COLLABORATORS			
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Chapter 1

AlgoMusic

1.1 Welcome to the AlgoMusic documentation

AlgoMusic V2.3

(C) 03.12.97 by Thomas Schürger

A nice algorithmic song player for House/Techno-style music

Giftware

Contents

Copyright

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Future Wanted Credits Support ~ Author Registration "Always remember: Music is the only drug you need." - Steve Mason -Note: Now there's a workaround for the comment problem! See history or FAQ section.

Please rate each update of AlgoMusic on Aminet! See "Author"!

1.2 Copyright

Software Copyright

The Copyright for this program belongs to the author and noone else.

Type of Software

AlgoMusic is Giftware. This means that you can practically do anything to it. Copy, rename or even delete it in any manner you like. But you mustn't modify or disassemble ANY of the files supplied in the AlgoMusic-archive. Except for samples, no files may be added or deleted from the release archive, especially the executables and this guide must be left unchanged. Crunching with any good packer or other archivers available to the public is allowed, but not suggested.

You may not gain any commercial or private profit out of this program. You even may not use it commercially (meaning running it in your shop to attract customers, for example) without my written permission to do so.

If you use AlgoMusic for your own (noncommercial) productions (disk mags, slideshows, demos etc.) you need to mention my name somewhere, send me a mail about it and possibly also a copy of your program.

This~ software is provided "as is", meaning that I will not in any way be responsible for any loss of data or damage done to your hardware or software directly or indirectly by the use of this program. No warranty for the functionality is given, neither implied nor expressed. If you are against such regulations, don't use this program.

You are asked to send me a gift (stamps, disks, pinup-girls, umbrellas, modems, ZIP drives, GB HDs, mini disc players, A4000s, Ferraris, swimming pools, bungalows and MIG 29s are preferred) if you like AlgoMusic. I'll accept small financial donations as well, of course. Even for private use all these suggestions are actually a "must" if you use AlgoMusic for a period of more than 2 weeks. Sending a gift will very well keep me improving

the code and functionality of this program. As you can see in the history, loads of improvements have been included so far.

Not sending a gift or a donation is both immoral and illegal!

Distribution Conditions

AlgoMusic may be taken for use in any PD/FD/Shareware library (including Aminet and Fred Fish's library). If it is published on any digital medium and thereby sold for money, regardless of the profit, you simply MUST send me at least one copy of the disk or CD it is published upon.

Availability

Do your best to make AlgoMusic available everywhere on our small Earth (BBS, WWW, FTP, CD-ROMs, ...) and tell your friends about it.

1.3 Introduction

Ever been tired of looking into your soundmodule-directory ↔ and yawning your head off because you've heard all your boring mods thousands of times? Well, here is the ultimate solution!

AlgoMusic is quite a complex program that creates and plays a song randomly out of a series of algorithms in a Techno/House manner. Just try it, it sounds nice. :)

AlgoMusic will read its samples randomly from different directories. You may add, delete and configure these files. Please look at the readme-files in the sample directories or the Configuring Samples

-part for more info.

AlgoMusic is a shell-tool only. Starting from Workbench is possible, but configuration using tooltypes does not work yet. A prefs-program which also features a GUI for everyday use with MUI 3.x is included since V1.5.

1.4 Features

```
AlgoMusic features:
```

- o Giftware.
- o Groovy song creation algorithms.
- o Samples totally customizable.
- o Speech sample support.
- o Short song creation times.

o Compiled using SAS/C 6.57 with proper optimization.

- o Low memory usage.
- o 68000, 68020/030 and 68040/060 versions included.
- o MUI configuration and everyday-use utility including nice analyzer.
- o Shell or GUI usage possible.
- o Nice Installer script for easy installation.
- o Update and full install archive available.
- o Release archive includes a nice collection of acid, bass, chords, melody, base, breakbeat, clap, hihat, snare and speech samples.
- o Archive includes developer files.

