

Djinn

Soulseek + MusicBrainz.

2023-05-29

Djinn downloads albums from Soulseek using metadata from MusicBrainz and Last.fm.

Features

- Uses TagLib, eyeD3, and metaflac to tag MP3 and FLAC files.
- Automatically downloads cover art from MusicBrainz and Last.fm.
- Configurable directory and file names.

Usage

```
$ djinn download --help
```

Description:

Download one or more releases

Usage:

```
  djinn download [options]
```

Options:

<code>--release-id <release-id></code>	Release ID
<code>--release-title <release-title></code>	Release title
<code>--artist-id <artist-id></code>	Artist ID
<code>--artist-name <artist-name></code>	Artist name
<code>--replace</code>	Replace existing album(s)
<code>--file-types <file-types></code>	File types to download [default: .flac .mp3]
<code>--verbose</code>	Verbose output
<code>--no-progress</code>	Disable realtime download progress
<code>--year <year></code>	Release year
<code>--strip-existing-metadata</code>	Strip existing metadata from downloaded files [default: True]
<code>-, -h, --help</code>	Show help and usage information

```
$ djinn upgrade --help
```

Description:

Scan library and replace mp3 albums with flac versions

Usage:

```
  djinn upgrade [options]
```

Options:

<code>--randomize</code>	Randomize download order
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`--verbose` Verbose output
`-?, -h, --help` Show help and usage information

Examples

Download a single release by ID:

```
$ djinn download --release-id "1b022e8e-4da6-4f9a-8f3d-3d3f2f0f3b6f"
```

Download a single release by title:

Download an artist's discography by ID:

```
$ djinn download --artist-id "1b022e8e-4da6-4f9a-8f3d-3d3f2f0f3b6f"
```

Download an artist's discography by name:

Download a single release, limiting downloads to .mp3 files, and replacing existing files:

```
$ djinn download --release-title "Cryptic Writings" --file-types .mp3 --replace
```

Scan your music library for albums in mp3 format and attempt to download replacements in flac format:

```
$ djinn upgrade
```

Music Library Organization

Djinn assumes that your music library follows a simple Artist / Album / Track hierarchy.

You should set the `LibraryPath`, `ArtistFormat`, `AlbumFormat`, and `TrackFormat` strings in your configuration file to correspond with the way you organize your music.

For example, given this configuration:

```
"LibraryPath":  "/home/kyle/Music",  
"ArtistFormat": "%S",  
"AlbumFormat":  "%Y %T",  
"TrackFormat":  "%n %t"
```

Djinn would expect your music to be organized as e.g.:

```
/home/kyle/Music/Beatles, The/1969 Abbey Road/01 Come Together.flac
```

Configuration

Djinn loads its configuration from `DJINN_CONFIG` or, if that isn't set, from `~/.config/djinn/djinn.json`.

Configuration File Example

Here is an example of what the configuration file might look like:

```
{
  "LibraryPath": "/home/kyle/Music",

  "LastFmApiKey": "XXX",
  "LastFmApiSecret": "XXX",

  "SoulseekUsername": "XXX",
  "SoulseekPassword": "XXX",

  "ArtistFormat": "%S",
  "AlbumFormat": "%Y %T",
  "TrackFormat": "%n %t",

  "Watchdog": {
    "TimeoutMinutes": 30,
    "DelaySeconds": 10,
    "MinimumSpeedBytes": 50000,
    "QueuedRemotely": false
  }
}
```

Format Tokens

The configuration includes format tokens that define how artist, album, and track information should be displayed. The available tokens are as follows:

Artist Format Tokens

Token	Description	Example
%A	Artist Name	The Beatles
%S	Artist Sort Name	Beatles, The
%%	Literal '%' character	%

Album Format Tokens

All artist tokens, plus:

Token	Description	Example
%T	Album Title	Yesterday
%Y	Album Year	1965

Track Format Tokens

All artist and album tokens, plus:

Token	Description	Example
%t	Track Title	Yesterday
%n	Track Number (formatted as two digits)	01
%N	Total number of tracks in the album	14

Watchdog

TODO

Viewing Configuration with `djinn config`

You can view the path of the loaded config file and the parsed values by running:

```
$ djinn config
```

```
Configuration loaded from /home/kyle/.config/djinn/djinn.json
Library path:           /home/kyle/Music
Last.fm API key:       XXX
Last.fm API secret: XXX
Soulseek username:    XXX
Soulseek password:    XXX
...
```

Source

The source code for Djinn is available on GitHub.

License

Djinn uses the Zero-Clause BSD license.