# 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

#### **Metadata matters**

Visibility

Find your music!

**Record keeping** 

Write music history!

Research

Discover music science!



## Is MusicBrainz really that big?

Let's look at some numbers...

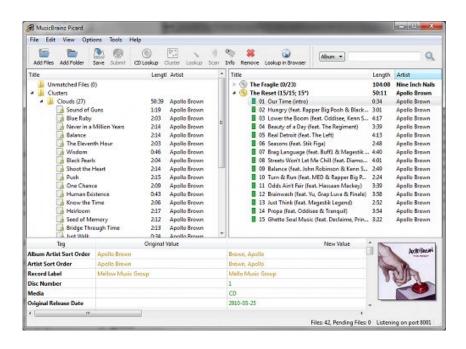
- **Artists**: 1,189,376
- Releases: 1,769,002
- Recordings: 17,152,131
- Artist locations:
  - o Countries: 259
  - o Cities: 74,087
  - o Islands: 96
- Editor accounts: 1,781,906 registered (1,329 active last week)

## But what about my audio dramas?

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



# Introducing... Picard



- 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

# Installing and using Picard

### Available for... almost everything

#### picard.musicbrainz.org

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

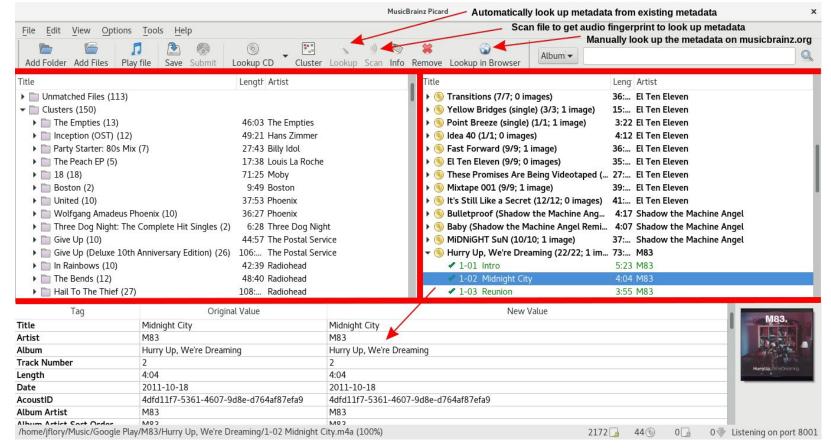
sudo add-apt-repository ppa:musicbrainz-developers/stable sudo apt-get update

Fedora:

sudo dnf install picard chromaprint-tools

Why do I need chromaprint-tools?

Arch Linux, Debian, Gentoo, OpenSUSE, and others (<u>see the docs</u>)

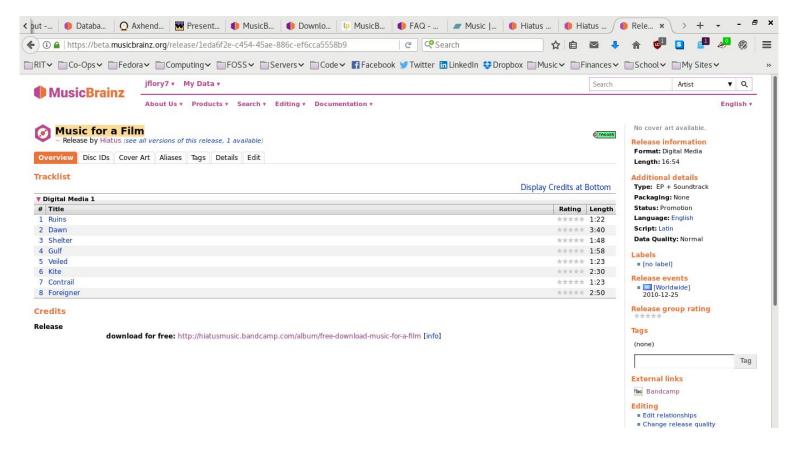


Exploring the MusicBrainz Picard interface

# Conceptual demo

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 Cart Order	Lintuc	Lintus	

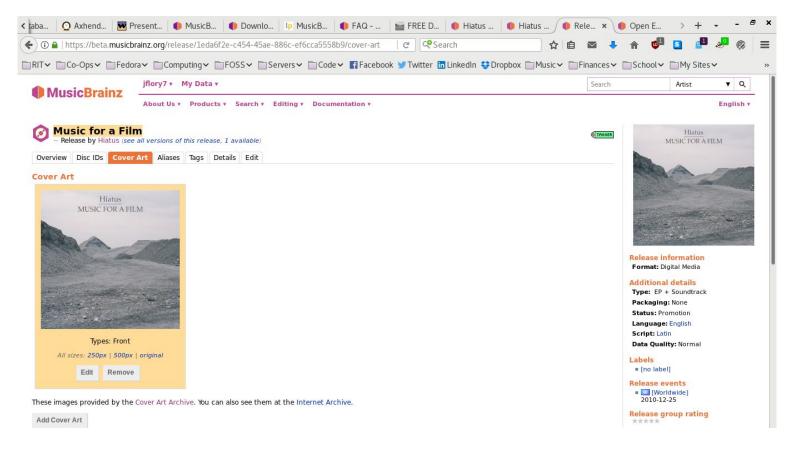
(1) Hey, look, this album doesn't have album artwork, but I have it on my computer.



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

Overview	Disc IDs	Cover Art	Aliases	Tags	Details	Edit							
Add Cove	er Art	Sele	ct images			rop file:							
Hiana MUSIC FOR	A FILM	<b>†</b>		File Type	cover.	jpg (1.9 ront	9 MB)	☐ Booklet	☐ Medium	Obi			
100	-					pine oster	Track	Other Waterm	☐ Tray ark	Sticker			Remove
			Co	omment		see th	e Cover Art Typ	oes documentat	ion for a descript	tion of these ty	/pes.		
	Position	ı: (no ot	her cover a	rt)									
Edit Not	e												
Entering also enco	an edit note urage other	that des	cribes wher vote on you	e you g ır edit —	ot your in thus ma	nformat aking y	tion is highly re our edit get ap	ecommended. N plied faster.	lot only does it m	nake it clear w	here you got	your informatio	n, but it can
Even just	providing a	URL or tv	vo is helpfu	d!									
	Edit not		ded with of download-n			rom the	e artist's <u>Bandc</u>	amp release. ht	tps://hiatusmusi	c.bandcamp.c	om/album		
		Ма	ike all edits	votable									
		Ente	r edit										

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



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

Tag	Original Value	New Value	Hatus MUSIC FOR A FILM
Title	(different across 8 items)	(different across 8 items)	SUSK FOR A FILM
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 Cart Order	Histor	Listus	

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



# Hands-on demo!

#### 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?

# Find these slide: and more at:

# Open floor!

# Comments? Questions? Ideas?

## By the way...

Looking for a summer internship?

MetaBrainz, the project behind MusicBrainz and plenty of other music-related projects, is participating in Google Summer of Code!

If working on open source music projects over the summer and getting paid sounds interesting, check out their slots!

musicbrainz.org/doc/Development/ Summer of Code/2017