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# **pytuber Documentation**

***Release 22.5***

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**pytuber is a cli tool to manage your music playlists on youtube.**

- Generate playlists from [Last.fm](#) or
- Import from file formats: XSPF, JSPF, M3U
- Create with a simple copy paste in a text editor
- Search and match tracks to Youtube videos
- Sync pytuber playlists (fetch/push)
- Update youtube playlist items (add/remove)
- Keep track of youtube api quota usage

[Check Documentation](#) | [Changelog](#)



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**CHAPTER  
ONE**

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## **INSTALL & SETUP**

```
$ pip install pytuber
$ pytuber setup autocomplete # Enable autocomplete
```

Read how to setup youtube authentication

Start creating youtube playlists



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CHAPTER  
TWO

---

## YOUTUBE API QUOTA

Youtube api has a daily api quota limit which resets at midnight Pacific Time (PT).

pytuber includes a quota calculator

```
$ pytuber quota
```

Additionally to the api quota limit Youtube limits the amount of how many playlists you can create per day to only **10**.

**In case you reach that number, you can push a new playlist manually.**

- Create a playlist with *pytuber add* command
- View the playlist by using this command *pytuber show xxxx -mime*
- This mime string is base64 signature used by pytuber internally to link local to youtube playlists
- Add a youtube playlists manually from the web site and add the mime signature at the bottom of the playlist description
- Fetch the new playlist info *pytuber fetch youtube -playlists*

Afterwards you will be able to push tracks like normally.



## HOW TO USE

### 3.1 Reference

#### 3.1.1 Overview

This information was generated by running `pytuber --help` from the command line.

```
Usage: pytuber [OPTIONS] COMMAND [ARGS]...

Create and upload music playlists to youtube.

Options:
  --version  Show the version and exit.
  --help      Show this message and exit.

Commands:
  add        Add playlist.
  clean      Cleanup orphan tracks and empty playlists.
  fetch      Retrieve playlist or track info.
  list       List playlists.
  push       Update playlists and tracks.
  quota      Show current youtube calculated quota usage.
  remove    Delete one or more playlists by id.
  setup      Configure api keys and credentials.
  show       Show a playlist track list.
```

#### 3.1.2 setup

This information was generated by running `pytuber setup --help` from the command line.

```
Usage: pytuber setup [OPTIONS] COMMAND [ARGS]...

Configure api keys and credentials.

Options:
  --help  Show this message and exit.

Commands:
  autocomplete  Enable the command auto completion.
```

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lastfm	Configure your last.fm api account.
youtube	Configure your youtube api credentials.

### 3.1.3 add editor

This information was generated by running `pytuber add editor --help` from the command line.

```
Usage: pytuber add editor [OPTIONS]

Create playlist in a text editor.

Options:
  --title TEXT  title
  --help        Show this message and exit.
```

---

#### Notes

- Add one line per track, make sure it doesn't start with a number sign #
  - Separate the track artist and title with a single dash -
- 

### 3.1.4 add file

This information was generated by running `pytuber add file --help` from the command line.

```
Usage: pytuber add file [OPTIONS] FILE

Import a playlist from a text file.

Options:
  --format [txt|m3u|xspf|jspf]
  --title TEXT          title
  --help                Show this message and exit.
```

---

#### Format: txt

- Add one line per track, make sure it doesn't start with a number sign #
- Separate the track artist and title with a single dash -

```
Queen - Bohemian rhapsody
Queen - I want to break free
```

---

---

#### Format: m3u

The parser looks for `#EXTINF` directives with track information of the extended m3u.

```
#EXTINF:123, Queen - Bohemian Rhapsody
#EXTINF:123,Queen - I want to break free
```

**Format: xspf**

XML Shareable Playlist supported track tag structure

```
<?xml version="1.0" encoding="UTF-8"?>
<playlist version="1" xmlns="http://xspf.org/ns/0/">
    <trackList>
        <track>
            <creator>Queen</creator>
            <title>Bohemian Rhapsody</title>
        </track>
        <track>
            <creator>Queen</creator>
            <title>I want to break free</title>
        </track>
    </trackList>
</playlist>
```

**Format: jspf**

JSON Shareable Playlist supported track tag structure

```
{
    "playlist": {
        "track": [
            {
                "title": "Bohemian Rhapsody",
                "creator": "Queen"
            },
            {
                "title": "I want to break free",
                "creator": "Queen"
            }
        ]
    }
}
```

### 3.1.5 add lastfm

This information was generated by running `pytuber add lastfm --help` from the command line.

```
Usage: pytuber add lastfm [OPTIONS] COMMAND [ARGS]...
```

Create playlists from Last.fm api.

Options:

`--help` Show this message and exit.

Commands:

<code>artist-playlist</code>	Add a top tracks playlist by artist.
<code>chart-playlist</code>	Add a top tracks playlist.
<code>country-playlist</code>	Add a top tracks playlist by country.
<code>tag-playlist</code>	Add a top tracks playlist by tag.
<code>user-playlist</code>	Add a user type playlist.

### 3.1.6 fetch youtube

This information was generated by running `pytuber fetch youtube --help` from the command line.

```
Usage: pytuber fetch youtube [OPTIONS]
```

Fetch youtube online playlist and tracks data.

Options:

<code>--all</code>	Perform all tasks
<code>--playlists</code>	Create new playlists
<code>--tracks</code>	Update playlist items
<code>--help</code>	Show this message and exit.

### 3.1.7 fetch lastfm

This information was generated by running `pytuber fetch lastfm --help` from the command line.

```
Usage: pytuber fetch lastfm [OPTIONS]
```

Fetch tracks and tags information from last.fm.

