# google-music-scripts

Release 4.5.0

thebigmunch

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**ONE** 

### **LEGACY COMMANDS**

As of version 2.0.0, google-music-scripts no longer installs the entry points for the legacy commands (gmupload, gmdownload, etc.). Use the gms command with subcommands instead.

As of version **4.0.0**, the sync commands are removed in favor of syncing options for the download and upload commands. These allow syncing based on the hash of the audio data ('clientId' on Google Music) and/or the metadata. Both sync options are enabled by default. This adds a dependency on the mobile API, so users will have to authenticate the Mobile Client on first run if they haven't previously done so through the Mobile API-based commands.

**TWO** 

#### CONFIGURATION

The configuration file uses the TOML format. It is located in the user config directory for your operating system with the app author being **thebigmunch** and app name being **google-music-scripts**. If the -u, --username option is given to a command, the configuration file from subdirectory **username** is used.

google-music-scripts allows configuration of option defaults using the defaults table. Use option long names (e.g. device-id, uploader-id) as the key. Defaults can be set for all commands, specific commands, or both with command-specific defaults taking precedence.

Use **device-id1** for all commands with device-id argument and **uploader-id1** for all commands with uploader-id argument:

```
[defaults]
device-id = "device-id1"
uploader-id = "uploader-id1"
```

Use uploader-id2 for only the upload command:

```
[defaults.upload]
uploader-id = "uploader-id2"
```

Combine them to use **device-id1** for all commands with device-id argument, **uploader-id1** for all commands with uploader-id argument except **upload**, and **uploader-id2** for the **upload** command:

```
[defaults]
device-id = "device-id1"
uploader-id = "uploader-id1"

[defaults.upload]
uploader-id = "uploader-id2"
```

#### THREE

#### **FILTERING**

#### 3.1 Metadata

Some gms commands allow filtering results based on song metadata (-f, --filter). The syntax is as follows:

- +field[value] to include filter condition.
- -field[value] to exclude filter condition.
- Multiple filters can be set in one call: -f +field[value] -f +field2[value2]
- Multiple conditions can be chained in one filter: +field[value]+field2[value2]-field3[value3].
- Values can be valid Python regex.
- Matching is done case-insensitively.
- For convenience, a single or first condition can leave off the +, but not -.

#### **Examples:**

- gms download -f 'artist[Beck]+album[Guero]-title[E-Pro]' would download all songs by Beck from the album Guero without E-Pro in the title.
- gms download -f 'artist[Beck]+album[Guero]-title[E-Pro]' -f 'artist[Daft Punk]' would download all songs by Beck from the album Guero without E-Pro in the title as well as all songs by Daft Punk.

#### 3.2 Dates

Some gms commands allow filtering results based on creation/modification times. The following options are available:

- --created-in/--modified-in to include results from year or year/month.
- --created-on/--modified-on to include results from date.
- --created-before/--modified-before to include results from before datetime.
- --created-after/--modified-after to include results from after datetime.

The format supported follows ISO 8061 with the abilility to use partial datetimes. A regex test is found here.

#### **Examples:**

- gms upload --created-in 2019 would upload files created in 2019.
- gms upload --created-in 2019-02 would upload files created in February 2019.

- gms download --created-on 2019-02-04 would download songs uploaded to Google Music on February 4th, 2019.
- gms download --created-before 2019 would download songs uploaded to Google Music before 2019 (i.e. 2018 or earlier).
- gms download --created-after '2019-02-04 12:00:00 would download songs uploaded to Google Music after 12 noon (UTC) on February 4th, 2019.
- gms delete --created-after '2019-02-04 12:00:00-05:00 would delete songs uploaded to Google Music after 12 noon (GMT-5:00) on February 4th, 2019.

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# **FOUR**

# **OUTPUT TEMPLATES**

The download command supports defining an output template. An output template uses patterns, as described below, to use values from metadata fields in the output. If a field for a pattern does not exist in the song, the pattern remains in the download filepath.

