

Package ‘youTubeDataR’

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Type Package

Title Integrates R and the YouTube Data API

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Description Integrates R and the YouTube Data API to allow fetching data from Youtube.

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LazyData TRUE

URL <https://github.com/SocialFunction/youTubeDataR>

BugReports <https://github.com/SocialFunction/youTubeDataR/issues>

Imports httr,
 jsonlite,
 plyr

RoxygenNote 5.0.1

Suggests testthat

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findParams	<i>findParams</i>
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Description

Helper function to retrieve valid values for parameters (mostly used internally)

Usage

```
findParams(param)
```

Arguments

param	Parameter to retrieve
-------	-----------------------

Details

Given the pletoric number of parameters a this helper function is provided. Please see the [official documentation](#) for more information. Note that not all parameters (i.e.: `channel.id`) cannot, by nature, be tested.

Valid parameters:

- `order`
- `video.dimension`
- `video.caption`
- `video.duration`
- `video.definition`
- `video.embeddable`
- `video.syndicated`
- `video.license`
- `video.type`
- `safe.search`
- `event.type`
- `channel.type`
- `type`
- `text.format`
- `moderation.status`

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# find valid values for video.dimension
dims <- findParams(param = "video.dimension")

# set seed for reproducibility
set.seed(19880525)

# fetch data using parameter
cats <- searchVideos(token, query = "cats",
                    video.dimension = sample(dims, 1))

## End(Not run)
```

findParts

findParts

Description

Helper function to retrieve valid values for part (mostly used internally).

Usage

```
findParts(FUN)
```

Arguments

FUN Function to retrieve the valid part.

Details

Valid FUN:

- [getActivities](#)
- [getCaptions](#)
- [getChannels](#)
- [getChannelSections](#)
- [getComments](#)
- [getCommentThreads](#)
- [getPlaylistItems](#)
- [getPlaylists](#)
- [getSubscriptions](#)
- [getVideos](#)

Alternatively see scope in [youOAuth](#).

Author(s)

<jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- you0Auth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# search channels about cats
search <- searchTube(token, query = "cats", type = "channel")

# random channel id
set.seed(19880525)
chan <- sample(search$id.channelId, 1)

# get valid part
p <- findParts(FUN = "getActivities")[1]

# fetch data
act <- getActivities(token, channel.id = chan, part = p)

## End(Not run)
```

getActivities

getActivities

Description

Returns a list of caption tracks matching a specific criteria.

Usage

```
getActivities(token, channel.id, mine = FALSE, home = FALSE,
             part = "snippet", n = 50, max.results = 50,
             published.before = Sys.time(), published.after = NULL,
             region.code = NULL, verbose = FALSE)
```

Arguments

token	Your token as returned by you0Auth .
channel.id	Indicates that the API response should only contain resources created by the channel.
mine	Set this parameter's value to true to retrieve a feed of the authenticated user's activities. The default value is FALSE.
home	Set this parameter's value to true to retrieve the activity feed that displays on the YouTube home page for the currently authenticated user. The default value is FALSE.

part	The part parameter specifies a comma-separated list of one or more activity resource properties that the API response will include. The default value is snippet, can take any of contentDetails, id or snippet. See link{findParts} .
n	Number of results to fetch. The default value is 50.
max.results	Specifies the maximum number of results that should be returned by each API call. Acceptable values are 0 to 50, inclusive. The default value is 50.
published.before	Indicates that the API response should only contain resources created before the specified time. Can be either of class Date (" or POSIXct or POSIXlt with time, or an RFC 3339 formatted date-time value (i.e.: 1970-01-01T00:00:00Z). The default value is Sys.time().
published.after	Indicates that the API response should only contain resources created after the specified time. Can be either of class Date (" or POSIXct or POSIXlt with time, or an RFC 3339 formatted date-time value (i.e.: 1970-01-01T00:00:00Z). The default value is NULL.
region.code	Instructs the API to return search results for the specified country. The parameter value is an ISO 3166-1 alpha-2 country code. The default value is NULL. See getRegions
verbose	If TRUE prints informational messages in the console. The default value is FALSE.

Details

MUST specify one of channel.id OR mine OR home.

Author(s)

John Coene <jcoenep@hotmail.com>

See Also

[you0Auth](#), [findParts](#)

Examples

```
## Not run:
# Authenticate
token <- you0Auth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# search channels about cats
search <- searchTube(token, query = "cats", type = "channel")

# pick random channel id
set.seed(19880525)
chan <- sample(search$snippet.id.channelId, 1)

# fetch data
act <- getActivities(token, channel.id = chan)

## End(Not run)
```

getCaptions

getCaptions

Description

Returns a list of caption tracks that are associated with a specified video.

