Music files for your home network.

Today we often use NAS, hard drives, media players, streamers and software that enable us to enjoy music.

However, all of this only works as well as the quality of the source material, and by that I don't mean the content or the recording of the music, but rather how carefully you prepare the files before you put them on the NAS and then read them into your media library.

There are a number of tools on the market. Things can even be done with onboard resources on the PC. After years of trying, I decided on MP3Tag.

https://www.mp3tag.de/ + http://hilfe.mp3tag.de/

I use a NAS as a storage medium, which makes the data available in the home network (LAN).Als Medien Bibliothek verwende ich <u>Roon</u>.

As always, the journey is the goal - only those who put effort into preparing their media will be rewarded in the end with a result that makes listening to music fun.



1 The Process

The general process is actually always the same - but can be variable.

A CD is ripped, edited, checked, stored on the NAS and can be used by a suitable media library

2 The Ripping

A CD ripper (sometimes also called an audio grabber) is software that uses a CD-ROM drive to read ("rip") audio data (usually music) from audio CDs and save it as an audio file. The process is also known as Digital Audio Extraction (DAE).

I won't go into this topic in more detail here. However, I recommend familiarizing yourself with it in more detail. Only cleanly ripped files promise the same listening pleasure as a CD.

Details can be found on Wikipedia or elsewhere on the Internet.

Many tools offer the option of ripping a CD into a usable format (FLAC, ALAC, MP3, etc.). The original is a WAV file on the CD. Of course you could also use this, as it corresponds to a 1:1 copy of the CD. The disadvantage of a WAV file is that the files cannot be tagged.

You can also leave the ripping to a machine that does the whole process automatically.

But then you have no control over it and have to trust that the machine will deliver the desired result.

Often there is still work to be done and checked. See step by step instructions.

3 MP3Tag

As mentioned at the beginning, I use free software for this named MP3Tag.

✓ Mp3tag × File Edit View Convert Actions Tag Sources Tools Help 💾 X 🗠 + 😢 🏙 🖆 🏠 📌 🖉 🔳 🔓 🤮 🎭 🍇 🍇 🌭 🍇 Aa + 🗹 🔮 🗈 🗟 🚔 🌖 🤤 + 🖉 Filename Taq Title Artist Album Track Year Genre Title: 01 Intro.mp3 ID3v2.4 Intro This Is All Yours Alt-J 1/14 2014 Alternative Rock Nara 02 Arrival in Nara.mp3 ID3v2.4 Arrival in Nara This Is All Yours 2/14 2014 Alt-J Alternative Rock Artist 03 Nara.mp3 ID3v2.4 Nara This Is All Yours 3/14 2014 Alternative Rock Alt-J Alt-J 04 Every Other Freckle.mp3 ID3v2.4 Every Other Freckle Alt-J This Is All Yours 4/14 2014 Alternative Rock Album 05 Left Hand Free.mp3 ID3v2.4 Left Hand Free Alt-J This Is All Yours 5/14 2014 Alternative Rock This Is All Yours 06 Garden Of England - Int... ID3v2.4 Garden Of England – Interlu... Alt-J This Is All Yours 6/14 2014 Alternative Rock Track 07 Choice Kingdom.mp3 ID3v2.4 Choice Kingdom 7/14 2014 Alt-J This Is All Yours Alternative Rock Alternative Rock 2014 × 3/14 Hunger Of The Pine 08 Hunger Of The Pine.mp3 ID3v2.4 This Is All Yours 8/14 2014 Alt-J Alternative Rock Comment: 09 Warm Foothills.mp3 ID3v2.4 Warm Foothills Alt-J This Is All Yours 9/14 2014 Alternative Rock 10 The Gospel of John Hurt... ID3v2.4 The Gospel of John Hurt Alt-I This Is All Yours 10/14 2014 Alternative Rock Directory: F:\Alt-J - This Is All Yours\ 11 Pusher.mp3 ID3v2.4 Pusher Alt-J This Is All Yours 11/14 2014 Alternative Rock 12 Bloodflood pt.II.mp3 ID3v2.4 Bloodflood pt.II This Is All Yours 12/14 2014 Alternative Rock Alt-J 13 Leaving Nara.mp3 ID3v2.4 Leaving Nara Alt-J This Is All Yours 13/14 2014 Alternative Rock Album Artist 14 Lovely Day (Bonus Track)... ID3v2.4 Lovely Day (Bonus Track) Alt-J This Is All Yours 14/14 2014 Alternative Rock Alt-J Compo Joe Newman/Gus Unger-Hamilton/Thom Green Discnu nage/jp 600x600 312 KB ont Cov Filter: / 1 (00:04:56 | 9.6MB) 14 (00:55:36 | 107.2MB)

The tool has countless possibilities to cleanly prepare your music.

3.1 Main Features

Batch Tag Bearbeitung Schreiben und Ändern von <u>ID3v1.1</u>, ID3v2.3, ID3v2.4, iTunes MP4, WMA, Batch Tag Editing Write ID3v1.1, ID3v2.3, ID3v2.4, MP4, WMA, APEv2 Tags and Vorbis Comments to multiple files at once.

Support for Cover Art Download and add album covers to your files and make your library even more shiny.

Import from Discogs, freedb, MusicBrainz Save typing and import tags from online databases like Discogs, freedb, MusicBrainz, and more.

Replace characters or words Replace strings in tags and filenames (with support for Regular Expressions).

Create Playlists automatically Create and manage playlists automatically while editing.

Rename files from tags Rename files based on the tag information and import tags from filenames.

Export to HTML, RTF, CSV Generate nice reports and lists of your collection based on user-defined templates.

Full Unicode Support User-interface and tagging are fully Unicode compliant.

