authors
split	split author names (default ","), passed to <code>strsplit</code>
verbose	Print diagnostic messages
colors	color words from least to most frequent. Passed to <code>gcite_wordcloud_spec</code>
...	additional options passed to <code>gcite_wordcloud_spec</code>

Value

A data.frame of the words and the frequencies of the authors

Examples

```
## Not run:
L = gcite_author_info("John Muschelli")
paper_df = L$paper_df
authors = paper_df$authors
author_cloud(authors)

## End(Not run)
```

gcite

Google Citations Information

Description

Wraps getting the information from Google Citations and plotting the wordcloud

Usage

```
gcite(
  author,
  user,
  plot_wordcloud = TRUE,
  author_args = list(),
  title_args = list(),
  warn = FALSE,
  force = FALSE,
  sleeptime = 0,
  ...
)
```

Arguments

author	author name separated by spaces
user	user ID for google Citations
plot_wordcloud	should the wordcloud be plotted
author_args	Arguments to pass to author_cloud
title_args	Arguments to pass to title_cloud
warn	should warnings be printed from wordcloud?
force	If passing a URL and there is a failure, should the program return NULL, passed to gcite_citation_page
sleeptime	time in seconds between http requests, to avoid Google Scholar rate limit
...	additional options passed to gcite_user_info and therefore GET

Value

List from either [gcite_user_info](#) or [gcite_author_info](#)

Examples

```
if (!is_travis() & !is_cran()) {
  res = gcite(author = "John Muschelli")
  paper_df = res$paper_df
  gcite_wordcloud(paper_df)
  author_cloud(paper_df$authors)
}
```

gcite_author_info	<i>Getting User Information from name</i>
-------------------	---

Description

Calls [gcite_user_info](#) after getting the user identifier

Usage

```
gcite_author_info(
  author,
  ask = TRUE,
  pagesize = 100,
  verbose = TRUE,
  secure = TRUE,
  force = FALSE,
  read_citations = TRUE,
  sleeptime = 0,
  ...
)
```

Arguments

author	author name separated by spaces
ask	If multiple authors are found, should a menu be given
pagesize	Size of pages, max 100, passed to gcite_url
verbose	Print diagnostic messages
secure	use https vs. http
force	If passing a URL and there is a failure, should the program return NULL, passed to gcite_citation_page
read_citations	Should all citation pages be read?
sleeptime	time in seconds between http requests, to avoid Google Scholar rate limit
...	Additional arguments passed to GET

Value

A list of citations, citation indices, and a `data.frame` of authors, journal, and citations, and a `data.frame` of the links to all paper URLs.

Examples

```
## Not run:
if (!is_travis()) {
  df = gcite_author_info(author = "John Muschelli", secure = FALSE)
}

## End(Not run)
if (is_travis() & !is_cran()) {
  df = gcite_author_info(author = "Jiawei Bai", secure = FALSE)
}
```

`gcite_citation_index` *Parse Google Citation Index*

Description

Parses a google citation indices (h-index, etc.) from main page

Usage

```
gcite_citation_index(doc, ...)

## S3 method for class 'xml_node'
gcite_citation_index(doc, ...)

## S3 method for class 'xml_document'
gcite_citation_index(doc, ...)

## S3 method for class 'character'
gcite_citation_index(doc, ...)
```

Arguments

<code>doc</code>	A <code>xml_document</code> or the url for the main page
<code>...</code>	Additional arguments passed to GET if <code>doc</code> is a URL

Value

A matrix of indices

Examples

```

library(httr)
library(rvest)
library(gcite)
url = "https://scholar.google.com/citations?user=T9eqZgMAAAAJ"
url = gcite_url(url = url, pagesize = 10, cstart = 0)
if (!is_travis() & !is_cran()) {
  ind = gcite_citation_index(url)
  doc = content(httr::GET(url))
  ind = gcite_citation_index(doc)
  ind_nodes = rvest::html_nodes(doc, "#gsc_rsb_st")[[1]]
  ind = gcite_citation_index(ind_nodes)
}

```

gcite_citation_page *Parse Google Citation Index*

Description

Parses a google citation indices (h-index, etc.) from main page

Usage

```

gcite_citation_page(doc, title = NULL, force = FALSE, ...)

## S3 method for class 'xml_nodeset'
gcite_citation_page(doc, title = NULL, force = FALSE, ...)

## S3 method for class 'xml_document'
gcite_citation_page(doc, title = NULL, force = FALSE, ...)

## S3 method for class 'character'
gcite_citation_page(doc, title = NULL, force = FALSE, ...)

## S3 method for class 'list'
gcite_citation_page(doc, title = NULL, force = FALSE, ...)

## Default S3 method:
gcite_citation_page(doc, title = NULL, force = FALSE, ...)

