Package: youtubeR (via r-universe)

November 18, 2024		
Title An Interface to the YouTube API		
Version 0.0.0.9001		
Description Manage YouTube videos from R.		
License MIT + file LICENSE		
<pre>URL https://kevin-m-kent.github.io/youtubeR/,</pre>		
https://github.com/kevin-m-kent/youtubeR		
BugReports https://github.com/kevin-m-kent/youtubeR/issues		
Depends R (>= 4.1)		
Imports cli, curl, fs, glue, httr2 (>= 1.0.0), jsonlite, purrr, rlang, snakecase		
Suggests covr, httptest2, testthat (>= 3.0.0), withr		
Config/testthat/edition 3		
Encoding UTF-8		
Language en-US		
Roxygen list(markdown = TRUE)		
RoxygenNote 7.3.2		
Config/pak/sysreqs make libicu-dev libssl-dev		
Repository https://jonthegeek.r-universe.dev		
RemoteUrl https://github.com/kevin-m-kent/youtubeR		
RemoteRef HEAD		
RemoteSha 3b3fd5e43e1d4dc7108b5df39691ea28d9e1f044		
Contents		
browse_gc_credentials		

2 browse_gc_credentials

Index		17
	yt_videos_update	13
	yt_videos_update	15
	yt_videos_insert	14
	yt_videos_delete	13
	yt_schema_video_status	12
	yt_schema_video_snippet	
	yt_schema_video_localization	
	,	
	yt has client envvars	10
	yt_construct_client	9
	yt_call_api	8
	yt_authenticate	8
	get_video_processing_details	7
	get_upload_playlist_id	6

browse_gc_credentials Visit Google Cloud Credentials page

Description

Launch the Google Cloud "Credentials" page (where you can configure OAuth 2.0 Clients). After you configure a client, copy/paste the Client ID and Client Secret into the YOUTUBE_CLIENT_ID and YOUTUBE_CLIENT_SECRET environment variables. We recommend placing these environment variables in your .Renviron file.

Usage

```
browse_gc_credentials()
```

Value

The url of the "Credentials" page, invisibly.

Examples

```
gc_credentials_url <- browse_gc_credentials()
# Copy/paste values from your client.
Sys.setenv(YOUTUBE_CLIENT_ID = "12345-ab12c.apps.googleusercontent.com")
Sys.setenv(YOUTUBE_CLIENT_SECRET = "ABCD-eFg_H")</pre>
```

datetime 3

datetime

Datetime vectors

Description

Create an object of type "POSIXct". This function is used to provide a length-0 placeholder value in function definitions.

Usage

```
datetime()
```

Value

A length-0 POSIXct object.

Examples

```
datetime()
```

```
\begin{tabular}{ll} \tt get\_my\_channel\_detail\_playlist\_ids \\ & \textit{Get my channel detail playlist ids} \end{tabular}
```

Description

Get ids of playlists that contain details about the content of a channel.

Usage

```
get_my_channel_detail_playlist_ids(
  client = yt_construct_client(),
  cache_disk = getOption("yt_cache_disk", FALSE),
  cache_key = getOption("yt_cache_key", NULL),
  token = NULL
)
```

Arguments

client	A YouTube OAuth client created with yt_construct_client().
cache_disk	Should the access token be cached on disk? This reduces the number of times that you need to re-authenticate at the cost of storing access credentials on disk.
	Learn more in https://httr2.r-lib.org/articles/oauth.html.
cache_key	If you are authenticating with multiple users using the same client, use this key to differentiate between those users.
token	A YouTube API OAuth token, or the access_token string from such a token. We recommend that you instead supply a client, in which case an appropriate token will be located if possible.

4 get_playlist_items

Value

The *contentDetails* object encapsulates information about the channel's content.

Property	Class	Description
watchHistory	character	The ID of the playlist that contains the channel's watch history. Use the playlistItems.insert and p
likes	character	The ID of the playlist that contains the channel's liked videos. Use the playlistItems.insert and playlistItems.insert an
favorites	character	The ID of the playlist that contains the channel's favorite videos. Use the playlistItems.insert and
watchLater	character	The ID of the playlist that contains the channel's watch later playlist. Use the playlistItems.insert
uploads	character	The ID of the playlist that contains the channel's uploaded videos. Use the videos.insert method to

Examples

```
get_my_channel_details()
```

Description

Retrieve a list of items in a given playlist.