Pattern	Fields
%album%	• album
%albumartist%	<ul><li> albumartist</li><li> album_artist</li><li> albumArtist</li></ul>
%artist%	• artist
%date%	• date
%disc%	<ul><li> discnumber</li><li> disc_number</li><li> discNumber</li></ul>
%disc2%	<ul><li>discnumber</li><li>disc_number</li><li>discNumber</li><li>(zero-padded)</li></ul>
%discnumber%	<ul><li> discnumber</li><li> disc_number</li><li> discNumber</li></ul>
%discnumber2%	<ul><li>discnumber</li><li>disc_number</li><li>discNumber</li><li>(zero-padded)</li></ul>
%genre%	• genre
%title%	• title
%track%	<ul><li> tracknumber</li><li> track_number</li><li> trackNumber</li></ul>
%track2%	<ul><li> tracknumber</li><li> track_number</li><li> trackNumber</li><li> (zero-padded)</li></ul>
%tracknumber%	<ul><li> tracknumber</li><li> track_number</li><li> trackNumber</li></ul>
%tracknumber2%	tracknumber track_number trackNumber (zero-padded)

## **Examples:**

- %track% %title%
- %artist%/%album%/%track2% %title%

**FIVE** 

# TRANSCODING - FFMPEG/AVCONV

Non-MP3 files require ffmpeg or avconv to be in your PATH to transcode them to MP3 for upload

Google Music requires an audio sample be sent for most uploads. ffmpeg/avconv is used for this as well unless the -no-sample option is given. In this case, an empty audio sample is sent. If uploading MP3s, ffmpeg/avconv is not required with -no-sample.

# SIX

# **ALIASES**

Some commands have shorter aliases to limit the necessary typing in the terminal.

Command	Alias
delete	del
download	down
upload	up

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**SEVEN** 

# **COMMAND-LINE INTERFACE**

Use -h, --help to display the help for any command.

A collection of scripts to interact with Google Music.

# 7.1 Options

**-V, --version** Output version.

### 7.2 Commands

<command>

Possible choices: delete, del, download, down, quota, search, upload, up

### 7.3 Sub-commands:

### 7.3.1 delete (del)

Delete song(s) from Google Music.

gms delete [OPTIONS]

### **Options**

-V, --version

Output version.

#### **Action**

-n, --dry-run Output results without taking action.

**-y, --yes** Don't ask for confirmation.

#### Logging

-v, --verbose Increase verbosity of output.-q, --quiet Decrease verbosity of output.

**--debug** Output log messages from dependencies.

**--log-to-stdout** Log to stdout.

**--no-log-to-stdout** Don't log to stdout.

**--log-to-file** Log to file.

**--no-log-to-file** Don't log to file.

#### Identification

**-u, --username** Your Google username or e-mail address. Used to separate saved credentials.

**--device-id** A mobile device id.

#### **Filter**

**-f, --filter** Metadata filters. Can be specified multiple times.

**--created-in** Include items created in year or year/month.

**--created-on** Include items created on date.

--created-before Include items created before datetime.--created-after Include items created after datetime.

**--modified-in** Include items created in year or year/month.

**--modified-on** Include items created on date.

--modified-before Include items modified before datetime.--modified-after Include items modified after datetime.

#### 7.3.2 download (down)

Download song(s) from Google Music.

gms download [OPTIONS]

#### **Options**

**-V, --version** Output version.

#### **Action**

-n, --dry-run Output results without taking action.

#### Logging

-v, --verbose Increase verbosity of output.-q, --quiet Decrease verbosity of output.

**--debug** Output log messages from dependencies.

**--log-to-stdout** Log to stdout.

**--no-log-to-stdout** Don't log to stdout.

**--log-to-file** Log to file.

**--no-log-to-file** Don't log to file.

#### Identification

**-u, --username** Your Google username or e-mail address. Used to separate saved credentials.

**--uploader-id** A unique id given as a MAC address (e.g. '00:11:22:33:AA:BB'). This should

only be provided when the default does not work.

**--device-id** A mobile device id.

#### Local

**--no-recursion** Disable recursion when scanning for local files. Recursion is enabled by default.

**--max-depth** Set maximum depth of recursion when scanning for local files. Default is infinite

recursion.

-xp, --exclude-path Exclude filepaths. Can be specified multiple times.

-xr, --exclude-regex Exclude filepaths using regular expressions. Can be specified multiple times.

-xg, --exclude-glob Exclude filepaths using glob patterns. Can be specified multiple times. Absolute

glob patterns not supported.

7.3. Sub-commands:

#### **Filter**

-f, --filter Metadata filters. Can be specified multiple times.-created-in Include items created in year or year/month.

**--created-on** Include items created on date.

--created-before Include items created before datetime.--created-after Include items created after datetime.

