ytmusicapi

Release 0.7.1

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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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CHAPTER 1

Features

Browsing:

- get artist information and releases (songs, videos, albums, singles)
- get albums
- search (including all filters)

Library management:

- get library contents: playlists, songs, artists, albums and subscriptions
- add/remove library content: rate songs, albums and playlists, subscribe/unsubscribe artists

Playlists:

- create, delete, and modify playlists
- get playlist contents, add/remove tracks

Uploads:

- Upload songs and remove them again
- List uploaded songs, artists and albums

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CHAPTER 2

Usage

```
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']])
```

The tests are also a great source of usage examples.

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

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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 cookie 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",
    "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']])
```

Brand accounts

To send requests as a brand account, there is no need to change authentication credentials. Simply provide the ID of the brand account when instantiating YTMusic. You can get the ID from https://myaccount.google.com/ after selecting your brand account (https://myaccount.google.com/b/21_digit_number).

Example:

```
from ytmusicapi import YTMusic
ytmusic = YTMusic('headers_auth.json', 101234161234936123473)
```

3.3 Reference

Reference for the YTMusic class.

```
class ytmusicapi.YTMusic (auth: str = None, user: str = None)
```

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: str = None, user: str = None)
```

Create a new instance to interact with YouTube Music.

Parameters

- auth Optional. Provide a string or path to file. Authentication credentials are needed to manage your library. Should be an adjusted version of headers_auth.json.example in the project root. See setup () for how to fill in the correct credentials. Default: A default header is used without authentication.
- user Optional. Specify a user ID string to use in requests. This is needed if you want to send requests on behalf of a brand account. Otherwise the default account is used. You can retrieve the user ID by going to https://myaccount.google.com and selecting your brand account. The user ID will be in the URL: https://myaccount.google.com/b/user_id/

3.3.1 Setup

See also the *Setup* page

```
classmethod YTMusic.setup(filepath: str = None)
```

Requests browser headers from the user via command line and returns a string that can be passed to YTMusic()

Parameters filepath – Optional filepath to store headers to.

Returns configuration headers string

3.3.2 Search

```
YTMusic.search (query: str, filter: str = None) \rightarrow List[Dict[KT, VT]]
      Search YouTube music Returns up to 20 results within the provided category.
```

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, channelId and playlistId (browseId='VL'+playlistId)

Example list:

```
[
   "videoId": "ZrOKjDZOtkA",
   "title": "Wonderwall (Remastered)",
    "artists": [
        "name": "Oasis",
        "id": "UCmMUZbaYdNH0bEd1PAlAqsA"
```

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```
}
],
"album": {
    "name": "(What's The Story) Morning Glory? (Remastered)",
    "id": "MPREb_9nqEki4ZDpp"
},
    "duration": "4:19",
    "resultType": "song"
}
]
```

3.3.3 Browsing

```
\texttt{YTMusic.get\_artist} \ (\textit{channelId: str}) \ \rightarrow Dict[KT, VT]
```

Get information about an artist and their top releases (songs, albums, singles and videos). The top lists contain pointers for getting the full list of releases. For songs/videos, pass the browseId to $get_playlist()$. For albums/singles, pass browseId and params to $get_artist_albums()$.

Parameters channel Id - channel id of the artist

Returns

Dictionary with requested information.

Example:

```
"name": "Oasis",
   "description": "Oasis were ...",
   "views": "1,838,795,605",
   "songs": {
       "browseId": "VLPLMpM3Z0118S42R1npOhcjoakLIv1agnS1",
       "results": [
            {
                "videoId": "ZrOKjDZOtkA",
                "title": "Wonderwall (Remastered)",
                "artist": "Oasis",
                "album": "(What's The Story) Morning Glory?
→ (Remastered) "
       ]
   },
   "albums": {
       "results": [
                "title": "Familiar To Millions",
                "year": "2018",
                "browseId": "MPREb_AYetWMZunqA"
       ],
       "browseId": "UCmMUZbaYdNH0bEd1PAlAqsA",
       "params": "6qPTAUNwc0JDbndLY1FBQV..."
   },
   "singles": {
        "results": [
            {
```

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```
"title": "Stand By Me (Mustique Demo)",
                "year": "2016",
                "browseId": "MPREb_7MPKLhibN5G"
        ],
        "browseId": "UCmMUZbaYdNH0bEd1PAlAqsA",
        "params": "6qPTAUNwc0JDbndLY1FBQV..."
   },
    "videos": {
        "results": [
                "title": "Wonderwall",
                "views": "358M",
                "videoId": "bx1Bh8ZvH84",
                "playlistId": "PLMpM3Z0118S5xuNckw1HUcj1D021AnMEB"
       ],
        "browseId": "VLPLMpM3Z0118S5xuNckw1HUcj1D021AnMEB"
}
```