Usage

```
get_playlist_items(
  playlist_id,
  max_results = 100,
  client = yt_construct_client(),
  cache_disk = getOption("youtuberR.cache_disk", FALSE),
  cache_key = getOption("youtuberR.cache_key", NULL),
  token = NULL
)
```

Arguments

playlist_id	The ID of a playlist.
max_results	The maximum number of results to return.
client	A YouTube OAuth client created with yt_construct_client().
cache_disk	Should the access token be cached on disk? This reduces the number of times that you need to re-authenticate at the cost of storing access credentials on disk. Learn more in https://httr2.r-lib.org/articles/oauth.html.
cache_key	If you are authenticating with multiple users using the same client, use this key to differentiate between those users.
token	A YouTube API OAuth token, or the access_token string from such a token. We recommend that you instead supply a client, in which case an appropriate token will be located if possible.

get_playlist_video_ids 5

Value

A list of videos, each of which has a videoId and a videoPublishedAt.

Examples

```
get_playlist_items(playlist_id = get_upload_playlist_id())
```

```
{\it Get playlist\_video\_ids} \\ {\it Get playlist video ids}
```

Description

Retrieves video ids for a particular playlist.

Usage

```
get_playlist_video_ids(
  playlist_id,
  max_results = 100,
  client = yt_construct_client(),
  cache_disk = getOption("yt_cache_disk", FALSE),
  cache_key = getOption("yt_cache_key", NULL),
  token = NULL
)
```

Arguments

playlist_id	The ID of a playlist.
max_results	The maximum number of results to return.
client	A YouTube OAuth client created with yt_construct_client().
cache_disk	Should the access token be cached on disk? This reduces the number of times that you need to re-authenticate at the cost of storing access credentials on disk. Learn more in https://httr2.r-lib.org/articles/oauth.html.
cache_key	If you are authenticating with multiple users using the same client, use this key to differentiate between those users.
token	A YouTube API OAuth token, or the access_token string from such a token. We recommend that you instead supply a client, in which case an appropriate token will be located if possible.

Value

A character vector of video ids.

Examples

```
get_playlist_video_ids(playlist_id = get_upload_playlist_id())
```

```
{\tt get\_upload\_playlist\_id} \\ {\it Get\ Playlist\ Ids}
```

Description

Retrieves the upload playlist ids.

Usage

```
get_upload_playlist_id(
  client = yt_construct_client(),
  cache_disk = getOption("yt_cache_disk", FALSE),
  cache_key = getOption("yt_cache_key", NULL),
  token = NULL
)
```

Arguments

client	A YouTube OAuth client created with yt_construct_client().
cache_disk	Should the access token be cached on disk? This reduces the number of times that you need to re-authenticate at the cost of storing access credentials on disk.
	Learn more in https://httr2.r-lib.org/articles/oauth.html.
cache_key	If you are authenticating with multiple users using the same client, use this key to differentiate between those users.
token	A YouTube API OAuth token, or the access_token string from such a token. We recommend that you instead supply a client, in which case an appropriate token will be located if possible.

Value

list of playlist ids for uploads

Examples

```
get_upload_playlist_id()
```

Description

Retrieves the processing details for a vector of video IDs

Usage

```
get_video_processing_details(
  video_ids,
  client = yt_construct_client(),
  cache_disk = getOption("yt_cache_disk", FALSE),
  cache_key = getOption("yt_cache_key", NULL),
  token = NULL
)
```

Arguments

video_ids	A character vector of video ids.
client	A YouTube OAuth client created with yt_construct_client().
cache_disk	Should the access token be cached on disk? This reduces the number of times that you need to re-authenticate at the cost of storing access credentials on disk. Learn more in https://httr2.r-lib.org/articles/oauth.html.
cache_key	If you are authenticating with multiple users using the same client, use this key to differentiate between those users.
token	A YouTube API OAuth token, or the access_token string from such a token. We recommend that you instead supply a client, in which case an appropriate token will be located if possible.

Value

A list of processing status details. processingStatus is probably of most interest

Examples

```
get_upload_playlist_id() |>
  get_playlist_items() |>
  get_video_processing_details()
```

8 yt_call_api

yt_authenticate	Authenticate with a YouTube OAuth client	
-		

Description

Load or generate a YouTube OAuth token for use in the other functions in this package. The primary use of this function is to cache values early in a script (so the user can walk away). Otherwise the other functions in this package will prompt for authentication when needed. Once the values are cached, the rest of this package will use them by default for that client.

Usage

```
yt_authenticate(
  client = yt_construct_client(),
  force = FALSE,
  refresh_token = NULL
)
```

Arguments

client A YouTube OAuth client created with yt_construct_client().

force A logical indicating whether to force a refresh of the token.

refresh_token A refresh token associated with this client. This parameter exists primarily for

testing. If you wish to provide a refresh token (for example, for automated processes), we recommend setting a YOUTUBE_REFRESH_TOKEN environment vari-

able.

Value

A YouTube OAuth token, invisibly.