Usage

```
getCaptions(token, video.id, part = "snippet", id = NULL,
  on.behalf.of.content.owner = NULL)
```

Arguments

token	Your token as returned by you0Auth .
video.id	specifies the YouTube video ID of the video for which the API should return caption tracks. Required.
part	specifies the caption resource parts that the API response will include. The default vlaue is snippet, can take any of id or snippet. See findParts .
id	The id parameter specifies a comma-separated list of IDs that identify the caption resources that should be retrieved. Each ID must identify a caption track associated with the specified video. The default value is NULL.
on.behalf.of.content.owner	The on.behalf.of.content.owner parameter indicates that the request's authorization credentials identify a YouTube CMS user who is acting on behalf of the content owner specified in the parameter value. This parameter is intended for YouTube content partners that own and manage many different YouTube channels. It allows content owners to authenticate once and get access to all their video and channel data, without having to provide authentication credentials for each individual channel. The actual CMS account that the user authenticates with must be linked to the specified YouTube content owner. This parameter can only be used in a properly authorized request. Note: This parameter is intended exclusively for YouTube content partners. See scopes under you0Auth . The default value is NULL.

Details

See scope in [you0Auth](#). Required authorisation:

- force-ssl
- partner-channel-audit

Author(s)

John Coene <jcoenep@hotmail.com>

See Also

[link{you0Auth}](#), [findParts](#)

Examples

```
## Not run:
# Authenticate
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXX")

# search videos about cats
search <- searchTube(token, query = "cats", type = "video")

# random channel id
set.seed(19880525)
vid <- sample(search$snippet.id.videoId, 1)

# fetch data
act <- getActivities(token, video.id = vid)

## End(Not run)
```

getChannels

getChannels

Description

Returns a collection of zero or more channel resources that match the request criteria.

Usage

```
getChannels(token, n = 50, part = "snippet", category.id, for.username, id,
            managed.by.me = FALSE, mine = FALSE, hl = NULL, max.results = 50,
            on.behalf.of.content.owner = NULL, verbose = FALSE)
```

Arguments

token	Your token as returned by youOAuth .
n	Number of results to fetch. The default value is 50.
part	The part parameter specifies a comma-separated list of one or more activity resource properties that the API response will include. The default value is snippet, see findParts or official documentation for all valid values.
category.id	Specifies a YouTube guide category, thereby requesting YouTube channels associated with that category. As returned by getGuideCategories . The default value is NULL.
for.username	Specifies a YouTube username, thereby requesting the channel associated with that username. The default value is NULL.
id	specifies a comma-separated list of the YouTube channel ID(s) for the resource(s) that are being retrieved. In a channel resource, the id property specifies the channel's YouTube channel ID. The default value is NULL

<code>managed.by.me</code>	This parameter can only be used in a properly authorized request. Note: This parameter is intended exclusively for YouTube content partners. See scopes under youOAuth . Set this parameter's value to true to instruct the API to only return channels managed by the content owner that the <code>on.befalf.of.content.owner</code> parameter specifies. The user must be authenticated as a CMS account linked to the specified content owner and <code>on.befalf.of.content.owner</code> must be provided.
<code>mine</code>	Set this parameter's value to true to retrieve a feed of the authenticated user's activities. The default value is FALSE.
<code>hl</code>	The <code>hl</code> parameter instructs the API to retrieve localized resource metadata for a specific application language that the YouTube website supports. The parameter value must be a language code included in the list returned by getLanguages .
<code>max.results</code>	Specifies the maximum number of results that should be returned by each API call. Acceptable values are 0 to 50, inclusive. The default value is 50.
<code>on.befalf.of.content.owner</code>	Indicates that the request's authorization credentials identify a YouTube CMS user who is acting on behalf of the content owner specified in the parameter value. This parameter is intended for YouTube content partners that own and manage many different YouTube channels. It allows content owners to authenticate once and get access to all their video and channel data, without having to provide authentication credentials for each individual channel. The actual CMS account that the user authenticates with must be linked to the specified YouTube content owner. This parameter can only be used in a properly authorized request. Note: This parameter is intended exclusively for YouTube content partners. See scope under youOAuth . The default value is NULL.
<code>verbose</code>	If TRUE prints informational messages in the console. The default value is FALSE.

