ytmusicapi

Release 0.5.0

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The purpose of this library is to automate interactions with YouTube Music, such as retrieving your library content or creating large playlists.

This project is not supported nor endorsed by Google

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2 Contents

CHAPTER 1

Features

- Library management: list, create, delete, and modify playlists and playlist items
- Search: Search for songs on YouTube Music
- Uploads: Upload songs, list uploaded songs and delete uploaded songs

4 Chapter 1. Features

CHAPTER 2

Usage Example

For a complete documentation of available functions, refer to the *Reference*

```
from ytmusicapi import YTMusic

ytmusic = YTMusic('headers_auth.json')
playlistId = ytmusic.create_playlist("test", "test description")
search_results = ytmusic.search("Oasis Wonderwall")
ytmusic.add_playlist_items(playlistId, [search_results[0]['videoId'])
```

CHAPTER 3

Contents

3.1 Setup

3.1.1 Installation

```
pip install ytmusicapi
```

3.1.2 Authenticated requests

To run authenticated requests you need to set up you need to copy your request headers from a POST request in your YTMusic Web Client. To do so, follow these steps:

- Open https://music.youtube.com in Firefox
- Go to the developer tools (Ctrl-Shift-I) and find an authenticated POST request. You can filter for /browse to easily find a suitable request.
- Copy the request headers (right click > copy > copy request headers)

Now call YTMusic.setup() and paste the request headers and it will create configuration file in the correct format in the current directory.

3.1.3 Manual file creation

Alternatively, you can paste the three missing items to headers_auth.json below and create your own file:

```
{
    "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:72.0) Gecko/20100101

→Firefox/72.0",
    "Accept": "*/*",
    "Accept-Language": "en-US,en;q=0.5",
```

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```
"Content-Type": "application/json",
    "X-Goog-AuthUser": "0",
    "x-origin": "https://music.youtube.com",
    "Authorization": "PASTE_AUTHORIZATION",
    "Cookie": "PASTE_COOKIE"
}
```

3.2 Usage

3.2.1 Unauthenticated

Unauthenticated requests for retrieving playlist content or searching:

```
from ytmusicapi import YTMusic
ytmusic = YTMusic()
```

If an endpoint requires authentication you will receive an error: Please provide authentication before using this function

3.2.2 Authenticated

For authenticated requests you need to set up your credentials first: Setup

After you have created the authentication JSON, you can instantiate the class:

```
from ytmusicapi import YTMusic
ytmusic = YTMusic('headers_auth.json')
```

With the ytmusic instance you can now perform authenticated requests:

```
playlistId = ytmusic.create_playlist("test", "test description")
search_results = ytmusic.search("Oasis Wonderwall")
ytmusic.add_playlist_items(playlistId, [search_results[0]['videoId'])
```

3.3 Reference

Reference for the YTMusic class.

```
class ytmusicapi.YTMusic(auth=")
```

Allows automated interactions with YouTube Music by emulating the YouTube web client's requests. Permits both authenticated and non-authenticated requests. Authentication header data must be provided on initialization.

```
YTMusic.__init__(auth=")
```

Create a new instance to interact with YouTube Music.

Parameters auth – Optional. Provide authentication credentials to manage your library. Should be an adjusted version of *headers_auth.json.example* in the project root. Default: A default header is used without authentication.

3.3.1 Setup

See also the Setup page

```
classmethod YTMusic.setup()
```

Requests browser headers from the user and stores a configuration JSON file in the correct format in the current directory

3.3.2 Search

```
YTMusic.search (query, filter=None)
```

Search YouTube music Returns up to 20 results within the provided category. By default only songs (audio-only) are returned

Parameters

- query Query string, i.e. 'Oasis Wonderwall'
- **filter** Filter for item types. Allowed values: 'songs', 'videos', 'albums', 'artists', 'playlists'. Default: Default search, including all types of items.

Returns

List of results depending on filter. resultType specifies the type of item (important for default search). albums, artists and playlists additionally contain a browseId, corresponding to albumId, channeIId and playlistId (browseId='VL'+playlistId)

Example list:

3.3.3 Library

