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# Unify your local music library

*[WORKSHOP] Introducing MusicBrainz,  
Picard, and ultimate music categorization*

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# MusicBrainz: Wat?

- Open source music metadata encyclopedia (est. 2000)
    - Creative Commons
  - Store, categorize, sort (all languages and scripts)
  - Used by...
    - **Developers:** Build cool music apps!
    - **Commercial users:** Update local music databases with live updates from MusicBrainz (Spotify, Amazon, Google, Last.fm, etc.)
    - **Users (that's us!):** Tagging your own music
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# Metadata matters

## Visibility

- Find your music!

## Record keeping

- Write music history!

## Research

- Discover music science!
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# Is MusicBrainz really that big?

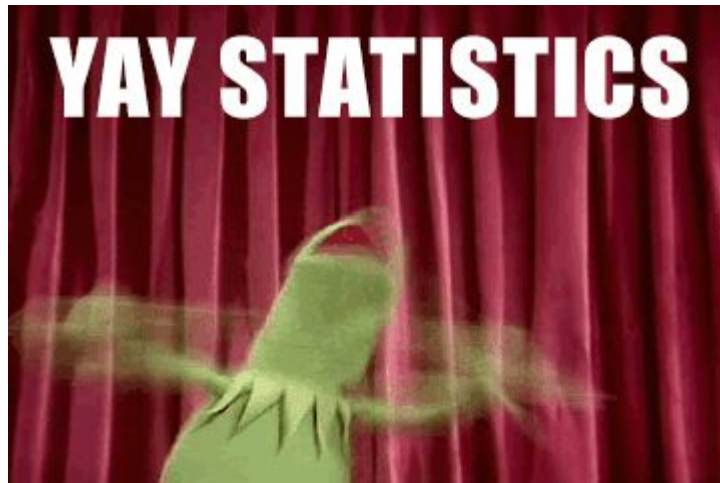
Let's look at [some numbers](#)...

- **Artists:** 1,207,893
  - **Releases:** 1,796,160
  - **Recordings:** 17,348,005
  - **Artist locations:**
    - **Countries:** 259
    - **Cities:** 74,199
    - **Islands:** 97
  - **Editor accounts:** 1,822,133 registered (1,268 active last week)
-

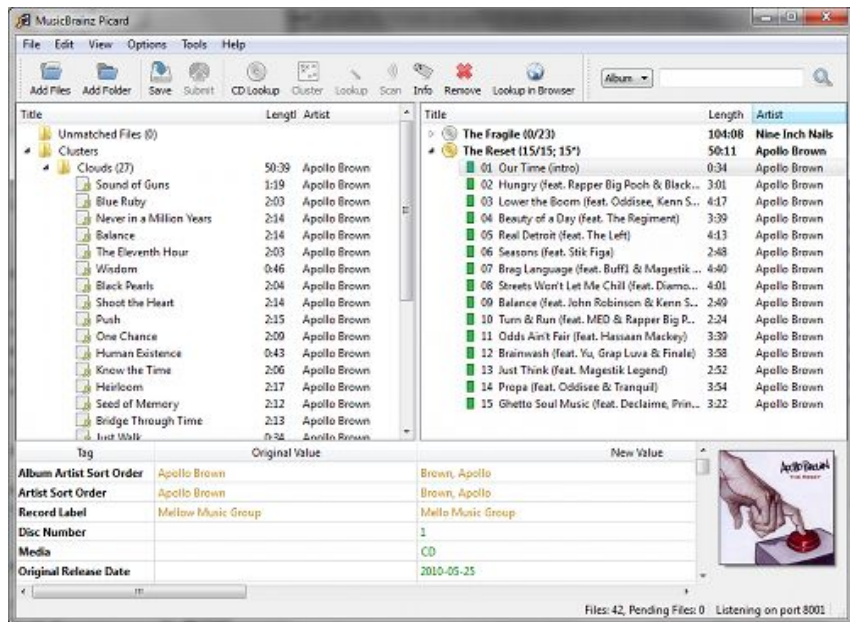
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## But what about my *audio dramas*?

Yes, you can have your audio dramas, all 257 of them.



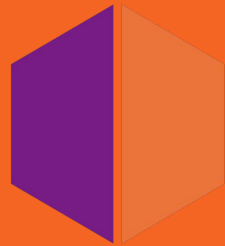
# Introducing...