1.5 Requirements & Recommendations

```
AlgoMusic requires:
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o any Amiga with Motorola 680x0 processor
o Amiga OS 2.0 or higher
o about or less than 512 KB of free chipmem
o additional 512 KB of free chipmem or fastmem
o a harddrive (or a HD disk or ZIP disk ;-D)
o about 1.7 MB of free disk space
o Commodore's or AT's Installer
o MUI 3.x if you want to use the prefs-program

Recommended hardware/software:

o Amiga OS 3.1	
o 68030/50, 68060/66 for hyperspeed use	
o Installer 43.3	
o MUI 3.8	

AlgoMusic won't work on:

o Amigas with non-standard audio or CIA hardware (e.g. DraCo)

Development info:

It was developed on a PAL Amiga 1200 with OS 3.1, 68030/50 and 48 Megs of 60 ns Fast-RAM. It has also been tested on quite a large variety of other differently equipped Amiga hardware without any problems.

1.6 Installation

Installation is performed using Commodore's (or AT's) Installer. It is not included in the AlgoMusic package but is part of your Workbench. The newest version should also be available on Aminet. That should be V43.3.

Easy installation is guaranteed.

Click here to install if you haven't done it already:

Install AlgoMusic

1.7 Shell Usage

AlgoMusic can be used either via launching it from the shell or, alternatively, by using the prefs program which also allows starting AlgoMusic.

The argument-template looks as follows:

ACID/S,AVOL=ACIDVOLUME/K/N,BB=BREAKBEAT/S,BBVOL=BREAKBEATVOLUME/K/N, BPM/K/N,BVOL=BASSVOLUME/K/N,CONT=CONTINUE/S,CVOL=CHORDSVOLUME/K/N, DVOL=DRUMSVOLUME/K/N,ECHO/S,FILTER/S,FINETUNE/K/N,FOREVER=REPEAT/S, FREEMELODY/S,INFO/S,INIT=RANDOMINIT/K,LOG=LOGFILE/K,NEWSONGCOMB/K, MVOL=MELODYVOLUME/K/N,NEWSONG/S,NOALLOC/S,NOENV/S,NOFADE/S,QUIET/S, QUIT=BREAK/S,QUITCOMB/K,SAFE/S,SPEECH/S,STOP/S,SVOL=SPEECHVOLUME/K/N, VOL=VOLUME/K/N

Flag Argument	Description
S ACID	Switches on the use of an acid-style sample where applicable. By default, it is switched off.
SR ACIDVOLUME n	Allows setting relative volume of acid sounds [064].
S BB=BREAKBEAT	Enables using breakbeats where applicable.
SR BASSVOLUME n	Allows setting relative volume of bass [064].

SR BPM n Sets the playing speed to the BPM value specified. It must be in the range of [84..200]. The default is 160. SR BREAKBEATVOLUME n Allows setting relative volume of breakbeats [0..64]. SR CHORDSVOLUME n Allows setting relative volume of chords [0..64]. Tells AlgoMusic to go on playing after having been R CONT=CONTINUE STOPped. Otherwise it is ignored. SR DRUMSVOLUME n Allows setting relative volume of drums [0..64]. S ECHO Tells AlgoMusic to use echo-effects, where possible. S FILTER If this switch is activated, then the audio filter is switched on. By default, the filter is switched off. SR FINETUNE n Sets the global finetune for the song to n. The value is given in %% (thousandth) to add to the normal frequency, thus 1000% doubles the frequencies whereas -500%% halves them. S FOREVER=REPEAT If you want AlgoMusic to go on playing forever, this is the right switch to use. After finishing a song, a new song is quickly created and played. By default, FOREVER is switched off. S FREEMELODY Chooses "free melody" melody creation type. SR INFO Shows some information about used samples for each song and general info about this AlgoMusic version. INIT=RANDOMINIT \$h Initializes the random generator with the hex-value S specified. Same hex numbers will result in same songs. S LOG=LOGFILE name Specifies a filename (with path) for a logfile. Each time a new song is rendered, some information is appended to that file. If not specified, no logfile is generated. SR MELODYVOLUME n Allows setting relative volume of melody [0..64]. Forces an already running AlgoMusic process to create R NEWSONG a new song and instantly play it. S NEWSONGCOMB n Specifies a key/mousebutton combination for creating a new song. n can be one of the following: "Off" "MMB" "LMB+RMB" "MMB+RMB" "LMB+MMB" "LMB+MMB+RMB" "LALT+LMB"

		"LALT+RMB" "CTRL+LMB" "CTRL+RMB"
		LMB = Left Mouse Button MMB = Middle Mouse Button RMB = Right Mouse Button LALT = Left Alt CTRL = Control
S	NOALLOC	This switch disables the allocation of audiochannels. By default, the channels are allocated.
S	NOENV	When enabled, AlgoMusic will ignore the preferences in your ENV: directory. Cool for putting AM on e.g. bootable CDs without having to bother about an ENV: directory.
S	NOFADE	Normally, the song is smoothly faded out in the song's last pattern. Use this switch to avoid that.
S	QUIET	All output is suppressed, except error messages.
R	QUIT=BREAK	Forces an already running AlgoMusic process to immediately stop playing and quit. It is the same as sending the process a CTRL-C (e.g. using the Shell Break-command). If AlgoMusic was not running before, it is launched.
S	QUITCOMB n	Specifies a key/mousebutton combination for quitting AlgoMusic. See NEWSONGCOMB section.
S	SAFE	Uses workaround for a bad V37 and V39 Kickstart bug when reading comments with ExAll(). If AlgoMusic tells you some strange things about wrong comments, you must use this switch. ExAll() is then emulated via Examine()/ExNext(). Just try, if it works without, leave this switch off, because directory scanning is slightly faster then.