Details

MUST specify at least one of the following:

- `category.id`
- `for.username`
- `id`
- `managed.by.me` (TRUE)
- `mine` (TRUE)

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# search channels about cats
search <- searchTube(token, query = "cats", type = "channel")
```



```
# pick random id
set.seed(19880525)
chan <- sample(search$snippet.id.channelId, 1)

# fetch
chan.dat <- getChannels(token, id = chan)

## End(Not run)
```

getChannelSections *getChannelSections*

Description

Returns a list of channelSection resources that match the API request criteria.

Usage

```
getChannelSections(token, channel.id, part = "snippet", mine = FALSE, id,
  hl = NULL, on.behalf.of.content.owner = NULL, verbose = FALSE)
```

Arguments

token	Your token as returned by youOAuth .
channel.id	Indicates that the API response should only contain resources created by the channel. The default value is NULL.
part	The part parameter specifies a comma-separated list of one or more activity resource properties that the API response will include. The default value is snippet, can take any of contentDetails, id or snippet. See findParts .
mine	Set this parameter's value to true to retrieve a feed of the authenticated user's activities. The default value is FALSE.
id	Specifies a comma-separated list of IDs that uniquely identify the channelSection resources that are being retrieved. In a getChannelSections resource, the id property specifies the section's ID.
hl	The hl parameter instructs the API to retrieve localized resource metadata for a specific application language that the YouTube website supports. The parameter value must be a language code included in the list returned by getLanguages
on.behalf.of.content.owner	Indicates that the request's authorization credentials identify a YouTube CMS user who is acting on behalf of the content owner specified in the parameter value. This parameter is intended for YouTube content partners that own and manage many different YouTube channels. It allows content owners to authenticate once and get access to all their video and channel data, without having to provide authentication credentials for each individual channel. The actual CMS account that the user authenticates with must be linked to the specified YouTube content owner. This parameter can only be used in a properly authorized request. Note: This parameter is intended exclusively for YouTube content partners. See scope under youOAuth . The default value is NULL.
verbose	If TRUE prints informational messages in the console. The default value is FALSE.

Details

Must specify one (and only one) of mine (TRUE), id or channel.id.

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
#Authenticate
token <- you0Auth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# search channels on cats
search <- searchTube(token, query = "cats", type = "channel")

# get channel sections
sections <- getChannelSections(token,
                              channel.id = search$snippet.channelId [1])

## End(Not run)
```

getComments

getComments

Description

Returns a list of comments that match the API request parameters.

Usage

```
getComments(token, part = "snippet", n = 50, max.results = 50, id,
            parent.id, text.format = "html", verbose = FALSE)
```

Arguments

token	Your token as returned by you0Auth .
part	The part parameter specifies a comma-separated list of one or more activity resource properties that the API response will include. The default value is snippet, can take any of snippet or id. See findParts .
n	Number of results to fetch. The default value is 50.
max.results	Specifies the maximum number of results that should be returned by each API call. Acceptable values are 0 to 50, inclusive. The default value is 50.
id	Specifies a comma-separated list of comment IDs for the resources that are being retrieved. In a comment resource, specifies the comment's ID.
parent.id	Specifies the ID of the comment for which replies should be retrieved. Note: YouTube currently supports replies only for top-level comments. However, replies to replies may be supported in the future.

<code>text.format</code>	Indicates whether the API should return comments formatted as HTML or as plain text. The default value is <code>html</code> .
<code>verbose</code>	If <code>TRUE</code> prints informational messages in the console. The default value is <code>FALSE</code> .

Details

Must specify one (and only one) of `id` or `parent.id`.

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

## End(Not run)
```

<code>getCommentThreads</code>	<i>getCommentThreads</i>
--------------------------------	--------------------------

Description

Returns a list of comment threads that match the API request parameters.

Usage

```
getCommentThreads(token, part = "snippet", n = 20, channel.id,
  all.threads.related.to.channel.id, id, video.id, max.results = NULL,
  moderation.status = "published", order = NULL, search.terms = NULL,
  text.format = NULL, verbose = FALSE)
```

Arguments

<code>token</code>	Your token as returned by youOAuth .
<code>part</code>	The <code>part</code> parameter specifies a comma-separated list of one or more activity resource properties that the API response will include. The default value is <code>snippet</code> , can take any of <code>snippet</code> or <code>id</code> . See findParts .
<code>n</code>	Number of results to fetch. The default value is 20.
<code>channel.id</code>	Instructs the API to return comment threads containing comments about the specified channel. (The response will not include comments left on videos that the channel uploaded.).
<code>all.threads.related.to.channel.id</code>	Instructs the API to return all comment threads associated with the specified channel. The response can include comments about the channel or about the channel's videos.

<code>id</code>	Specifies a comma-separated list of comment thread IDs for the resources that should be retrieved.
<code>video.id</code>	Instructs the API to return comment threads associated with the specified video ID.
<code>max.results</code>	Specifies the maximum number of results that should be returned by each API call. Acceptable values are 0 to 100, inclusive. The default value is NULL.
<code>moderation.status</code>	Specifies the maximum number of items that should be returned in the result set. Note: This parameter is not supported for use in conjunction with the <code>id</code> parameter. Acceptable values are 1 to 100, inclusive. The default value is 20.
<code>order</code>	Specifies the method that will be used to order resources in the API response. The default value is NULL. See findParams for valid values.
<code>search.terms</code>	Instructs the API to limit the API response to only contain comments that contain the specified search terms.
<code>text.format</code>	Set this parameter's value to <code>html</code> or <code>plainText</code> to instruct the API to return the comments left by users in html formatted or in plain text. The default value is NULL - which YouTube defaults to <code>html</code> . See findParams for all valid values.
<code>verbose</code>	If TRUE prints informational messages in the console. The default value is FALSE.

Details

Must specify one (and only one) of `all.threads.related.to.channel.id` or `channel.id` or `video.id`

The `part` parameter has great impact on your quota, visit the [official documentation](#) for more information.

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# search channel on cats
search <- searchTube(token, query = "cats", type = "channel")

# sample random channel
set.seed(19880525)
channel <- sample(search$snippet.id.channelId, 1)

# fetch comment thread
cats <- getCommentThreads(token, all.threads.related.to.channel.id = channel)

## End(Not run)
```

