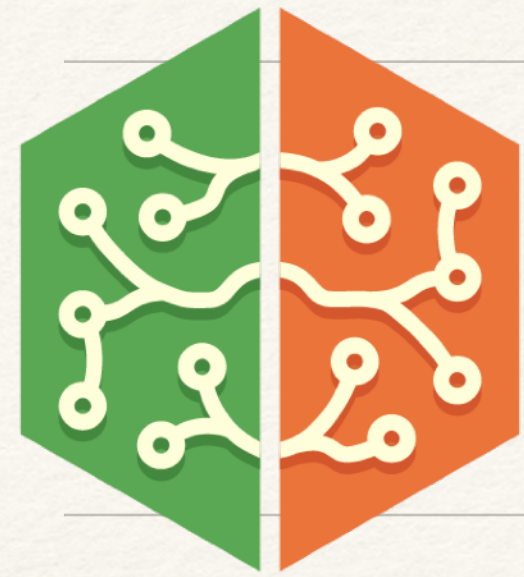

MetaBrainz Database Schemas

Alastair Porter (MetaBrainz, MTG-UPF)
LinkedMusic Project Meeting
21 October 2023

MetaBrainz projects



MusicBrainz



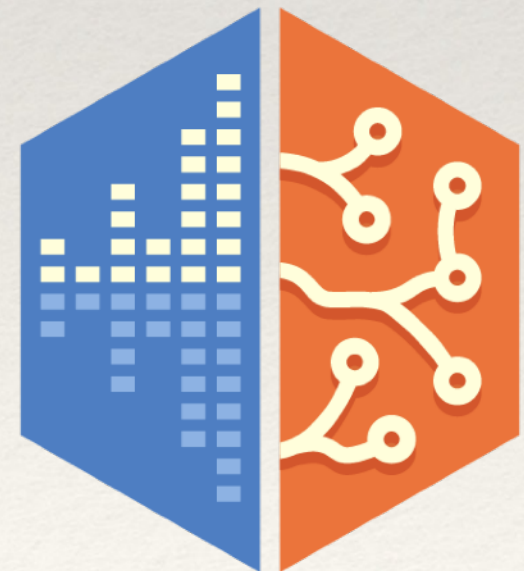
Cover Art Archive



CritiqueBrainz



ListenBrainz



AcousticBrainz



BookBrainz

MusicBrainz



<https://musicbrainz.org>

- ❖ Open database of (recorded) music metadata
- ❖ Run by the MetaBrainz Foundation (California non-profit)
- ❖ 12 Paid developers/team members
- ❖ Community of 20,000+ active volunteers who add data
- ❖ Foundation funded by licensing fees for access to the MusicBrainz database

MusicBrainz Log In Create Account

Search Artist

English

A Night at the Opera

~ Release by Queen (see all versions of this release, 63 available)

Overview Disc IDs Cover Art (7) Aliases Tags Details Edit Edit Relationships

Annotation

No Synthesisers!

Recorded at Sarm, Roundhouse, Olympic, Rockfield, Scorpio and Lansdowne
Mixed at Sarm Studios

Manufactured by EMI Bovema-Holland (p)1975

Show more...

Annotation last modified on 2021-04-24 23:00 UTC.

Tracklist

Display Credits at Bottom

#	Title	Rating	Length
A1	Death on Two Legs (Dedicated To...)	★★★★★	3:35
A2	Lazing on a Sunday Afternoon	★★★★★	1:05

additional sound engineer: Gary Lyons (UK engineer & producer)
additional engineer: Kris Fredriksson
executive engineer: Mike Stone (producer, engineer, UK, 60's-80's)
executive producer: Brian May (Queen guitarist) and Roger Taylor (Queen drummer)
producer: Roy Thomas Baker (producer) and Queen (UK rock group)
bass guitar: John Deacon
drums (drum set): Roger Taylor (Queen drummer)
guitar: Brian May (Queen guitarist)
piano and lead vocals: Freddie Mercury
background vocals: Brian May (Queen guitarist), Freddie Mercury and Roger Taylor (Queen drummer)
phonographic copyright (©) by: Queen Productions Ltd. (company and copyright holder, do not use as an imprint or release label) (in 1975, in 2011)
mixed at: Sarm East Studios in Whitechapel, Tower Hamlets, London (Greater London, which includes the City of London), England, United Kingdom and SARM Studios in London (Greater London, which includes the City of London), England, United Kingdom
recording of: Death on Two Legs (Dedicated to...)
lyricist and composer: Freddie Mercury
publisher: EMI Music (do not use as release label! this is a music publisher), EMI Music Publishing Ltd. and Queen Music Ltd.

additional sound engineer: Gary Lyons (UK engineer & producer)
additional engineer: Kris Fredriksson
executive engineer: Mike Stone (producer, engineer, UK, 60's-80's)
executive producer: Brian May (Queen guitarist) and Roger Taylor (Queen drummer)
producer: Roy Thomas Baker (producer) and Queen (UK rock group)
bass guitar: John Deacon
drums (drum set): Roger Taylor (Queen drummer)
guitar: Brian May (Queen guitarist)
piano, background vocals and lead vocals: Freddie Mercury
phonographic copyright (©) by: Queen Productions Ltd. (company and copyright holder, do not use as an imprint or release label) (in 2011)
mixed at: Sarm East Studios in Whitechapel, Tower Hamlets, London (Greater London, which includes the City of London), England, United Kingdom

Release information
Format: Vinyl
Length: 39:59

Additional details
Type: Album
Status: Official
Language: English
Script: Latin
Data Quality: Normal

Labels
EMI
5C 062-97176

Release events
Netherlands
1975-11-21

Release group rating
★★★★★ (see all ratings)

Release group reviews
There's 1 review on CritiqueBrainz. You can also write your own.

Genres
(none)