S	SPEECH	Enables use of speech samples.
SR	SPEECHVOLUME n	Allows setting relative volume of speech [064].
R	STOP	Forces a running AlgoMusic to stop playing but not to quit. Using CONT you can tell it to go on playing the song. All other commands may be used as well while stopped.
SR	VOL=VOLUME n	This sets the main volume the song is played at. It must be in the range of [064]. Default is 64.

Flags:

_ _

S: Usable when AlgoMusic is launched

R: Usable when AlgoMusic is already running

Examples:

1> AlgoMusic BPM 140

would play it a bit slower than with the default value.

If you like it fast and forever with acid-style, breakbeats, speech and echo, you might use

1> AlgoMusic BPM 176 SPEECH ACID FOREVER BREAKBEAT ECHO :^)

Changing settings while running:

All changeable settings (those parameters marked with an 'R') can be modified while playing with the prefs program or by starting AlgoMusic again from shell with the desired new values.

Example:

AlgoMusic BPM 120 VOLUME 40

Changes BPM and main volume of AlgoMusic while playing.

Using a prefs-file by hand:

You can put your favourite arguments into a variable called "ENV:AlgoMusic.prefs". It is parsed just the way the shell arguments are parsed. Shell arguments override the variable arguments, which means that if you have specified "INIT \$4002" in the variable and use "INIT \$5" in the shell arguments, the second value is taken.

Switches are handled differently. They actually act as toggle switches, so if you specify the same switch in both the variable and the shell arguments, it is switched off, because it is first turned on and toggled back off afterwards.

If you already have an AlgoMusic process running, you can stop it either by sending a break signal to the process or by just running AlgoMusic again with the BREAK or QUIT argument.

1.8 AlgoMusicPrefs

AlgoMusic's prefs program features a config part as well as \leftrightarrow a realtime part where you can start AlgoMusic etc.

Note that the "config" page of the prefs program is not realtime, meaning that changing the settings there will not directly influence a running AlgoMusic. If you want to use these settings directly, you must first hit

"Eject" and then push "Play" or "New".

As MUI 3.x help bubbles are heavily used, the prefs program should be self-explanatory. If you are still unsure about something, have a look at the

shell arguments

AlgoMusicPrefs may be exited either by closing the window (equals Cancel), Use or Save and by sending a CTRL-C to the process.

Since V2.3, AlgoMusic also supports passing arguments to AlgoMusicPrefs.

The argument-template looks as follows:

ICONIFY/S, PLAY/S

Argument	Description
ICONIFY	Do not open prefs window immediately but open the MUI application iconified. Double-clicking on the
	icon will open the prefs window. Additionally, you might want to enable the iconify gadget in MUI prefs to reiconify the prefs window when open.
PLAY	Immediately start playing after opening the prefs window. If already playing (or stopped), does nothing.

1.9 Configuring Samples

Each sample may have an own configuration in volume, pitch ↔ etc. You'll just have to add a filenote (comment) with your wished template style string to the sample's file.

The following things are possible to set for each sample:

VOLUME/K/N

FINETUNE/K/N

PHASERDEPTH/K/N works only with

PHASERSPEED/K/N acid, melody & bass samples

Just concatenate these options in the filecomment of the specific sample.

It could look like this:

"VOLUME=40 FINETUNE=1000 PHASERDEPTH=15000 PHASERSPEED=120"

Additionally, please look at the different ".readme"-files in the sample directories!

1.10 VOLUME

The VOLUME=x template works as follows:

It sets the relative sample volume (0-64). Relative, because you can also alter the sample's volume by changing the main volume or e.g. the bassvolume for bass-samples.

The default volume for samples is 64. If any samples appear to be too loud, just use a smaller value.

1.11 FINETUNE

The FINETUNE=x template works as follows:

Normal samples

It is the permillage (not percentage) of what is added to the samples normal frequency. x may also be negative.

Х	Frequency	Fε	actor
0	0%% more =	*	1
1000	1000%% more =	*	2
500	500%% more =	*	1.5
-500	500%% less =	/	2
-750	750%% less =	/	4

So if a sample appears to be too deep, you can just add "FINETUNE 1000" to the samples' file-comment in order to play it twice as fast (=1 octave higher).

So the formula is:

Factor = (x+1000)/1000

If you're good at math, you can even calculate the x's for semitone transpositions! ;-)

For transposing a tone up n semitones, simply use this formula:

x = 1000 * 2 ^ (n/12) - 1000

FINETUNE won't work with drum samples (excluding breakbeat-samples), because the samples are mixed in order to get combinations (base+clap, for example). Different volumes for mixed samples are possible, though.

Speech and Breakbeat samples

The finetuning works different for Speech and Breakbeat samples because the sample period has to be properly scaled to the specified bpm playback rate. Internally the period is calculated like this:

period = (30000-finetune)/bpm

This means that if you'd like to play a sample twice as fast (at the same bpm rate, of course) you'll have to put a "FINETUNE=15000" in the sample's filecomment. You'll also have to be careful not to hit the hardware's playback limit (being somewhere around 130 for the period). As the maximum bpm is 200, you can calculate the maximum finetune value you can use: it's 4000 (or you'll get strange results when playing rather fast).

1.12 PHASERDEPTH

Some samples appear to have a transforming sound while being played. This is done by just changing the sample's start offset while playing.

The PHASERDEPTH is the amount of words (=2 bytes) in the samples to move to and fro for the start offset.

PHASERDEPTH 17000 would cause the byte-offset to move forward and back from 0 to 34000 bytes.

So, the PHASERDEPTH should be slightly smaller than the sample's length divided by 2, here meaning the actual sampledata of the sample (not including 8SVX header).

The initial starting offset and its movement direction are random.

1.13 phaserspeed

You can set the amount of words to add to or subtract from the current starting offset for phaser-samples with this option. It should neither be to small nor to big. A value from 20 to 200 should be quite okay most of the time. Just check it out!

1.14 FAQ - Frequently Asked Questions

Frequently asked Questions about AlgoMusic

Q: When I start AlgoMusic, it keeps telling me that my sample's filecomments

are faulty. The first character in the displayed comment is always missing.

A: This is a bug in OS V37 and V39 (the latter only when using DirCache on your harddrive). Those two OS versions do not correctly read filecomments when using the dos.library function ExAll(). Now there is a workaround. Simply start AlgoMusic with the "SAFE" switch. ExAll() will then be emulated using the OS functions Examine() and ExNext().

- Q: When I start AlgoMusic, I get an error telling me that there's something wrong with an acid sample's comment.
- A: If you haven't changed any comment at all yourself, it seems as if it has been destroyed, possibly by some application. This may happen when copying files with certain DirOpus-like programs, for example, which manipulate the filecomment. When copying configured samples, always be sure that the filecomment is copied along as well. This may be done by using "Copy Clone ...". Especially Breakbeat and Acid samples cannot live with missing comments.

- Q: When I install own acid-samples, they sound weird sometimes.
- A: You'll have to set the acid-parameters ACIDDEPTH and ACIDSPEED in the samples' filecomments in order to work properly. You'll have to experiment which values sound best. ACIDSPEED should be somewhat around 100, ACIDDEPTH should be about 10% less than your samplelength divided by 2.

- Q: When I install own breakbeat-samples, they seem to be cut off at the end, almost regardless of the finetune-parameters for the samples.
- A: You seem to want to use breakbeat-samples with eight (!) beats. This is not supported. You can only use samples with four beats.

Q: What is the easiest way to install own breakbeat-samples?

A: Just start AlgoMusic several times until you hear a song starting with a breakbeat. Now remember the randominit-number for it. Then you can move all existing breakbeat-samples somewhere else on your harddisk. After that just put your new breakbeat-sample inside the rhythm-directory. Now you can start AlgoMusic with the randominit-number over and over again in order to find out the right FINETUNE value.

Use this method for acid and speech samples as well.

Q: Will AlgoMusic be able to save a song in mod-format (Protracker, OctaMED)

in the future?

A: No, I don't see a good reason why it should be able to. It would just cause a new mod flood on Aminet. My own player supports things that are not possible in PT anyway (e.g. volume cutoff and phasing simultaneously).

1.15 Tips

ToolsDaemon

If you are using the great tool called "ToolsDaemon" by Nico Francois, you should do the following to implement AlgoMusic into it:

Create two menu entries, one called "AlgoMusic Start/Stop" (assign Amiga-'m' to it) and one called "AlgoMusic Next Song" (assign Amiga-'-' to it). The first menu entry should execute "AlgoMusic >NIL: BREAK" (CLI), the second one "AlgoMusic >NIL: NEWSONG" (CLI).

So whenever you want to start or stop AlgoMusic, just hit Amiga-'m'. If you want to hear a new song (or want to start AlgoMusic), just hit Amiga-'-'. It's very handy indeed!

Additionally, you could map the command "AlgoMusicPrefs ICONIFY PLAY" (CLI) to a key and would always have the appicon to doubleclick in order to open the prefs window. Note that MUI will only allocate a minimum of memory when an application is iconified.

If you have other tips for other tools, please let me know!

1.16 Developer files

AlgoMusic has a simple way to pass data to an external program. There is a global message port where one can obtain this information, a simple call to FindMsgPort() is enough to obtain it. For further details, please have a look in the "Developer" directory. There are also some examples how to use this facility properly.

