Package ‘tubern’

April 14, 2017

Title R Client for the YouTube Analytics and Reporting API
Version 0.1.0
Maintainer Gaurav Sood <gsood07@gmail.com>
Description Get statistics and reports from YouTube. To learn more about
the YouTube Analytics and Reporting API, see <https://developers.google.com/youtube/reporting/>.
URL http://github.com/soodoku/tubern
BugReports http://github.com/soodoku/tubern/issues
Depends R (>= 3.2.0)
License MIT + file LICENSE
LazyData true
Imports httr, jsonlite
VignetteBuilder knitr
Suggests knitr (>= 1.11), testthat, rmarkdown, xml2
RoxygenNote 6.0.1
NeedsCompilation no
Author Gaurav Sood [aut, cre]
Repository CRAN
Date/Publication 2017-04-13 22:44:46 UTC

R topics documented:

add_groups .............................................................. 2
add_group_item ......................................................... 3
delete_group ........................................................... 3
delete_group_item ....................................................... 4
get_report .............................................................. 5
list_groups ............................................................. 6
list_group_items ....................................................... 7
tubern ................................................................. 7
add_groups

add_groups

Description

Add Groups

Usage

add_groups(resource_details, ...)

Arguments

resource_details

Named nested list. Required. Must provide: etag, snippet title and contentDetails itemType

... Additional arguments passed to `tubern_POST`.

Value
	named list

References

https://developers.google.com/youtube/analytics/v1/reference/groups/insert

Examples

```r
## Not run:
add_groups(list(etag="vponEBg8hrR1yBUX0Hz66 uncle5W9Mk/vyGp6Pvo4RvsFtPoIWeCReyIC8", ContentDetails = list(itemType="youtube#channel"), snippet = list(title ="hello")))

## End(Not run)
```
**add_group_item**

---

**Description**

Add Group Item

**Usage**

`add_group_item(resource_details, ...)`

**Arguments**

- `resource_details`
  - Named nested list. Required. Must provide: groupId, resource.id
  - Additional arguments passed to `tubern_POST`.

**Value**

named list

**References**

https://developers.google.com/youtube/analytics/v1/reference/groupItems/insert

**Examples**

```rs
## Not run:
add_group_item(list(groupId = "", resource.id ="hello"))

## End(Not run)
```

---

**delete_group**

---

**Description**

Delete Group

**Usage**

`delete_group(id, ...)`
Arguments

id String. Required. “The id parameter specifies the YouTube group ID of the group that is being deleted.”

... Additional arguments passed to `tubern_PUT`.

Value

named list

References

https://developers.google.com/youtube/analytics/v1/reference/groups/delete

Examples

```r
## Not run:
delete_group(id="ABZzGSIAAA")

## End(Not run)
```

---

`delete_group_item` Delete Group

Description

Delete Group

Usage

`delete_group_item(id, ...)`

Arguments

id String. Required. “The id parameter specifies the YouTube group item ID for the group that is being deleted.”

... Additional arguments passed to `tubern_PUT`.

Value

named list

References

https://developers.google.com/youtube/analytics/v1/reference/groupItems/delete
**get_report**

**Examples**

```python
## Not run:
delete_group_item(id="ABZZzGSIAAA")

## End(Not run)
```

---

### get_report

Get Reports

**Description**

Lists reporting jobs that have been scheduled for a channel or content owner.

**Usage**

```python
get_report(ids, metrics, start_date, end_date, currency, dimensions, filters, include_historical_channel_data, max_results, sort, start_index, user_ip, ...)
```

**Arguments**

- **ids**: Named vector with two potential names: channel or contentOwner. If channel, potential values are: mine or channel_id. If contentOwner, potential values are: owner_id of the content.
- **metrics**: String. Comma-separated list of YouTube Analytics metrics, such as views or likes, dislikes.
- **start_date**: String. Must be in YYYY-MM-DD format.
- **end_date**: String. Must be in YYYY-MM-DD format.
- **currency**: Optional. String. Default is USD. Specifies what earnings metrics like earnings, adEarnings, grossRevenue, playbackBasedCpm, impressionBasedCpm will be reported in.
- **dimensions**: String. Optional. Comma-separated list of YouTube Analytics dimensions, such as video or ageGroup, gender.
- **filters**: Named Vector. Optional. For instance, “video==pdFJh9zvXqZhawgd0RehA;country==IT” restricts the result set to include data for the given videos in Italy.
- **include_historical_channel_data**: Boolean. Defaults is False. “Whether the API response should include channels’ watch time and view data from the time period prior to when the channels were linked to the content owner.”
- **max_results**: Integer. Optional. The maximum number of rows to include in the response.
- **sort**: String. Optional A comma-separated list of dimensions or metrics that determine the sort order for YouTube.
- **start_index**: Integer. Optional. “The 1-based index of the first entity to retrieve.”
- **user_ip**: “IP address of the end user for whom the API call is being made.”
- **...**: Additional arguments passed to `tubern_GET`. 
Value

named list

References

https://developers.google.com/youtube/analytics/v1/reference/reports/query

Examples

```r
## Not run:
get_report(ids = "channel=MINE", metrics = "views",
            start_date = "2010-04-01", end_date = "2017-01-01")
```

## End(Not run)

---

**list_groups** | **List Groups**

### Description

List Groups

### Usage

```
list_groups(filter, page_token, ...)
```

### Arguments

- **filter**
  - Named Vector. Required. Only One of the two: id or mine. id “The Named parameter specifies a comma-separated list of the YouTube group ID(s) for the resource(s) that are being retrieved.” mine String. Can be 'True' or 'False.' “Set this parameter’s value to true to retrieve all groups owned by the authenticated user.”