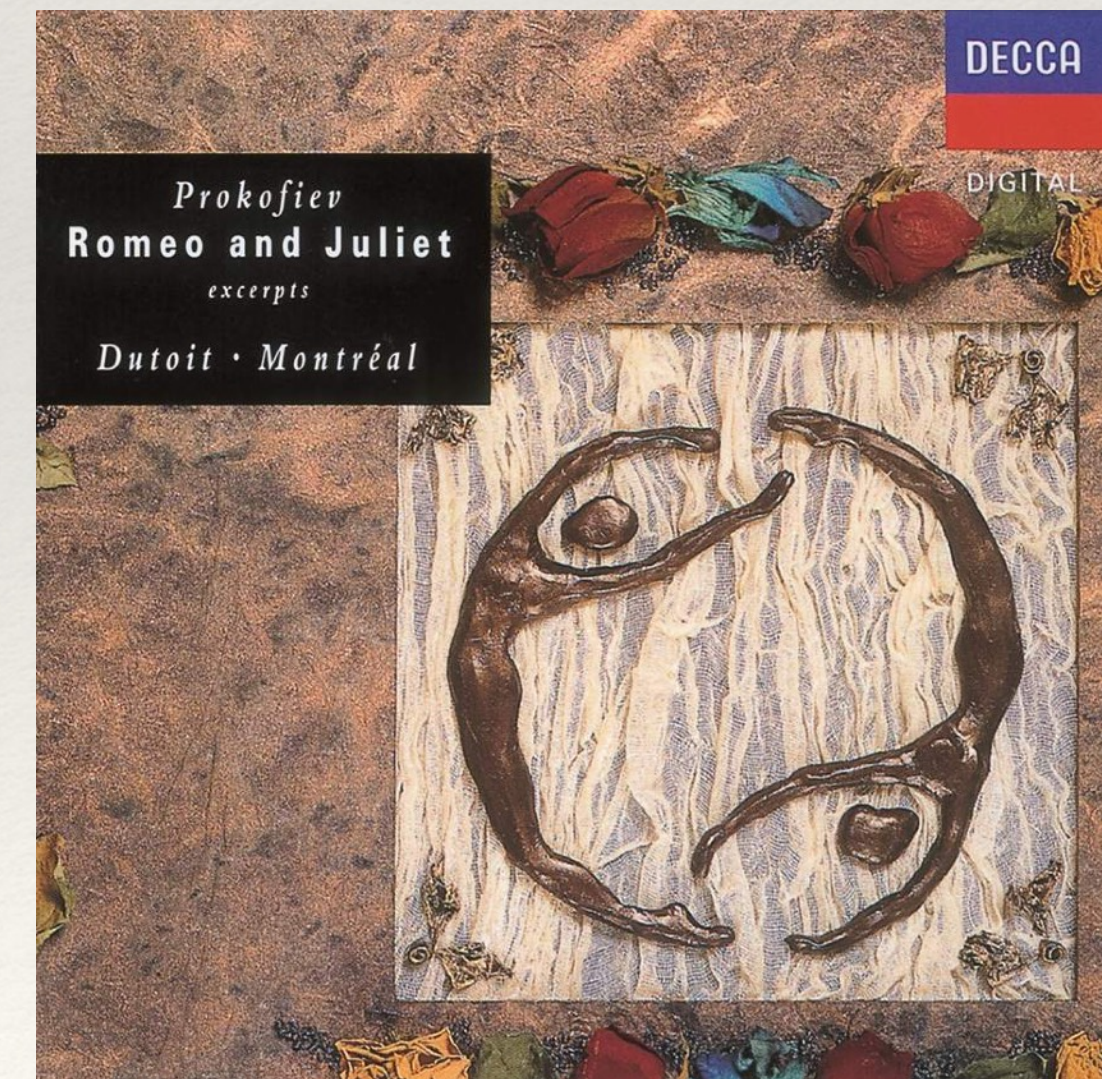
Other tags
(none)
See all tags

External links
Discogs

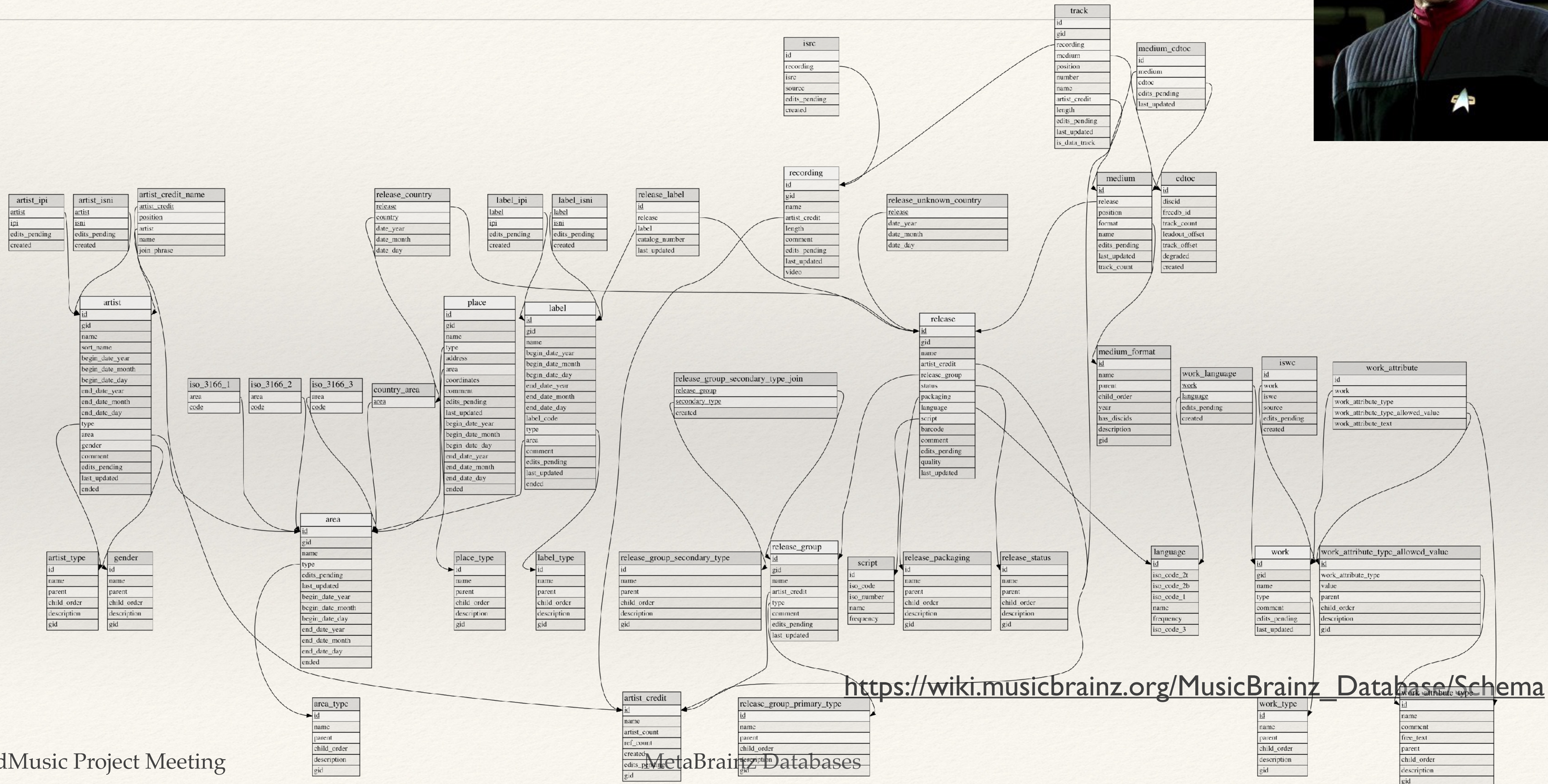
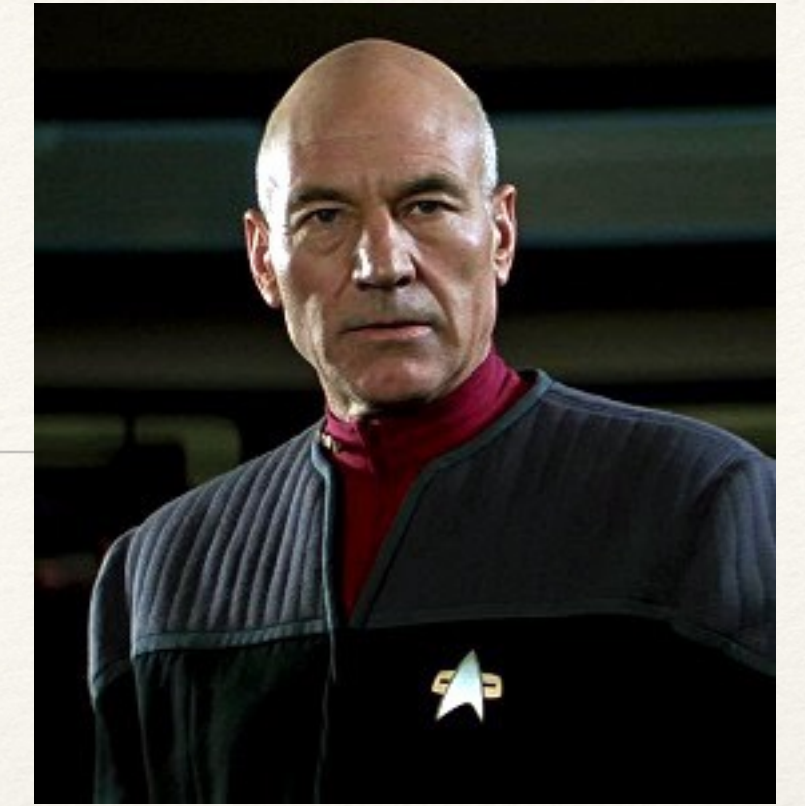
Release group external links
AllMusic

Original schema

- ❖ Originally a copy of the CDDDB structure: Artist, Album, Track
- ❖ The same recording on different albums is in the database twice
- ❖ Multi-CD albums get entered as different albums
- ❖ The "Classical Music Problem"



The Next Generation Schema

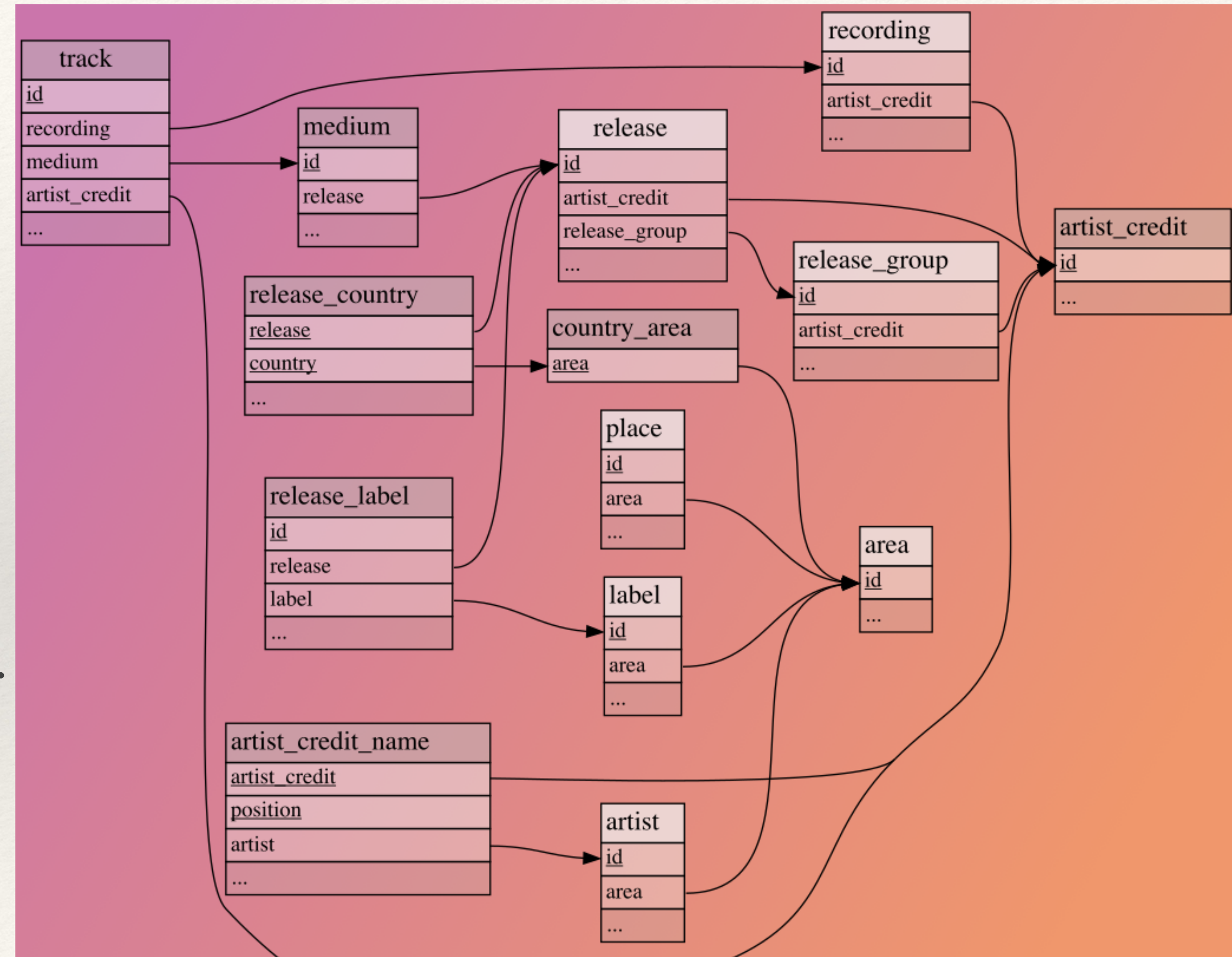


Schema

- ❖ https://wiki.musicbrainz.org/MusicBrainz_Database/Schema
- ❖ The schema was built from scratch (2011)
 - ❖ Solve a specific problem that we had
 - ❖ Not specifically based on an existing data schema (FRBR, Schema.org, MO, MARC)
 - ❖ We saw that we implemented many features of existing metadata schemas
 - ❖ Periodic updates to add new features (up to 2 releases per year, usually fewer)
- ❖ All items in the database have a MusicBrainz ID (Random UUID) for public identification
 - ❖ In our experience, every time we thought that this wasn't necessary, we eventually realised that it would be useful

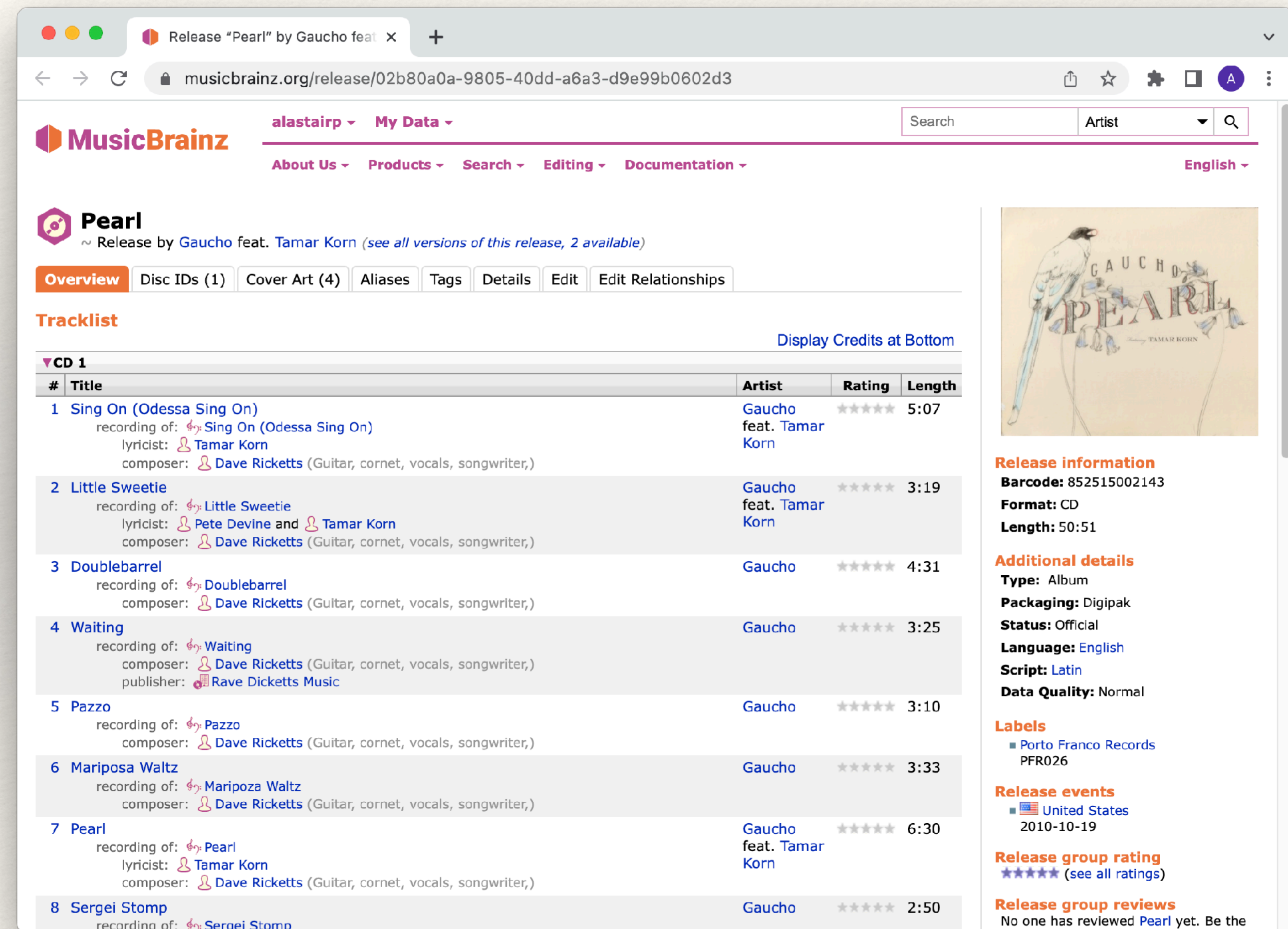
Core entities

- ❖ **Release Group**: contains multiple variants of the same **release** (vinyl, cassette, CD, reissue, country variants)
- ❖ A release can have 1 or more mediums (CD1, CD2, CD3...)
- ❖ **Recordings** can be shared between multiple releases. Link between medium-track-recording. Tracks are unique, but recordings may not be
- ❖ **Artist** credits explain who performed



Artist credits

- ❖ https://wiki.musicbrainz.org/Artist_Credits
- ❖ Who is the release attributed to?
- ❖ Recordings can optionally have another artist credit (otherwise it is shared with the release)
- ❖ Credits can include additional text (join phrase)
- ❖ The name of the artist in the credit can be different to the artist's original name