I would be glad if you'd send me some small programs (including sources) that produce some fancy graphics depending on the music being played. Those things should work on graphics cards, as well as on AGA or even ECS machines.

If your program is a rather big project, you can also release it yourself, but I'd like to be informed about such thing before.

Go on, do some fancy stuff!

1.17 Bugs/Problems

Known Bugs and Problems

o Uses direct hardware access on audiochannels and CIA timers.

- o You will find that same RANDOMINIT values are useless when using different versions of AlgoMusic. You'll get other songnames with other versions as well.
- o If you have a proportional font for Floattext objects in MUI, the "Info" switch in the prefsprogram will cause rather odd looking results. That won't cause any damages, though.

They will be (partly) removed in the future. So watch out for further updates!

If you discover Bugs

If you have discovered any kind of bug, please let me know what happens, when it happens and where it happens. If the bug is song-dependent (meaning strange things in a particular song, for example) please send me the randominit-number and the song number of that song.

The more thoroughly you check out these things, the more likely it is that the bug is fixed quickly. Don't forget to tell me the version of AlgoMusic where you have discovered the bug.

1.18 History

Release History

Dates are dates of release as well as dates of last change.

V2.3: (03-Dec-97) Major Update

AlgoMusic:

- o If there is an error in AlgoMusic.prefs, AlgoMusic now tells the user to run AlgoMusicPrefs and to save the settings.
- o Implemented a nice way to obtain current notes being played, as well as other sample information. Have a look at the updated files in the "Developer" directory and read the Developer section in this guide.
- o From now on, AlgoMusic will be available as a 2-part split-archive (700 KB each) on the support page, because several people requested this. The two files must be joined together before LHA extraction.

o Added volume cutoff "effect".

- o Changed the output of "Info" a bit.
- o Added the ability to specifiy a key/mousebutton combination that results in creating a new song or quit (NEWSONGCOMB and QUITCOMB).
- o AlgoMusic's main program sourcecode now exceeds 100 KB (3500 lines)! Altogether (all .c and .h files) exceed 168 KB.
- o Added MWB and NewIcons Icons.
- o Fixed some stooopid bugs in the Installer script.
- o A new songinfo (INFO switch) was only created after generation of a new song, so meanwhile changed volumes etc. were not represented in the output. Now fixed.

AlgoMusicPrefs:

the guide.

- o AlgoMusicPrefs now uses its icon as appicon when iconified.
- o AlgoMusicPrefs refused to start if there was something wrong with AlgoMusic.prefs file. Now fixed.
- o Removed the 2 Enforcer hits at start of program.
- o Changed the appearance of the "About" window.
- o Added two cycle gadgets for NEWSONGCOMB and QUITCOMB argument.

V2.2: (05-Jul-97) Minor Update

AlgoMusic:

- o Fixed that nasty bug in the QUIET option that caused the samples not to be deallocated.
- o Fixed the bug causing wrong playback speed below 163 BPM.
- o Fixed some other unimportant stuff.

AlgoMusicPrefs:

o Will not use the QUIET option anymore when launching AlgoMusic (there is no need for it anyway, because output is redirected to NIL:). V2.1: (24-May-97) Major Update _____ I made a mistake at the second one of my two bank accounts, that has been corrected in the Author section. AlgoMusic: o AlgoMusic will from now on be available as update archive as well (at least when no vital things are changed). o Implemented the ability of setting a global finetune. o AlgoMusic used to Lock() and Open() files instead of just Open()ing them. Now fixed. o Included some developer files. Look at Developer directory. o Alphasorted the shell-argument template. o In "Safe" mode, AlgoMusic did not unlock the sample directories after scanning (reported by A. Benden). Now fixed. o Included echo effects for speech samples. o AlgoMusic's "audioport" is no longer a global system port. AlgoMusicPrefs: o Added a slider for the finetune. o Fixed some silly Enforcer hits (reported by A. Leidinger). I used Signal() instead of SetSignal(). :(o Now makes extensive use of MUI callback hooks. The GUI should have quicker response times now. o Reduced the graphical layout weight of the Analyzer group making more space for the sliders etc. o The song progress is displayed more smoothly now. o Now Exchange will display and handle AlgoMusicPrefs correctly. o All groups have proper backgrounds now. o Rearranged the cyclechain of the objects which was rather crappy before. o Added a "GUI" menu, where it is possible to show/hide parts of the GUI, giving the user the ability to let it appear smaller (inspired by C. Meilicke). Sadly, MUI cannot hide parts of a register object, so the user can't hide the "Config" page. The GUI settings will be saveable in the future.

V2.0: (18-Apr-97) Major Update

