

Package ‘gtrendsR’

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Type Package

Title Perform and Display Google Trends Queries

Version 1.4.2

Date 2018-08-03

Description An interface for retrieving and displaying the information returned online by Google Trends is provided. Trends (number of hits) over the time as well as geographic representation of the results can be displayed.

License GPL (>= 2)

BugReports <https://github.com/PMassicotte/gtrendsR/issues>

URL <https://github.com/PMassicotte/gtrendsR>

Depends R (>= 3.2.0)

LazyData yes

Imports ggplot2, jsonlite, anytime, curl

RoxygenNote 6.1.0

Suggests knitr, rmarkdown

Encoding UTF-8

NeedsCompilation no

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| | |
|------------|----------------------------------|
| categories | <i>Google Trends categories.</i> |
|------------|----------------------------------|

Description

- name Names of the categories
- id IDs of the categories

Usage

```
data("categories")
```

Format

A data frame with 1426 rows and 2 variables

| | |
|-----------|---------------------------------|
| countries | <i>Word countries ISO code.</i> |
|-----------|---------------------------------|

Description

- country_code Two-digits country codes
- description Description of the location
- sub_code ISO3166-2 country codes

Usage

```
data("countries")
```

Format

A data frame with 122845 rows and 3 variables

References

http://www.unece.org/cefact/codesfortrade/codes_index.html

| | |
|---------|----------------------------|
| gtrends | <i>Google Trends Query</i> |
|---------|----------------------------|

Description

The gtrends default method performs a Google Trends query for the 'query' argument and session 'session'. Optional arguments for geolocation and category can also be supplied.

Usage

```
gtrends(keyword = NA, geo = "", time = "today+5-y",
        gprop = c("web", "news", "images", "froogle", "youtube"),
        category = 0, hl = "en-US", low_search_volume = FALSE,
        cookie_url = "http://trends.google.com/Cookies/NID")
```

Arguments

| | |
|----------|--|
| keyword | A character vector with the actual Google Trends query keywords. Multiple keywords are possible using <code>gtrends(c("NHL", "NBA", "MLB", "MLS"))</code> . |
| geo | A character vector denoting geographic regions for the query, default to "all" for global queries. Multiple regions are possible using <code>gtrends("NHL", c("CA", "US"))</code> . |
| time | A string specifying the time span of the query. Possible values are: "now 1-H" Last hour "now 4-H" Last four hours "now 1-d" Last day "now 7-d" Last seven days "today 1-m" Past 30 days "today 3-m" Past 90 days "today 12-m" Past 12 months "today+5-y" Last five years (default) "all" Since the beginning of Google Trends (2004) "Y-m-d Y-m-d" Time span between two dates (ex.: "2010-01-01 2010-04-03") |
| gprop | A character string defining the Google product for which the trend query is performed. Valid options are: <ul style="list-style-type: none"> • "web" (default) • "news" • "images" • "froogle" • "youtube" |
| category | A character denoting the category, defaults to "0". |
| hl | A string specifying the ISO language code (ex.: "en-US" or "fr"). Default is "en-US". Note that this is only influencing the data returned by related topics. |

low_search_volume Logical. Should include low search volume regions?

cookie_url A string specifying the URL from which to obtain cookies. Default should work in general; should only be changed by advanced users.

Value

An object of class 'gtrends' (basically a list of data frames).

Categories

The package includes a complete list of categories that can be used to narrow requests. These can be accessed using `data("categories")`.

Related topics

Note that **related topics** are not retrieved when more than one keyword is provided due to Google restriction.

Examples

```
## Not run:

head(gtrends("NHL")$interest_over_time)
head(gtrends("NHL")$related_topics)
head(gtrends("NHL")$related_queries)

head(gtrends(c("NHL", "NFL"))$interest_over_time)

head(gtrends(c("NHL", "NFL"), geo = c("CA", "US"))$interest_over_time)

## Interest by city

gtrends(keyword="obama", geo="US-AL-630")

## Sport category (20)
data(categories)
categories[grepl("^Sport", categories$name), ]
gtrends(c("NHL", "NFL"), geo = c("CA", "US"), category = 20)
gtrends(geo = c("CA"), category = 20)

## Playing with time format

gtrends(c("NHL", "NFL"), time = "now 1-H") # last hour
gtrends(c("NHL", "NFL"), time = "now 4-H") # last four hours
gtrends(c("NHL", "NFL"), time = "now 1-d") # last day
gtrends(c("NHL", "NFL"), time = "today 1-m") # last 30 days
gtrends(c("NHL", "NFL"), time = "today 3-m") # last 90 days
gtrends(c("NHL", "NFL"), time = "today 12-m") # last 12 months
gtrends(c("NHL", "NFL"), time = "today+5-y") # last five years (default)
gtrends(c("NHL", "NFL"), time = "all") # since 2004
```

```
## Custom date format

gtrends(c("NHL", "NFL"), time = "2010-01-01 2010-04-03")

## Search from various Google's services

head(gtrends(c("NHL", "NFL"), gprop = "news")$interest_over_time)
head(gtrends(c("NHL", "NFL"), gprop = "youtube")$interest_over_time)

## Language settings

head(gtrends("NHL", hl = "en")$related_topics)
head(gtrends("NHL", hl = "fr")$related_topics)

## End(Not run)
```

plot.gtrends

Plot Google Trends interest over time

Description

Plot Google Trends interest over time

Usage

```
## S3 method for class 'gtrends'
plot(x, ...)
```

Arguments

x A [gtrends](#) object.

... Additional parameters passed on in method dispatch. Currently not used.

Value

A `ggplot2` object is returned silently.

Examples

```
## Not run:
res <- gtrends("nhl", geo = c("CA", "US"))
plot(res)

## End(Not run)
```

setHandleParameters *If gtrends should be used behind a proxy, especially with NTLM authentication mode, you need to set the proxy parameters and credentials using "setHandleParameters" function*

Description

If gtrends should be used behind a proxy, especially with NTLM authentication mode, you need to set the proxy parameters and credentials using "setHandleParameters" function

Usage

```
setHandleParameters(user = NULL, password = NULL, domain = NULL,  
  proxyhost = NULL, proxyport = 8080, proxyauth = 15)
```

Arguments

| | |
|-----------|--|
| user | A string specifying your username |
| password | A string specifying your password |
| domain | A string specifying the authentication domain |
| proxyhost | A string specifying the Proxy host DNS or IP address |
| proxyport | A numeric specifying the Proxy Port : 8080 (default) |
| proxyauth | A numeric specifying the Proxy Authentication Method : 0 for NONE 1 for BASIC 2 for DIGEST 4 for NEGOTIATE 8 for NTLM 15 for ANY (default) |

Examples

```
## Not run:  
library(gtrendsR)  
  
setHandleParameters(user="xxx",password="*****",domain="mydomain",proxyhost = "10.111.124.113")  
res <- gtrends(c("nhl", "nba"), geo = c("CA", "US"))  
  
## End(Not run)
```

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*Topic **datasets**

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