Release "Pearl" by Gaucho feat. Tamar Korn

musicbrainz.org/release/02b80a0a-9805-40dd-a6a3-d9e99b0602d3

MusicBrainz alastairp My Data

Search Artist

About Us Products Search Editing Documentation English

Pearl
~ Release by Gaucho feat. Tamar Korn (see all versions of this release, 2 available)

Overview Disc IDs (1) Cover Art (4) Aliases Tags Details Edit Edit Relationships

Tracklist Display Credits at Bottom

#	Title	Artist	Rating	Length
1	Sing On (Odessa Sing On) recording of: Sing On (Odessa Sing On) lyricist: Tamar Korn composer: Dave Ricketts (Guitar, cornet, vocals, songwriter,)	Gaucho feat. Tamar Korn	★★★★★	5:07
2	Little Sweetie recording of: Little Sweetie lyricist: Pete Devine and Tamar Korn composer: Dave Ricketts (Guitar, cornet, vocals, songwriter,)	Gaucho feat. Tamar Korn	★★★★★	3:19
3	Doublebarrel recording of: Doublebarrel composer: Dave Ricketts (Guitar, cornet, vocals, songwriter,)	Gaucho	★★★★★	4:31
4	Waiting recording of: Waiting composer: Dave Ricketts (Guitar, cornet, vocals, songwriter,) publisher: Rave Dicketts Music	Gaucho	★★★★★	3:25
5	Pazzo recording of: Pazzo composer: Dave Ricketts (Guitar, cornet, vocals, songwriter,)	Gaucho	★★★★★	3:10
6	Mariposa Waltz recording of: Mariposa Waltz composer: Dave Ricketts (Guitar, cornet, vocals, songwriter,)	Gaucho	★★★★★	3:33
7	Pearl recording of: Pearl lyricist: Tamar Korn composer: Dave Ricketts (Guitar, cornet, vocals, songwriter,)	Gaucho feat. Tamar Korn	★★★★★	6:30
8	Sergei Stomp recording of: Sergei Stomp	Gaucho	★★★★★	2:50

Release information
Barcode: 852515002143
Format: CD
Length: 50:51

Additional details
Type: Album
Packaging: Digipak
Status: Official
Language: English
Script: Latin
Data Quality: Normal

Labels
Porto Franco Records
PFR026

Release events
United States
2010-10-19

Release group rating
★★★★★ (see all ratings)

Release group reviews
No one has reviewed Pearl yet. Be the first to review this release.

Other entities

- ❖ Not an exhaustive list, but these items have a MusicBrainz ID
- ❖ https://musicbrainz.org/doc/MusicBrainz_Entity
- ❖ Area (geographical)
- ❖ Place (Studio, Stadium)
- ❖ Event (Concert, Festival)
- ❖ Artists (Person or Group)
- ❖ Release ("Album")
- ❖ Release Group (Collection of releases)
- ❖ Recording
- ❖ Series
- ❖ Work ("Composition", but also movement, symphony)
- ❖ Genre
- ❖ Instrument

Instruments

<https://musicbrainz.org/instruments>

The screenshot shows the MusicBrainz Instrument List page. The browser address bar displays `musicbrainz.org/instruments`. The page features a search bar and navigation links. The main content is titled "Instrument List" and includes a sub-section for "Wind instrument". A list of instruments is provided, each with a brief description and a link to its page. The list includes:

- **accordina** (harmonica/accordion hybrid) — Harmonica/Accordion hybrid where the bellows for the accordion bit with buttons/keys receive air though the user blowing into the instrument like an harmonica
- **accordion** (Commonly used bellowed free reed with keys/buttons) — Invented and developed by several people in the early 1800's, it has an arm operated bellows with keys or buttons at one end and bass buttons at the other.
- **algozey** — The algozey is a wooden, beaked double-flute traditionally played by goat herders in the Punjab region of India and Pakistan.
- **alphorn** — The alphorn, or alpine horn, is a conical wood horn used for communication in mountains.
- **alto clarinet** — The alto clarinet is a clarinet in E♭ or sometimes F, normally with a curved neck.
- **alto flute** — The alto flute is a concert flute in G, lower in tone than the flûte d'amour.
- **alto saxophone** (Middle member of the saxophone family) — The most common member of the saxophone family, it is the alto member.
- **Anglo concertina** (Historical hybrid between English and German style concertinas) — Bisonoric and button layout like the German, reeds and hexagonal ends like the english, this concertina was created to rival the popular German variant imported into England.
- **antara** (Andean single row panpipe) — Used in traditional Andes music, it consists of a single row of pipes.
- **arghul** — The arghul is a traditional Egyptian double-pipe, single-reed woodwind instrument.
- **bagpipe** — The bagpipe is an instrument consisting of a series of enclosed reeds fed by a bag of air.
- **bandoneón** — Invented and used in 1800's Europe, it became popular in Argentina. Unlike concertinas it is square, but alike its button action is parallel, typically it has several reeds per button.
- **bansuri** — The bansuri is a transverse alto flute, which is the North Indian counterpart to the venu.
- **baritone horn** — The baritone horn is a piston valve brass instrument with a wide-rimmed cup mouthpiece which is pitched in B♭, one octave below the B♭ trumpet.
- **baritone saxophone** (Middle-Low member of the saxophone family) — The most common of the lower members of the saxophone family, it is the middle-low baritone.
- **baroque rackett** (Conical bored compact double reed) — Improved by Johann Christoph Denner sometime around 1730, its "coiled snake" bore now is conical, in addition it is played through a removable metal curled mouth piece.
- **baroque trumpet** (20th century reinvented natural trumpet) — Based on the natural trumpet used in the 1500s to 1700s, this mid 20th century reinvention lacks valves but may have vents.
- **barrel organ** — A barrel organ is a mechanical musical instrument typically operated by a person turning a crank which turns a barrel which has music encoded onto it.
- **bass clarinet** — The bass clarinet is a clarinet, typically pitched an octave below the soprano B♭ clarinet.
- **bass flute** — The bass flute is a flute, pitched one octave below the C concert flute, with a tube about 1.5 meters long.
- **bass harmonica** — The bass harmonica is a type of octave harmonica where the lowest note (E) is the same as that on a bass guitar.
- **bass oboe** — The bass oboe is a double reed woodwind instrument which is about twice the size of a regular oboe.
- **bass recorder**
- **bass saxophone** (Second lowest member of the saxophone family) — Second largest and lowest member of the saxophone family. It is similar to the baritone, but larger and with a longer loop near the mouthpiece.
- **bass trombone**
- **bass trumpet** — The bass trumpet is a type of low trumpet similar to the valve trombone.
- **basset clarinet**
- **basset horn**
- **bassoon**
- **bawu** — The bawu is a Chinese wind instrument. Although shaped like a flute, it is actually a free reed instrument, with a single metal reed. It

The screenshot shows the MusicBrainz page for the instrument "melodica". The browser address bar displays `musicbrainz.org/instrument/8ab40df2-106b-4b9b-a50c-0798ee95da8f`. The page features a search bar and navigation links. The main content is titled "melodica" and includes a sub-section for "Wind instrument". The page includes a description, a Wikipedia link, and a list of relationships.

melodica (Free-reed keyboard mouth-organ)
~ Wind instrument

Overview Artists Releases Recordings Aliases Tags Details

Description

Popular as a musical education tool, it is usually made of plastic with a keyboard, its free-reed mouthpiece can also have an optional air tube. It has many brandnames.

Wikipedia

The **melodica** is a handheld free-reed instrument similar to a pump organ or harmonica. It features a musical keyboard on top, and is played by blowing air through a mouthpiece that fits into a hole in the side of the instrument. The keyboard usually covers two or three octaves. Melodicas are small, lightweight, and portable, and many are designed for children to play. They are popular in music education programs, especially in Asia. The modern form of the instrument was invented by Hohner in the late 1950s, though similar instruments have been known in Italy since the 19th century.

[Continue reading at Wikipedia...](#) Wikipedia content provided under the terms of the [Creative Commons BY-SA license](#)

Relationships

- type of:** [mouth organ](#)
- derivations:** [vibrandoneon](#) (accordina with piano keys)
- related instruments:** [claviola](#) (free reed aerophone with pitching pipes.)
- has hybrids:** [accordina](#) (harmonica/accordion hybrid)
- picture:** <https://staticbrainz.org/irrombook/melodica/melodica.png> [info]
- Wikidata:** [Q512191](https://saisaibatake.ame-zaiku.com/gakki/gakki_jiten_pianica.html) [info]
- other databases:** https://saisaibatake.ame-zaiku.com/gakki/gakki_jiten_pianica.html [info]

Instrument information
Type: Wind instrument

Genres
(none)

Other tags

free reed	+	-	1
keyboard	+	-	1
wind	+	-	1
woodwind	+	-	1

Tag

External links

- [IROMBOOK 私家版楽器事典](#)
- [Wikidata: Q512191](#)

Editing

- [Open edits](#)
- [Editing history](#)

Collections

My collections

- [Add to a collection of instruments](#)
- [Add to a new collection](#)

Other collections

- [Found in 1 user collection](#)

Last updated on 2018-08-29 18:26 GMT+2

Aliases

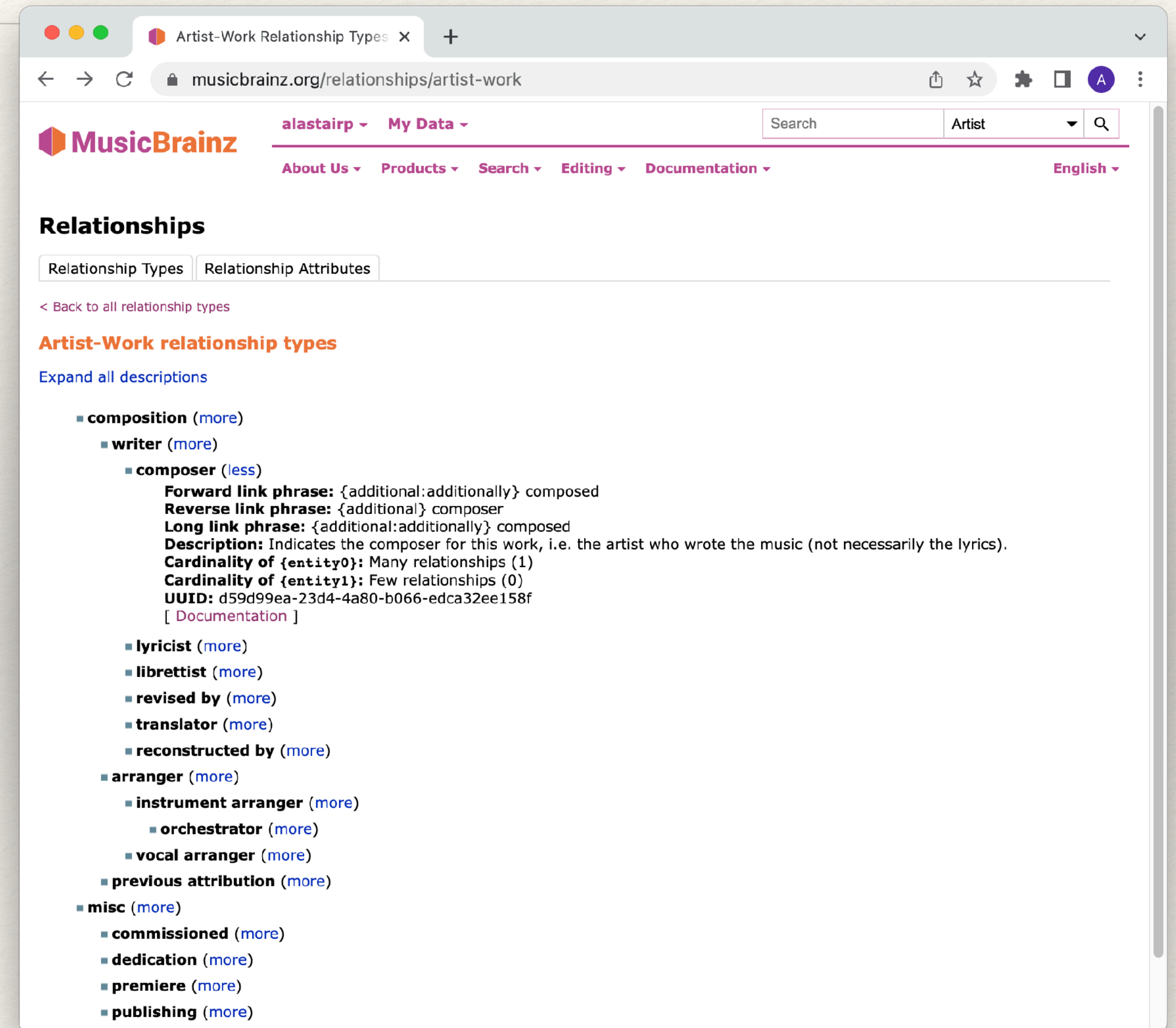
- ❖ Alternate names for entities
- ❖ Most entity types can have an alias
- ❖ Per-language variations
 - ❖ <https://musicbrainz.org/artist/9ddd7abc-9e1b-471d-8031-583bc6bc8be9>
- ❖ Name: Пётр Ильич Чайковский
- ❖ "English Primary Alias": Pyotr Ilyich Tchaikovsky
- ❖ "Search hints" (common misspellings)

The screenshot shows the MusicBrainz website interface for the instrument 'melodica'. The page title is 'melodica (Free-reed keyboard mouth-organ) ~ Wind instrument'. The 'Aliases' tab is selected, displaying a table of alternate names for the instrument across various languages and locales. The table includes columns for Alias, Sort name, Begin Date, End Date, Type, and Locale. The table lists 14 different aliases, including 'miludika', 'almayludika', 'melòdica', 'Melodica', 'μελόντικα', 'melodica', 'blonklavaro', 'melódica', 'meloodika', 'melodiko', 'ملودیکا', 'melodika', 'mélodica', 'melodica', and 'מלודיקה'. To the right of the table, there is a section for 'Instrument information' showing the type as 'Wind instrument', 'Genres' as '(none)', and 'Other tags' including 'free reed', 'keyboard', 'wind', and 'woodwind'. There are also sections for 'External links', 'Editing', and 'Collections'.