Besides these main features Mp3tag offers a variety of other functions and features ranging from batch export of embedded album covers, over support for iTunes-specific tags like media type or TV Show settings, to combining multiple actions into groups that can be applied with a single mouse click.

¹ ID3 = Identify MP3 – Details findest Du <u>hier</u>

² MusikBrainz bietet auch die passenden Tools zum Taggen an.

3.2 Audio Formate

The following file formats (audio) are supported for editing.

Supported Audio Formats

Advanced Audio Coding (aac) Apple Lossless Audio Codec (alac) Audio Interchange File Format (aif / aifc / aiff) Direct Stream Digital Audio (dsf) Free Lossless Audio Codec (flac) Matroska (mka / mkv) Monkey's Audio (ape) Mpeg Layer 3 (mp3) MPEG-4 (mp4 / m4a / m4b / m4v / iTunes) Musepack (mpc) Ogg Vorbis (ogg) IETF Opus (opus) OptimFROG (ofr / ofs) Speex (spx) Tom's Audio Kompressor (tak) True Audio (tta) Windows Media Audio (wma) WavPack (wv) WAV (wav) WebM (webm)

4 Step-by-Step

Enough of the theory, let's turn to a practical example.

A CD looks like this on the PC. Of course	e you can't do much with that.
---	--------------------------------

erk (E:) Audio CD			
Name	Änderungsdatum	Тур	Größe
Momentan auf dem Dat	enträger vorhandene Dateien (20))	
🛓 Track01	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track02	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track03	01.01.1995 01:00	CDA Audio File (V	1 KB
📥 Track04	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track05	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track06	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track07	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track08	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track09	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track10	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track11	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track12	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track13	01.01.1995 01:00	CDA Audio File (V	1 KB
📤 Track14	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track15	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track16	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track17	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track18	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track19	01.01.1995 01:00	CDA Audio File (V	1 KB
🛓 Track20	01.01.1995 01:00	CDA Audio File (V	1 KB

4.1 Reading the files

I use the media player Foobar for the extraction process. This is because it combines countless possibilities in one product.

Open Audio CD	×
Found CD drives:	
(E:) BDDVDRW GGC-H20L (J:) CLONEDRIVE	
Drive settings Rip Play Add to play	dist

Here you can either listen to the CD or go straight into the RIP process.

Rip Audi	o CD				X
Album	info	rmation			
Name Artist Album Ti Disc Nun Genre Date Track i	tle nber n for	Value Boris Blank Electrified - CD 1 mation			
# 1 2 3 4 5 6 7	Title Elect The T Escal Cigar Key I Big B Futu	rified Time Tunnel pe Route rette Girl a.orgo eans re Past		Artist (VA)	
Inform Source:	with A	n lookup eedb 	Proceed Rip now us	Look to the Converter Setup dialo ing one of the existing press	up og ets:

For the most perfect copy possible, I use <u>AccurateRip</u> with EAC in the background.

But you can also use the <u>EAC</u> tool directly. This also works.

😔 Exact /	Audio Copy	- Unknown Artist /	/ Unknown Title											– 🗆 🗙
EAC Edit	Action	Database Tools He	elp											
HL-DT-STB	DDVDRW G	GC-H20L 1.03 Adapter:	1 ID: 0 V CD Title Un	known Title	Year			CD Composer						
			CD Artist	iknown Artist	Genre		~	Comment						
11	a 144	44 PP PH 🕇	😪 👻 CD Performer		freedb		~							
	Select/	Deselect all	Buit-in freedb engine											CD cover
🔊 WAU	Track	Title	CUETools DB Metadata Plugin V2.1	.6 Lyrics	Start	Length	Gap	Size	Compr. Size	Read CRC	Test CRC	CRC	Pre-	
×		Track01	freedb Metadata Plugin	Add	0:00:00.00	0:02:17.48	Unknown	23.15 MB	23.15 MB				_	
		Track02	GD3 Metadata Plucin	Add	0:02:17.48	0:05:12.15	Unknown	52.52 MB	52.52 MB					
CHP		Track03		Add	0:07:29.63	0:02:49.34	Unknown	28.50 MB	28.50 MB					
<u>\$</u>	∀ #4	Track04	Unknown Artist	Add	0:10:19.22	0:01:47.14	Unknown	18.03 MB	18.03 MB					
	Ø # 5	Track05	Unknown Artist	Add	0:12:06.36	0:03:01.06	Unknown	30.46 MB	30.46 MB					
	Ø € 6	Track06	Unknown Artist	Add	0:15:07.42	0:04:42.37	Unknown	47.52 MB	47.52 MB					
8	Ø # 7	Track07	Unknown Artist	Add	0:19:50.04	0:03:56.34	Unknown	39.77 MB	39.77 MB					
	V 🕫 8	Track08	Unknown Artist	Add	0:23:46.38	0:02:45.34	Unknown	27.83 MB	27.83 MB					
्रिके सिका	🗹 📢 9	Track09	Unknown Artist	Add	0:26:31.72	0:03:48.14	Unknown	38.38 MB	38.38 MB					Impere dimensione :
250	🗹 ≉ 10	Track10	Unknown Artist	Add	0:30:20.11	0:02:53.02	Unknown	29.10 MB	29.10 MB					Image dimensions
9	🗹 🚅 11	Track11	Unknown Artist	Add	0:33:13.13	0:03:56.30	Unknown	39.76 MB	39.76 MB					
	12	Track12	Unknown Artist	Add	0:37:09.43	0:04:14.48	Unknown	42.83 MB	42.83 MB					First track number : 1
	🗹 🎜 13	Track13	Unknown Artist	Add	0:41:24.16	0:03:01.58	Unknown	30.57 MB	30.57 MB					Continue from last track or mbor
	2 🕫 14	Track14	Unknown Artist	Add	0:44:25.74	0:01:46.41	Unknown	17.92 MB	17.92 MB					S Continue nonniast track noniber
	🗹 ≉ 15	Track15	Unknown Artist	Add	0:46:12.40	0:02:09.44	Unknown	21.80 MB	21.80 MB					N
	🗹 🚅 16	Track16	Unknown Artist	Add	0:48:22.09	0:02:12.58	Unknown	22.33 MB	22.33 MB					Number of CDs
	✓ # 17	Track17	Unknown Artist	Add	0:50:34.67	0:04:18.50	Unknown	43.51 MB	43.51 MB				_	CD Number 1
	2 🕫 18	Track18	Unknown Artist	Add	0:54:53.42	0:02:40.27	Unknown	26.97 MB	26.97 MB					
	🗹 🎜 19	Track19	Unknown Artist	Add	0:57:33.69	0:03:28.38	Unknown	35.07 MB	35.07 MB				_	
	20	Track20	Unknown Artist	Add	1:01:02.32	0:04:03.27	Unknown	40.94 MB	40.94 MB					
	<												>	
	7												. 🦦	
Audio CD ir	n drive	20 Tracks	1:05:05.59 h:m:s.f 657.06 MB /	657.06 MB		~	/ Load S	ave New	Delete					

