Package ‘gtrendsR’

May 2, 2019

Type Package
Title Perform and Display Google Trends Queries
Version 1.4.3
Date 2019-05-02
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 6.1.1
Suggests knitr, rmarkdown
Encoding UTF-8
NeedsCompilation no
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<table>
<thead>
<tr>
<th>categories</th>
<th>Google Trends categories.</th>
</tr>
</thead>
</table>

Description

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

Usage

data("categories")

Format

A data frame with 1426 rows and 2 variables

<table>
<thead>
<tr>
<th>countries</th>
<th>Word countries ISO code.</th>
</tr>
</thead>
</table>

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
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", tz = 0, onlyInterest = FALSE)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>keyword</td>
<td>A character vector with the actual Google Trends query keywords. Multiple keywords are possible using <code>gtrends(c(&quot;NHL&quot;, &quot;NBA&quot;, &quot;MLB&quot;, &quot;MLS&quot;))</code>.</td>
</tr>
<tr>
<td>geo</td>
<td>A character vector denoting geographic regions for the query, default to “all” for global queries. Multiple regions are possible using <code>gtrends(&quot;NHL&quot;, c(&quot;CA&quot;, &quot;US&quot;))</code>.</td>
</tr>
<tr>
<td>time</td>
<td>A string specifying the time span of the query. Possible values are:</td>
</tr>
<tr>
<td></td>
<td>&quot;now 1-H&quot; Last hour</td>
</tr>
<tr>
<td></td>
<td>&quot;now 4-H&quot; Last four hours</td>
</tr>
<tr>
<td></td>
<td>&quot;now 1-d&quot; Last day</td>
</tr>
<tr>
<td></td>
<td>&quot;now 7-d&quot; Last seven days</td>
</tr>
<tr>
<td></td>
<td>&quot;today 1-m&quot; Past 30 days</td>
</tr>
<tr>
<td></td>
<td>&quot;today 3-m&quot; Past 90 days</td>
</tr>
<tr>
<td></td>
<td>&quot;today 12-m&quot; Past 12 months</td>
</tr>
<tr>
<td></td>
<td>&quot;today+5-y&quot; Past five years (default)</td>
</tr>
<tr>
<td></td>
<td>&quot;all&quot; Since the beginning of Google Trends (2004)</td>
</tr>
<tr>
<td></td>
<td>&quot;Y-m-d Y-m-d&quot; Time span between two dates (ex.: &quot;2010-01-01 2010-04-03&quot;)</td>
</tr>
<tr>
<td>gprop</td>
<td>A character string defining the Google product for which the trend query if preformed. Valid options are:</td>
</tr>
<tr>
<td></td>
<td>• &quot;web&quot; (default)</td>
</tr>
<tr>
<td></td>
<td>• &quot;news&quot;</td>
</tr>
<tr>
<td></td>
<td>• &quot;images&quot;</td>
</tr>
<tr>
<td></td>
<td>• &quot;froogle&quot;</td>
</tr>
<tr>
<td></td>
<td>• &quot;youtube&quot;</td>
</tr>
<tr>
<td>category</td>
<td>A character denoting the category, defaults to “0”.</td>
</tr>
<tr>
<td>hl</td>
<td>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.</td>
</tr>
</tbody>
</table>
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.

tz
   A number specifying the minutes the returned dates should be offset to UTC. Note the parameter 'time' above is specified in UTC. E.g. choosing "time=2018-01-01T01 2018-01-01T03" and "tz=-120" will yield data between 2018-01-01T03 and 2018-01-01T05, i.e. data specified to be in UTC+2.

onlyInterest
   If you only want the interest over time set it to TRUE.

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
```
Description

Plot Google Trends interest over time

Usage

```r
## 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

```r
## Not run:
library(gtrendsR)

setHandleParameters(user="xxxx",password="*******",domain="mydomain",proxyhost = "10.111.124.113")
res <- gtrends(c("nhl", "nba"), geo = c("CA", "US"))

## End(Not run)
```

**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**

```r
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)

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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.
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