Manpage of DVDA-AUTHOR

DVDA-AUTHOR

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NAME

dvda-author - manual page for dvda-author version dev-9999

SYNOPSIS

dvda-author [*OPTION*]...

DESCRIPTION

dvda-author dev-9999 creates high-resolution DVD-Audio discs
from .wav, .flac and other audio files.

OPTIONS

Output options

-h, −**help** Display this help.

-v, −**version** Display version.

-q, −**quiet** Quiet mode.

-d, −**debug** Increased verbosity (debugging level)

-t, –**veryverbose** Like **-d** with enhanced verbosity for sample counts.

, –**maxverbose** Like **-t** with maximum verbosity on audio buffers (devel info).
–**no-output** Does not produce any file structure except for –**fixwav**.
  Computations will be performed.

-P, –**pause** Insert a final pause before exiting.

-P0, –**pause**=*0* Suppress a final pause before exiting

  if specified in configuration file.

-l, –**log** path Ouput a log to filepath.

  Argument must be supplied.

-L, –**logrefresh** path Same as **-l** but prior log will be erased on launching again.

–**loghtml** Transform the log into HTML format, with colorized messages, adja-
    cent to log with extension .html added.

-k, –**text** Generates text table in IFO files

  Under development, implemented for 1-group discs.
  Use file information as arguments separated by commas.

-W, –**disable-lexer** Deactivates configuration file parsing.

Playback options

-a, –**autoplay** Launches playback on loading disc.

Authoring options

  Soundfile authoring

Supported audio types: .wav

  .flac and .oga (Ogg FLAC, see below)
  SoX-supported formats with **-S** enabled
  except for lossy formats.
–**project** [**file**] Launches a dvda-author project.
  The project file should have the same syntax as dvda-author.conf [see file
      HOW_TO.conf]
  By default, launches dvda-author.dap in the current directory.

-i, –**input** directory Input directory with audio files.

  Each subdirectory is a group.

-o, –**output** directory Output directory.

-x, –**extract** {disc or directory} Extract DVD-Audio to directory **-o**.

  Groups are labelled g1, g2 in output directory.
–**xlist 1:1,. . . ,t1n-2:1,. . . ,t2n-. . . -N:1,. . . ,tNn** Optional hyphen-separated
      list of groups to be extracted

may be added with **-x**.

Tracks to be extracted in a given group are indicated after a colon.

Tracks to be extracted may be listed separated by commas after colon.

If not specified, all the group will be extracted.

Contiguous tracks may be represented by '. . .' between commas

e.g. 2-3-4:1,2,. . .,7,9 means: extract groups 2 and 3 entirely and tracks 2 to 7 and 9 for in group 4.

–**aob-extract {directory or AOB[,AOB. . .]}** Direct AOB file audio content extraction.

Unlike **-x**, this option does not use .IFO files. Use this option in combination with **-o**. No wav header is generated.

Several AOB files may be listed, separated by commas.

–**aob2wav {directory or AOB[,AOB. . .]}** Like –**aob-extract** but a wav header is prepended to audio content.

–**forensic** Use this mode with –**aob-extract**, –**aob2wav** or **-x** if IFO files are missing or mangled, or AOB files

have been partially restored using recovery tools.

–**strict** Use this option with –**aob-extract**, –**aob2wav** or **-x** to stop extraction in case of severe header issues. May be useful in combination with –**forensic** to manually repair header issues.

–**decode** Use this option with –**extract** or –**aob2wav** to decode MLP audio to the WAV format.

This option is based onthe ffmpeg decoder and is subject to the same legal restrictions as those applying to the MLP ffmpeg decoder.

–**log-decode [AOB]** Decode AOB file and log MPEG specifics. Should be used only in conjunction with –**outfile**

–**outfile [file]** Path to the log generated by –**log-decode**. Caution : should be alone in its own directory.

-p, –**startsector** NNN Specify the number of the first sector

of the AUDIO_PP.IFO file in the output of mkisofs.

If NNN=0, falling back on 281 (default).

Without **-p** start sector will be computed automatically.

-g You may specify up to 9 groups of tracks.

Minimum: one group. Enter full path to files if input directory is not set by [-i].