CTDB Metadata Lookup

2014: Boris Blank - Electrified (disc 1/2:) (D EAC Ed	t Action	Database Tools He	lp	
HL-DT-STE	BDDVDRW G	GC-H20L 1.03 Adapter:	1 ID: 0 🗸 🗸	CD Title Electrifi
► II	а ні	4 14 M =	⊛ • چ	CD Artist Boris Bl CD Performer
	Select/	Deselect all		
(in 1997) (in 19	Track	Title	Artist	Composer
	Ø # 1	Electrified	Boris Blank	
	Ø # 2	The Time Tunnel	Boris Blank	
	🗹 📢 3	Escape Route	Boris Blank	
	🗹 🎜 4	Cigarette Girl	Boris Blank	
	Ø # 5	Key Largo	Boris Blank	
IMG	Ø #€ 6	Big Beans	Boris Blank	
	Ø 🕫 7	Future Past	Boris Blank	
	2 🕫 8	Random Tox	Boris Blank	
C. 101	Ø # 9	Midnight Processi	Boris Blank	
	🗹 🚅 10	Fat Roller	Boris Blank	
	🗹 🚅 11	Body Electric	Boris Blank	
	2 12	Elektro Kabinet	Boris Blank	
	🗹 🎜 13	She's Got Balls	Boris Blank	
	🗹 🕫 14	Bosphorus	Boris Blank	
	🗹 🚅 15	Big City Grill	Boris Blank	
	🗹 🕫 16	You Can Have It	Boris Blank	
	17	Inner Mountain	Boris Blank	
	18	Lost Languages	Boris Blank	
	🗹 🚅 19	Cult of Mirrors	Boris Blank	
	🗹 🚅 20	Night Train	Boris Blank	

We verify a first album, And rip it.

The first Tags are now filled out.

Now I rip the files directly into FLAC format.

Converter Setup			?	×
Overview				
Saved presets		Current settings		
[default] [last used] FLAC-0 Flac-0-same MP3-320		Output format Format: FLAC, level 0. Destination		
	Load >>	Output to source track folder. File name pattern: %tracknumber% - [%]]%title%	%artist%	% -
	<<	None.		
		Other When finished: * Transfer tags and attached pictures.		
Right-click for additional options.		Convert	Cance	1

The parameters should be checked and set beforehand.

Converter Setup	? ×
Choose destination	
Output path OAsk me later (useful for saving presets) Source track folder G:RIP (will be created if it doesn't exist)	If file already exists Ask Skip Overwrite
Output style and file name formatting	
Convert each track to an individual file Name format:	
%tracknumber% - [%artist% -]%title%	
O Generate multi-track files Name format & grouping pattern: [%album artist% -]%album%	
O Merge all tracks into one output file	
Preview:	
01 - Boris Blank - Electrified.flac 02 - Boris Blank - The Time Tunnel.flac	^
03 - Boris Blank - Escape Route.flac	
04 - Boris Blank - Cigarette Girl.flac	
05 - Boris Blank - Ney Largo, flac 06 - Boris Blank - Bin Beans, flac	~
	Back Cancel

The files will now be extracted

Converting		×	(
Source:	;dda://0268EEE5		
Destination:	G:\RIP\02 - Boris Blank - The Time Tunnel.flac		
Time elapse	ed: 0:14, estimated: 6:21, speed: 10.85x	Show output tracks when done Pause Abort	

<N/A> level 0

4.2 Check

Before further editing, you should play the files briefly. This way you can be sure that everything went well. If you are not satisfied, repeat the process or use another tool.