```
YTMusic.get_liked_songs(limit=1000)
```

Gets playlist items for the 'Liked Songs' playlist

Parameters limit – How many items to return. Default: 1000

Returns List of playlistItem dictionaries. See get_playlist_items()

YTMusic.get_history()

Gets your play history in reverse chronological order

Returns List of playlistItems, see get_playlist_items() The additional property 'played' indicates when the playlistItem was played

3.3. Reference 9

```
YTMusic.rate_song(videoId, rating='INDIFFERENT')
```

Rates a song ("thumbs up"/"thumbs down" interactions on YouTube Music)

Parameters

- videoId Video id
- rating One of 'LIKE', 'DISLIKE', 'INDIFFERENT'

'INDIFFERENT' removes the previous rating and assigns no rating

3.3.4 Playlists

```
YTMusic.get_playlists()
```

Retrieves the content of the 'Library' page

Returns List of owned playlists.

Each item is in the following format:

```
{
    'playlistId': 'PLQwVIlKxHM6rz0fDJVv_0UlXGEWf-bFys',
    'title': 'Playlist title'
}
```

YTMusic.get_playlist_items(playlistId, limit=1000)

Returns a list of playlist items

Parameters

- playlistId Playlist id
- limit How many songs to return. Default: 1000

Returns List of playlistItem dictionaries

Each item is in the following format:

```
{
    'videoId': 'PLQwVIlKxHM6rz0fDJVv_0UlXGEWf-bFys',
    'artist': 'Artist',
    'title': 'Song Title',
    'setVideoId': '56B44F6D10557CC6'
}
```

The setVideoId is the unique id of this playlist item and needed for moving/removing playlist items

YTMusic.create_playlist(title, description, privacy_status='PRIVATE')

Creates a new empty playlist and returns its id.

Parameters

- title Playlist title
- description Playlist description
- privacy_status Playlists can be 'PUBLIC', 'PRIVATE', or 'UNLISTED'. Default: 'PRIVATE'

Returns ID of the YouTube playlist

YTMusic.edit_playlist (playlistId, title=None, description=None, privacyStatus=None) Edit title, description or privacyStatus of a playlist.

Parameters

- playlistId Playlist id
- title Optional. New title for the playlist
- description Optional. New description for the playlist
- privacyStatus Optional. New privacy status for the playlist

Returns Status String or full response

YTMusic.delete_playlist(playlistId)

Delete a playlist.

Parameters playlist Id - Playlist id

Returns Status String or full response

YTMusic.add_playlist_items (playlistId, videoIds)

Add songs to an existing playlist

Parameters

- playlistId Playlist id
- videoIds List of Video ids

Returns Status String or full response

YTMusic.remove_playlist_items (playlistId, videos)

Remove songs from an existing playlist

Parameters

- playlistId Playlist id
- videos List of PlaylistItems, see get_playlist_items(). Must contain videoId and setVideoId

Returns Status String or full response

3.3.5 Uploads

```
YTMusic.get_uploaded_songs(limit=25)
```

Returns a list of uploaded songs

Parameters limit – How many songs to return. Default: 25

Returns List of uploaded songs.

Each item is in the following format:

```
"entityId": "t_po_CICr2crg7OWpchDpjPjrBA",
   "videoId": "Uise6RPKoek",
   "artist": "Coldplay",
   "title": "A Sky Full Of Stars",
   "album": "Ghost Stories"
}
```

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```
YTMusic.upload_song(filepath)
```

Uploads a song to YouTube Music

Parameters filepath – Path to the music file

Returns Status String or full response

YTMusic.delete_uploaded_song(uploaded_song)

Deletes a previously uploaded song

Parameters uploaded_song - The uploaded song to delete, e.g. retrieved from get_uploaded_songs()

Returns Status String or error

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