Examples

```
token <- yt_authenticate()</pre>
```

Description

If you use this function, please open an issue in the youtubeR GitHub repository describing your use case. We intend to wrap all endpoints such that this function will not be necessary for users.

yt_construct_client 9

Usage

```
yt_call_api(
  endpoint,
  query = NULL,
  body = NULL,
  method = NULL,
  client = yt_construct_client(),
  cache_disk = getOption("youtuberR.cache_disk", FALSE),
  cache_key = getOption("youtuberR.cache_key", NULL),
  token = NULL,
  base_url = c("basic", "upload", "resumable_upload")
)
```

Arguments

endpoint	The path to an endpoint. Optionally, a list with the path plus variables to glue::glue() into the path.
query	An optional list of parameters to pass in the query portion of the request.
body	An optional list of parameters to pass in the body portion of the request.
method	If the method is something other than GET or POST, supply it. Case is ignored.
client	A YouTube OAuth client created with yt_construct_client().
cache_disk	Should the access token be cached on disk? This reduces the number of times that you need to re-authenticate at the cost of storing access credentials on disk.
	Learn more in https://httr2.r-lib.org/articles/oauth.html.
cache_key	If you are authenticating with multiple users using the same client, use this key to differentiate between those users.
token	A YouTube API OAuth token, or the access_token string from such a token. We recommend that you instead supply a client, in which case an appropriate token will be located if possible.
base_url	Which family of URLs to use. Almost everything will use the default basic URL.

Value

The result of the call.

Description

Builds the OAuth client object for google apis.

10 yt_has_client_envvars

Usage

```
yt_construct_client(
  client_id = Sys.getenv("YOUTUBE_CLIENT_ID"),
  client_secret = Sys.getenv("YOUTUBE_CLIENT_SECRET")
)
```

Arguments

client_id A Google Cloud OAuth 2.0 client ID. We recommend you save it as an environ-

ment variable, YOUTUBE_CLIENT_ID.

client_secret A Google Cloud OAuth 2.0 client secret. We recommend you save it as an

environment variable, YOUTUBE_CLIENT_SECRET.

Value

```
An httr2::oauth_client() object.
```

Examples

```
client <- yt_construct_client()</pre>
```

```
yt_has_client_envvars Check for YouTube client environment variables
```

Description

Reports whether YouTube client environment variables are set (or, if arguments are provided, check that they have characters).

Usage

```
yt_has_client_envvars(
  client_id = Sys.getenv("YOUTUBE_CLIENT_ID"),
  client_secret = Sys.getenv("YOUTUBE_CLIENT_SECRET")
)
```

Arguments

client_id A Google Cloud OAuth 2.0 client ID. We recommend you save it as an environ-

ment variable, YOUTUBE_CLIENT_ID.

client_secret A Google Cloud OAuth 2.0 client secret. We recommend you save it as an

environment variable, YOUTUBE_CLIENT_SECRET.

Value

A logical indicating whether the variables are available.

Examples

Description

Localized versions of certain video properties (e.g. title).

Usage

```
yt_schema_video_localization(description = character(), title = character())
```

Arguments

```
description (character scalar) Localized version of the video's description. title (character scalar) Localized version of the video's title.
```

Value

A list with any non-zero-length properties.

Examples

Description

Basic details about a video, including title, description, uploader, thumbnails and category.

Usage

```
yt_schema_video_snippet(
  title = character(),
  description = character(),
  tags = character(),
  category_id = character(),
  default_language = character()
```

12 yt_schema_video_status

Arguments

```
title (character scalar) The video's title.

description (character scalar) The video's description.

tags (character vector) A list of keyword tags associated with the video. Tags may contain spaces.

category_id (character scalar) The YouTube video category associated with the video.

default_language (character scalar) The language of the videos's default snippet.
```

Value

A list with any non-zero-length properties.

Examples

Description

The status object contains information about the video's uploading, processing, and privacy statuses.

Usage

```
yt_schema_video_status(
  embeddable = logical(),
  license = character(),
  privacy_status = character(),
  public_stats_viewable = logical(),
  publish_at = datetime(),
  self_declared_made_for_kids = logical()
)
```

Arguments

```
embeddable (logical) This value indicates if the video can be embedded on another website.

license (factor scalar) The video's license. values: youtube, creativeCommon

privacy_status (factor scalar) The video's privacy status. values: public, unlisted, private

public_stats_viewable
```

(logical) This value indicates if the extended video statistics on the watch page can be viewed by everyone. Note that the view count, likes, etc will still be visible if this is disabled.

yt_videos_delete 13

```
publish_at (datetime scalar) The date and time when the video is scheduled to publish. It can be set only if the privacy status of the video is private.

self_declared_made_for_kids
(logical) Whether the video is made for kids.
```

Value

A list with any non-zero-length properties.

Examples

```
yt_schema_video_status()
yt_schema_video_status(embeddable = TRUE)
```

yt_videos_delete

Delete video

Description

Deletes a resource.

