

Package ‘spotify’

March 16, 2021

Title Providing Convenience Functions to Connect R with the Spotify API

Version 0.1.0

Author Lennard van Wanrooij

Maintainer Lennard van Wanrooij <lennardvanwanrooij@gmail.com>

Description Providing convenience functions to connect R with the 'Spotify' application programming interface ('API'). At first it aims to help setting up the OAuth2.0 Authentication flow. The default output of the `get_*`() functions is tidy, but optionally the functions could return the raw response from the 'API' as well. The `search_*`() and `get_*`() functions can be combined. See the vignette for more information and examples and the official Spotify for Developers website <<https://developer.spotify.com/documentation/web-api/>> for information about the Web 'API'.

License MIT + file LICENSE

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Imports magrittr, dplyr, purrr, httr

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

Date/Publication 2021-03-16 15:30:02 UTC

R topics documented:

<code>get_album</code>	2
<code>get_albums</code>	3
<code>get_album_tracks</code>	3
<code>get_artist</code>	4
<code>get_artists</code>	5

get_artist_albums	6
get_artist_related_artists	7
get_artist_top_tracks	7
get_spotify_api_token	8
get_track	9
get_tracks	10
get_tracks_audio_features	10
get_track_audio_features	11
search_albums	12
search_artists	13
search_tracks	14

Index 15

get_album	<i>Gets an album</i>
-----------	----------------------

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/albums/{id}/>

Usage

```
get_album(
  album_id,
  output = c("tidy", "raw"),
  limit = 20,
  offset = 0,
  token = my_token
)
```

Arguments

album_id	Required. Get Spotify Catalog information for this album_id.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

get_albums	<i>Gets multiple albums</i>
------------	-----------------------------

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/albums/>

Usage

```
get_albums(  
  album_ids,  
  output = c("tidy", "raw"),  
  limit = 20,  
  offset = 0,  
  token = my_token  
)
```

Arguments

album_ids	Required. Expects a comma-separated character string of album_ids. Get Spotify Catalog information for these album_ids.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

get_album_tracks	<i>Gets tracks from an album</i>
------------------	----------------------------------

Description

Connects with the Spotify API and returns output from the href [https://api.spotify.com/v1/albums\[id\]/tracks/](https://api.spotify.com/v1/albums[id]/tracks/)

Usage

```
get_album_tracks(
  album_id,
  output = c("tidy", "raw"),
  limit = 20,
  offset = 0,
  token = my_token
)
```

Arguments

album_id	Required. Get Spotify Catalog information for the tracks of this album_id.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

get_artist	<i>Gets an artist</i>
------------	-----------------------

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/artists/{id}/>

Usage

```
get_artist(
  artist_id,
  output = c("tidy", "raw"),
  limit = 20,
  offset = 0,
  token = my_token
)
```

Arguments

artist_id	Required. Get Spotify Catalog information for this artist_id.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

get_artists

Gets multiple artists

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/artists/>

Usage

```
get_artists(
  artist_ids,
  output = c("tidy", "raw"),
  limit = 20,
  offset = 0,
  token = my_token
)
```

Arguments

artist_ids	Required. Expects a comma-separated character string of artist_ids. Get Spotify Catalog information for these artist_ids.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

get_artist_albums	<i>Gets albums from an artist</i>
-------------------	-----------------------------------

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/artists/{id}/albums/>

Usage

```
get_artist_albums(  
  artist_id,  
  output = c("tidy", "raw"),  
  limit = 20,  
  offset = 0,  
  token = my_token  
)
```

Arguments

artist_id	Required. Get Spotify Catalog information for the albums of this artist_id.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0..
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

get_artist_related_artists *Gets related artists from an artist*

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/artists/{id}/related-artists/>

Usage

```
get_artist_related_artists(  
  artist_id,  
  output = c("tidy", "raw"),  
  limit = 20,  
  offset = 0,  
  token = my_token  
)
```

Arguments

artist_id	Required. Get Spotify Catalog information for the related artists of this artist_id.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

get_artist_top_tracks *Gets top tracks from an artist*

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/artists/{id}/top-tracks/>

Usage

```
get_artist_top_tracks(
  artist_id,
  country,
  output = c("tidy", "raw"),
  limit = 20,
  offset = 0,
  token = my_token
)
```

Arguments

artist_id	Required. Get Spotify Catalog information for the top tracks of this artist_id in the given country.
country	Required. ISO-code of country.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.20.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

get_spotify_api_token *Gets a Spotify API token*

Description

Gets an OAuth2.0 token to connect with the Spotify API.