getGuideCategories	<i>getGuideCategories</i>
--------------------	---------------------------

Description

Returns a list of categories that can be associated with YouTube channels.

Usage

```
getGuideCategories(token, id, region.code, hl = NULL)
```

Arguments

token	Your token as returned by youOAuth .
id	Specifies a comma-separated list of the YouTube channel category ID(s) for the resource(s) that are being retrieved. In a <code>guide.category</code> resource, the <code>id</code> property specifies the YouTube channel category ID.
region.code	Instructs the API to return the list of guide categories available in the specified country. The parameter value is an ISO 3166-1 alpha-2 country code.
hl	Specifies the language that will be used for text values in the API response. The default value (from YouTube) is en-US. See getLanguages

Details

Must specify one (and only one) filter `id` or `region.code`

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# fetch categories from Belgium
dull.cat <- getCategories(token, region.code = "BE")

## End(Not run)
```

getLanguages

getLanguages

Description

Returns a list of application languages that the YouTube website supports.

Usage

```
getLanguages(token, hl = NULL, verbose = FALSE)
```

Arguments

token	Your token as returned by you0Auth .
hl	Specifies the language that should be used for text values in the API response. The default value is en_US. Optional argument.
verbose	If TRUE prints informational messages in the console. The default value is FALSE.

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- you0Auth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# fetch languages
lang <- getLanguages(token)

## End(Not run)
```

getPlaylistItems

getPlaylistItems

Description

Returns a collection of playlist items that match the API request parameters.

Usage

```
getPlaylistItems(token, part = "snippet", n = 50, id, playlist.id,
                 max.results = 50, on.behalf.of.content.owner = NULL, video.id = NULL,
                 verbose = FALSE)
```

Arguments

token	Your token as returned by you0Auth .
part	The part parameter specifies a comma-separated list of one or more activity resource properties that the API response will include. The default value is snippet, see findParts or official documentation for all valid values.
n	Number of results to fetch. The default value is 50.
id	The id parameter specifies a comma-separated list of one or more unique playlist item IDs.
playlist.id	Specifies the unique ID of the playlist for which you want to retrieve playlist items. Note that even though this is an optional parameter, every request to retrieve playlist items must specify a value for either the id parameter or the playlist.id parameter.
max.results	Specifies the maximum number of results that should be returned by each API call. Acceptable values are 0 to 50, inclusive. The default value is 50.
on.behalf.of.content.owner	This parameter can only be used in a properly authorized request. Note: This parameter is intended exclusively for YouTube content partners. Indicates that the request's authorization credentials identify a YouTube CMS user who is acting on behalf of the content owner specified in the parameter value. This parameter is intended for YouTube content partners that own and manage many different YouTube channels. It allows content owners to authenticate once and get access to all their video and channel data, without having to provide authentication credentials for each individual channel. The CMS account that the user authenticates with must be linked to the specified YouTube content owner.
video.id	Specifies that the request should return only the playlist items that contain the specified video.
verbose	If TRUE prints informational messages in the console. The default value is FALSE.