Alias	Sort name	Begin Date	End Date	Type	Locale
ملودیکا	miludika			Instrument name	Arabic (primary)
الميلودিকা	almayludika			Instrument name	Arabic
melòdica				Instrument name	Catalan (primary)
Melodica				Instrument name	German (primary)
μελόντικα	melóntika			Instrument name	Greek (primary)
melodica				Instrument name	English (primary)
blonklavaro				Instrument name	Esperanto (primary)
melódica				Instrument name	Spanish (primary)
meloodika				Instrument name	Estonian (primary)
melodiko				Instrument name	Basque (primary)
ملودیکا	mlwdakea			Instrument name	Persian (primary)
melodika				Instrument name	Finnish (primary)
mélodica				Instrument name	French (primary)
melodica				Instrument name	Irish (primary)
מלודיקה	mlwdyqh			Instrument name	Hebrew (primary)

Attributes

- ❖ <https://musicbrainz.org/relationships>
- ❖ Used to create links between entities in the database
 - ❖ Artist - composed - a work
 - ❖ Person - published - a work
 - ❖ Person - performed [instrument] - on a recording
 - ❖ Recording - was recorded [on date] - at place



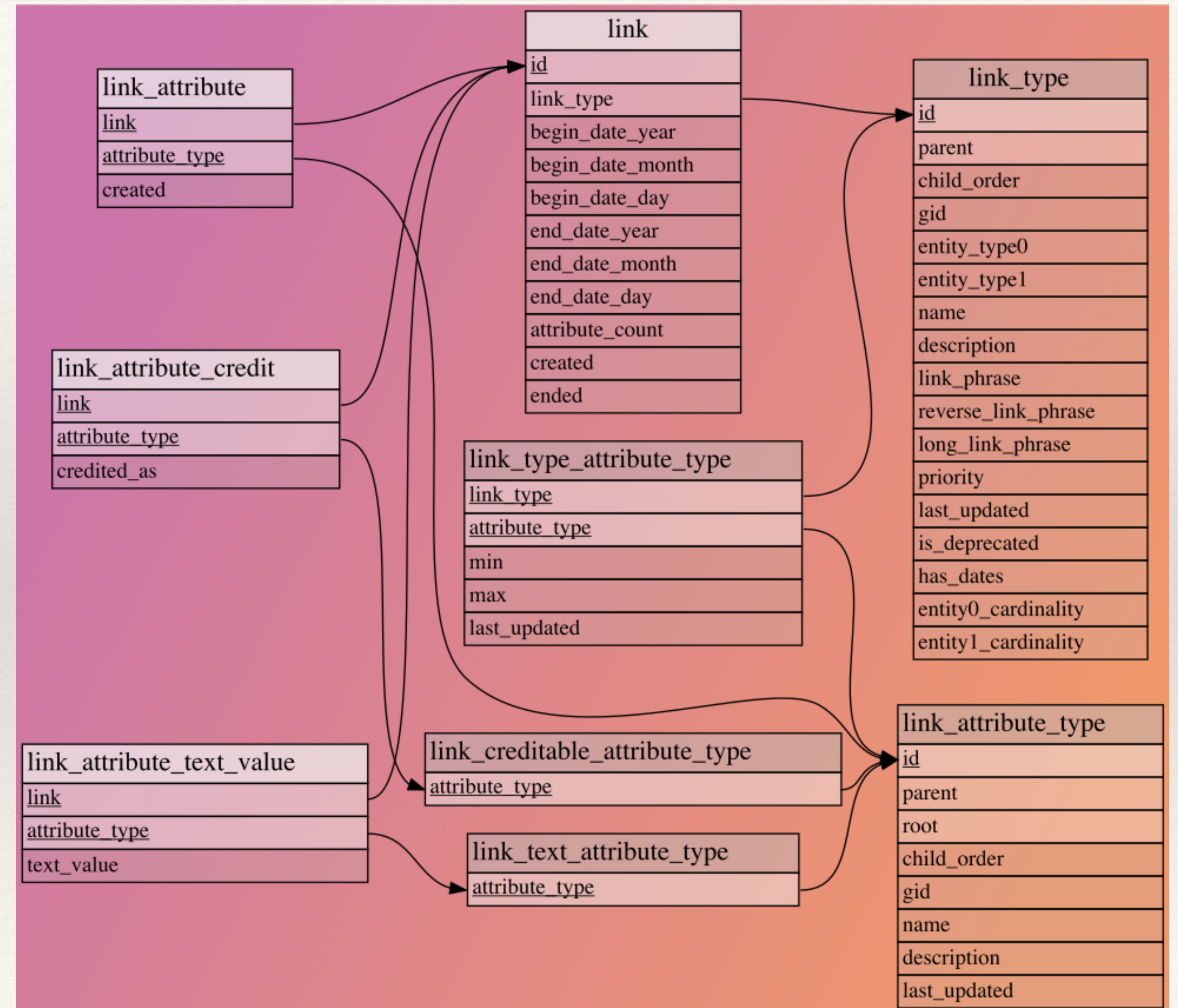
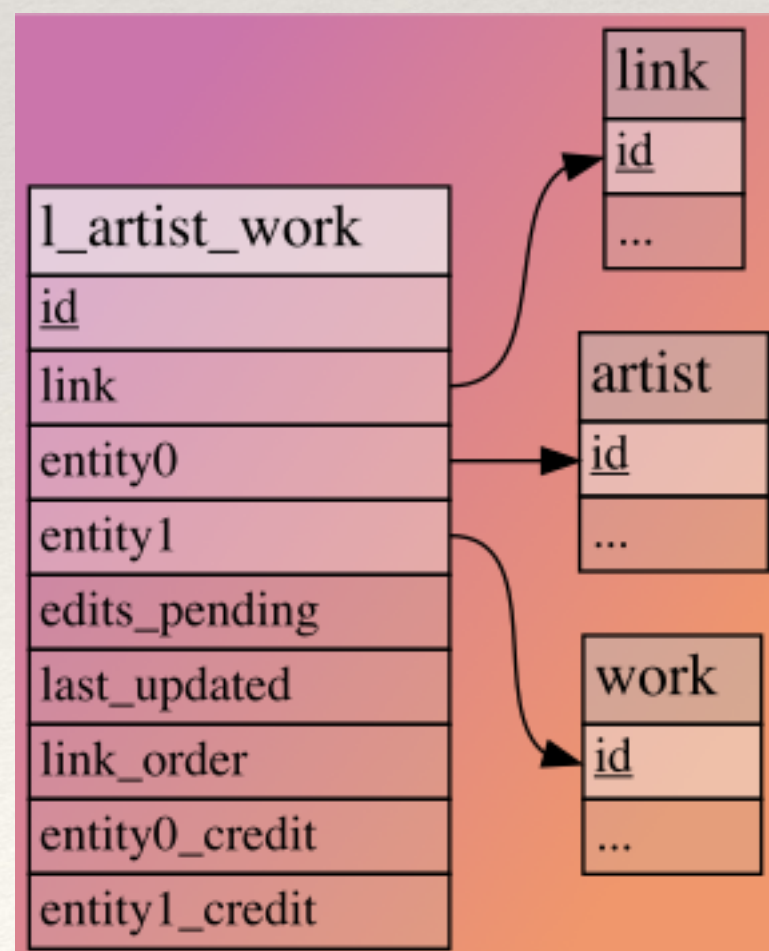
The screenshot shows the MusicBrainz website interface. The browser address bar displays 'musicbrainz.org/relationships/artist-work'. The page title is 'Artist-Work relationship types'. The main content area is titled 'Relationships' and has two tabs: 'Relationship Types' and 'Relationship Attributes'. Below the tabs, there is a link '< Back to all relationship types'. The page lists several relationship types, each with a 'more' link. The 'composer' type is expanded, showing the following details:

- Forward link phrase:** {additional: additionally} composed
- Reverse link phrase:** {additional} composer
- Long link phrase:** {additional: additionally} composed
- Description:** Indicates the composer for this work, i.e. the artist who wrote the music (not necessarily the lyrics).
- Cardinality of {entity0}:** Many relationships (1)
- Cardinality of {entity1}:** Few relationships (0)
- UUID:** d59d99ea-23d4-4a80-b066-edca32ee158f
- [Documentation]

Other relationship types listed include: lyricist, librettist, revised by, translator, reconstructed by, arranger, instrument arranger, orchestrator, vocal arranger, previous attribution, and misc (with sub-types: commissioned, dedication, premiere, publishing).

Attributes

- ❖ One table per pair of items that can be related
- ❖ link: metadata about the link itself
- ❖ link_type: the nature of the link between the entities
- ❖ attributes: [lead] performer, [assistant] producer



External sites (URLs)

- ❖ Point to external locations
- ❖ Turns out these are just relationships (URL is an entity)
- ❖ Other authority catalogues
- ❖ <https://musicbrainz.org/artist/0383dadf-2a4e-4d10-a46a-e9e041da8eb3>
- ❖ Some relationship types are specific to a site
 - ❖ Other types are generic (other database)

fan pages: <http://queen.musichall.cz/en/> [info]
<http://queen.shanemcdonald.org/> [info]
<http://www.meddows.com/> [info]
<http://www.queenconcerts.com/> [info]
<http://www.queenfanclub.nl/> [info]
<https://shanemcdonald.ie/queen> [info]

purchase music for mail-order: <https://www.cdjapan.co.jp/person/700192881> [info]

purchase music for download: <https://itunes.apple.com/gb/artist/id3296287> [info]
<https://uk.7digital.com/artist/queen> [info]
<https://play.google.com/store/music/artist?id=A52ikp5gjplylwfrj7bjwdfsozi> [info] (until 2020-10-12)

IMDb: <https://www.imdb.com/name/nm1277102/> [info]

Discogs: <https://www.discogs.com/artist/81013> [info]

official homepages: <http://www.queenonline.com/> [info]

discography pages: <http://www.queenonstage.com/> [info]
<http://www.queenpedia.com/> [info]
<http://www.queensongs.info/> [info]

online communities: <https://discord.com/invite/queenofficial> [info]

other databases: <http://d-nb.info/gnd/1216393-4> [info]
<http://id.loc.gov/authorities/names/n81144041> [info]
http://musicmoz.org/Bands_and_Artists/Q/Queen/ [info]
<http://mvdbase.com/person.php?id=A1497> [info]
<http://soundtrackcollector.com/composer/255/> [info]
<http://www.45cat.com/artist/queen> [info]
<https://catalogue.bnf.fr/ark:/12148/cb13905983b> [info]
<https://imvdb.com/n/queen> [info]
<https://nla.gov.au/nla.party-1252469> [info]
<https://openlibrary.org/works/OL2786044A> [info]
<https://rateyourmusic.com/artist/queen> [info]
<https://theatricalia.com/person/2fbw/queen> [info]
<https://www.livefans.jp/artists/21342> [info]
<https://www.musik-sammler.de/artist/queen/> [info]
<https://www.muzykweb.nl/Link/M0000071922/POPULAR/> [info]
<https://www.spirit-of-rock.com/en/band/Queen> [info]
<https://www.whosampled.com/Queen/> [info]
<https://www.worldcat.org/identities/lccn-n81144041> [info]