-z, BROKEN. Separate two consecutive titles when files have same audio

characteritics within a group.(

-Z, –**playlist** You may specify up to 9 group copies.

Total number of groups and copy groups should not exceed 9.

-n, –**no-videozone** Do not generate an empty VIDEO_TS directory.

-w, –**rights** Access rights to directories created (octal values)

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-c, −**cga** Enter channel group assignment right after group, e.g: **-g** file1…fileN
-c cga1…cgaN

  Channel assignment should match number of channels of each file
  Combine channels using either decimal indexes in following table or hyphenated
      channel assignement labels
  e.g. **-g** a.wav **-g** b.wav **-c** Lf-Rf-C2-Lfe2-S2 −**cga** 17
  Channel group assignment (CGA)
Index 1 2 3 4 5 6
0 Mono
1 L R
2 Lf Rf S2
3 Lf Rf Ls2 Rs2
4 Lf Rf Lfe2
5 Lf Rf Lfe2 S2
6 Lf Rf Lfe2 Ls2 Rs2
7 Lf Rf C2
8 Lf Rf C2 S2
9 Lf Rf C2 Ls2 Rs2
0xA-10 Lf Rf C2 Lfe2
0xB-11 Lf Rf C2 Lfe2 S2
0xC-12 Lf Rf C2 Lfe2 Ls2 Rs2
0xD-13 Lf Rf C S2
0xE-14 Lf Rf C Ls2 Rs2
0xF-15 Lf Rf C Lfe2
0x10-16 Lf Rf C Lfe2 S2
0x11-17 Lf Rf C Lfe2 Ls2 Rs2
0x12-18 Lf Rf Ls Rs Lfe2
0x13-19 Lf Rf Ls Rs C2
0x14-20 Lf Rf Ls Rs C2 Lfe2
  Keys:
  Index 2 means channel belongs to Group2
  L-R: Stereo
  Lf: Left front
  Rf: Right front
  Ls: Left surround (behind)
  Rs: Right front
C: Center
  Lfe: Low Frequency Effect (Subwoofer)
  S: Surround (just one behind)
Ls: Left surround
  Rs: Right surround
  Each group must have either same sample rate or be even multiples (e.g.
      96kHz/48 kHz or 88.2 kHz/44.1 kHz).
  The latter case is not yet supported.
  Within groups, bit rate may differ but sample rate cannot.

–**downmix** Enter downmix coefficients in dB. If track has more than 2 channels, each channel (Lf, Rf, C, Ls or S, Rs, LFE)

will be mapped to left (l) and/or right (r) stereo channel

with volume reduced by x dB, x the channel downmix coefficient.

Enter positive dB values corresponding to each channel volume reduction, mapped to left or right stereo, separated by commas.

Schema is –**downmix** Lf.l,Lf.r,Rf.l,Rf.r,C.l,C.r,S.l,S.r,Rs.l,Rs.r,LFE.l,LFE.r

Use 100 for 'off' value and 0 for no volume reduction.

This option can be repeated up to 16 times. It is cyclically recycled to 16 times to provide as many downmix tables.

Each track can be indexed using –**dtable** to be downmixed with the corresponding table.

Example : –**downmix** 6.2,100,100,7.2,0,0,13,13,16,16,0,0 –**downmix** 5.2,100,100,8.2,0,0,10,10,12,12,0,0 –**dtable** 2 –**dtable** 1

means that track 1 will be downmixed using the second table and track 2 the first one.

–**dtable** Enter downmix table rank (1-based) as indicated above.

–**provider** Enter provider name.

-F, –**fixwav**(options) Bad wav headers will be fixed by fixwav.

Can be run alone without DVD-AUDIO output by adding –**nooutput**.

-f, –**fixwav-virtual**(options) Use .wav header repair utility

without any write operation.

-S, –**sox** Use SoX to convert file format to .wav.

Without **-S** or –**resample** (see below), only flac, Ogg FLAC and .wav files are accepted.

–**resample c b s** Use SoX to convert file format to .wav, and/or change channel to c, bitrate to b, samplerate to s.

You do not need to use **-S** with –**resample**.

Always provide the three values c b and s separated by white space in the same order as in the previous **-g** files.

–**padding** Reverse default behaviour for transition between audio tracks with identical

characteristics (number of channels, bit depth and sample rate).