```

Arguments

doc	A xml_document or the url for the main page
title	title of the article
force	If passing a URL and there is a failure, should the program return NULL?
...	arguments passed to GET

Value

A matrix of indices

Examples

```
library(httr)
library(rvest)
url = paste0("https://scholar.google.com/citations?view_op=view_citation&",
"hl=en&oe=ASCII&user=T9eqZgMAAAAJ&pagesize=100&",
"citation_for_view=T9eqZgMAAAAJ:W70EmFMyl1HYC")
url = gcite_url(url = url, pagesize = 10, cstart = 0)
if (!is_travis() & !is_cran()) {
  ind = gcite_citation_page(url)
  doc = content(httr::GET(url))
  ind = gcite_citation_page(doc)
  ind_nodes = html_nodes(doc, "#gsc_oci_table div")
  ind_nodes = html_nodes(ind_nodes, xpath = '//div[@class = "gs_scl"]')
  ind = gcite_citation_page(ind_nodes)
}
```

gcite_cite_over_time *Parse Google Citations Over Time*

Description

Parses a google citations over time from the main Citation page

Usage

```
gcite_cite_over_time(doc, ...)

## S3 method for class 'xml_node'
gcite_cite_over_time(doc, ...)

## S3 method for class 'xml_document'
gcite_cite_over_time(doc, ...)

## S3 method for class 'character'
gcite_cite_over_time(doc, ...)

## Default S3 method:
gcite_cite_over_time(doc, ...)
```

Arguments

doc A xml_document or the url for the main page
 ... arguments passed to [GET](#)

Value

A matrix of citations

Examples

```
library(httr)
library(rvest)
url = "https://scholar.google.com/citations?user=T9eqZgMAAAAJ"
url = gcite_url(url = url, pagesize = 10, cstart = 0)
if (!is_travis() & !is_cran()) {
#' ind = gcite_cite_over_time(url)
doc = content(httr::GET(url))
ind = gcite_cite_over_time(doc)
ind_nodes = rvest::html_nodes(doc, ".gsc_md_hist_b")
ind = gcite_cite_over_time(ind_nodes)
}
```

gcite_graph

Parse Google Citation Graph

Description

Parses a google citation bar graph from html

Usage

```
gcite_graph(citations, ...)

## S3 method for class 'xml_node'
gcite_graph(citations, ...)

## S3 method for class 'xml_document'
gcite_graph(citations, ...)

## S3 method for class 'character'
gcite_graph(citations, ...)

## Default S3 method:
gcite_graph(citations, ...)
```

Arguments

citations A list of nodes or xml_node
... arguments passed to [GET](#)

Value

A matrix of citations and years

gcite_main_graph	<i>Parse Google Citation Graph</i>
------------------	------------------------------------

Description

Parses a google citation bar graph from html

Usage

```
gcite_main_graph(citations, ...)  
  
## S3 method for class 'xml_document'  
gcite_main_graph(citations, ...)  
  
## S3 method for class 'character'  
gcite_main_graph(citations, ...)  
  
## Default S3 method:  
gcite_main_graph(citations, ...)
```

Arguments

citations	A list of nodes or xml_node
...	arguments passed to GET

Value

A matrix of citations and years

gcite_papers	<i>Parse Google Citation Index</i>
--------------	------------------------------------

Description

Parses a google citation indices (h-index, etc.) from main page

Usage

```
gcite_papers(doc, ...)  
  
## S3 method for class 'xml_nodeset'  
gcite_papers(doc, ...)  
  
## S3 method for class 'xml_document'  
gcite_papers(doc, ...)
```

```
## S3 method for class 'character'
gcite_papers(doc, ...)

## Default S3 method:
gcite_papers(doc, ...)
```

Arguments

doc A xml_document or the url for the main page
 ... Additional arguments passed to [GET](#) if doc is a URL

Value

A matrix of indices

Examples

```
library(httr)
library(rvest)
url = "https://scholar.google.com/citations?user=T9eqZgMAAAAJ"
url = gcite_url(url = url, pagesize = 10, cstart = 0)
if (!is_travis() & !is_cran()) {
  ind = gcite_papers(url)
  doc = content(httr::GET(url))
  ind = gcite_papers(doc)
  ind_nodes = rvest::html_nodes(doc, "#gsc_a_b")
  ind = gcite_papers(ind_nodes)
}
```

gcite_paper_df *Get Paper Data Frame from Title URLs*

Description

Get Paper Data Frame from Title URLs

Usage

```
gcite_paper_df(urls, verbose = TRUE, force = FALSE, sleeptime = 0, ...)
```

Arguments

urls A character vector of urls, from all_papers\$title_link
 verbose Print diagnostic messages
 force If passing a URL and there is a failure, should the program return NULL, passed to [gcite_citation_page](#)
 sleeptime time in seconds between http requests, to avoid Google Scholar rate limit
 ... Additional arguments passed to [GET](#)

Value

A data.frame of authors, journal, and citations

Examples

```
if (!is_travis() & !is_cran()) {
  L = gcite_user_info(user = "uERvKpYAAAAJ",
    read_citations = FALSE)
  urls = L$all_papers$title_link
  paper_df = gcite_paper_df(urls = urls, force = TRUE)
}
```

gcite_stopwords	<i>Google Cite Stopwords</i>
-----------------	------------------------------