Myspace: <https://myspace.com/queen> [info]

BBC Music: <https://www.bbc.co.uk/music/artists/0383dadf-2a4e-4d10-a46a-e9e041da8eb3> [info] (until 2020-11-19)

social networking: <https://www.facebook.com/Queen> [info]
<https://www.tiktok.com/@queenofficial> [info]
<https://plus.google.com/111434746288415573196> [info] (until 2019-04-02)
<https://twitter.com/QueenWillRock> [info] (from 2009-12-22 to present)
<https://www.instagram.com/officialqueenmusic/> [info] (from 2014-06-12 to present)

YouTube channels: <https://www.youtube.com/user/queenofficial> [info]

stream for free: <https://open.spotify.com/artist/1dfeR4HaWDbWqFHLkxsg1d> [info]
<https://www.deezer.com/artist/412> [info]

lyrics page: <http://muzikum.eu/en/122-3908/queen/lyrics.html> [info]
<https://genius.com/artists/Queen> [info]
<https://www.musixmatch.com/artist/Queen> [info]

Allmusic: <https://www.allmusic.com/artist/mn0000858827> [info]

SoundCloud: <https://soundcloud.com/queen-69312> [info]

SecondHandSongs: <https://secondhandsongs.com/artist/374> [info]

VIAF ID: [261960117](https://viaf.org/viaf/261960117) [info]

Wikidata: [Q15862](https://www.wikidata.org/wiki/Q15862) [info]

Songkick: <https://www.songkick.com/artists/469904> [info]

setlist.fm: <https://www.setlist.fm/setlists/queen-43d6e37f.html> [info]

Last.fm: <https://www.last.fm/music/Queen> [info]

streaming page: [Amazon Music US](https://music.apple.com/gb/artist/3296287) [info]
<https://music.apple.com/gb/artist/3296287> [info]
<https://tidal.com/artist/8992> [info]
<https://us.napster.com/artist/queen> [info]

Work attributes

- ❖ CompMusic project (2011-2017)
- ❖ We decided to add all content to MusicBrainz instead of creating a separate database
- ❖ Some information didn't fit in the existing MusicBrainz schema
- ❖ We used tags to temporarily store it
- ❖ MusicBrainz added additional functionality for our requirements (also subsequently used for other purposes)
- ❖ <https://musicbrainz.org/work/adcdc472-8b19-4e6f-aa4e-be8c6aea5f8a>
- ❖ <https://musicbrainz.org/work/bb332094-7f0c-469a-9f3b-4cce7b28c7f4>

The screenshot shows the MusicBrainz page for the song "Viriboni" (Bhairavi Ata Thala Varnam). The page includes a navigation bar with "alastairp" and "My Data" dropdowns, a search bar, and a main content area. The "Recordings" section contains a table with the following data:

Date	Title	Attributes	Artist	Length
1974	Viriboni	live	M. D. Ramanathan	9:49
1986	Viriboni	live	K.V. Narayanaswami	7:57
	Varnam - Viriboni		T. N. Seshagopalan	9:18
	Viriboni	live	M. D. Ramanathan	14:46
	Viriboni	live	Malladi Brothers	9:33
	Viriboni	live	K.V. Narayanaswami	9:33
	Viriboni	live	K.V. Narayanaswami	6:18
	Viriboni	live	M.S. Subbulakshmi	10:32
	Viriboni	live	M. D. Ramanathan	6:14
	Viriboni	live	T. R. Mahalingam	10:21
	Viriboni	live	Gayathri Venkataraghavan	8:08
	Viriboni	live	K.V. Narayanaswami	6:57
	Viriboni	live	Kunnakkudi M Balamuralikrishna	7:21
	Viriboni	live	T. M. Krishna	8:01
	Viriboni	live	M.S. Subbulakshmi	9:36
	Viriboni	live	Sanjay Subrahmanyam	6:01
	Viriboni	live	K.V. Narayanaswamy	6:35
	Viriboni	live	K.V. Narayanaswami	7:13
	Viriboni	live	Abhishek Raghuram	11:28

- Key
- Identifiers
 - AACIMH ID
 - ACAM ID
 - ACDAM ID
 - AEI ID
 - AGADU ID
 - AKKA/LAA ID
 - AKM ID
 - AMRA ID
 - APA ID
 - APDAYC ID
 - APRA ID
 - ARTISJUS ID
 - ASCAP ID
 - BMI ID
 - BUMA/STEMRA ID
 - CASH ID
 - CCLI ID
 - COMPASS ID
 - COSCAP ID
 - COTT ID
 - ECAD ID
 - GEMA ID
 - GMR ID
 - HFA ID
 - ICE ID
 - IMRO ID
 - IPRS ID
 - JACAP ID
 - JASRAC ID
 - KODA ID
 - KOMCA ID
 - LatinNet ID
 - MACP ID
 - MCSC ID
 - MCT ID
 - MÜST ID
 - NexTone ID

Edits

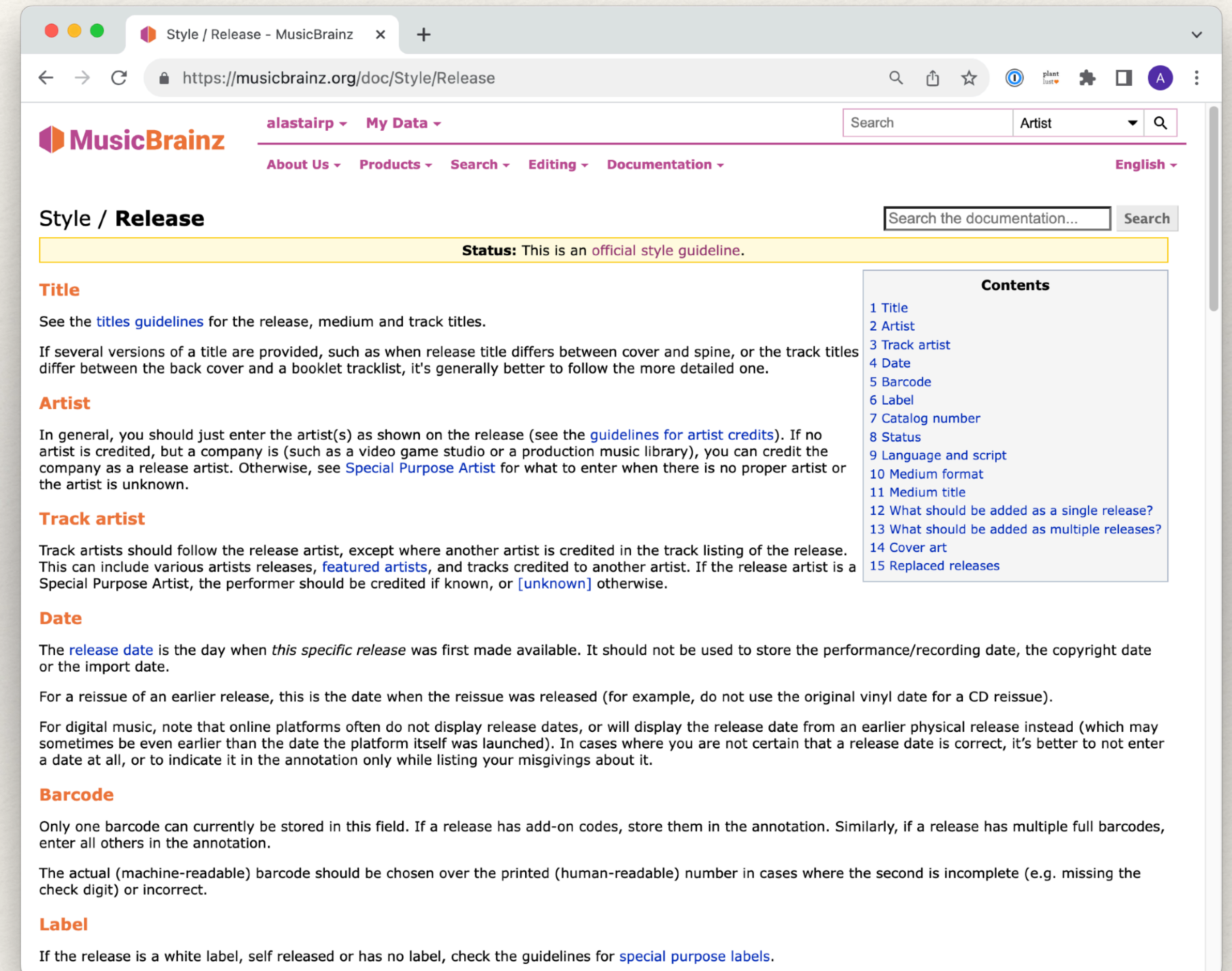
- ❖ All changes to the database are proposed as *edits* to the database
- ❖ Edits are voted on by the community to determine if they are valid
- ❖ An edit history is stored for all entities
- ❖ A list of edits is also used to perform updates to database mirrors
- ❖ https://musicbrainz.org/search/edits?auto_edit_filter=&order=desc&negation=0&combinator=and&conditions.0.field=artist&conditions.0.operator=%3D&conditions.0.name=R.E.M.&conditions.0.args.0=10302&conditions.1.field=type&conditions.1.operator=%3D&conditions.1.args=2

The screenshot shows a web browser window with the URL `musicbrainz.org/search/edits?auto_edit_filter=&order=desc&negation=0&combi...`. The page title is "Search for Edits - MusicBrainz" and it displays "Found 7 edits". Four edit entries are visible, each for the artist R.E.M. (Athens, US rock band). Each entry includes the edit number, the editor's name, the edit date, and the edit details. The first three edits were made by drsaunde and are automatically applied. The fourth edit was made by PhantomOTO and is also automatically applied.

Edit #	Editor	My vote	Status	Closed	Details
#46962365	drsaunde	None	automatically applied	2017-08-03 20:04 GMT+2	Disambiguation: Athens, US rock band
#24192395	drsaunde	None	automatically applied	2013-10-21 00:09 GMT+2	Founded in: Georgia, United States; Athens, Georgia, United States
#23571672	drsaunde	None	automatically applied	2013-09-02 04:34 GMT+2	Founded in: Georgia, United States; ISNI codes: 0000000121515044
#15240021	PhantomOTO	None	automatically applied	2011-09-21 19:39 GMT+2	Dissolved: 2011-09-21

Data correctness

- ❖ The Style Guide describes how data should be entered in the case of uncertainty
- ❖ Rules mostly agreed by consensus, but there is an authoritarian style leader to break deadlocks if required



The screenshot shows the MusicBrainz website's documentation page for 'Style / Release'. The page is titled 'Style / Release' and includes a search bar and a navigation menu. A yellow banner at the top states: 'Status: This is an official style guideline.' The main content is organized into sections: 'Title', 'Artist', 'Track artist', 'Date', 'Barcode', and 'Label'. Each section provides detailed instructions on how to enter data correctly. A 'Contents' sidebar on the right lists the sections: 1 Title, 2 Artist, 3 Track artist, 4 Date, 5 Barcode, 6 Label, 7 Catalog number, 8 Status, 9 Language and script, 10 Medium format, 11 Medium title, 12 What should be added as a single release?, 13 What should be added as multiple releases?, 14 Cover art, and 15 Replaced releases.

Title
See the [titles guidelines](#) for the release, medium and track titles.
If several versions of a title are provided, such as when release title differs between cover and spine, or the track titles differ between the back cover and a booklet tracklist, it's generally better to follow the more detailed one.

Artist
In general, you should just enter the artist(s) as shown on the release (see the [guidelines for artist credits](#)). If no artist is credited, but a company is (such as a video game studio or a production music library), you can credit the company as a release artist. Otherwise, see [Special Purpose Artist](#) for what to enter when there is no proper artist or the artist is unknown.

Track artist
Track artists should follow the release artist, except where another artist is credited in the track listing of the release. This can include various artists releases, [featured artists](#), and tracks credited to another artist. If the release artist is a Special Purpose Artist, the performer should be credited if known, or [\[unknown\]](#) otherwise.