Usage

```
get_spotify_api_token(client_id, client_secret)
```

Arguments

client_id	Your client id. Required.
client_secret	Your client secret. Required.

Value

In case the request succeeded, a token to connect with the Spotify API. On failure, a message indicating that authentication failed.

See Also

The vignette [Connecting-with-the-Spotify-API](#)

get_track	<i>Gets a track</i>
-----------	---------------------

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/tracks/{id}/>

Usage

```
get_track(  
  track_id,  
  output = c("tidy", "raw"),  
  limit = 20,  
  offset = 0,  
  token = my_token  
)
```

Arguments

track_id	Required. Get Spotify Catalog information for this track_id.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

`get_tracks`*Gets multiple tracks*

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/tracks/>

Usage

```
get_tracks(  
  track_ids,  
  output = c("tidy", "raw"),  
  limit = 20,  
  offset = 0,  
  token = my_token  
)
```

Arguments

<code>track_ids</code>	Required. Get Spotify Catalog information for these <code>track_ids</code> .
<code>output</code>	Type of output to return from the request. Default: tidy.
<code>limit</code>	Maximum number of results to return. Should be between 1 and 50. Default: 20.
<code>offset</code>	The index of the first result to return. Default: 0.
<code>token</code>	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: <code>my_token</code> .

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when `output` is set to `raw`, it returns the raw output from the request.

`get_tracks_audio_features`*Gets audio features of multiple tracks*

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/audio-features/>

Usage

```
get_tracks_audio_features(  
  track_ids,  
  output = c("tidy", "raw"),  
  limit = 20,  
  offset = 0,  
  token = my_token  
)
```

Arguments

track_ids	Required. Expects a comma-separated character string of track_ids. Get Spotify Catalog information for these track_ids.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

get_track_audio_features

Gets audio features of a single track

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/audio-features/{id}/>

Usage

```
get_track_audio_features(  
  track_id,  
  output = c("tidy", "raw"),  
  limit = 20,  
  offset = 0,  
  token = my_token  
)
```

Arguments

track_id	Required. Expects a single track_id. Get Spotify Catalog information for this track_id.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request.

search_albums	<i>Search albums based on given input</i>
---------------	---

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/search/>

Usage

```
search_albums(
  album_name,
  output = c("tidy", "raw", "id"),
  limit = 20,
  offset = 0,
  token = my_token
)
```

Arguments

album_name	Required. Get Spotify Catalog information about albums that match this input.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request, or When output is set to id, it returns only the id.

search_artists	<i>Search artists based on given input</i>
----------------	--

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/search/>

Usage

```
search_artists(  
  artist_name,  
  output = c("tidy", "raw", "id"),  
  limit = 20,  
  offset = 0,  
  token = my_token  
)
```

Arguments

artist_name	Required. Get Spotify Catalog information about artists that match this input.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request, or When output is set to id, it returns only the id.

search_tracks	<i>Search tracks based on given input</i>
---------------	---

Description

Connects with the Spotify API and returns output from the href <https://api.spotify.com/v1/search/>

Usage

```
search_tracks(  
  track_name,  
  output = c("tidy", "raw", "id"),  
  limit = 20,  
  offset = 0,  
  token = my_token  
)
```

Arguments

track_name	Required. Get Spotify Catalog information about tracks that match this input.
output	Type of output to return from the request. Default: tidy.
limit	Maximum number of results to return. Should be between 1 and 50. Default: 20.
offset	The index of the first result to return. Default: 0.0.
token	A valid access token from the Spotify Accounts service: see https://developer.spotify.com/documentation/general/guides/authorization-guide/ for details. Default: my_token.

Value

Default: returns a tidy dataframe with a selection of the response. Alternatively, when output is set to raw, it returns the raw output from the request, or When output is set to id, it returns only the id.

Index

[get_album](#), [2](#)
[get_album_tracks](#), [3](#)
[get_albums](#), [3](#)
[get_artist](#), [4](#)
[get_artist_albums](#), [6](#)
[get_artist_related_artists](#), [7](#)
[get_artist_top_tracks](#), [7](#)
[get_artists](#), [5](#)
[get_spotify_api_token](#), [8](#)
[get_track](#), [9](#)
[get_track_audio_features](#), [11](#)
[get_tracks](#), [10](#)
[get_tracks_audio_features](#), [10](#)

[search_albums](#), [12](#)
[search_artists](#), [13](#)
[search_tracks](#), [14](#)