Note that my e-mail address has changed again. The new address is "schuerge@studcs.uni-sb.de". The old address will be valid until end of 1997, but please don't use it anymore.

AlgoMusic:

- o Immensely cleaned up code.
- o Included 68040/060 version.
- o Removed NOCIA and DELAY option because they were useless. Reorganized argument handling as well.
- o Adjusted some more samples.
- o Fixed some internal bugs.

AlgoMusicPrefs:

- o Totally reworked the layout of the prefs program.
- o Now saving and using the settings is possible.
- o Added "analyzer" displaying base and clap. Nice!
- o Added ability to see guide when pressing HELP.

V1.8: (30-Jan-97) Major Update

AlgoMusic:

- o Fixed a small bug in the date of the logfile output.
- o Added much better melody creation. Can be switched on using "FREEMELODY" option. Does anyone know a better algorithm? I hope so.. :-)

V1.7: (01-Nov-96) Major Update

AlgoMusic:

o Created an AlgoMusic support site:

http://fsinfo.cs.uni-sb.de/~schuerge/AlgoMusic/

o Now 68020+ version is included (handled automatically by installer).

- o Implemented ExAll() workaround for faulty comment interpretation of some Kickstarts (the V1.6 workaround didn't work properly). If you have any problems running AlgoMusic, just try using the SAFE switch.
- o AlgoMusic can now handle samples with lengths up to 128 KB.
- o Added speech support.
- o Added SPEECH switch and SPEECHVOLUME argument.
- o INFO will now also show needed Chipmem for used samples.
- o Made Breakbeat rendering somewhat cooler.
- o Random generator initialization is now more random. :)
- o Now also Bass and Melody samples can make use of PHASERDEPTH and PHASERSPEED sample options, making some things sound much better.
- o Melody creation will now adapt to Maj/Min-4/6 chords, causing groovier sounding songs.
- o Changed max. BPM rate down from 225 to 200. Some Breakbeat and speech samples couldn't be transposed properly (hitting the playback limit of Amiga's customchips) at very high bpm rates.

AlgoMusicPrefs:

- o Removed Enforcer hit, which was caused when AlgoMusicPrefs was running while AlgoMusic was not.
- o The displayed song number was an input button instead of a normal read-only gadget. Now fixed. <Claus Dyring>
- o Added speechvolume slider.
- o Fixed AlgoMusicPrefs <-> AlgoMusic communication bug.

V1.6: (23-Jun-96) Minor Update

- o Very stupid bug detected: when passing out-of-bounds values as arguments, AlgoMusic caused a Software Failure. Now fixed.
- o Added echo effects for acid samples.
- o Implemented OS 37.x ExAll() fix. AlgoMusic could not correctly
 read filecomments due to an error in 37.x's (Fast)Filesystem.
 Now AlgoMusic will really work on all Amiga OS versions starting
 with OS 2.0. <Michael van Elst>

19/27

AlgoMusicPrefs:

o Added more menu and keyboard shortcuts.

V1.5: (10-Jun-96) Major Update

- o Totally reworked sample organisation. Now they are randomly read out of directories.
- o Samples can be configured by attaching a standard template-style filenote to them. Have a look at the readme-files in the sample directories to see how it works.
- o Fixed a bug that didn't set the upper and lower bpm limit correctly.
- o Removed that nasty bug that played a strange "beeep" sometimes. It will never appear again!
- o Changed the internal chord-structure. Now also Maj6, Min6, Maj64 & Min64 is possible. Makes everything sound much nicer! ;)
- o Reduced used player-cpu-time a bit.
- o Breaking AlgoMusic just by running it again is not possible anymore. It must now be broken using an argument switch (QUIT).
- o Uses real task communication now. You can ask a running AlgoMusic process about the songname and initnumber of the song currently being played. Just run AlgoMusic again without arguments to see that information. You can also change volumes and playing speeds while playing.
- o Added much more structures.
- o Added five more switches: NEWSONG, QUIT=BREAK, NOENV, STOP and CONT=CONTINUE.
- o Added ability to set volumes for each type of sample. Added ability to set volume for each individual sample as well. Can be done by using "VOLUME=x" in the filenote of a sample.
- o Ability of using a non-CIA (=VBI) player has been removed. This is due to different screen refresh rates in different screenmodes which would result in awkyard breakbeat sample periods and different playing speeds. Noone uses it, anyway (I hope). A CIA-timed player is much nicer.
- o Started working on AlgoMusicPrefs for MUI.
- o Added ability to specify a logfile. This can be done by setting "LOGFILE <Filename>" in the arguments. <Agust Arni Jonsson>
- o Added ECHO switch. With it, you can switch on the usage of

echo-effects.

- o AlgoMusic is now able to fade in and fade out any of its voices.
- o Now an Installer-script is included for easy installation.
- o Added INFO switch. It will show you lots of information about the current song.
- o Fixed a bug in INFO generation. AlgoMusic could only display that info when launched while the prefsprogram was active.
- o AlgoMusic will now show the sample's name and comment if something is wrong with its comment. You can then easily fix it.