YTMusic.get_artist_albums (channelId: str, params: str) \rightarrow List[Dict[KT, VT]] Get the full list of an artist's albums or singles

Parameters

- channelId channel Id of the artist
- params params obtained by get_artist()

Returns

List of albums or singles

Example:

```
{
   "browseId": "MPREb_OrtvKhqeCYO",
   "artist": "Armin van Buuren",
   "title": "This I Vow (feat. Mila Josef)",
   "type": "EP",
   "year": "2020"
}
```

 $YTMusic.get_album(browseld: str) \rightarrow Dict[KT, VT]$

Get information and tracks of an album

Parameters browseId - browseId of the album, for example returned by search ()

Returns

Dictionary with title, description, artist and tracks.

Each track is in the following format:

```
{
  "index": "1",
  "title": "WIEE (feat. Mesto)",
  "artists": "Martin Garrix",
  "videoId": "8xMNeXI9wxI",
  (continues on next page)
```

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```
"lengthMs": "203406"
}
```

3.3.4 Library

 $\texttt{YTMusic.get_library_playlists} (\textit{limit: int} = 25) \rightarrow List[Dict[KT, VT]]$

Retrieves the playlists in the user's library.

Parameters limit – Number of playlists to retrieve

Returns List of owned playlists.

Each item is in the following format:

```
{
    'playlistId': 'PLQwVIlKxHM6rz0fDJVv_OUlXGEWf-bFys',
    'title': 'Playlist title',
    'count': 5
}
```

```
\texttt{YTMusic.get\_library\_songs} (\textit{limit: int} = 25) \rightarrow List[Dict[KT, VT]]
```

Gets the songs in the user's library (liked videos are not included). To get liked songs and videos, use $get_liked_songs()$

Parameters limit – Number of songs to retrieve

Returns List of songs. . Same format as get_playlist()

YTMusic.get_library_artists (limit: int = 25) \rightarrow List[Dict[KT, VT]] Gets the artists of the songs in the user's library.

Parameters limit – Number of artists to return

Returns List of artists.

Each item is in the following format:

```
{
  "browseId": "UCxEqaQWosMHaTih-tgzDqug",
  "artist": "WildVibes",
  "subscribers": "2.91K"
}
```

YTMusic.get_library_albums (limit: int = 25) \rightarrow List[Dict[KT, VT]]

Gets the albums in the user's library.

Parameters limit – Number of albums to return

Returns List of albums

YTMusic.get_liked_songs (limit: int = 100) \rightarrow Dict[KT, VT] Gets playlist items for the 'Liked Songs' playlist

Parameters limit – How many items to return. Default: 100

Returns List of playlistItem dictionaries. See get_playlist()

YTMusic.get_history() \rightarrow List[Dict[KT, VT]]

Gets your play history in reverse chronological order

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

YTMusic.rate_song (videoId: str, rating: str = 'INDIFFERENT') \rightarrow Dict[KT, VT] 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

Returns Full response

YTMusic.rate_playlist (playlistId: str, rating: str = 'INDIFFERENT') → Dict[KT, VT]

Rates a playlist/album ("Add to library"/"Remove from library" interactions on YouTube Music) You can also dislike a playlist/album, which has an effect on your recommendations

Parameters

- playlistId Playlist id
- rating One of 'LIKE', 'DISLIKE', 'INDIFFERENT'

'INDIFFERENT' removes the playlist/album from the library

Returns Full response

YTMusic.subscribe_artists (channellds: List[str]) \rightarrow Dict[KT, VT] Subscribe to artists. Adds the artists to your library

Parameters channel Ids - Artist channel ids

Returns Full response

YTMusic.unsubscribe_artists (channelIds: List[str]) \rightarrow Dict[KT, VT] Unsubscribe from artists. Removes the artists from your library

Parameters channel Ids - Artist channel ids

Returns Full response

3.3.5 Playlists

YTMusic.get_playlist (playlistId: str, limit: int = 100) \rightarrow Dict[KT, VT] Returns a list of playlist items

Parameters

- playlistId Playlist id
- limit How many songs to return. Default: 100

Returns List of playlistItem dictionaries

Each item is in the following format:

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```
"id": "PLQwVIlKxHM6qv-o99iX9R85og7IzF9YS_",
 "privacy": "PUBLIC",
 "title": "New EDM This Week 03/13/2020",
 "description": "Weekly r/EDM new release roundup. Created with github.com/
⇒sigma67/spotifyplaylist_to_gmusic",
 "author": "sigmatics",
 "year": "2020",
 "duration": "6+ hours",
 "trackCount": 237,
 "tracks": [
     "videoId": "bjGppZKiuFE",
     "title": "Lost",
     "artists": [
       {
         "name": "Guest Who",
         "id": "UCkgCRdnnqWnUeIH7EIc3dBg"
        },
         "name": "Kate Wild",
         "id": "UCwR213JfJbvB6aq0RnnJfWg"
       }
     ],
     "album": {
       "name": "Lost",
       "id": "MPREb_PxmzvDuqOnC"
     },
     "duration": "2:58"
   }
 ]
```