Usage

```
yt_videos_delete(
  video_id,
  client = yt_construct_client(),
  cache_disk = getOption("youtuberR.cache_disk", FALSE),
  cache_key = getOption("youtuberR.cache_key", NULL),
  token = NULL
)
```

Arguments

video_id	(character scalar) The id parameter specifies the YouTube video ID for the resource that is being deleted. In a video resource, the id property specifies the video's ID.
client	A YouTube OAuth client created with yt_construct_client().
cache_disk	Should the access token be cached on disk? This reduces the number of times that you need to re-authenticate at the cost of storing access credentials on disk. Learn more in https://http2.r-lib.org/articles/oauth.html .
cache_key	If you are authenticating with multiple users using the same client, use this key to differentiate between those users.
token	A YouTube API OAuth token, or the access_token string from such a token. We recommend that you instead supply a client, in which case an appropriate token will be located if possible.

14 yt_videos_insert

Value

The id of the deleted video.

Description

Inserts a new resource into this collection.

Usage

```
yt_videos_insert(
  video_path,
  snippet = yt_schema_video_snippet(),
  localizations = list(),
  status = yt_schema_video_status(),
  recording_date = datetime(),
  client = yt_construct_client(),
  cache_disk = getOption("youtuberR.cache_disk", FALSE),
  cache_key = getOption("youtuberR.cache_key", NULL),
  token = NULL
)
```

Arguments

video_path (character scalar) Path to a video file to upload.

snippet Basic details about a video, including title, description, uploader, thumbnails

and category. See yt_schema_video_snippet() for details.

localizations A list of named localizations objects. The localizations object contains localized

versions of the basic details about the video, such as its title and description. The name should be a valid language key, which is a BCP-47 language code. See yt_schema_video_localization() for details on the format for each localiza-

tion.

status Basic details about a video category, such as its localized title. See yt_schema_video_status()

for details.

recording_date (datetime scalar) The date and time when the video was recorded.

client A YouTube OAuth client created with yt_construct_client().

cache_disk Should the access token be cached on disk? This reduces the number of times

that you need to re-authenticate at the cost of storing access credentials on disk.

Learn more in https://httr2.r-lib.org/articles/oauth.html.

cache_key If you are authenticating with multiple users using the same client, use this key

to differentiate between those users.

token A YouTube API OAuth token, or the access_token string from such a token.

We recommend that you instead supply a client, in which case an appropriate

token will be located if possible.

yt_videos_update 15

Value

The id of the uploaded video.

Description

Updates an existing resource.

Usage

```
yt_videos_update(
  video_id,
  snippet = yt_schema_video_snippet(),
  localizations = list(),
  status = yt_schema_video_status(),
  recording_date = datetime(),
  client = yt_construct_client(),
  cache_disk = getOption("youtuberR.cache_disk", FALSE),
  cache_key = getOption("youtuberR.cache_key", NULL),
  token = NULL
)
```

Arguments

video_id (character scalar) The id parameter specifies the YouTube video ID for the re-

source that is being updated In a video resource, the id property specifies the

video's ID.

snippet Basic details about a video, including title, description, uploader, thumbnails

and category. See yt_schema_video_snippet() for details.

localizations A list of named localizations objects. The localizations object contains localized

versions of the basic details about the video, such as its title and description. The name should be a valid language key, which is a BCP-47 language code. See yt_schema_video_localization() for details on the format for each localiza-

tion.

status Basic details about a video category, such as its localized title. See yt_schema_video_status()

for details.

recording_date (datetime scalar) The date and time when the video was recorded. client

A YouTube OAuth client created with yt_construct_client().

cache_disk Should the access token be cached on disk? This reduces the number of times

that you need to re-authenticate at the cost of storing access credentials on disk.

Learn more in https://httr2.r-lib.org/articles/oauth.html.

cache_key If you are authenticating with multiple users using the same client, use this key

to differentiate between those users.

16 yt_videos_update

token

A YouTube API OAuth token, or the access_token string from such a token. We recommend that you instead supply a client, in which case an appropriate token will be located if possible.

Value

The id of the updated video.

Index

```
browse_gc_credentials, 2
datetime, 3
get_my_channel_detail_playlist_ids, 3
get_playlist_items, 4
get_playlist_video_ids, 5
get_upload_playlist_id, 6
get_video_processing_details, 7
glue::glue(),9
httr2::oauth_client(), 10
yt_authenticate, 8
yt_call_api, 8
yt\_construct\_client, 9
yt_construct_client(), 3-9, 13-15
yt_has_client_envvars, 10
yt_schema_video_localization, 11
yt_schema_video_localization(), 14, 15
yt_schema_video_snippet, 11
yt_schema_video_snippet(), 14, 15
yt_schema_video_status, 12
yt_schema_video_status(), 14, 15
yt_videos_delete, 13
yt_videos_insert, 14
yt_videos_update, 15
```