Options:

<code>--tracks</code>	Update the playlist tracks
<code>--tags</code>	Show the most popular tags
<code>--help</code>	Show this message and exit.

### 3.1.8 push youtube

This information was generated by running `pytuber push youtube --help` from the command line.

```
Usage: pytuber push youtube [OPTIONS]
```

Update youtube playlists and tracks.

Options:

- all Perform all tasks
- playlists Create new playlists
- tracks Update playlist items
- help Show this message and exit.

### 3.1.9 list

This information was generated by running `pytuber list --help` from the command line.

```
Usage: pytuber list [OPTIONS]
```

List playlists.

Options:

- provider PROVIDER
- help Show this message and exit.

Listing 1: Sample output

ID	Title	Provider	Youtube	Tracks
34a94a5	My loved tracks	last.fm	✓	116
396b617	Japan Top10	last.fm	✓	10
2e58dd7	ff	user	-	1
357ec36	foo	user	-	62

### 3.1.10 show

This information was generated by running `pytuber show --help` from the command line.

```
Usage: pytuber show [OPTIONS] ID
```

Show a playlist track list.

Options:

- mime How to push the playlist manually
- help Show this message and exit.

Listing 2: Sample output

ID:	34a94a5
Provider:	last.fm

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Title:	My loved tracks	
Type:	user_loved_tracks	
Arguments:	username: Zaratoustre, limit: 200	
Synced:	-	
Uploaded:	-	
Youtube:	<a href="https://www.youtube.com/playlist?list=PLpxCdqvY6hBHW0FUzUbKm4X89U6LSrXID">https://www.youtube.com/playlist?list=PLpxCdqvY6hBHW0FUzUbKm4X89U6LSrXID</a>	
Tracks:		
No	Artist	Track Name
	Youtube	
0	Nathaniel Rateliff & The Night Sweats Music Video	I Need Never Get Old (Official Video)
1	Lordi	Hard Rock Hallelujah
2	Placebo	The Bitter End
3	KALEO	Way Down We Go (Official Video)
4		
5	Iron Maiden	The Trooper
6	Kansas	Carry On Wayward Son (Audio)
7	Beatles	Let It Be [1970]
8	Chris Stapleton	Tennessee Whiskey (Audio)
9	Jefferson Airplane	Somebody to love
10	Dream On	Aerosmith

### 3.1.11 remove

This information was generated by running `pytuber remove --help` from the command line.

Usage: `pytuber remove [OPTIONS] IDS...`

Delete one or more playlists by id.

Options:

`--help` Show this message and exit.

### 3.1.12 clean

This information was generated by running `pytuber clean --help` from the command line.

```
Usage: pytuber clean [OPTIONS]
      Cleanup orphan tracks and empty playlists.

Options:
      --help Show this message and exit.
```

### 3.1.13 quota

This information was generated by running `pytuber quota --help` from the command line.

```
Usage: pytuber quota [OPTIONS]
      Show current youtube calculated quota usage.

Options:
      --help Show this message and exit.
```

Listing 3: Sample output

```
Provider: youtube
Limit: 1000000
Usage: 6203
Next reset: 1:38:26
```

## 3.2 Credentials

### 3.2.1 Youtube:

#### Enable APIs for your project

Any application that calls Google APIs needs to enable those APIs in the API Console. To enable the appropriate APIs for your project:

1. Open the [Library page](#) in the API Console.
2. Select the project associated with your application. Create a project if you do not have one already.
3. Use the [Library page](#) to find each API that your application will use. Click on each API and enable it for your project.

#### Create authorization credentials

Any application that uses OAuth 2.0 to access Google APIs must have authorization credentials that identify the application to Google's OAuth 2.0 server. The following steps explain how to create credentials for your project. Your applications can then use the credentials to access APIs that you have enabled for that project.

1. Open the [Credentials page](#). in the API Console.
2. Click Create credentials > OAuth client ID.

3. Complete the form. Set the application type to **Desktop APP**.

### Credentials

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The screenshot shows the 'Credentials' section of the pytuber documentation. At the top, there are three tabs: 'Credentials' (which is selected), 'OAuth consent screen', and 'Domain verification'. Below the tabs is a button labeled 'Create credentials' with a dropdown arrow and a 'Delete' button. A note below the buttons says 'Create credentials to access your enabled APIs. For more information, see the [authentication documentation](#)'. Under the heading 'OAuth 2.0 client IDs', there is a table with one row. The columns are 'Name' (checkbox), 'Creation date' (Jan 6, 2019), 'Type' (Other), and 'Client ID' (foobar). To the right of the Client ID column are icons for edit, delete, and download.

Name	Creation date	Type	Client ID
pytubefm	Jan 6, 2019	Other	foobar

Download your `client_secret.json` and assuming the file is on your user downloads directory run and follow the on screen instructions

```
$ pytuber setup youtube ~/Downloads/client_secret_foobar.json
```

## 3.2.2 Last.fm

Apply for a last.fm api key write down your key **key** and run from terminal

```
$ pytuber setup lastfm --api-key abcdefghijklmnop
```

## 3.3 Changelog

### 3.3.1 22.5 (May 8, 2022)

- Fixed google auth flow #32.

### 3.3.2 20.1 (Jan 13, 2019)

- Create application directory before use #25.

### 3.3.3 19.2 (Feb 17, 2019)

- Add clean command to remove orphan tracks and playlists.
- Import playlists from files: m3u, xspf, jspf text.
- Create playlist with a text editor.
- Update demo.gif.
- Add youtube api quota calculator.
- Add version option in cli and storage.

### 3.3.4 19.1 (Jan 27, 2019)

- First Release



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**CHAPTER  
FOUR**

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**INDICES AND TABLES**

- genindex
- modindex
- search