Date
The [release date](#) is the day when *this specific release* was first made available. It should not be used to store the performance/recording date, the copyright date or the import date.
For a reissue of an earlier release, this is the date when the reissue was released (for example, do not use the original vinyl date for a CD reissue).
For digital music, note that online platforms often do not display release dates, or will display the release date from an earlier physical release instead (which may sometimes be even earlier than the date the platform itself was launched). In cases where you are not certain that a release date is correct, it's better to not enter a date at all, or to indicate it in the annotation only while listing your misgivings about it.

Barcode
Only one barcode can currently be stored in this field. If a release has add-on codes, store them in the annotation. Similarly, if a release has multiple full barcodes, enter all others in the annotation.
The actual (machine-readable) barcode should be chosen over the printed (human-readable) number in cases where the second is incomplete (e.g. missing the check digit) or incorrect.

Label
If the release is a white label, self released or has no label, check the guidelines for [special purpose labels](#).

Data access

- ❖ Multiple different formats
- ❖ Originally: XML Webservice
- ❖ Later: JSON API
- ❖ Also: JSON-LD (for indexing into search engines)
 - ❖ Send `Accept: application/ld-json` to get this

Data formats

- ❖ API available via XML (with schema), JSON
- ❖ Main pages also available via JSON-LD (used by search engines)

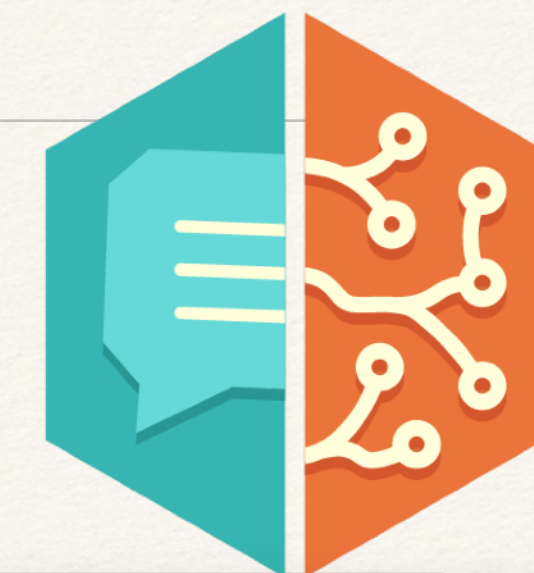
```
{
  "name": "Queen",
  "isnis": [
    "0000000115265309"
  ],
  "gender": null,
  "sort-name": "Queen",
  "type-id": "e431f5f6-b5d2-343d-8b36-72607ffffb74b",
  "disambiguation": "UK rock group",
  "ipis": [],
  "area": {
    "id": "8a754a16-0027-3a29-b6d7-2b40ea0481ed",
    "iso-3166-1-codes": [
      "GB"
    ],
    "name": "United Kingdom",
    "disambiguation": "",
    "type": null,
    "sort-name": "United Kingdom",
    "type-id": null
  },
}
```

```
{
  "@id": "http://musicbrainz.org/artist/0383dadf-2a4e-4d10-a46a-e9e041da8eb3",
  "@type": "MusicGroup",
  "album": [
    {
      "creditedTo": "Queen",
      "albumProductionType": "http://schema.org/StudioAlbum",
      "byArtist": {
        "name": "Queen",
        "@type": "MusicGroup",
        "@id": "http://musicbrainz.org/artist/0383dadf-2a4e-4d10-a46a-e9e041da8eb3",
        "genre": [
          "http://musicbrainz.org/genre/0e3fc579-2d24-4f20-9dae-736e1ec78798",
          "http://musicbrainz.org/genre/51cb9f91-e6a2-41bf-891f-e78e3f1e52ab",
          "http://musicbrainz.org/genre/54d89e62-5bfb-42bc-a321-9230e6fdcd75",
          "http://musicbrainz.org/genre/b7ef058e-6d83-4ca4-8123-9724bfff4648b",
          "http://musicbrainz.org/genre/797e2e85-5ffd-495c-a757-8b4079052f0e"
        ]
      },
      "@type": "MusicAlbum",
      "@id": "http://musicbrainz.org/release-group/810068af-2b3c-3e9c-b2ab-68a3f3e3787d",
      "name": "Queen",
    }
  ]
}
```

Offline data access

- ❖ Data dumps made available twice a week
- ❖ Mostly CC0 (Factual data)
 - ❖ Some data is CC-SA (annotations, tags, ratings)
- ❖ PostgreSQL: https://musicbrainz.org/doc/MusicBrainz_Database/Download
- ❖ Easy-to-install MusicBrainz server (database, website, search) via docker:
 - ❖ <https://github.com/metabrainz/musicbrainz-docker>
- ❖ JSON Dumps: Entire output of the JSON API
 - ❖ https://musicbrainz.org/doc/Development/JSON_Data_Dumps

CritiqueBrainz



- ❖ <https://critiquebrainz.org>
- ❖ Open database of reviews of music (and books)

A screenshot of the CritiqueBrainz website homepage. The browser address bar shows 'critiquebrainz.org'. The page features a navigation bar with 'Sign in', 'Reviews', and 'Statistics' links, along with search and artist filters. A 'Statistics' table is visible on the right, and a 'Popular reviews' section is at the bottom.

Statistics

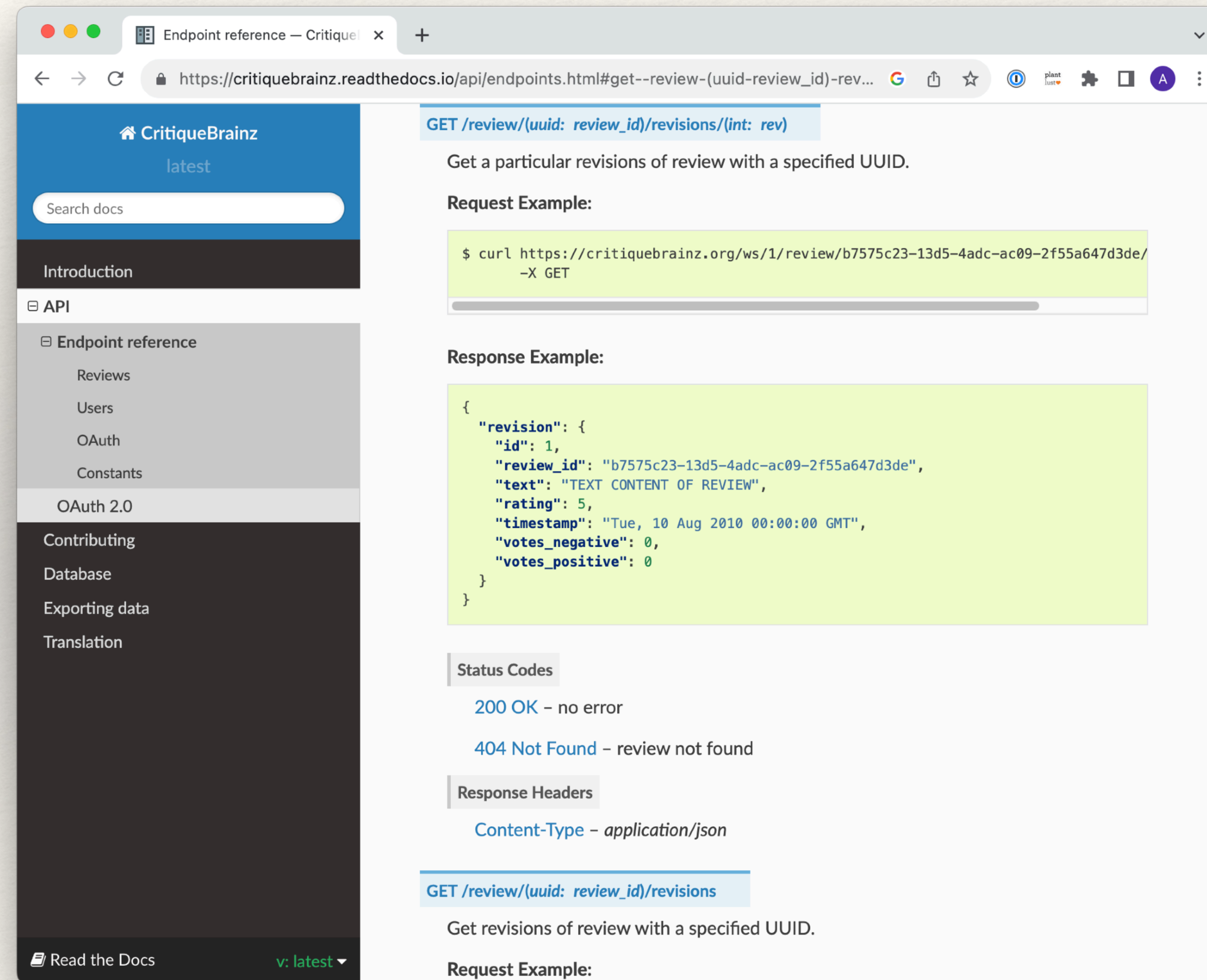
Description	Number
Number of Reviews	10,399
Number of Users	2,722

Popular reviews

- RAYFORCE by ZUNTATA**
Review by UCHUBomb
One of the most unique shmup OST's for one of the most unique arcade shmups ever made, and arguably Tamayo Kawamoto's...
- Spaceball: The American Radio Sessions by ...**
Review by Jon Lusk
Subtitled The American Radio Sessions, this double-disc set collects largely acoustic versions of classic T. Rex songs performed in...
- Kamaal the Abstract by Q-Tip**
Review by Stevie Chick
That Q-Tip spent his own money to purchase the rights to this previously-shelved album suggests how close it is to his heart. That it...
- Odd and Awkward by Nils Wogram**
Review by Peter Marsh
Trombonist Nils Wogram is pretty much unknown over here but has made a name for himself on the Eurojazz circuit, and this...
- Summer Days (and Summer Nights!!) by The ...**
Review by Chris Roberts
Released just four months after Today! in July 1965, The Beach Boys' ninth album was at first deemed by some to be a regression. Its...
- Bongo Bong**
Review by rob
This track has long been the stand-out track that exemplifies Manu Chao for me -- I've been loving this song ever since it came out ...

CritiqueBrainz API

- ❖ API
 - ❖ <https://critiquebrainz.readthedocs.io/>
- ❖ Database download
 - ❖ <http://data.musicbrainz.org/pub/musicbrainz/critiquebrainz/dump/>
- ❖ Main entity type: Review
 - ❖ Linked to a specific MusicBrainz/BookBrainz entity
 - ❖ Reviews have revisions (public edits)
 - ❖ A review can include text, a rating, or both
 - ❖ Others can vote on the quality of a review
- ❖ Coming soon: Integration into ListenBrainz



The screenshot shows a web browser displaying the CritiqueBrainz API documentation. The page title is "Endpoint reference - CritiqueBrainz" and the URL is "https://critiquebrainz.readthedocs.io/api/endpoints.html#get--review-(uuid-review_id)-rev...". The page content includes a search bar, a navigation menu with "API" selected, and a list of endpoints. The selected endpoint is "GET /review/{uuid: review_id}/revisions/{int: rev}", which is described as "Get a particular revisions of review with a specified UUID." The page provides a request example using curl and a response example in JSON format. The response example shows a single revision object with fields: id, review_id, text, rating, timestamp, votes_negative, and votes_positive. The status codes section lists "200 OK - no error" and "404 Not Found - review not found". The response headers section lists "Content-Type - application/json".

Endpoint reference — CritiqueBrainz

latest

Search docs

Introduction

API

- Endpoint reference
- Reviews
- Users
- OAuth
- Constants
- OAuth 2.0
- Contributing
- Database
- Exporting data
- Translation

Read the Docs v: latest

GET /review/{uuid: review_id}/revisions/{int: rev}

Get a particular revisions of review with a specified UUID.

Request Example:

```
$ curl https://critiquebrainz.org/ws/1/review/b7575c23-13d5-4adc-ac09-2f55a647d3de/ -X GET
```

Response Example:

```
{
  "revision": {
    "id": 1,
    "review_id": "b7575c23-13d5-4adc-ac09-2f55a647d3de",
    "text": "TEXT CONTENT OF REVIEW",
    "rating": 5,
    "timestamp": "Tue, 10 Aug 2010 00:00:00 GMT",
    "votes_negative": 0,
    "votes_positive": 0
  }
}
```

Status Codes

- 200 OK - no error
- 404 Not Found - review not found

Response Headers

- Content-Type - application/json

GET /review/{uuid: review_id}/revisions

Get revisions of review with a specified UUID.