· RIP >				
Name	Änderungsdatum	Тур	Größe	Erstelldatum
😰 18 - Boris Blank - Lost Languages	06.10.2019 15:05	FLAC	17'074 KB	06.10.2019 15:05
💟 17 - Boris Blank - Inner Mountain	06.10.2019 15:05	FLAC	25'367 KB	06.10.2019 15:05
🔯 16 - Boris Blank - You Can Have It	06.10.2019 15:05	FLAC	13'402 KB	06.10.2019 15:05
💟 15 - Boris Blank - Big City Grill	06.10.2019 15:05	FLAC	13'942 KB	06.10.2019 15:04
💟 14 - Boris Blank - Bosphorus	06.10.2019 15:04	FLAC	11'362 KB	06.10.2019 15:04
💟 13 - Boris Blank - She's Got Balls	06.10.2019 15:04	FLAC	18'860 KB	06.10.2019 15:04
💟 12 - Boris Blank - Elektro Kabinet	06.10.2019 15:04	FLAC	26'150 KB	06.10.2019 15:04
💟 11 - Boris Blank - Body Electric	06.10.2019 15:04	FLAC	29'560 KB	06.10.2019 15:04
💟 10 - Boris Blank - Fat Roller	06.10.2019 15:04	FLAC	20'476 KB	06.10.2019 15:04
😨 09 - Boris Blank - Midnight Procession	06.10.2019 15:04	FLAC	22'513 KB	06.10.2019 15:04
💟 08 - Boris Blank - Random Tox	06.10.2019 15:04	FLAC	20'055 KB	06.10.2019 15:04
💟 07 - Boris Blank - Future Past	06.10.2019 15:03	FLAC	26'278 KB	06.10.2019 15:03
😵 06 - Boris Blank - Big Beans	06.10.2019 15:03	FLAC	31'865 KB	06.10.2019 15:03
💟 05 - Boris Blank - Key Largo	06.10.2019 15:03	FLAC	20'287 KB	06.10.2019 15:03
🔯 04 - Boris Blank - Cigarette Girl	06.10.2019 15:03	FLAC	12'668 KB	06.10.2019 15:03
😨 03 - Boris Blank - Escape Route	06.10.2019 15:03	FLAC	19'539 KB	06.10.2019 15:03
💟 02 - Boris Blank - The Time Tunnel	06.10.2019 15:03	FLAC	33'682 KB	06.10.2019 15:02
💟 01 - Boris Blank - Electrified	06.10.2019 15:02	FLAC	15'264 KB	06.10.2019 15:02

4.3 Edit

Now we first create a folder where we can save the files.

When it comes to naming, I stick to my own standard - everyone can do it however they want.

📙 Boris Blank - Electrified (2014) [00602547081780] 👗

Artist – AlbumName (year) [further information of the CD, like EAN Code, Version etc]

I will briefly discuss the topic of storage later in the chapter.

RIP > Boris Blank - Electrified (2014) [0060254	7081780]		
Name	Änderungsdatum	Тур	Größe
💟 01 - Boris Blank - Electrified	06.10.2019 15:02	FLAC	15'264 KB
💟 02 - Boris Blank - The Time Tunnel	06.10.2019 15:03	FLAC	33'682 KB
💟 03 - Boris Blank - Escape Route	06.10.2019 15:03	FLAC	19'539 KB
🔯 04 - Boris Blank - Cigarette Girl	06.10.2019 15:03	FLAC	12'668 KB
💟 05 - Boris Blank - Key Largo	06.10.2019 15:03	FLAC	20'287 KB
💟 06 - Boris Blank - Big Beans	06.10.2019 15:03	FLAC	31'865 KB
💟 07 - Boris Blank - Future Past	06.10.2019 15:03	FLAC	26'278 KB
🔯 08 - Boris Blank - Random Tox	06.10.2019 15:04	FLAC	20'055 KB
😺 09 - Boris Blank - Midnight Procession	06.10.2019 15:04	FLAC	22'513 KB
😺 10 - Boris Blank - Fat Roller	06.10.2019 15:04	FLAC	20'476 KB
💟 11 - Boris Blank - Body Electric	06.10.2019 15:04	FLAC	29'560 KB
💟 12 - Boris Blank - Elektro Kabinet	06.10.2019 15:04	FLAC	26'150 KB
🔯 13 - Boris Blank - She's Got Balls	06.10.2019 15:04	FLAC	18'860 KB
🔯 14 - Boris Blank - Bosphorus	06.10.2019 15:04	FLAC	11'362 KB
🐯 15 - Boris Blank - Big City Grill	06.10.2019 15:05	FLAC	13'942 KB
💟 16 - Boris Blank - You Can Have It	06.10.2019 15:05	FLAC	13'402 KB
💟 17 - Boris Blank - Inner Mountain	06.10.2019 15:05	FLAC	25'367 KB
😺 18 - Boris Blank - Lost Languages	06.10.2019 15:05	FLAC	17'074 KB
😺 19 - Boris Blank - Cult Of Mirrors	06.10.2019 15:05	FLAC	23'546 KB
💟 20 - Boris Blank - Night Train	06.10.2019 15:05	FLAC	28'712 KB

By right-clicking on the folder we can start the installed MP3Tag program.

	Öffnen
	In neuem Fenster öffnen
	An Schnellzugriff anheften
)	MediaInfo
0	Auf Viren untersuchen
0	Reputation in KSN ansehen
0	Kaspersky Application Advisor
	Mp3tag
	Zugriff gewähren auf
	Vorgängerversionen wiederherstellen
	In Bibliothek aufnehmen >
	A 100 10 1 0

