Package ‘spotidy’

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Title Providing Convenience Functions to Connect R with the Spotify API

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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'.

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Imports magrittr, dplyr, purrr, httr

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

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R topics documented:

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### get_album

- **Description:**
  Connects with the Spotify API and returns output from the [href](https://api.spotify.com/v1/albums/{id}/)

- **Usage**

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

- **Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>album_id</td>
<td>Required. Get Spotify Catalog information for this album_id.</td>
</tr>
<tr>
<td>output</td>
<td>Type of output to return from the request. Default: tidy.</td>
</tr>
<tr>
<td>limit</td>
<td>Maximum number of results to return. Should be between 1 and 50. Default: 20</td>
</tr>
<tr>
<td>offset</td>
<td>The index of the first result to return. Default: 0.</td>
</tr>
</tbody>
</table>

- **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**  

*Gets multiple albums*

### Description

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

### Usage

```r
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.

### 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**  

*Gets tracks from an album*

### Description

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

Usage

```r
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.

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

Gets an artist

Description

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

Usage

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

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>artist_id</td>
<td>Required. Get Spotify Catalog information for this artist_id.</td>
</tr>
<tr>
<td>output</td>
<td>Type of output to return from the request. Default: tidy.</td>
</tr>
<tr>
<td>limit</td>
<td>Maximum number of results to return. Should be between 1 and 50. Default: 20.</td>
</tr>
<tr>
<td>offset</td>
<td>The index of the first result to return. Default: 0.</td>
</tr>
</tbody>
</table>

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 [https://api.spotify.com/v1/artists/](https://api.spotify.com/v1/artists/)

Usage

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

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>artist_ids</td>
<td>Required. Expects a comma-separated character string of artist_ids. Get Spotify Catalog information for these artist_ids.</td>
</tr>
<tr>
<td>output</td>
<td>Type of output to return from the request. Default: tidy.</td>
</tr>
<tr>
<td>limit</td>
<td>Maximum number of results to return. Should be between 1 and 50. Default: 20.</td>
</tr>
<tr>
<td>offset</td>
<td>The index of the first result to return. Default: 0.</td>
</tr>
</tbody>
</table>
get_artist_albums

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_albums

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.

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**

```r
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.

**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.

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.

Description

Gets a Spotify API token

Usage

get_spotify_api_token(client_id, client_secret)

Arguments

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

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

Gets a track

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.

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

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
track_ids Required. 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.

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

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

```r
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.

**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.

---

**Description**

*Gets audio features of a single track*

Connects with the Spotify API and returns output from the [https://api.spotify.com/v1/audio-features/{id}](https://api.spotify.com/v1/audio-features/{id}) endpoint.

**Usage**

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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>track_id</td>
<td>Required. Expects a single track_id. Get Spotify Catalog information for this track_id.</td>
</tr>
<tr>
<td>output</td>
<td>Type of output to return from the request. Default: tidy.</td>
</tr>
<tr>
<td>limit</td>
<td>Maximum number of results to return. Should be between 1 and 50. Default: 20.</td>
</tr>
<tr>
<td>offset</td>
<td>The index of the first result to return. Default: 0.</td>
</tr>
</tbody>
</table>

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

Search albums based on given input

Description

Connects with the Spotify API and returns output from the [https://api.spotify.com/v1/search/](https://api.spotify.com/v1/search/)

Usage

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

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>album_name</td>
<td>Required. Get Spotify Catalog information about albums that match this input.</td>
</tr>
<tr>
<td>output</td>
<td>Type of output to return from the request. Default: tidy.</td>
</tr>
<tr>
<td>limit</td>
<td>Maximum number of results to return. Should be between 1 and 50. Default: 20.</td>
</tr>
<tr>
<td>offset</td>
<td>The index of the first result to return. Default: 0.</td>
</tr>
</tbody>
</table>
search_artists

Description

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

Usage

```r
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.

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

**Search tracks based on given input**

**Description**

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

**Usage**

```r
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.

**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.
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