

NAME

`simadb_cli` – `simadb_cli` is a command line interface editor for the `sima` user DB.

SYNOPSIS

```
simadb_cli {-a similarity_string | --add_similarity=similarity_string} [{-c | --check_names}]
    [{-d db_file | --dbfile=db_file] [{-r | --reciprocal}]
    [{-S mpd_host | --hostname=mpd_host] [{-P mpd_port | --port=mpd_port}]

simadb_cli --remove_artist=artist [{-d db_file | --dbfile=db_file] [{-r | --reciprocal}]

simadb_cli --remove_similarity="main artist,similar artist" [{-d db_file | --dbfile=db_file]
    [{-r | --reciprocal}]

simadb_cli {-v "artist name" | --view_artist="artist name"} [{-d db_file | --dbfile=db_file]

simadb_cli --view_all

simadb_cli {-h | --help} | --version }
```

DESCRIPTION

This manual page documents briefly the `simadb_cli` commands.

`simadb_cli` is a command line interface to get and edit users similarities database used with `MPD_sima`. The default database file (see the section called “FILES”) can be overridden if you want.

Consider reading the section called “A WORD ABOUT SIMA DATA BASE” to understand the structure and relation of similarities within the database.

OPTIONS

The program follows the usual GNU command line syntax, with long options starting with two dashes (“-”). A summary of options is included below.

-h, --help

Print help and exit.

--version

Print version and exit.

-a *similarity_string*, --add_similarity=*similarity_string*

Add similarity to the database.

For more details about the *similarity_string* see the section called “SIMILARITY FORMAT”.

-c, --check_names

Use with `--add_similarity` in order to check artists names used in *similarity_string*. `simadb_cli` will control presence of artists names in MPD library.

-d *db_file*, --dbfile=*db_file*

Use the specific file *db_file* as database.

Default is too use `XDG_DATA_HOME` (see the section called “FILES”).

-r, --reciprocal

Use with an editing options in order to edit reciprocal similarity as well. `--add_similarity` and `--remove_{artist|similarity}` are supporting reciprocal edition.

N.B: this option has to appear after the editing option on the command line.

See the section called “A WORD ABOUT SIMA DATA BASE” for further information about reciprocity notion.

--remove_artist=*artist*

Use to remove an artist entry (as main artist) with its associated similarities. To remove artist where it appears as a similar artist use the `--reciprocal` option.

--remove_similarity="*main artist,similar artist*"

Use to remove a single similarity between a main artist and an associated similarity. Give the main

artist first, use comma (",") to separate it from similar artist.

Use of **---reciprocal** is possible here, see the section called "A WORD ABOUT SIMA DATA BASE".

This option is useful in case you want to remove only a specific similarity between two artists, to remove completely an artist use **---remove_artist** instead.

-v "artist name", ---view_artist="artist name"

Get entries for "artist name" in the data base (print to stdout).

---view_all

Get all entries in the data base (print to stdout).

-P mpd_port, ---port=mpd_port

Use the specific port number *mpd_port* on MPD server.

Default is *6600*.

-S mpd_host, ---hostname=mpd_host

Use the specific host *mpd_host* as MPD server.

mpd_host can be an IP or a fully qualified domain name as long as your system can resolve it.

Default is *localhost*.

FILES

`${XDG_DATA_HOME}/mpd_sima/sima.db`

SQLite DB file. Usually **XDG_DATA_HOME** is set to `${HOME}/.local/share`.

SIMILARITY FORMAT

The *similarity_string* has to be formatted following a special pattern in order for `simadb_cli` to extract similarity relations between artists names. Usually a similarity entry is defined as a main artist, lets say *main_art*, followed by a list of similar artists which you want to be related to that *main_art*, each artist of that list with a specific similarity value, a match score, quantifying the similarity relation with the *main_art*. The match score value is an integer in `[0,100]` with 100 corresponding to a perfect match.

similarity_string is then to be formatted as follow:

main_art,first artist:<score>,second artist:<score>

Each artist group are separated with commas (",") and inside each group the artist name and the match score is colon (":") separated. Obviously the first artist group, as the main artist, does not have a match score.

Lets see how it works with an example. I consider "Led Zeppelin" to be similar to "Tool" with a match score of 25, I also want to have "Audioslave" related to "Led Zeppelin" with a score of 20. Then the *similarity_string* will be the following:

Led Zeppelin,Tool:25,Audioslave:20

See the section called "A WORD ABOUT SIMA DATA BASE" for more details about how similarities are handled

A WORD ABOUT SIMA DATA BASE

The similarity database is defined from the point of view of a *main artist* which is declared related to a list of *similar artists*. That means when you define *main_art* to be similar to *sim_art A* and *sim_art B* the reciprocal won't be true, *sim_art A* and *sim_art B* are not similar to *main_art*. At least this is the default behavior when you edit entries with `simadb_cli`, this is also the way last.fm is working concerning similar artists. This documentation is using that particular terminology to specify which kind of artist we are dealing with : "main artist" or "similar artist".

The **---reciprocal** option allows to add reciprocal relation where *sim_art A* and *sim_art B* become respectively the *main_art*. Using **---reciprocal** you will then edit two more entries in the database. To summarize here is what you'll end up with in your data base adding similarity with this string

main_art,sim_art A:34,sim_art B:45.

simadb_cli --reciprocal --add_similarity=main_art,sim_art A:34,sim_art B:45

main_art similar to sim_art A:34 and sim_art B:45

sim_art A similar to main_art:34

sim_art B similar to main_art:45

Without the reciprocal option you would have add only the first similarity. Usually using the reciprocal option is the desired behavior, at least what users have in mind when thinking of similarity relation between to artists but keep in mind that it may lead to have MPD_sima more sensible to loop over the same two artist (ASSERTION TO BE CONFIRMED).

BUGS

The upstream BTS can be found at <http://codingteam.net/project/sima/bugs>.

FEEDBACKS

The maintainer would be more than happy to here from you, don't hesitate to send feedback on the forge, via the upstream BTS, the forum or the chat room, all available on the forge at <http://codingteam.net/project/sima>.

XMPP users are welcome to join the dedicated room at sima@conference.codingteam.net.

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Wrote this man page and is currently leading MPD_sima project.

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