✓ Mp3tag v2.97 - G:\DEMO\Boris Blank - Electrified (2014) [00602547081	1780]\											- 0	×
Datei Bearbeiten Ansicht Konverter Aktionen Tag-Quellen Extra	as Hilfe												
📙 🗙 🗠 + 🗠 😬 🗠 🛧 🌮 📄 🖶 🖕 📞 🛯	💺 📞 🗛 🗛 🗸 📔	1 🔮 🗈 🗈 🛓	ä 🌖 🍕	> -	ر کر								
×	Dateiname		CD-N	Т	Album	Interpret	Jahr	Län	Titel	Bitrate	Frequenz	Tag	Mode
Titel:	👽 01 - Boris Blank - El	ectrified.flac		1	Electrified - CD 1	Boris Blank		02:18	Electrified	906 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
< beibehalten > V	👽 02 - Boris Blank - Th	ne Time Tunnel.flac		2	Electrified - CD 1	Boris Blank		05:12	The Time Tunnel	885 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Interpret:	😨 03 - Boris Blank - Es	cape Route.flac		3	Electrified - CD 1	Boris Blank		02:49	Escape Route	947 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Boris Blank V	😵 04 - Boris Blank - Ci	igarette Girl.flac		- 4	Electrified - CD 1	Boris Blank		01:47	Cigarette Girl	970 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Album	💟 05 - Boris Blank - Ke	ey Largo.flac		5	Electrified - CD 1	Boris Blank		03:01	Key Largo	918 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Flottified CD 1	😺 06 - Boris Blank - Bi	g Beans.flac		6	Electrified - CD 1	Boris Blank		04:42	Big Beans	926 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
electrified - CD 1	💆 07 - Boris Blank - Fu	uture Past.flac		7	Electrified - CD 1	Boris Blank		03:56	Future Past	912 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Jahr: Track: K Genre:	💆 08 - Boris Blank - Ra	andom Tox.flac		8	Electrified - CD 1	Boris Blank		02:45	Random Tox	996 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
✓ < beibehalten ✓ ✓ ✓	👽 09 - Boris Blank - M	lidnight Procession		9	Electrified - CD 1	Boris Blank		03:48	Midnight Procession	809 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Kommentar:	💆 10 - Boris Blank - Fa	it Roller.flac		10	Electrified - CD 1	Boris Blank		02:53	Fat Roller	970 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
	💟 11 - Boris Blank - Bo	ody Electric.flac		11	Electrified - CD 1	Boris Blank		03:56	Body Electric	1026 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Original Jahr CD-Nummer	12 - Boris Blank - El	ektro Kabinet.flac		12	Electrified - CD 1	Boris Blank		04:15	Elektro Kabinet	840 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
	13 - Boris Blank - Sh	ne's Got Balls.flac		13	Electrified - CD 1	Boris Blank		03:02	She's Got Balls	849 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
	14 - Boris Blank - Bo 15 Diale Di	osphorus.flac		14	Electrified - CD 1	Boris Blank		01:47	Bosphorus	870 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Album-Interpret	15 - Boris Blank - Bi 15 - Devis Blank - Bi	g City Grillitiac		15	Electrified - CD 1	Boris Blank		02:10	Big City Grill	878 KBIT/S	44100 Hz	FLAC (FLAC)	Stereo
Ŭ Ŭ	10 - Boris Blank - H	ou can mave it nac		17	Electrified - CD 1	Doris Diarik Desis Diarik		04:10	You can nave it	020 KDIUS 000 LDia/a	44100 Hz	FLAC (FLAC)	Stereo
Komponist	19 - Boris Blank - In	ner wountain.nac		10	Electrified - CD 1	Poris Plank		02.40	Lost Languages	003 KBIUS	44100 Hz	FLAC (FLAC)	Stereo
✓	10 - Boris Blank - Co	ult Of Mirrors flac		10	Electrified - CD 1	Boris Blank		03-20	Cult Of Mirrors	074 KDIUS	44100 Hz	FLAC (FLAC)	Stereo
Dirigent	20 - Boris Blank - Ni	ight Train flac		20	Electrified - CD 1	Boris Blank		04-03	Night Train	968 kBit/s	44100 Hz		Stereo
		ight hommoc			Electrified CD I	Don's blank		0.1100	rught hum	200 1010 2	44100112	(Lene)	Stereo
Orchester								_					
DJ oder Remixer													
×													
MUSICBRAINZ_ARTISTID													
~													
MUSICBRAINZ_ALBUMID													
v													
· · · ·	<												>
*													
Filter:													~ •
Bereit									2	0 (01:05:05 4	20.5MB) 2	0 (01:05:05 42	0.5MB)

The representation in MP3Tag may differ from that shown without adjustments in the program.

I'll display the points that are most important to me here. (The album cover is not in the picture below left).

4.3.1 Discogs – find the correct album

Before we move on, let's go to the <u>Discogs site</u> and look for the correct CD from the artist. The

easiest way to do this is to use the artist search

Discon	S	Boris blan			Q
		Everything	Releases	Artists	Labels
Übersicht	Samml	Boris Bla Artist	ank		0

We find our album and see that there are 11 versions³ of it worldwide.

Discogs	Suche	ach Interpreten, Alben und mehr Q Stöbern • Marktplatz • Community •	ান	🛛 34 👻 🔻
	Bor	s Blank	Künstler	(a17168)
	Profil:	Swiss artist and musician, born 15 January 1952 in Zurich, Switzerland.	Interpret bearbeiten	
1 3 1	Grupp	en: Tranceonic, Yello	😂 Teilen	
	Variar	Alle werden angezeigt Boris Blank	Marktolatz	15.963 zum Verkau
		A. Blank, B. Blank, B. Blank, B. Black, B. Blank, B. Blanks, B. Boris, B. Blank, Blank, Bori Blank, Boris B. Blank, Bi Blanc, Boris Blank (Yello), D. Blank, Plank	oris	13.203 Luin Verkau
-Diskographie	Titel Buc	er 1 – 8 von 8 Sortieren Jat	hr, 9-0 v Anzeigen 25 v	
-Diskographie	Titel Buc	er 1 – 8 von 8 Sortieren Jak Albums	hr, 9-0 ~ Anzeigen 25 ~	
-Diskographie 1 Search Releases Albums	Titel Buc Q a 2	er 1 - 8 von 8 Sortieren Jal Albums Malta Boris Bank - Conversence i et ti versionen Universit Musici International / Jazz	hr, 9-0 v Anzeigen 25 v	
-Diskographie 1 Search Releases Albums Singles & EPs	Titel Buc Q 2 4	er 1 - 8 von 8 Sortieren Jal Albums Malia, Boris Blank - Convergence + 11 versionen Universal Music International / Jazz	hr, 9-0 v Anzeigen 25 v	• •
-Diskographie 1 Search Roleases Abums Singles & EPs Miscellaneous	Titel Buc Q e 2 4 2	1 - 8 von 8 Sortieren Jal Albums Malta, Boris Blank - Convergence + 11 versionen Universal Music International / Jazz	hr, 9-0 v Anzeigen 25 v 2013	

³ That is, among other things, the reason why I am taking this intermediate step.