- Tool to sort, scan, and correct metadata for you
  - References MusicBrainz database
- Puts the right metadata in the right place
  - Album name, artist name, album artwork, release year...
  - Helpful for music tracking services (e.g. Last.fm / Libre.fm)
  - Helpful for cloud music players (upload and forget)
- Available for Windows, macOS, Linux

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# Installing and using



# Picard

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# Available for... almost everything

[picard.musicbrainz.org](http://picard.musicbrainz.org)

- **Windows / macOS:** Installers available
- **Linux:**

- *Ubuntu:*

- ```
sudo add-apt-repository ppa:musicbrainz-developers/stable
```

```
sudo apt-get update
```

- *Fedora:*

- ```
sudo dnf install picard chromaprint-tools
```

- [Why do I need chromaprint-tools?](#)

- *Arch Linux, Debian, Gentoo, OpenSUSE, and others* ([see the docs](#))



MusicBrainz Picard

File Edit View Options Tools Help

Add Folder Add Files Play file Save Submit Lookup CD Cluster Lookup Scan Info Remove Lookup in Browser Album

Automatically look up metadata from existing metadata

Scan file to get audio fingerprint to look up metadata

Manually look up the metadata on musicbrainz.org


Title	Length	Artist
Unmatched Files (113)		
Clusters (150)		
The Empties (13)	46:03	The Empties
Inception (OST) (12)	49:21	Hans Zimmer
Party Starter: 80s Mix (7)	27:43	Billy Idol
The Peach EP (5)	17:38	Louis La Roche
18 (18)	71:25	Moby
Boston (2)	9:49	Boston
United (10)	37:53	Phoenix
Wolfgang Amadeus Phoenix (10)	36:27	Phoenix
Three Dog Night: The Complete Hit Singles (2)	6:28	Three Dog Night
Give Up (10)	44:57	The Postal Service
Give Up (Deluxe 10th Anniversary Edition) (26)	106:...	The Postal Service
In Rainbows (10)	42:39	Radiohead
The Bends (12)	48:40	Radiohead
Hail To The Thief (27)	108:...	Radiohead

Title	Length	Artist
Transitions (7/7; 0 images)	36:...	El Ten Eleven
Yellow Bridges (single) (3/3; 1 image)	15:...	El Ten Eleven
Point Breeze (single) (1/1; 1 image)	3:22	El Ten Eleven
Idea 40 (1/1; 0 images)	4:12	El Ten Eleven
Fast Forward (9/9; 1 image)	36:...	El Ten Eleven
El Ten Eleven (9/9; 0 images)	35:...	El Ten Eleven
These Promises Are Being Videotaped (...)	27:...	El Ten Eleven
Mixtape 001 (9/9; 1 image)	39:...	El Ten Eleven
It's Still Like a Secret (12/12; 0 images)	41:...	El Ten Eleven
Bulletproof (Shadow the Machine Ang...	4:17	Shadow the Machine Angel
Baby (Shadow the Machine Angel Remi...	4:07	Shadow the Machine Angel
MidNIGHT SuN (10/10; 1 image)	37:...	Shadow the Machine Angel
Hurry Up, We're Dreaming (22/22; 1 im...	73:...	M83
1-01 Intro	5:23	M83
1-02 Midnight City	4:04	M83
1-03 Reunion	3:55	M83

Tag	Original Value	New Value
Title	Midnight City	Midnight City
Artist	M83	M83
Album	Hurry Up, We're Dreaming	Hurry Up, We're Dreaming
Track Number	2	2
Length	4:04	4:04
Date	2011-10-18	2011-10-18
AcoustID	4dfd11f7-5361-4607-9d8e-d764af87efa9	4dfd11f7-5361-4607-9d8e-d764af87efa9
Album Artist	M83	M83
Album Artist Sort Order	M02	M02

/home/jflory/Music/Google Play/M83/Hurry Up, We're Dreaming/1-02 Midnight City.m4a (100%)

2172 44 0 0 Listening on port 8001



## Exploring the MusicBrainz Picard interface

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# Conceptual demo

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Tag	Original Value	New Value
Title	(different across 8 items)	(different across 8 items)
Artist	Hiatus	Hiatus
Album	Music for a Film	Music for a Film
Track Number	(different across 8 items)	(different across 8 items)
Length	(different across 8 items)	(different across 8 items)
Date	2010-12-25	2010-12-25
AcoustID	(different across 8 items)	(different across 8 items)
Album Artist	Hiatus	Hiatus
Album Artist Sort Order	Hiatus	Hiatus



(1) *Hey, look, this album doesn't have album artwork, but I have it on my computer.*