Details

Must pass either id or playlist.id

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- you0Auth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# search playlists
search <- searchTube(token, query = "cats", type = "playlist")

# sample playlist id
id <- sample(search$id.playlistId, 1)

# fetch
items <- getPlaylistItems(token, playlist.id = id)
```

```
## End(Not run)
```

getPlaylists	<i>getPlaylists</i>
--------------	---------------------

Description

Returns a collection of playlists that match the API request parameters.

Usage

```
getPlaylists(token, part = "snippet", channel.id, id, mine = FALSE,
  n = 50, max.results = 50, hl = NULL,
  on.behalf.of.content.owner = NULL,
  on.behalf.of.content.owner.channel = NULL, verbose = FALSE)
```

Arguments

token	Your token as returned by you0Auth .
part	The part parameter specifies a comma-separated list of one or more activity resource properties that the API response will include. The default value is snippet, see findParts for all valid values..
channel.id	Indicates that the API should only return the specified channel's playlists.
id	Specifies a comma-separated list of the YouTube playlist ID(s) for the resource(s) that are being retrieved.
mine	This parameter can only be used in a properly authorized request. Set this parameter's value to TRUE to instruct the API to only return playlists owned by the authenticated user.
n	Number of results to fetch. The default value is 50.
max.results	Specifies the maximum number of results that should be returned by each API call. Acceptable values are 0 to 50, inclusive. The default value is 50.
hl	nstructs the API to retrieve localized resource metadata for a specific application language that the YouTube website supports. The parameter value must be a language code included in the list returned by the getLanguages . The default value is NULL.
on.behalf.of.content.owner	This parameter can only be used in a properly authorized request. Note: This parameter is intended exclusively for YouTube content partners. Indicates that the request's authorization credentials identify a YouTube CMS user who is acting on behalf of the content owner specified in the parameter value. This parameter is intended for YouTube content partners that own and manage many different YouTube channels. It allows content owners to authenticate once and get access to all their video and channel data, without having to provide authentication credentials for each individual channel. The CMS account that the user authenticates with must be linked to the specified YouTube content owner. The default value is NULL, must be used in conjunction with on.behalf.of.content.owner.channel.channel

`on.behalf.of.content.owner.channel`

This parameter can only be used in a properly authorized request. Note: This parameter is intended exclusively for YouTube content partners. Specifies the YouTube channel ID of the channel to which a video is being added. This parameter is required when a request specifies a value for the `on.behalf.of.content.owner` parameter, and it can only be used in conjunction with that parameter. In addition, the request must be authorized using a CMS account that is linked to the content owner that the `on.behalf.of.content.owner` parameter specifies. Finally, the channel that the `on.behalf.of.content.owner.channel` parameter value specifies must be linked to the content owner that the `on.behalf.of.content.owner` parameter specifies.

`verbose` If TRUE prints informational messages in the console. The default value is FALSE.

Details

Must specify one (and only one) of `channel.id`, `id` or `mine` (TRUE).

For more information on this API call please see the [official documentation](#).

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# search channels about cats
search <- searchTube(token, query = "cats", type = "channel")

# pick random channel
set.seed(19880525)
chan <- sample(search$snippet.id.channelId, 1)

# fetch playlist
pl <- getPlaylists(token, channel.id = chan)

## End(Not run)
```

getRegions

getRegions

Description

Returns a list of application languages that the YouTube website supports.

Usage

```
getRegions(token, hl = NULL, verbose = FALSE)
```

Arguments

token	Your token as returned by youOAuth .
hl	Specifies the language that should be used for text values in the API response. The default value is en_US. Optional argument.
verbose	If TRUE prints informational messages in the console. The default value is FALSE.

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxx1xxx1xxXXX")

# fetch languages
regions <- getRegions(token)

## End(Not run)
```

getSubscriptions	<i>getSubscriptions</i>
------------------	-------------------------

Description

Returns subscription resources that match the API request criteria.

Usage