It's even easier with the EAN code.



Then we found the right album version.



Now we copy the Discogs Release ID to the clipboard. It can be copied directly from the URL





Boris Blank – Electrified

Label:	Polydor – 4708178
Format:	2 × CD, Album
	DVD, DVD-Video, Limited Edition
Land:	UK & Europe
Veröffentlicht:	2014
Genre:	Electronic
Stil:	Experimental, Synth-pop

Mehr Bilder

We switch back to the MP3TAG program

First, mark the files (green arrow, right) with CTRL+A .

♦ Mp3tag v2.97 - G\DEMO\Boris Blank - Electrified (2014) (00602547081780)\							- 0	×					
Datei Bearbeiten Ansicht Konverter Aktionen Tag-Quellen Ex	ras Hilfe												
💾 🗙 🗠 🗉 📴 🏫 🛠 🎜 🔳 🖨 🗳 📞 🗞	💺 📞 🗛 🗛 🗸	· 📝 🔮 🗈 🖬	# 🧐	-	رکل								
×	Dateiname		CD-N	T	Album	Interpret	Jahr	Län	Titel	Bitrate	Frequenz	Tag	Mode
Titel:	👽 01 - Boris Blank	- Electrified.flac		1	Electrified - CD 1	Boris Blank		02:18	Electrified	906 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
< beibehalten > v	02 - Boris Blank	- The Time Tunnel.flac		2	Electrified - CD 1	Boris Blank		05:12	The Time Tunnel	885 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Interpret:	👿 03 - Boris Blank	- Escape Route.flac		3	Electrified - CD 1	Boris Blank		02:49	Escape Route	947 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Boris Blank ~	🔯 04 - Boris Blank	- Cigarette Girl.flac		4	Electrified - CD 1	Boris Blank		01:47	Cigarette Girl	970 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Album	💆 05 - Boris Blank	- Key Largo.flac		5	Electrified - CD 1	Boris Blank		03:01	Key Largo	918 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Electrified - CD 1	06 - Boris Blank	- Big Beans.flac		6	Electrified - CD 1	Boris Blank		04:42	Big Beans	926 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
	07 - Boris Blank	- Future Past.flac		7	Electrified - CD 1	Boris Blank		03:56	Future Past	912 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Jahr: Irack: Genre:	08 - Boris Blank	- Random Tox.flac		8	Electrified - CD 1	Boris Blank		02:45	Random Tox	996 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Seibehalten v	09 - Boris Blank	- Midnight Procession		9	Electrified - CD 1	Boris Blank		03:48	Midnight Procession	809 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Kommentar:	10 - Boris Blank	- Fat Koller.flac		10	Electrified - CD 1	Boris Blank		02:53	Fat Koller	970 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
~ ·	11 - Boris Blank	- Body Electricitiac		11	Electrified - CD 1	Boris Blank		03:50	Body Electric	1020 KBit/s	44100 Hz	FLAC (FLAC)	Stereo
Original Jahr CD-Nummer	12 - Boris Blank	She's Got Palls flag		12	Electrified - CD 1	Poris Plank		02:02	She's Got Palls	040 kBit/s	44100 Hz	FLAC (FLAC)	Storeo
	14 - Boris Blank	- Bosnhorus flac		14	Electrified - CD 1	Boris Blank		01.47	Bosphorus	870 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Album-Interpret	15 - Boris Blank	- Big City Grill flac		15	Electrified - CD 1	Boris Blank		02:10	Big City Grill	878 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
×	16 - Boris Blank	- You Can Have It.flac		16	Electrified - CD 1	Boris Blank		02:13	You Can Have It	825 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Kennedat 🐂	👿 17 - Boris Blank	- Inner Mountain.flac		17	Electrified - CD 1	Boris Blank		04:19	Inner Mountain	803 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Komponist	👿 18 - Boris Blank	- Lost Languages.flac		18	Electrified - CD 1	Boris Blank		02:40	Lost Languages	874 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Ŭ	👿 19 - Boris Blank	- Cult Of Mirrors.flac		19	Electrified - CD 1	Boris Blank		03:29	Cult Of Mirrors	923 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Dirigent	💟 20 - Boris Blank	- Night Train.flac		20	Electrified - CD 1	Boris Blank		04:03	Night Train	968 kBit/s	44100 Hz	FLAC (FLAC)	Stereo
Orchester													
DJ oder Remixer													
×													
MUCICIPRAINIZ ADTICTIO													
MOSICBRAINZ_ARTISTID	-									•			
MUSICBRAINZ_ALBUMID													
· · · · · ·	<												>
×													
Filter:													~ •
Bereit									2	0 (01:05:05 4	20.5MB) 2	0 (01:05:05 42	0.5MB)

At the green arrow on the left you can see that the album name including CD number is there. Of course we don't want that.

So we are looking for the right album with the Discogs Release ID function.



In the opened dialog window, we copy the ID from Discogs and click Next.