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

YTMusic.create_playlist (title: str, description: str, privacy_status: str = 'PRIVATE', video_ids: List[T] = None, source_playlist: str = None) \rightarrow Union[str, Dict[KT, VT]] 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'
- video_ids IDs of songs to create the playlist with
- source_playlist Another playlist whose songs should be added to the new playlist

Returns ID of the YouTube playlist or full response if there was an error

```
YTMusic.edit_playlist(playlistld: str, title: str = None, description: str = None, privacyStatus: str = None, moveItem: Tuple[str, str] = None, addPlaylistId: str = None) <math>\rightarrow Union[str, Dict[KT, VT]]
```

Edit title, description or privacyStatus of a playlist. You may also move an item within a playlist or append another playlist to this 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
- moveItem Optional. Move one item before another. Items are specified by setVideoId, see get_playlist()
- addPlaylistId Optional. Id of another playlist to add to this playlist

Returns Status String or full response

Parameters playlistId - Playlist id

Returns Status String or full response

 $\begin{tabular}{ll} \tt YTMusic.add_playlist_items (\it playlistId: str, videoIds: List[str]) \to Union[str, Dict[KT, VT]] \\ Add songs to an existing playlist \\ \end{tabular}$

Parameters

- playlistId Playlist id
- videoIds List of Video ids

Returns Status String or full response

 $\begin{tabular}{ll} \tt YTMusic.remove_playlist_items (playlistId: str, videos: List[Dict[KT, VT]]) \to Union[str, Dict[KT, VT]] \\ \tt VT]] \end{tabular}$

Remove songs from an existing playlist

Parameters

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

Returns Status String or full response

3.3.6 Uploads

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

Returns List of uploaded songs.

Each item is in the following format:

```
{
  "entityId": "t_po_CICr2crg70WpchDpjPjrBA",
  "videoId": "Uise6RPKoek",
  "artist": "Coldplay",
  "title": "A Sky Full Of Stars",
  "album": "Ghost Stories"
}
```

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Returns Status String or error

16

```
YTMusic.get_library_upload_artists(limit: int = 25) → List[Dict[KT, VT]]
     Gets the artists of uploaded songs in the user's library.
          Parameters limit -
     :returns List of artists as returned by get_library_artists()
YTMusic.get_library_upload_albums(limit: int = 25) \rightarrow List[Dict[KT, VT]]
     Gets the albums of uploaded songs in the user's library.
          Parameters limit – Number of albums to return
     :returns List of albums as returned by get_library_albums()
YTMusic.upload_song (filepath: str) \rightarrow Union[str, requests.models.Response]
     Uploads a song to YouTube Music
          Parameters filepath – Path to the music file (mp3, m4a, wma, flac or ogg)
          Returns Status String or full response
YTMusic.delete_uploaded_song (uploaded\_song: Dict[KT, VT]) \rightarrow Union[str, Dict[KT, VT]]
     Deletes a previously uploaded song
          Parameters uploaded_song - The uploaded song to delete, e.g.
                                                                                      retrieved from
              get_library_upload_songs()
```

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