Request Example:

ListenBrainz



<https://listenbrainz.org>

- ❖ Open database of user listening history
- ❖ import from lastfm, spotify
- ❖ Statistics
- ❖ Community functionality
- ❖ Recommendations

A screenshot of a web browser showing the ListenBrainz user profile for 'alastairp'. The browser address bar shows 'listenbrainz.org/user/alastairp/'. The page has a navigation menu with 'Home', 'Feed', 'Recent', 'Data', 'Explore', and 'About'. A search bar on the right contains 'alastairp'. Below the navigation is the user's name 'alastairp' and a link to 'See profile on MusicBrainz'. A secondary navigation bar includes 'Listens', 'Reports', 'Charts', 'Love/Hate', 'Pins', 'Playlists', 'Recommendations', and 'Collaborations'. The main content area is titled 'Recent listens' and features a list of seven songs with their album covers, titles, artists, and listen times. The first song is 'Learning To Fly' by Tom Petty and the Heartbreakers, listened to 5 minutes ago. The second is 'Roll Um Easy' by Little Feat, listened to 9 minutes ago. The third is 'Get It On' by T. Rex, listened to 12 minutes ago. The fourth is 'I Want To See The Bright Lights Tonight' by Richard & Linda Thompson, listened to 16 minutes ago. The fifth is 'Blue Red And Grey' by The Who, listened to 19 minutes ago. The sixth is 'Hazy Jane II' by Nick Drake, listened to 22 minutes ago. The seventh is 'Heaven on the Beach with You' by Robert Lester Folsom, listened to 26 minutes ago. On the right side of the page, there is a 'Listening now' widget for 'Let Me Roll It - 2010 Remaster' by Wings. Below that is a 'You have listened to' widget showing '25,297 songs so far'. At the bottom right, there are buttons for 'Followers (6)' and 'Following (5)', with a list of followed users: 'mr_monkey', 'iliekcomputers', and 'troi-bot', each with a 'Following' button. At the very bottom of the page, there is a music player interface with play/pause, previous, and next buttons, and a volume icon.

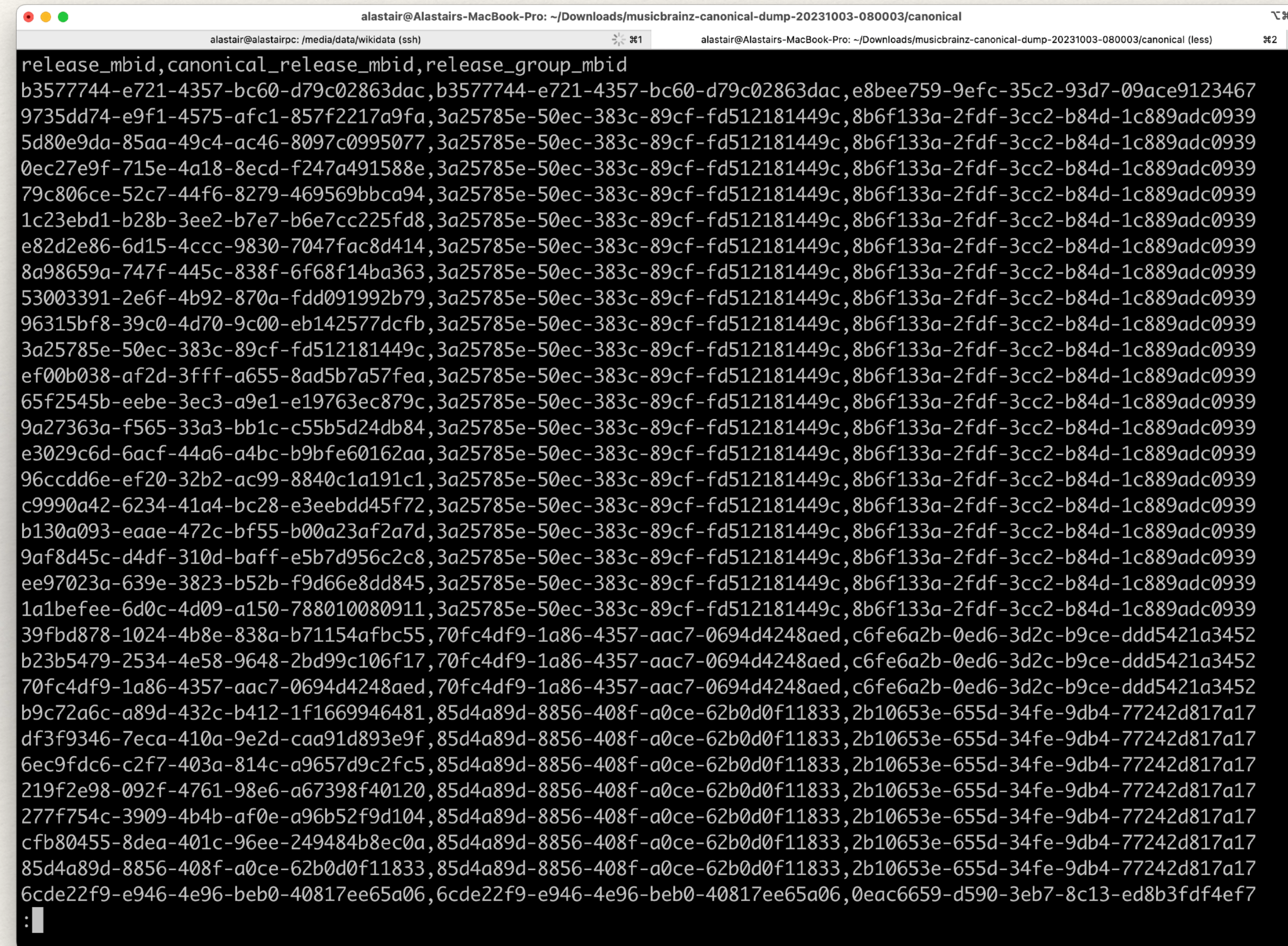
ListenBrainz data access

- ❖ Primary data object, a "Listen"
- ❖ user x listened to track y at time z
- ❖ plus additional metadata if you want
- ❖ automatically linked to MusicBrainz when the data is submitted (see Canonical - next)
- ❖ <https://data.musicbrainz.org/pub/musicbrainz/listenbrainz/>

```
- {
  inserted_at: 1697804497,
  listened_at: 1697804053,
  recording_msid: "4c00aaa6-a2ab-42ef-93d5-8c66b1ad22bc",
- track_metadata: {
  - additional_info: {
    - artist_names: [
      "The Magnetic Fields"
    ],
    discnumber: 1,
    duration_ms: 166853,
    isrc: "USN011600667",
    music_service: "spotify.com",
    origin_url: "https://open.spotify.com/track/3XSmaFNg87VuralouTs5yf",
    recording_msid: "4c00aaa6-a2ab-42ef-93d5-8c66b1ad22bc",
    release_artist_name: "The Magnetic Fields",
  - release_artist_names: [
    "The Magnetic Fields"
  ],
  - spotify_album_artist_ids: [
    "https://open.spotify.com/artist/6RWjTQqILL7a1tQ0VapyLK"
  ],
  spotify_album_id: "https://open.spotify.com/album/2b3Jj0vKw9UN47ND80Tvri",
  - spotify_artist_ids: [
    "https://open.spotify.com/artist/6RWjTQqILL7a1tQ0VapyLK"
  ],
  spotify_id: "https://open.spotify.com/track/3XSmaFNg87VuralouTs5yf",
  submission_client: "listenbrainz",
  tracknumber: 3
},
  artist_name: "The Magnetic Fields",
- mbid_mapping: {
  - artist_mbids: [
    "3ff72a59-f39d-411d-9f93-2d4a86413013"
  ],
  - artists: [
    - {
      artist_credit_name: "The Magnetic Fields",
      artist_mbid: "3ff72a59-f39d-411d-9f93-2d4a86413013",
      join_phrase: ""
    }
  ],
  caa_id: 16168564506,
  caa_release_mbid: "9d812089-052f-4f5d-a474-7448a6fd80d1",
  recording_mbid: "786734f0-135b-48e4-ae16-62eec3d88523",
  recording_name: "'68 A Cat Called Dionysus",
  release_mbid: "bd7de75d-3587-49ec-a07f-2e2c825d3538"
},
  release name: "50 Song Memoir",
```


ListenBrainz ancillary datasets: Canonical

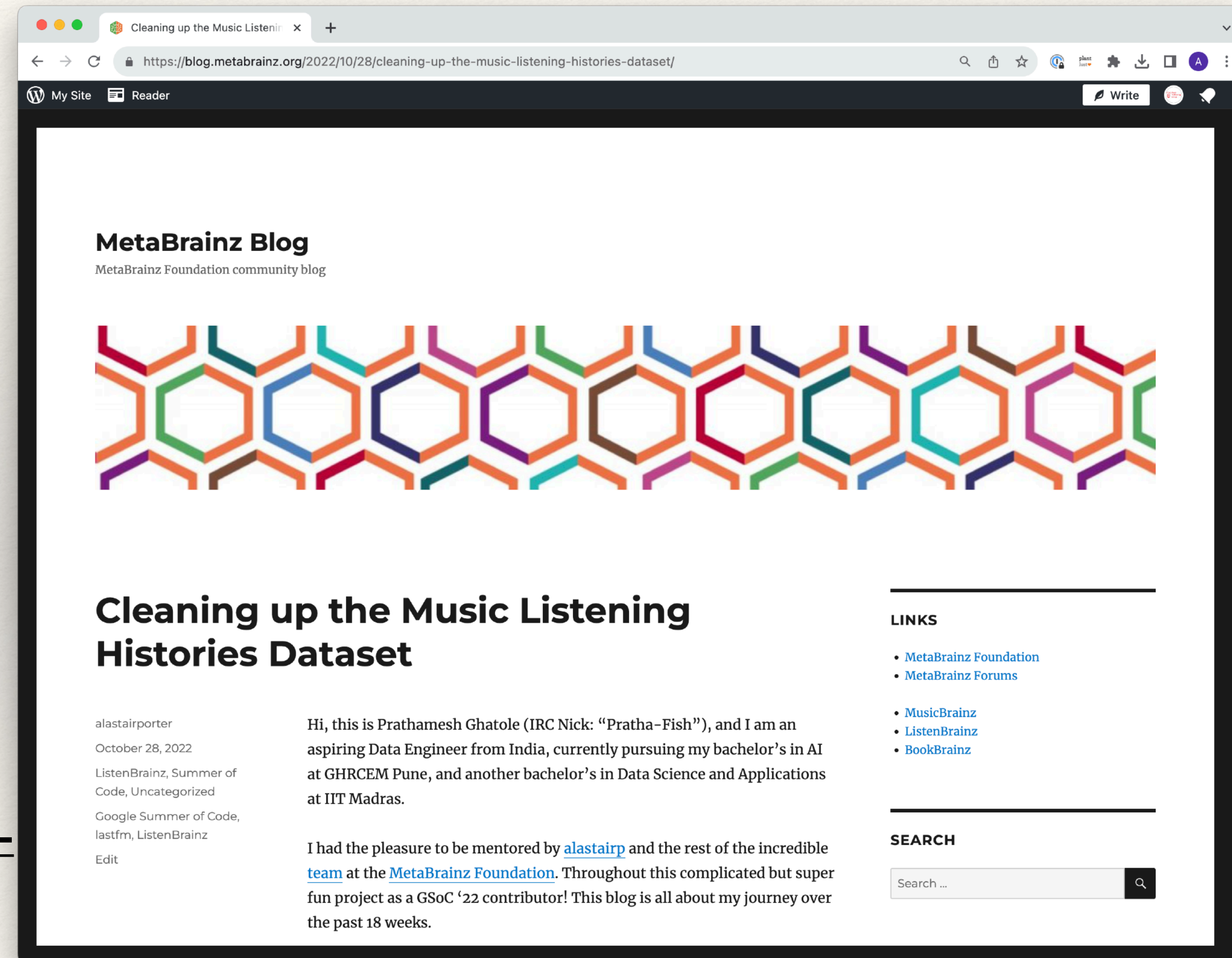
- ❖ Because of the nature of the MusicBrainz database it contains many instances where metadata exists for many different versions (formats, reissues) of the same album, or many versions (live recordings, alternate versions) of a recording.
- ❖ However for some tasks such as music recommendation, it's often useful to be able to use a single identifier when talking about a recording or a release, both in order to improve the quality of a training dataset for machine learning and when providing results to an end user.
- ❖ https://musicbrainz.org/doc/Canonical_MusicBrainz_data



```
alastair@Alastairs-MacBook-Pro: ~/Downloads/musicbrainz-canonical-dump-20231003-080003/canonical
alastair@alastairpc: /media/data/wikidata (ssh)
alastair@Alastairs-MacBook-Pro: ~/Downloads/musicbrainz-canonical-dump-20231003-080003/canonical (less)
release_mbid,canonical_release_mbid,release_group_mbid
b3577744-e721-4357-bc60-d79c02863dac,b3577744-e721-4357-bc60-d79c02863dac,e8bee759-9efc-35c2-93d7-09ace9123467
9735dd74-e9f1-4575-afc1-857f2217a9fa,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
5d80e9da-85aa-49c4-ac46-8097c0995077,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
0ec27e9f-715e-4a18-8ecd-f247a491588e,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
79c806ce-52c7-44f6-8279-469569bbca94,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
1c23ebd1-b28b-3ee2-b7e7-b6e7cc225fd8,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
e82d2e86-6d15-4ccc-9830-7047fac8d414,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
8a98659a-747f-445c-838f-6f68f14ba363,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
53003391-2e6f-4b92-870a-fdd091992b79,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
96315bf8-39c0-4d70-9c00-eb142577dcfb,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
3a25785e-50ec-383c-89cf-fd512181449c,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
ef00b038-af2d-3fff-a655-8ad5b7a57fea,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
65f2545b-eebe-3ec3-a9e1-e19763ec879c,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
9a27363a-f565-33a3-bb1c-c55b5d24db84,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
e3029c6d-6acf-44a6-a4bc-b9bfe60162aa,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
96ccdd6e-ef20-32b2-ac99-8840c1a191c1,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
c9990a42-6234-41a4-bc28-e3eebdd45f72,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
b130a093-eeae-472c-bf55-b00a23af2a7d,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
9af8d45c-d4df-310d-baff-e5b7d956c2c8,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
ee97023a-639e-3823-b52b-f9d66e8dd845,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
1a1befee-6d0c-4d09-a150-788010080911,3a25785e-50ec-383c-89cf-fd512181449c,8b6f133a-2fdf-3cc2-b84d-1c889adc0939
39fbd878-1024-4b8e-838a-b71154afbc55,70fc4df9-1a86-4357-aac7-0694d4248aed,c6fe6a2b-0ed6-3d2c-b9ce-ddd5421a3452
b23b5479-2534-4e58-9648-2bd99c106f17,70fc4df9-1a86-4357-aac7-0694d4248aed,c6fe6a2b-0ed6-3d2c-b9ce-ddd5421a3452
70fc4df9-1a86-4357-aac7-0694d4248aed,70fc4df9-1a86-4357-aac7-0694d4248aed,c6fe6a2b-0ed6-3d2c-b9ce-ddd5421a3452
b9c72a6c-a89d-432c-b412-1f1669946481,85d4a89d-8856-408f-a0ce-62b0d0f11833,2b10653e-655d-34fe-9db4-77242d817a17
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6cde22f9-e946-4e96-beb0-40817ee65a06,6cde22f9-e946-4e96-beb0-40817ee65a06,0eac6659-d590-3eb7-8c13-ed8b3fdf4ef7
```