**--modified-in** Include items created in year or year/month.

**--modified-on** Include items created on date.

--modified-before Include items modified before datetime.--modified-after Include items modified after datetime.

#### **Sync**

**--use-hash** Use audio hash to sync songs.

**--no-use-hash** Don't use audio hash to sync songs.

**--use-metadata** Use metadata to sync songs.

**--no-use-metadata** Don't use metadata to sync songs.

#### **Output**

**-0, --output** Output file or directory name which can include template patterns.

#### Include

**PATH** Local paths to include songs from.

#### 7.3.3 quota

Get the uploaded song count and allowance.

gms quota [OPTIONS]

#### **Options**

**-V, --version** Output version.

#### Logging

-v, --verbose Increase verbosity of output.-q, --quiet Decrease verbosity of output.

**--debug** Output log messages from dependencies.

**--log-to-stdout** Log to stdout.

**--no-log-to-stdout** Don't log to stdout.

**--log-to-file** Log to file.

**--no-log-to-file** Don't log to file.

#### Identification

**-u, --username** Your Google username or e-mail address. Used to separate saved credentials.

**--uploader-id** A unique id given as a MAC address (e.g. '00:11:22:33:AA:BB'). This should

only be provided when the default does not work.

#### 7.3.4 search

Search a Google Music library for songs.

gms search [OPTIONS]

#### **Options**

**-V, --version** Output version.

#### **Action**

**-y, --yes** Don't ask for confirmation.

#### Logging

-v, --verbose Increase verbosity of output.-q, --quiet Decrease verbosity of output.

**--debug** Output log messages from dependencies.

**--log-to-stdout** Log to stdout.

**--no-log-to-stdout** Don't log to stdout.

**--log-to-file** Log to file.

**--no-log-to-file** Don't log to file.

7.3. Sub-commands:

#### Identification

**--device-id** A mobile device id.

#### **Filter**

**-f, --filter** Metadata filters. Can be specified multiple times.

#### 7.3.5 upload (up)

Upload song(s) to Google Music.

gms upload [OPTIONS] [INCLUDE\_PATH]...

#### **Options**

**-V, --version** Output version.

#### **Action**

**-n, --dry-run** Output results without taking action.

#### Logging

-v, --verbose Increase verbosity of output.-q, --quiet Decrease verbosity of output.

**--debug** Output log messages from dependencies.

**--log-to-stdout** Log to stdout.

**--no-log-to-stdout** Don't log to stdout.

**--log-to-file** Log to file.

**--no-log-to-file** Don't log to file.

#### Identification

**-u, --username** Your Google username or e-mail address. Used to separate saved credentials.

**--uploader-id** A unique id given as a MAC address (e.g. '00:11:22:33:AA:BB'). This should

only be provided when the default does not work.

**--device-id** A mobile device id.

#### Local

**--no-recursion** Disable recursion when scanning for local files. Recursion is enabled by default.

**--max-depth** Set maximum depth of recursion when scanning for local files. Default is infinite

recursion.

-xp, --exclude-path Exclude filepaths. Can be specified multiple times.

-xr, --exclude-regex Exclude filepaths using regular expressions. Can be specified multiple times.

-xg, --exclude-glob Exclude filepaths using glob patterns. Can be specified multiple times. Absolute

glob patterns not supported.

#### **Filter**

**-f, --filter** Metadata filters. Can be specified multiple times.

**--created-in** Include items created in year or year/month.

**--created-on** Include items created on date.

--created-before Include items created before datetime.--created-after Include items created after datetime.

**--modified-in** Include items created in year or year/month.

**--modified-on** Include items created on date.

--modified-before Include items modified before datetime.--modified-after Include items modified after datetime.

#### **Misc**

**--delete-on-success** Delete successfully uploaded local files.

**--no-sample** Don't create audio sample with ffmpeg/avconv. Send empty audio sample.

**--album-art** Comma-separated list of album art filepaths. Can be relative filenames and/or

absolute filepaths.

#### **Sync**

**--use-hash** Use audio hash to sync songs.

**--no-use-hash** Don't use audio hash to sync songs.

**--use-metadata** Use metadata to sync songs.

**--no-use-metadata** Don't use metadata to sync songs.

7.3. Sub-commands: 21

#### Include

**PATH** 

Local paths to include songs from.