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put -... Databa... Axhend... Present... MusicB... Downlo... MusicB... FAQ - ... Music |... Hiatus ... Hiatus ... Rele... x

https://beta.musicbrainz.org/release/1eda6f2e-c454-45ae-886c-ef6cca5558b9

MusicBrainz

jflory7 My Data

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Music for a Film

~ Release by Hiatus (see all versions of this release, 1 available)

Overview Disc IDs Cover Art Aliases Tags Details Edit

Tracklist

Display Credits at Bottom

#	Title	Rating	Length
1	Ruins	★★★★★	1:22
2	Dawn	★★★★★	3:40
3	Shelter	★★★★★	1:48
4	Gulf	★★★★★	1:58
5	Veiled	★★★★★	1:23
6	Kite	★★★★★	2:30
7	Contrail	★★★★★	1:23
8	Foreigner	★★★★★	2:50

Credits

Release

download for free: <http://hiatusmusic.bandcamp.com/album/free-download-music-for-a-film> [info]

No cover art available.

Release information

Format: Digital Media

Length: 16:54

Additional details

Type: EP + Soundtrack

Packaging: None

Status: Promotion

Language: English

Script: Latin

Data Quality: Normal

Labels

[no label]

Release events

[Worldwide]

2010-12-25

Release group rating

★★★★★

Tags

(none)

External links

Bandcamp

Editing

Edit relationships

Change release quality


(2) Looks like there's no artwork added to this release... let's fix that!

### Add Cover Art

Select images...

or drop files here

File: cover.jpg (1.9 MB)



↕

Type: ☒ Front ☐ Back ☐ Booklet ☐ Medium ☐ Obi  
☐ Spine ☐ Track ☐ Other ☐ Tray ☐ Sticker  
☐ Poster ☐ Liner ☐ Watermark

Remove

Please see the [Cover Art Types](#) documentation for a description of these types.

Comment:

**Position:** (no other cover art)

### Edit Note

Entering an [edit note](#) that describes where you got your information is highly recommended. Not only does it make it clear where you got your information, but it can also encourage other users to vote on your edit — thus making your edit get applied faster.

Even just providing a URL or two is helpful!

Edit note: 

Included with official download from the artist's [Bandcamp](https://hiatusmusic.bandcamp.com/album/free-download-music-for-a-film) release. <https://hiatusmusic.bandcamp.com/album/free-download-music-for-a-film>

☐ Make all edits votable.

Enter edit

*(3) Adding the front cover of the album artwork to the album (and cite the source!)*

Browser tabs: jaba..., Axhenda..., Present..., MusicB..., Downlo..., MusicB..., FAQ - ..., FREE D..., Hiatus ..., Hiatus ..., Rele..., Open E...

Address bar: <https://beta.musicbrainz.org/release/1eda6f2e-c454-45ae-886c-ef6cca5558b9/cover-art>

Search bar: Search

Navigation: About Us, Products, Search, Editing, Documentation


Language: English

### Music for a Film

~ Release by Hiatus (see all versions of this release, 1 available)

Overview | Disc IDs | **Cover Art** | Aliases | Tags | Details | Edit

#### Cover Art



Types: Front

All sizes: 250px | 500px | original

Edit Remove

These images provided by the [Cover Art Archive](#). You can also see them at the [Internet Archive](#).

Add Cover Art

#### Release information

Format: Digital Media

#### Additional details

Type: EP + Soundtrack  
Packaging: None  
Status: Promotion  
Language: English  
Script: Latin  
Data Quality: Normal

#### Labels

[no label]

#### Release events

[Worldwide]  
2010-12-25

#### Release group rating

★★★★★

(4) Awesome, we did it! Album artwork is open to review for seven days before approval.

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Tag	Original Value	New Value
Title	<i>(different across 8 items)</i>	<i>(different across 8 items)</i>
Artist	Hiatus	Hiatus
Album	Music for a Film	Music for a Film
Track Number	<i>(different across 8 items)</i>	<i>(different across 8 items)</i>
Length	<i>(different across 8 items)</i>	<i>(different across 8 items)</i>
Date	2010-12-25	2010-12-25
AcoustID	<i>(different across 8 items)</i>	<i>(different across 8 items)</i>
Album Artist	Hiatus	Hiatus
Album Artist Sort Order	Hiatus	Hiatus



(5) *Guess who's album artwork is in their music player now?*

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# Hands-on demo!

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## Two different scenarios...

*I know what I downloaded, but the music metadata could be improved or be more accurate. Now what?*

*I have literally no idea what this MP3 is or where it came from, but it's catchy and I want to know more about it. Halp?*

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# Open floor!

## Comments?

## Questions? Ideas?

Find these slides  
and more at:

[git.io/vSU2d](https://git.io/vSU2d)