MLHD+

- ❖ Improved version of MLHD (DDMAL, 2017)
 - ❖ Follow redirects:
 - ❖ Identify Canonical Recordings: Allow direct comparison if two people listened to the same recording which was previously reported as 2 items
 - ❖ Lookup correct Artist and Releases using Canonical recordings
 - ❖ Other data problems: Remove missing data that doesn't match any known MBID
 - ❖ Better compression
- ❖ <https://blog.metabrainz.org/2022/10/28/cleaning-up-the-music-listening-histories-dataset/>



BookBrainz



<https://bookbrainz.org>

- ❖ Open database of books
- ❖ API (in testing still)
 - ❖ <https://api.test.bookbrainz.org/1/docs/>
- ❖ Database download
 - ❖ <https://data.musicbrainz.org/pub/musicbrainz/bookbrainz/>

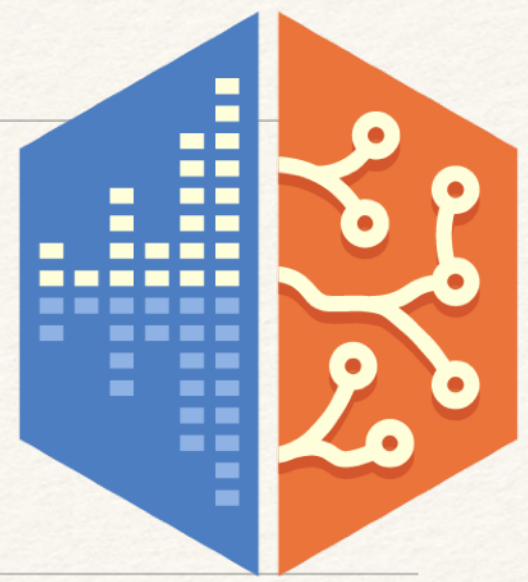
The screenshot shows the BookBrainz website interface. The browser address bar displays the URL `bookbrainz.org/edition/b2d02a9f-167b-438b-92f0-e2a6096123a1`. The page title is "Die Höhe bekommt uns nicht: Erzählungen" by Doris Lessing. The main content area displays a table of metadata:

Sort Name	Status	Dimensions (WxHxD)	Publishers
Höhe bekommt uns nicht, Die: Erzählungen	Official	?x?x? mm	Deutscher Taschenbuch Verlag
Release Date	Languages	Weight	
1989-03	German	? g	
Format	Page Count		
Paperback	294		

Below the metadata table, there is an "Annotation" section with the text "Lizenzausgabe 1. Auflage März 1989" and a "Show more..." link. The "Works" section is a table listing related works:

Name	Author	Languages	Type
Das Ärgernis	Doris Lessing	German	Short Story
Winter im Juli	Doris Lessing	German	Short Story
Ich weiß, was er gesagt hat	Doris Lessing	German	Short Story
Lucy Grange (German translation)	Doris Lessing	German	Short Story
Ein harmloser Heuschreckenüberfall	Doris Lessing	German	Short Story

AcousticBrainz



<https://acousticbrainz.org>

- ❖ Public archive of features automatically extracted from music
- ❖ Uses Essentia (<https://essentia.upf.edu/>)
- ❖ Audio descriptors (MFCCs), Tonal features (key, chords), Rhythmic Features (bpm)
- ❖ Support Vector Machines to compute features using common MIR tasks
- ❖ Ran from 2015-2022

Recording "You Look Like I Need a Drink" by Against Me!

See Similar

Metadata	value
MBID	4ad2ca2d-5a12-4142-8371-e402b3401be8
title	You Look Like I Need a Drink
artist	Against Me!
release	As the Eternal Cowboy
track number	9 / 11
track length	2:14

Submission #1 out of 18 →

Low-level information [Summary](#)

Tonal & Rhythm	value
key	A# minor (46.0%)
chords key	D minor
danceability	1.04
bpm	143
beat count	302

High-level information

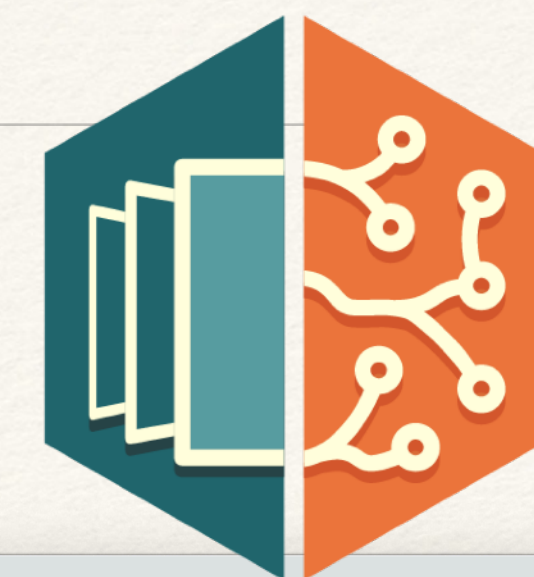
Voice, timbre, gender, etc.	value	probability
Voice	Instrumental	100%

AcousticBrainz data

- ❖ API to download data for a single recording
 - ❖ <https://acousticbrainz.readthedocs.io/api.html>
- ❖ Download a copy of the entire database
 - ❖ <https://acousticbrainz.org/download>
- ❖ Data format is based on the Essentia data extractor
 - ❖ https://essentia.upf.edu/streaming_extractor_music.html#music-descriptors

```
5.51501289081e-10
]
},
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  "dvar2": 22.9963569641,
  "max": 33.8548240662,
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  "min": 2.76867485046,
  "var": 38.8526344299
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```


CAA



- ❖ <https://coverartarchive.org/>
- ❖ Open database of image cover art
- ❖ Collaboration between metabrainz and the internet archive (which stores the images)

The screenshot shows the ListenBrainz website interface. At the top, there's a navigation bar with 'ListenBrainz' logo and links for 'Home', 'Feed', 'Recent', 'Data', 'Explore', and 'About'. A search bar is on the right with the text 'Search Listener' and a dropdown menu showing 'alastairp'. The main content area is titled 'Huesound^{beta}' and displays a grid of 20 album covers. The covers include titles like 'BADK MILITA', 'SABOTAGE', 'UHFIE M', 'ACT OF FALLING PERIOD', 'TERRAZE', 'alman', 'JESTERS OF DESTINY', 'DELEIRIUM', 'NOBODY LOVES ME LIKE YOU', and 'ILLES.SCHNEFZE'. To the left of the grid is a circular color wheel with various color segments. At the bottom, there's a video player showing 'Curmudgeon - Flaccid' with a progress bar at 0:04 / 2:05 and standard video controls.

Cover art archive data

- ❖ JSON API Available: https://musicbrainz.org/doc/Cover_Art_Archive/API
- ❖ Given a release, get all associated images
- ❖ Download the front image for a release
- ❖ Can also download the raw data as part of the main musicbrainz database
- ❖ `cover_art_archive.cover_art` table

	id	release	comment	edit	ordering	date_uploaded
1	829358878	268158		17462125	1	2012-04-30 21:48:55.085782 +00:00
2	829428054	1152196		17462303	1	2012-04-30 22:00:14.293091 +00:00
3	829450710	1146044		17462335	1	2012-04-30 22:04:16.986456 +00:00
4	829455661	1146044		17462338	2	2012-04-30 22:04:43.137076 +00:00
5	829469212	1085462		17462380	1	2012-04-30 22:07:06.911130 +00:00
6	829475704	1068029		17462391	1	2012-04-30 22:08:20.872703 +00:00
7	829482774	765857		17462404	1	2012-04-30 22:09:09.357813 +00:00
8	829483276	486978		17462408	1	2012-04-30 22:09:43.573213 +00:00
9	829489979	1145207		17462420	1	2012-04-30 22:10:35.240668 +00:00
10	829493562	769730		17462442	1	2012-04-30 22:11:06.816147 +00:00
11	829493142	1078515		17462459	1	2012-04-30 22:11:41.062497 +00:00
12	829513566	657279		17462505	1	2012-04-30 22:15:12.024470 +00:00
13	829520403	1112876		17462511	1	2012-04-30 22:15:53.731375 +00:00
14	829524889	822030		17462531	1	2012-04-30 22:16:29.401351 +00:00
15	829525823	1112876		17462533	2	2012-04-30 22:16:34.306956 +00:00
16	829529534	775749		17462542	1	2012-04-30 22:17:11.007889 +00:00
17	829531636	822368		17462549	1	2012-04-30 22:17:30.342034 +00:00
18	2041988331	1061541		19062386	1	2012-09-18 06:14:27.655893 +00:00
19	829535118	1151956		17462560	1	2012-04-30 22:18:08.998556 +00:00
20	829537263	812067		17462561	1	2012-04-30 22:18:30.737246 +00:00
21	829539032	383024		17462563	1	2012-04-30 22:18:41.181773 +00:00
22	829540179	800665		17462589	1	2012-04-30 22:18:57.540274 +00:00
23	829541317	1151956		17462591	2	2012-04-30 22:19:03.490767 +00:00

Thanks

<https://metabrainz.org>

<https://musicbrainz.org>

<https://twitter.com/musicbrainz>