```
getSubscriptions(token, part = "snippet", channel.id, id, mine = FALSE,
  my.subscribers = FALSE, max.results = 50, n = 50,
  for.channel.id = NULL, on.behalf.of.content.owner = NULL,
  order = "relevance", on.behalf.of.content.owner.channel = NULL,
  verbose = FALSE)
```

Arguments

token	Your token as returned by youOAuth .
part	The part parameter specifies a comma-separated list of one or more activity resource properties that the API response will include. The default value is snippet, see findParts for all valid values.
channel.id	Specifies a YouTube channel ID. The API will only return that channel's subscriptions.
id	Specifies a comma-separated list of the YouTube subscription ID(s) for the resource(s) that are being retrieved. In a subscription resource, the id property specifies the YouTube subscription ID.

<code>mine</code>	Set this parameter's value to true to retrieve a feed of the authenticated user's subscriptions. The default value is FALSE
<code>my.subscribers</code>	This parameter can only be used in a properly authorized request. Set this parameter's value to TRUE to retrieve a feed of the subscribers of the authenticated user.
<code>max.results</code>	Specifies the maximum number of results that should be returned by each API call. Acceptable values are 0 to 50, inclusive. The default value is 50.
<code>n</code>	Number of results to fetch. The default value is 50.
<code>for.channel.id</code>	Specifies a comma-separated list of channel IDs. The API response will then only contain subscriptions matching those channels.
<code>on.befalf.of.content.owner</code>	This parameter can only be used in a properly authorized request. Note: This parameter is intended exclusively for YouTube content partners. Indicates that the request's authorization credentials identify a YouTube CMS user who is acting on behalf of the content owner specified in the parameter value. This parameter is intended for YouTube content partners that own and manage many different YouTube channels. It allows content owners to authenticate once and get access to all their video and channel data, without having to provide authentication credentials for each individual channel. The CMS account that the user authenticates with must be linked to the specified YouTube content owner. The default value is NULL, must be used in conjunction with <code>on.befalf.of.content.owner.channel.channel</code>
<code>order</code>	Specifies the method that will be used to sort resources in the API response. The default value is relevance, see findParams .
<code>on.befalf.of.content.owner.channel</code>	This parameter can only be used in a properly authorized request. Note: This parameter is intended exclusively for YouTube content partners. Specifies the YouTube channel ID of the channel to which a video is being added. This parameter is required when a request specifies a value for the <code>on.befalf.of.content.owner</code> parameter, and it can only be used in conjunction with that parameter. In addition, the request must be authorized using a CMS account that is linked to the content owner that the <code>on.befalf.of.content.owner</code> parameter specifies. Finally, the channel that the <code>on.befalf.of.content.owner.channel</code> parameter value specifies must be linked to the content owner that the <code>on.befalf.of.content.owner</code> parameter specifies.
<code>verbose</code>	If TRUE prints informational messages in the console. The default value is FALSE.

Details

Must specify one (and only one) `channel.id`, `id`, `mine` (TRUE), `my.subscribers` (TRUE)

Official documentation on this API call; <https://developers.google.com/youtube/v3/docs/playlists/list>

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- you0Auth(client.id = "something.apps.googleusercontent.com",
```

```

client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# search channels
search <- searchTube(token, query = "cats", type = "channel")

# pick random channel
set.seed(19880525)
chan <- sample(search$snippet.id.channelId, 1)

# fetch subs
subs <- getSubscriptions(token, channel.id = chan)

## End(Not run)

```

getVideoCategories	<i>getVideoCategories</i>
--------------------	---------------------------

Description

Returns a list of categories that can be associated with YouTube videos.

Usage

```
getVideoCategories(token, id, region.code, hl = "en_US")
```

Arguments

token	Your token as returned by youOAuth .
id	Specifies a comma-separated list of video category IDs for the resources that you are retrieving.
region.code	Instructs the API to return the list of video categories available in the specified country. The parameter value is an ISO 3166-1 alpha-2 country code.
hl	Specifies the language that should be used for text values in the API response. The default value is en_US.

Details

Must specify either `id` or `region.code`

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```

## Not run:
# Authenticate
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# get categories
video.cat <- getVideoCategories(token, region.code = "US")

```

```
## End(Not run)
```

getVideos

getVideos

Description

Returns a list of videos that match the API request parameters.

Usage

```
getVideos(token, part = "snippet", n = 50, chart = "mostPopular", id,
  my.rating, hl = NULL, max.results = 50,
  on.behalf.of.content.owner = NULL, region.code = NULL,
  video.category.id = NULL, verbose = FALSE)
```

Arguments

token	Your token as returned by you0Auth .
part	The part parameter specifies a comma-separated list of one or more activity resource properties that the API response will include. The default value is snippet, see findParts for all valid values.
n	Number of results to fetch. The default value is 50.
chart	The chart parameter identifies the chart that you want to retrieve. Only valid value is mostPopular or NULL. The default value is mostPopular.
id	Specifies a comma-separated list of the YouTube video ID(s) for the resource(s) that are being retrieved. In a video resource, the id property specifies the video's ID.
my.rating	This parameter can only be used in a properly authorized request. Set this parameter's value to like or dislike to instruct the API to only return videos liked or disliked by the authenticated user.
hl	Specifies the language that will be used for text values in the API response. The default value (from YouTube) is NULL. See getLanguages . If localized resource details are available in that language, the resource's snippet (part = "snippet").
max.results	Specifies the maximum number of results that should be returned by each API call. Acceptable values are 0 to 50, inclusive. The default value is 50.
on.behalf.of.content.owner	This parameter can only be used in a properly authorized request. Note: This parameter is intended exclusively for YouTube content partners. Indicates that the request's authorization credentials identify a YouTube CMS user who is acting on behalf of the content owner specified in the parameter value. This parameter is intended for YouTube content partners that own and manage many different YouTube channels. It allows content owners to authenticate once and get access to all their video and channel data, without having to provide authentication credentials for each individual channel. The CMS account that the user authenticates with must be linked to the specified YouTube content owner.

region.code	Instructs the API to select a video chart available in the specified region. This parameter can only be used in conjunction with the chart parameter. The parameter value is an ISO 3166-1 alpha-2 country code.
video.category.id	Identifies the video category for which the chart should be retrieved. This parameter can only be used in conjunction with the chart parameter. By default, charts are not restricted to a particular category. The default value is 0.
verbose	If TRUE prints informational messages in the console. The default value is FALSE.

Details

Must specify one (and only one) of chart, id or my.rating

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
# Authenticate
token <- you0Auth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# get videos
videos <- getVideos(token)

## End(Not run)
```

