NAME

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

SYNOPSIS

simadb_cli −−add_similarity=similarity_string [**−−check_names**] [**−−dbfile=**db_file] [**−−reciprocal**]
[**−−hostname**mpd_host] [**−−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 −−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.

EXAMPLES

Similarity edition

Here follows some simple examples on how to deal with similarity database.

Pay attention, the following examples set one−way similarities in the DB! Read more about it in the section
called "A WORD ABOUT SIMA DATA BASE".

Adding a similarity between two artists. In the following example "Pelican" will point to "Russian Circles"
with a match score of 88% (ie. "Russian Circles" 88% similar to Pelican, not reciprocal), it will also check
against MPD the presence of both artists in the music library.

simadb_cli −−add "Pelican,Russian Circles:80" −−check_names

Similarity string use comma "," as artists separator and semi colon ":" for artist/similarity score separator,
cf. the section called "SIMILARITY FORMAT".

Adding a similarity between multiple artists. In the following example "Rage Against The Machine" will
point to "Tool" and "Audioslave" as similar artists and controls artists names are actually in MPD music
library.

simadb_cli −−add "Rage Against The Machine,Tool:70,Audiosalve:80" −−check_names

Viewing similarit(y/ies) for an artist. In the following example we are looking for entries for "Rage Against
The Machine"

simadb_cli −−view_artist "Rage Against The Machine"

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,Audiosalve: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**.

FEEDBACK

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**.

AUTHOR

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Wrote this man page and is currently leading MPD_sima project.

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