- o Removed all Enforcer hits.
- o Now AlgoMusic will show all errors using system requesters.
- o Logfile output includes AlgoMusic version and creation date now.

AlgoMusicPrefs:

- o Added Bubble-Help for most of the groups/buttons shown. Saving etc. is not possible yet.
- o Added "Info" button, which shows just the same thing like when using the INFO switch.
- o Now ALL AlgoMusicPrefs-windows can be closed via closegadget. :)
- o The most needed buttons now have a keyboard shortcut.
- o The information-listview is not an input-list anymore.
- o The different groups and the "About" window in the GUI have other backgrounds now.

V1.4: (16-Oct-95) Major Update

AlgoMusic:

- o Added breakbeats! I don't know anymore who proposed that, but I liked the idea! Can be enabled using the BREAKBEAT switch.
- o Small bug: BPM rate could not be set below 84.
- o Changed to Giftware!

V1.3: (13-May-95) Major Update

- o Included a nice CIA timer for playing.
- o Added option NOCIA which plays just the former way (using Delay()).
- o Added the ability to set the BPM rate per argument.
- o Added acid-style sample and option ACID.
- o Now outputs the random seed.
- o Added the abilitity to set the random seed as a hex value via RANDOMINIT/INIT argument.
- o Found out how to play a sample without automatic repetition...;)
 The samples all used to have quite a big zero-byte buffer behind them.
 This has been changed -> AlgoMusic is MUCH shorter now!
- o Rewrote the song creation algorithm. There used to be only four chords per pattern and fixed bass/melody sequences (16 steps long). This has been changed. Now the chords can span over several patterns and can be changed quicker etc.
- o Added the ability to put one's favourite arguments into a variable called "ENVARC:AlgoMusic.prefs". Look at the "Usage" section to find out more about this.
- o Now, "INIT \$0" is possible. It turns the pseudo-random random seeding back on. Not bad if you have specified an init-value in the ENV-variable and want to specify in the shell arguments to have real randomization again.
- o Rhythms don't sound as monotonous as before.
- o Now allocates audiochannels. May be disabled using NOALLOC.
- o Now songs have names. >;-)
- o Switched to an AmigaGuide documentation.

V1.2: (18-Apr-95) Major Update

- o Added optional fadeout at the end of the song.
- o Now at least Kick 2.0 (V36) is required (!).
- o Added proper argument handling by using ReadArgs().
- o Added new switches: FOREVER, QUIET, FILTER and NOFADE.
- o Added the ability to set VOLUME.
- o Added some more rhythms, chords, basses and melodies.

o Enhanced random generator.

V1.1: (12-Apr-95 afternoon) Minor Update

AlgoMusic:

o Added the ability to choose playing speed per argument.

o Used better rhythm samples (basedrum, clap).

o Added other chords, basses~& melodies.

o Added version-string. :)

o Added more freedom for creating the song-structure.

V1.0: (12-Apr-95 2:00 a.m)

AlgoMusic:

o First public release.

1.19 Future

The Future of AlgoMusic

I will continue working on AlgoMusic in the future, because I have already received a lot of feedback. Of course, more gifts or financial donations would morally support me as well!

Many people have suggested to make AlgoMusic save a created module in Protracker-format. This is not what AlgoMusic is supposed to do. My replayer is much shorter than any Protracker-replayer, and AlgoMusic itself is shorter than the resulting module would be, so I will NOT include that in the future!

If you still want module saving, you don't seem to have understood AlgoMusic's aim. :*)

Things to be added:

o Better melody creation.

If you've got other wishes for improvement, please contact $$\rm me$$

I will, of course, add much more customization. Be prepared for it! :)

1.20 Wanted

Samples

I could need a lot of more samples for AlgoMusic, especially cool speech, rhythm and acid samples (others are welcome as well). If you've got some, please pick only the best, configure them (with filenotes) and send me those. LZX or LHA packed will work best.

Please don't send me hundreds of kilobytes of samples. You shouldn't send me archives with more than 500 KB.

If I receive enough more samples that I find usable, I will probably release an Additional AlgoMusic Sample Archive.

Icons

I need someone who draws some nice icons for AlgoMusic. There should be normal 4 color, MagicWB and possibly NewIcon icons available.

1.21 Credits

I would specially like to thank the following people for their support and help:

- Rüdiger Prang o My betatesters
- Katrina Ratzlaff
- Sascha Dages
- Stefan Redel
- Maic Striepe
- Douglas Baigrie
- Graeme Marshall
- Agust Arni Jonsson
- Hans Raaf
- Kari-Pekka Koljonen o Supplied me with a nice CIA-timing-routine.
- Richard Körber o Reported some bugs, sent me a source for audiochannel allocation.
- Ville Ranki o Drew that nice ToolBrush icon for AlgoMusic.
- Felix Müller o Reported a bug.
- Michael van Elst o Sent me a Kickstart 37.15 ExAll()-problem workaround.
- Alexander Leidinger o Sent me an Enforcer hit list.

- Linus Akesson	o Sent me some useful hints about notification.	