Description

Additional stopwords to remove from Google Cite results

Usage

```
gcite_stopwords()
```

Value

Character Vector

Examples

```
gcite_stopwords()
```

gcite_url	<i>Google Citations URL</i>
-----------	-----------------------------

Description

Simple wrapper for adding in pagesize and start values for the page

Usage

```
gcite_url(url, cstart = 0, pagesize = 100)
```

```
gcite_base_url(secure = TRUE)
```

```
gcite_user_url(user, secure = TRUE)
```

Arguments

url	URL of the google citations page
cstart	Starting value for the citation page
pagesize	number of citations to return, max is 100
secure	should https be used (default), instead of http
user	Username/user ID for Google Scholar Citations

Value

A character string

Examples

```
url = "https://scholar.google.com/citations?user=T9eqZgMAAAAJ"
gcite_url(url = url, pagesize = 100, cstart = 5)
```

gcite_username	<i>Google Citation Username Searcher</i>
----------------	--

Description

Search Google Citation for an author username

Usage

```
gcite_username(author, verbose = TRUE, ask = TRUE, secure = TRUE, ...)
```

Arguments

author	author name separated by spaces
verbose	Verbose diagnostic printing
ask	If multiple authors are found, should a menu be given
secure	use https vs. http
...	arguments passed to GET

Value

A character vector of the username of the author

Examples

```
if (!is_travis() & !is_cran()) {
  gcite_username("John Muschelli")
}
```

gcite_user_info *Getting User Information of papers*

Description

Loops through pages for all information on Google Citations

Usage

```
gcite_user_info(  
  user,  
  pagesize = 100,  
  verbose = TRUE,  
  secure = TRUE,  
  force = FALSE,  
  read_citations = TRUE,  
  sleeptime = 0,  
  ...  
)
```

Arguments

user	user ID for google Citations
pagesize	Size of pages, max 100, passed to gcite_url
verbose	Print diagnostic messages
secure	use https vs. http
force	If passing a URL and there is a failure, should the program return NULL, passed to gcite_citation_page
read_citations	Should all citation pages be read?
sleeptime	time in seconds between http requests, to avoid Google Scholar rate limit
...	Additional arguments passed to GET

Value

A list of citations, citation indices, and a data.frame of authors, journal, and citations, and a data.frame of the links to all paper URLs and the character string of the user name.

Examples

```
## Not run:  
if (!is_travis() & !is_cran()) {  
  df = gcite_user_info(user = "uERvKpYAAAAJ")  
}  
  
## End(Not run)
```

gcite_wordcloud *Wordcloud of Google Citations Information*

Description

Simple wrapper for [author_cloud](#) and [title_cloud](#)

Usage

```
gcite_wordcloud(
  paper_df,
  author_args = list(),
  title_args = list(),
  warn = FALSE
)
```

Arguments

paper_df	A data.frame with columns of authors and titles
author_args	Arguments to pass to author_cloud
title_args	Arguments to pass to title_cloud
warn	should warnings be printed from wordcloud?

gcite_wordcloud_spec *gcite Wordcloud default*

Description

Simple wrapper for [wordcloud](#) with different defaults

Usage

```
gcite_wordcloud_spec(
  words,
  freq,
  min.freq = 1,
  max.words = Inf,
  random.order = FALSE,
  colors = c("#F768A1", "#DD3497", "#AE017E", "#7A0177", "#49006A"),
  vfont = c("sans serif", "plain"),
  ...
)
```

Arguments

words	words to be plotted
freq	the frequency of those words
min.freq	words with frequency below min.freq will not be plotted
max.words	Maximum number of words to be plotted. least frequent terms dropped
random.order	plot words in random order. If false, they will be plotted in decreasing frequency
colors	color words from least to most frequent
vfont	passed to text for the font
...	additional options passed to wordcloud

Value

Nothing

is_travis	<i>Check if on Travis CI</i>
-----------	------------------------------

Description

Simple check for Travis CI for examples

Usage

```
is_travis()
```

```
is_cran()
```

Value

Logical if user is named travis

Examples

```
is_travis()  
is_cran()
```

set_cookies_txt	<i>Set Cookies from Text file</i>
-----------------	-----------------------------------

Description

Set Cookies from Text file

Usage

```
set_cookies_txt(file)
```

Arguments

file	tab-delimited text file of cookies, to be read in using readLines . Comments should start the line with the pound symbol
------	--

Value

Either NULL if no domains contain the word "scholar", or an object of class request from [set_cookies](#)

Note

This function searches for domains that contain the word "scholar"

title_cloud	<i>Make Wordcloud of Titles from Papers</i>
-------------	---

Description

Takes a vector of titles and then creates a frequency table of those words and plots a wordcloud

Usage

```
title_cloud(titles, addstopwords = gcite_stopwords(), ...)
```

```
paper_cloud(...)
```

```
title_word_frequency(titles, addstopwords = NULL)
```

Arguments

titles	Vector of titles of papers
addstopwords	Additional words to remove from wordcloud
...	additional options passed to gcite_wordcloud_spec

Value

A data.frame of the words and the frequencies of the title words

Examples

```
## Not run:  
L = gcite_author_info("John Muschelli")  
paper_df = L$paper_df  
titles = paper_df$title  
title_cloud(titles)  
  
## End(Not run)
```

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