searchTube

searchTube

Description

Search YouTube for videos, channels and/or playlists.

Usage

```
searchTube(token, query, n = 50, type = "any", order = "relevance",
            video.dimension = NULL, video.caption = NULL, video.category.id = NULL,
            video.duration = NULL, video.embeddable = NULL, video.syndicated = NULL,
            video.type = NULL, video.definition = NULL, video.license = NULL,
            max.results = 50, location = NULL, location.radius = NULL,
            region.code = NULL, safe.search = "none", event.type = NULL,
            published.before = Sys.time(), published.after = NULL,
            channel.id = NULL, relevance.language = NULL, topic.id = NULL,
            verbose = FALSE)
```

Arguments

token	Your token as returned by you0Auth .
query	The query term to search for. Your request can also use the Boolean NOT (-) and OR () operators to exclude videos or to find videos that are associated with one of several search terms. For example, to search for videos matching either "boating" or "sailing", set the query parameter value to <code>boating sailing</code> . Similarly, to search for videos matching either "boating" or "sailing" but not "fishing", set the query parameter value to <code>boating sailing -fishing</code> .
n	Number of results to fetch. The default value is 50.
type	Restricts a search query to only retrieve a particular type of resource. The value is a comma-separated list of resource types. The default value is any (includes channel, video and playlist).
order	Specifies the method that will be used to order resources in the API response. The default value is relevance. See findParams for valid values.
video.dimension	Restricts a search to only retrieve 2D or 3D videos. The default value is any. If you specify a value for this parameter, you must also set the type parameter's value to video. See findParams for valid values.
video.caption	Indicates whether the API should filter video search results based on whether they have captions. The default value is any. See findParams for valid values. If you specify a value for this parameter, you must also set the type parameter's value to video.
video.category.id	Filters video search results based on their category ID as returned by getVideoCategories .
video.duration	Filters video search results based on their duration. The default value is any. See findParams for valid values. If you specify a value for this parameter, you must also set the type parameter's value to video.
video.embeddable	Restricts a search to only videos that can be embedded into a webpage. The default value is any. See findParams for valid values. If you specify a value for this parameter, you must also set the type parameter's value to video.
video.syndicated	Restricts a search to only videos that can be played outside youtube.com. The default value is any. See findParams for valid values. If you specify a value for this parameter, you must also set the type parameter's value to video.
video.type	Restricts a search to a particular type of videos. The default value is any. See findParams for valid values. If you specify a value for this parameter, you must also set the type parameter's value to video.
video.definition	Restricts a search to only include either high definition (HD) or standard definition (SD) videos. HD videos are available for playback in at least 720p, though higher resolutions, like 1080p, might also be available. The default value is any. See findParams for valid values. If you specify a value for this parameter, you must also set the type parameter's value to video.
video.license	Filters search results to only include videos with a particular license. YouTube lets video uploaders choose to attach either the Creative Commons license or the standard YouTube license to each of their videos. The default value is any. See findParams for valid values. If you specify a value for this parameter, you must also set the type parameter's value to video.