- Andreas Benden	o Reported a bug.	
- Carol Meilicke	o Sent me some nice ideas.	
– Jim Maciorowski	o Also sent me some nice ideas.	
- David Patterson	o Drew those nice MagicWB and NewIcon icons	
Other special thanks to:		
- R. Cant	o Thanks for letter and disks!	
- Humanoid/Embassy - Durandal/dECiSiON - Ramon Bleche	o Sent me some cool mods/samples.	
- Conny Cyréus Christian Cyréus	o I used some of their samples from their cool MusicLineEditor.	

And thanks to all the other people that sent me a mail about any of the previous versions!

melodies.

1.22 Support

You will find updates of AlgoMusic, announcements and possibly additional sample archives on the AlgoMusic Support Site:

http://fsinfo.cs.uni-sb.de/~schuerge/AlgoMusic/

or

http://algomusic.home.pages.de

Just have a look inside there regularly and leave me your comments. It is also possible to register your e-mail address there so that you are automatically informed if something changes on the page.

Remember: The availability of additional sample archives depends on you (as a user) sending me samples!

1.23 Author

25 / 27

If you like AlgoMusic, or even if you don't (but then let me know why), if you have any suggestions, questions or ideas, or if you have found any bugs (even in this guide), send a mail to:

schuerge@studcs.uni-sb.de

When writing mails, please let the message subject begin with "AlgoMusic". It just makes things easier!

For those still not being able to send e-mails or those who would like to send me gifts:

My snail-mail-address:

Thomas Schürger Birkenbusch 39 53757 Sankt Augustin Germany

Tel.: Germany 02241/331935 (voice) Worldwide (+49)2241/331935

My bank account:

KNR: 0132107632 BLZ: 386 500 00 Kreissparkasse Siegburg

or

KNR: 8781990 BLZ: 590 200 90 Bayerische Vereinsbank

If you consider sending me money, please do not send more than 30.- DM (or 0 US).

Please contact me, I would be very pleased to receive a lot of feedback.

Have a look at AlgoMusic's webpage:

http://fsinfo.cs.uni-sb.de/~schuerge/AlgoMusic/

or

http://algomusic.home.pages.de

Please rate AlgoMusic on Aminet!

Simply send a message with no subject.

Recipient: Aminet-Server@aminet.org Contents: rate mus/misc/AlgoMusic2_2.lha <number>

where <number> is a number from 1 to 10, 10 is the best.

You'll get a mail back from the server telling you whether it worked or not.

Please don't rate AlgoMusic update archives, simply rate the full installation archives as instructed above!

My (new) PGP-key: (use it if possible!)

-----BEGIN PGP PUBLIC KEY BLOCK-----Version: 2.6.2i

mQCNAi6SRPYAAAEEAMHGFQM/HL15g+IoORD+ErAru7Dd17S10kqyD2t6qWDGjTPE ym7bd1ESLoWeXtfNiqvkbdeV9qELmFZ8cT5uKicesCMZkOtIuu23rDLccIXClQU+ RU1sVsTAub2Gm4RSg15XrMipqC5Waf/+QAlwlq6u5qtjVgMAMys4JdI2NDr5AAUR tCxUaG9tYXMgU2NodWVyZ2VyIDxzY2h1ZXJnZUBzdHVkY3MudW5pLXNiLmR1PokA lQMFEDNOIzArOCXSNjQ6+QEB6UoD/RSN1etrKMdUNHX51L0RO1TQ5tEjldVOIT2D LfgHiQyTd5fMIXRMmkGbq7CT6XaFHrtMeX+Aoim8hlmifIYrRw65Cf4bf0ZH361C TLRKAUP9c175+PwRTgW6j9nfzxn87iH4PvI5euHkFrwRUaFRYIsJykP9RST9Yzb4 6di/Vt/stCtUaG9tYXMqU2NodWVyZ2VyIDxzY2h1ZXJnZUBjc2NpcC51bmktc2Iu ZGU+tCpUaG9tYXMqU2NodWVyZ2VyIDx0aHNjMDAzNEBzdHVkLnVuaS1zYi5kZT60 KFRob21hcyBTY2h1ZXJnZXIqPEx1Q29Tb3VuZEBsY3MubmRoLmNvbT6JAJUCBRAx EBGBZ6++R4NU/T0BAT6jBACWqp8F7PNZBNRIIuiBwCX5C4M1fSmx6BDoun3E2h3N 70XcZ6340DpPRB1QTDefy17BIqlrUCostRo7u9n78k2/cPsvor1YLGHOIW8Xai+0 j+BsmCHxEjTohFP56cTxuzRDIVZG2PmVZiT09yzHlVHlu7/TiZeONGInHxqrpGMi wIkAlQIFEDD9eUcPRy9bNNdNwQEBRv0D/iff5iukrquHlzQw2az0eCwauatIydYz pJQ2nlNJFj+bhanOKxB/VhYGJzOnpYfBR9+BAGkNzL9VOHRJvYV1/Leg30dn6upW LV+I6mzo+Gz95MeztduBswKmsmg51D6/AezARISm0h3TDCZP1EdiunGDyzR97s7M nK6pNfVfNpvdiQCVAwUQMPzD53KkhGZVKZAZAQGnSgP+MrWhr5yoWdEYLehr59Ly eC0XIm0e+H6tQ31ooH5Wx0wpBwRKkirfjSpayt0vN40kQsdR2E0qN8cc5edVnfXs H2luXAjwBMZZNGaXf8i0DXlUAD6GA0KwaudbKMLQwtcZMmQ6V9V7tuYlanoilk6m GjTEB80Mb1Do+ay/108caeOJAJUDBRAw+9s0Kzgl0jY00vkBAemuBACXukKZ36iV PQTFi2q5kP31TnVi28ffvfltf4DUJLaxIaO5EqIqWz8NDC7AjVKO7QD0GSa0bjQT k0ouA26KQAgAsNwhsaMkWiGz19UlNULQz0XDoAqX6eNbDwHiekOtK//zUyk8csrW AHNaodRF3U+FWyATLxthj5ZQ419k+O9ATrQvVGhvbWFzIFNjaHVlcmdlciA8UGhv Ym9zQGVyYXRvc3RoLmRzc2Quc3ViLm9yZz6JAJUCBRAxEBeEZ6++R4NU/T0BAepd A/9jEc2OFYoNtvcaBW4izVpSot+0477mbIUW8nq60nXQACaxEhFEgStsvNPAFqQy nycVrdEwwZQZHBFFc/FgDZz3UYrIHORzdLNu8T6/b7KFuvUiikmoPy1kSiZOumjT NhkLpAEKjAvgxvW4pd4h3SU9ujWyo1DhiPKkjRAD1k+ffokAlQMFEDD8xAFypIRm VSmQGQEB4nQEAI1GGW358f3Jzx3y5NN88VF0ixs1Q0YScy/iroKuCuEz/3RXAQtR mJLbWL6ZeWQszh08shF2sykqqHvslSBmYyXMQprTmdHYbYkF8clZ/qYbh74ScqTz usPSn+qNov2iWYaL+ST4HKLUmi83cyh9hPtcNV4rFizR4V+3pSCu40ijiQCVAgUQ MPv0Mw9HL1s0103BAQEcfQQAiE4BQhfB89tZZpcMwktZoO3IKd7ph0cKMnU3f3xY GKJh3uOsTFS+r84eINpR3FUam3GoWk3O5lnOwOmK17WoDO8fzYDV/kte91/CVyyX jJt/NFH1vhXzB1HX98XRsTJXxraaIbhfqbC6kWzwvfDBY2W21gn3YZz3LBkg1jE3 v20JAJUDBRAw+9tAKzgl0jY00vkBAYkYBACpxZJboV+e1R0zpxpVFRXsSvYaFyBb x61qxB60fl3L1fpgl0rGie+FAKOUx7lay8TShrWIryERYjnC5tZo0A7cUG30i6NE

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+vlCPeggaKC5zrRpHrGYJ6uG
=PQ+N
-----END PGP PUBLIC KEY BLOCK-----
```

1.24 Registration

Registration is not possible yet, but you may very well contact $\, \hookleftarrow \,$ the

Author about that (silly questions are welcome!).