535413	6					
	[Weiter >	Abbrech	en		
ris Blank -	Electrified					
ipassen o	der ermittelten Inform	ationen	- 7usitelisha Iafa	mationan		Course
nterpret	Boris Blank		News	mauurien	West	Cover
nerpret			Name Discocs pri	FACE ID	spearlos	
lbum	Electrified		DISCOGS_REL	EASE_ID	0304130	
ahr	2014				Polydor	
	[] a share is		MEDIATYPE		CD (Album)DVD (DVD-Video Limited Edition	
ienre	Electronic	~	STYLE		Experimental, Synth-pop	(Õ)
ommentar	•		COUNTRY		UK & Europe	
			<			> 600x547, 53 KB
Track 1	Title Electrified	Discnumber 1	^	Länge 02:18	Dateiname 01 - Boris Blank - Electrified.flac	Nach oben
2	The Time Tunnel	1		05:12	02 - Boris Blank - The Time Tunnel.flac	Nach unten
3	Escape Route	1		02:49	03 - Boris Blank - Escape Route.flac	
4	Cigarette Girl	1		01:47	04 - Boris Blank - Cigarette Girl.flac	
5	Key Largo	1		03:01	05 - Boris Blank - Key Largo.flac	
6	Big Beans	1		04:42	06 - Boris Blank - Big Beans.flac	
7	Future Past	1		03:56	07 - Boris Blank - Future Past.flac	
8	Random Tox	1		02:45	08 - Boris Blank - Random Tox.flac	
9	Midnight Procession	1		03:48	09 - Boris Blank - Midnight Procession.flac	
10	Fat Koller Rody Electric	1		02:53	IU - Boris Blank - Fat Koller, flac	
12	Elektro Kabinet	1		04:15	12 - Boris Blank - Elektro Kabinet flac	
13	She's Got Balls	1		03:02	13 - Boris Blank - She's Got Balls flag	
14	Bosphorus	1		01:47	14 - Boris Blank - Bosphorus,flac	
15	Big City Grill	1		02:10	15 - Boris Blank - Big City Grill.flac	
16	You Can Have It	1		02:13	16 - Boris Blank - You Can Have It.flac	
17	Inner Mountain	1		04:19	17 - Boris Blank - Inner Mountain.flac	
18	Lost Languages	1		02:40	18 - Boris Blank - Lost Languages.flac	
		1		03:29	19 - Boris Blank - Cult Of Mirrors.flac	
19	Cult Of Mirrors		~			

Album is now correct, CD number is in the correct field, and there is a cover.

Datei Rearbeiten Ansicht Konverter Aktionen Tan-Ouellen R	Futras Hilfe						
		111 🖨 🤐 🖌 🖆					
			Internet Inter	Line That	Photo Francisco Tra	Mada Carro	Allow Internet Mind
Titel	Dateiname	CD-IN T Album	Interpret Jahr	Can litel	bitrate Frequenz lag	Mode Genre	Album-interpret Prad
<pre>second control co</pre>	O1 - Bons Blank - Electrined.risc O2 - Resiz Plank - The Time Tunned flag	1 1 Electrified	Boris Blank 2014 Revis Blank 2014	02:16 Electrified	205 LBAC ANDO HE FLAC (FLAC)	Stereo Electronic	GUDEMO Bons Blank -
Laborat	O3 - Boris Blank - Escane Route flac	1 3 Electrified	Boris Blank 2014	02:49 Escane Route	947 kBit/s 44100 Hz FLAC (FLAC)	Steren Electronic	G\DEMO\Boris Blank -
Interpret:	04 - Boris Blank - Cinarette Girl flac	1 4 Electrified	Boris Blank 2014	01:47 Cinarette Girl	970 kBit/s 44100 Hz FLAC (FLAC)	Steren Flertronic	G\DEMO\Boris Blank -
Bouz Brauk ~	05 - Boris Blank - Key Largo flac	1 5 Electrified	Boris Blank 2014	03:01 Key Largo	918 kBit/s 44100 Hz FLAC (FLAC)	Stereo Electronic	G(DEMO)Boris Blank
Album:	06 - Boris Blank - Big Beans.flac	1 6 Electrified	Boris Blank 2014	04:42 Big Beans	926 kBit/s 44100 Hz FLAC (FLAC	Stereo Electronic	G:\DEMO\Boris Blank -
Electrified	07 - Boris Blank - Future Past.flac	1 7 Electrified	Boris Blank 2014	03:56 Future Past	912 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank
Jahr: Track: Genre:	😨 08 - Boris Blank - Random Tox.flac	1 8 Electrified	Boris Blank 2014	02:45 Random Tox	996 kBit/s 44100 Hz FLAC (FLAC)	Stereo Electronic	G:\DEMO\Boris Blank
2014 v < bubbhalten > v Electronic v	2 09 - Boris Blank - Midnight Procession	1 9 Electrified	Boris Blank 2014	03:48 Midnight Procession	809 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank
Kommentar	10 - Boris Blank - Fat Roller.flac	1 10 Electrified	Boris Blank 2014	02:53 Fat Roller	970 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank
	11 - Boris Blank - Body Electric.flac	1 11 Electrified	Boris Blank 2014	03:56 Body Electric	1026 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank
	12 - Boris Blank - Elektro Kabinet.flac	1 12 Electrified	Boris Blank 2014	04:15 Elektro Kabinet	840 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank -
Unginal Jahr CD-IVUmmer	13 - Boris Blank - She's Got Balls.flac	1 13 Electrified	Boris Blank 2014	03:02 She's Got Balls	849 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank
	14 - Boris Blank - Bosphorus.flac	1 14 Electrified	Boris Blank 2014	01:47 Bosphorus	870 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank
Album-Interpret	15 - Boris Blank - Big City Grill.flac	1 15 Electrified	Boris Blank 2014	02:10 Big City Grill	878 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank
, v	16 - Boris Blank - You Can Have It.flac	1 16 Electrified	Boris Blank 2014	02:13 You Can Have It	825 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank
Komponist	17 - Boris Blank - Inner Mountain.flac	1 17 Electrified	Boris Blank 2014	04:19 Inner Mountain	803 kBit/s 44100 Hz FLAC (FLAC)	Stereo Electronic	G:\DEMO\Boris Blank
, v	18 - Boris Blank - Lost Languages.flac	1 18 Electrified	Boris Blank 2014	02:40 Lost Languages	874 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank
Dirigent	19 - Boris Blank - Cult Of Mirrors.flac	1 19 Electrified	Boris Blank 2014	03:29 Cult Of Mirrors	923 kBit/s 44100 Hz FLAC (FLAC)) Stereo Electronic	G:\DEMO\Boris Blank -
ville	20 - Bons Blank - Night Irain.flac	1 20 Electrified	Bons Blank 2014	04:03 Night Irain	968 KBR/S 44100 HZ FEAC (FEAC)) stereo Electronic	G:\DEMU\Bons Blank -
Orchester							
ľ ľ							
DJ oder Remixer							
v v							
MUSICBRAINZ_ARTISTID							
v v							
MUSICERAINZ ALBUMD							
image/jpeg							
600x547							
Si KB							
Prove Cover							
HOBIS BLANK							
10							
st and the second							
A CONTRACT OF THE OWNER							
	<						>
Filter:							v •
Bereit							20 (01:05:05 421.4MB) 20 (01:05:05 420.5MB)