<code>max.results</code>	Specifies the maximum number of results that should be returned by each API call. Acceptable values are 0 to 50, inclusive. The default value is 50.
<code>location</code>	Must be used in conjunction with the <code>locationRadius</code> parameter, defines a circular geographic area and also restricts a search to videos that specify, in their metadata, a geographic location that falls within that area. The parameter value is a vector that specifies latitude and longitude coordinates e.g. <code>c(lat = 37.42307, long = -122.08427)</code> . The default value is NULL.
<code>location.radius</code>	Must be used in conjunction with the <code>location</code> parameter, defines a circular geographic area. The parameter value must be a floating point number followed by a measurement unit. Valid measurement units are m, km, ft, and mi. For example, valid parameter values include 1500m, 5km, 10000ft, and 0.75mi. The API does NOT support parameter values larger than 1000 kilometers. The default value is NULL.
<code>region.code</code>	Instructs the API to return search results for the specified country. The parameter value is an ISO 3166-1 alpha-2 country code. The default value is NULL.
<code>safe.search</code>	Indicates whether the search results should include restricted content as well as standard content. The default value is none. See findParams for valid values.
<code>event.type</code>	Restricts a search to broadcast events. The default value is NULL. See findParams for valid values. If you specify a value for this parameter, you must also set the <code>type</code> parameter's value to video.
<code>published.before</code>	Indicates that the API response should only contain resources created before the specified time. Can be either of class <code>Date</code> (" or <code>POSIXct</code> or <code>POSIXlt</code> with time, or an RFC 3339 formatted date-time value (i.e.: 1970-01-01T00:00:00Z). The default value is <code>Sys.time()</code> .
<code>published.after</code>	Indicates that the API response should only contain resources created after the specified time. Can be either of class <code>Date</code> (" or <code>POSIXct</code> or <code>POSIXlt</code> with time, or an RFC 3339 formatted date-time value (i.e.: 1970-01-01T00:00:00Z). The default value is NULL.
<code>channel.id</code>	Indicates that the API response should only contain resources created by the channel.
<code>relevance.language</code>	Instructs the API to return search results that are most relevant to the specified language. The parameter value is typically an ISO 639-1 two-letter language code . However, you should use the values <code>zh-Hans</code> for simplified Chinese and <code>zh-Hant</code> for traditional Chinese. Please note that results in other languages will still be returned if they are highly relevant to the search query term.
<code>topic.id</code>	Indicates that the API response should only contain resources associated with the specified topic. The value identifies a Freebase topic ID .
<code>verbose</code>	If TRUE prints informational messages in the console. The default value is FALSE.

Details

For more information on the parameters and the API call this function refers to please see <https://developers.google.com/youtube/v3/docs/search/list>. Some parameters are only applicable to `type=video` namely that which are preceded by `video.` and `event.type`.

Value

Returns a collection of search results that match the query parameters specified in the API request.

Returns `data.frame`

Author(s)

John Coene <jcoenep@hotmail.com>

See Also

[findParams](#), [link{youOAuth}](#), [findParts](#)

Examples

```
## Not run:
# Authenticate
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

# search
cats <- searchVideos(token, query = "cats")

# filter 2d videos
2d.cats <- searchVideos(token, query = "cats",
                       video.dimension = findParams("video.dimension")[1],
                       type = "video")

# find valid values for video.dimension
dims <- findParams(param = "video.dimension")

# fetch 3D cats videos from Belgium
dull.cats <- searchVideos(token, query = "cats", region.code = "BE",
                        video.dimension = dims[2], type = "video")

# fetch "clean cat" channels from area 51 using coordinates
safety <- findParams("safe.search")[grep("strict",
                                         findParams("safe.search"))]

clean.cats <- searchVideos(token, query = "clean cats", safe.search = safety,
                          location = c(lat = 37.2350, long = 115.8111),
                          location.radius = "5km", type = "channel")

# fetch video catgeories
video.cat <- getVideoCategories(token, region.code = "US")

# filter pet-related video categories
video.cat <- video.cat[grep("Pets", video.cat$snippet.title),]

# fetch by category
pets <- searchTube(token, query = "cats", video.category.id = video.cat[1])

## End(Not run)
```

youOAuth

youOAuth

Description

OAuth 2.0 authentication

Usage

```
youOAuth(client.id, client.secret, scope = NULL)
```

Arguments

<code>client.id</code>	Your <code>client.id</code> . See details below.
<code>client.secret</code>	Your <code>client.secret</code> . See details below.
<code>scope</code>	Scope of token, defaults to NULL. See details below.

Details

To get your `client.id` and `client.secret` please follow the instructions [here](#) , you may also want to watch the [video](#) Also set the redirect Authorized redirect URIs to your localhost.

Scopes:

- `force-ssl` Manage your YouTube account. This scope requires communication with the API server to happen over an SSL connection.
- `NULL` Manage your YouTube account. This scope is functionally identical to the `youtube.force-ssl` scope listed above because the YouTube API server is only available via an HTTPS endpoint. As a result, even though this scope does not require an SSL connection, there is actually no other way to make an API request.
- `readonly` View your YouTube account.
- `upload` Upload YouTube videos and manage your YouTube videos.
- `partner-channel-audit` Retrieve the [auditDetails](#) part in a channel resource.

See all scopes from documentation [here](#)

Value

Returns object of class `token2.0` from the `httr` package.

Author(s)

John Coene <jcoenep@hotmail.com>

Examples

```
## Not run:
token <- youOAuth(client.id = "something.apps.googleusercontent.com",
                  client.secret = "XxxXX1XxXxXxxx1xxx1xxXXX")

## End(Not run)
```

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