- **page_token**
  - String. Optional. “Identifies a specific page in the result set that should be returned.”

- **...**
  - Additional arguments passed to `tubern_GET`.

### Value

named list

### References

https://developers.google.com/youtube/analytics/v1/reference/groups/list
**list_group_items**

**Examples**

```r
## Not run:
list_groups(filter = c(mine = 'True'))

## End(Not run)
```

**Description**

List Group Items

**Usage**

```r
list_group_items(group_id, ...)
```

**Arguments**

- `group_id` String. Required. ID of the group
- `...` Additional arguments passed to `tubern_get`.

**Value**

named list

**References**

[https://developers.google.com/youtube/analytics/v1/reference/groupItems/list](https://developers.google.com/youtube/analytics/v1/reference/groupItems/list)

**Examples**

```r
## Not run:
list_group_items(group_id = "vponEBg8hrR1yBUX0Hz66Uc5WMk/vyGp6PvFo4RvsFtPoIWeCReyIC8")

## End(Not run)
```

---

**tubern**

**tubern provides access to the YouTube Analytics and Reporting API**

**Description**

**tubern** provides access to the YouTube Analytics and Reporting API
tubern_DELETE

**Description**

DELETE

**Usage**

tubern_DELETE(path, query = NULL, body = ",", ...)

**Arguments**

- path: path to specific API request URL
- query: query list
- body: passing image through body
- ... Additional arguments passed to DELETE.

**Value**

list

---

tubern_GET

**Description**

GET

**Usage**

tubern_GET(path, query = NULL, ...)

**Arguments**

- path: path to specific API request URL
- query: query list
- ... Additional arguments passed to GET.

**Value**

list
tubern_POST

---

**tubern_POST**  
*POST*

**Description**  
POST

**Usage**  
tubern_POST(path, query = NULL, body = "", ...)

**Arguments**
- **path**: path to specific API request URL
- **query**: query list
- **body**: passing image through body
- ... Additional arguments passed to **POST**.

**Value**
- list

---

**tubern_PUT**  
*PUT*

---

**Description**  
PUT

**Usage**  
tubern_PUT(path, query = NULL, body = "", ...)

**Arguments**
- **path**: path to specific API request URL
- **query**: query list
- **body**: passing image through body
- ... Additional arguments passed to **PUT**.

**Value**
- list
update_group  

Update Groups

Description
Update Groups

Usage
update_group(resource_details, ...)

Arguments
resource_details
Named nested list. Required. Must provide: id, snippet title

Additional arguments passed to tubern_PUT.

Value
named list

References
https://developers.google.com/youtube/analytics/v1/reference/groups/update

Examples

## Not run:
update_group(list(id="ABZZzGSIAAA", snippet = list(title ="hello"))

## End(Not run)

---

yt_check_token  

Check if authentication token is in options

Description
Check if authentication token is in options

Usage
yt_check_token()
### yt_oauth

#### Set up Authorization

**Description**

The function looks for `.httr-oauth` in the working directory. If it doesn’t find it, it expects an application ID and a secret. If you want to remove the existing `.httr-oauth`, set `remove_old_oauth` to TRUE. By default, it is set to FALSE. The function launches a browser to allow you to authorize the application.

**Usage**

```
yt_oauth(app_id = NULL, app_secret = NULL, scope = "analytics",
         token = ".httr-oauth", ...)
```

**Arguments**

- `app_id` : client id; required; no default
- `app_secret` : client secret; required; no default
- `scope` : Character. `analytics` or `monetary-analytics`. Required. Default is `monetary-analytics`. The scopes are largely exchangeable but `monetary-analytics` yields extra authorizations that come in handy.
- `token` : path to file containing the token. If a path is given, the function will first try to read from it. Default is `.httr-oauth` in the local directory. So if there is such a file, the function will first try to read from it.
- `...` : Additional arguments passed to `oauth2.0_token`

**Value**

Sets the google_token option and also saves `.httr_auth` in the working directory (find out the working directory via `getwd()`)

**References**

- [https://developers.google.com/youtube/analytics/v1/reference/](https://developers.google.com/youtube/analytics/v1/reference/)
- [https://developers.google.com/youtube/analytics/v1/reference/](https://developers.google.com/youtube/analytics/v1/reference/) for different scopes

**Examples**

```r
## Not run:
yt_oauth("998136489867-5t3tq1g7hbovoj46dreqd6k5kd35ctjn.apps.googleusercontent.com",
         "Mb0St6cQhhFkwETXkur-L9rN")

## End(Not run)
```
Index

add_group_item, 3
add_groups, 2

DELETE, 8
delete_group, 3
delete_group_item, 4

GET, 8
get_report, 5

list_group_items, 7
list_groups, 6

oauth2.0_token, 11

POST, 9
PUT, 9

tubern, 7
tubern-package (tubern), 7
tubern_DELETE, 8
tubern_GET, 5–7, 8
tubern_POST, 2, 3, 9
tubern_PUT, 4, 9, 10

update_group, 10

yt_check_token, 10
yt_oauth, 11