We save the result with CTRL + S.

4.3.2 Useful for tagging

I also copy the artist into the album artist field. Sometimes media libraries have trouble assigning the fields. Album Artists Field can also be use for Compilations by adding Various artists.

Album-Interpret	
Boris Blank	~

With MP3Tag you can also adjust the spelling, data of the files, etc. using conversion.



So adapt the files according to criteria - or vice versa, use files as a basis for tagging.

I recommend the Discogs method because it provides the most reliable results.

4.4 Storage

Anyone who stores their data on a NAS should first consider the criteria according to which they want to store the data.

For media libraries, you could simply put the files in a folder, but it would be difficult to find the data afterwards.

You should make a structure

I use different programs myself and would therefore like to be able to read everything or just individual folders. I decided on the following structure.

Alben	18.07.2019 16:29	Dateiordner	29.04.2013 18:15
📙 Jazz-Blues-Tango	16.11.2015 21:43	Dateiordner	08.02.2014 00:15
- Klassik	22.08.2015 10:35	Dateiordner	08.02.2014 00:05
Sampler	14.12.2016 19:30	Dateiordner	26.01.2014 15:00
Soundtrack	12.07.2019 01:12	Dateiordner	21.03.2014 19:00

It comes from a time when I didn't have a Roon. Today I would probably just create an album and samplers (compilations) - maybe this will be adjusted at some point.

4.4.1 Album

For larger collections, it is advisable to create an intermediate structure here. I basically save the data by read name.

Possible variants: Beatles, The / The Beatles – for me you would find it under T, not B – up to you



VIVIEDIA	ASTATION) (R:) > Alben > b >				
^	Name	Änderungsdatum	Тур	Größe	Erstelldatum
	📙 Boris Blank	06.10.2019 15:54	Dateiordner		06.10.2019 15:54
	- · · · ·	00.00.0040.40.00	BAR AND A		20.01.0010.10.50

Here I stored the Example album

For albums with more than 1	CD, I create sub	folders.
-----------------------------	------------------	----------

STATION) (R:) > Alben > B > Boris Blank > Boris Blank - Electrified (2014) [00602547081780] > CD1							
Name	Änderungsdatum	Тур	Größe				
👽 01 - Boris Blank - Electrified	06.10.2019 15:39	FLAC	15'314 KB				
💟 02 - Boris Blank - The Time Tunnel	06.10.2019 15:39	FLAC	33'732 KB				
😨 03 - Boris Blank - Escape Route	06.10.2019 15:39	FLAC	19'588 KB				
😺 04 - Boris Blank - Cigarette Girl	06.10.2019 15:39	FLAC	12'717 KB				
😨 05 - Boris Blank - Key Largo	06.10.2019 15:39	FLAC	20'337 KB				
😺 06 - Boris Blank - Big Beans	06.10.2019 15:39	FLAC	31'914 KB				
😨 07 - Boris Blank - Future Past	06.10.2019 15:39	FLAC	26'328 KB				
😨 08 - Boris Blank - Random Tox	06.10.2019 15:39	FLAC	20'105 KB				
😨 09 - Boris Blank - Midnight Procession	06.10.2019 15:39	FLAC	22'563 KB				
😨 10 - Boris Blank - Fat Roller	06.10.2019 15:39	FLAC	20'526 KB				
😨 11 - Boris Blank - Body Electric	06.10.2019 15:39	FLAC	29'609 KB				
😨 12 - Boris Blank - Elektro Kabinet	06.10.2019 15:39	FLAC	26'200 KB				
😨 13 - Boris Blank - She's Got Balls	06.10.2019 15:39	FLAC	18'910 KB				
😨 14 - Boris Blank - Bosphorus	06.10.2019 15:39	FLAC	11'411 KB				
😨 15 - Boris Blank - Big City Grill	06.10.2019 15:39	FLAC	13'991 KB				
😨 16 - Boris Blank - You Can Have It	06.10.2019 15:39	FLAC	13'451 KB				
😨 17 - Boris Blank - Inner Mountain	06.10.2019 15:39	FLAC	25'417 KB				
😨 18 - Boris Blank - Lost Languages	06.10.2019 15:39	FLAC	17'124 KB				
😨 19 - Boris Blank - Cult Of Mirrors	06.10.2019 15:39	FLAC	23'596 KB				
😨 20 - Boris Blank - Night Train	06.10.2019 15:39	FLAC	28'761 KB				

5 The Way to Music

Only with properly tagged music can the players/servers (e.g. Roon) get started right away.



Wish you happy listening to music.

Your Adi / 6.10.2019 / translated 12.5.2024