If necessary, audio will be padded with 0s instead of being joined (default).

Use –**pad-cont** for padding with last-known byte.

-C, –**pad-cont** When padding, pad with last known byte, not 0. See –**padding** above.

Deactivates –**lossy-rounding**

-L, –**lossy-rounding** Sample count rounding will be performed by cutting audio files

instead of padding (see –**padding** and –**pad-cont**).

Deactivates –**pad-cont** and –**padding**.

Menu authoring

-m, –**topmenu**(=mpgfiles) Generates top menu from comma-separated list of mpgfiles.

Without argument, automatic menu generation is launched.

-u, –**duration** hh:mm:ss Duration of top menu file, if provided.

It is mandatory when –**topmenu** has an argument file.

-M, –**xml** filepath Generates dvdauthor xml project

to filepath.

-H, –**spuxml** filepath Generates spumux xml project

to filepath.

-G, –**image** file Menu Background image for customized menu authoring.

-E, –**highlight** file Menu Highlight image for customized menu authoring.

-e, –**select** file Menu Select image

image that appears on pressing Enter with remote control usually Background with a change in text color.

-N, –**blankscreen** file For automatic menu authoring, you can replace black video background with this image.

-O, –**screentext** string Text for top menu. Format is

"album_text=group1_text=text(track11),text(track21),...,text(trackn1):group2_text=text(track12),text(track with text(tracknk) the text for track n of group k and groupk_text the text for group k.

-U, –**loop** loop background video.

-K, –**highlightformat -1** for automatic menu authoring

with little square before titles, 0 for underlining, 1 for button highlight.

-J, –**font** a,b,c Font name,font size,font width

(number of pixels for width of font size 10).
Font name should be compatible with Image magick specifications (mogrify **-list** font).
–**fontname a** Font name.
–**fontsize b** Font size.
–**fontwidth b** Font width.

-Y, –**topmenu-palette** string Text for system palette. Format is

either "norefresh", to block the refreshing of menu images, or:

textcolor:highlight_color:select_action color
in alpha-YCrCb 32-bit hexa coding. Here textcolor is the non-highlighted text
    for tracks,
,highlight_color is the underline or mobile motif color,
and select_action_color is album and group labels
as well as color of tracks on pressing the highlighted track.

-8, −**activemenu-palette** string Text for menu colors. Format is:

textcolor:highlight_text_color:highlight_color:select_action color
in alpha-YCrCb 32-bit hexa coding. Here textcolor is the text for tracks,
highlight_text_color is the color of album and group labels and highlighted
    text (broken feature)
highlight_color is the underline or mobile motif color,
and select_action_color is on pressing the highlighted track.

-y, −**topmenu-colors** string Text for menu colors. This is a developer's switch.

Use the **-palette** switches for modifying display colors.
This switch determines the colors of pictures generated in the temporary
    directory before creating the mpg background files.
Format is either "norefresh", to block the refreshing of menu images, or
textcolor:backgroundcolor:highlightcolor:select action color in rgb values a,b,c
    between 0 and 255.

-b, −**background** Background jpg files (comma-separated) to create a background mpg file

into which titles are multiplexed.
Specify as many files as there are menus, or the last file will be duplicated for
    missing menu files.
−**background-colors** Background RGB colors to colorize background mpg files
into which titles are multiplexed.
Specify as many colors as there are menus, or the last color will be duplicated
    for missing menu colors.
Syntax is r,g,b:r2,g2,b2:. . . :rk,gkbk for −**nmenus**=k.

-B, −**background-mpg** list Background mpg file(s) in a comma-separated list

into which titles are multiplexed.

−**topmenu-slides file(s) .jpg image files to be multiplexed with sound tracks (see option below)**
    By default a black screen will be used.

Each menu screen should have at least one associated .jpg slide. List of slides
    is comma-separated for each menu.

Menu lists are colon-separated: menu1_pic1,menu1_pic2:menu2_pic1,menu2_pic2,
    etc.

-Q, −**soundtracks** file(s) Background wav file(s)

to be multiplexed into a slideshow, with option –**topmenu-slides**.

By default a silent track will be multiplexed.

Each menu screen should have its own sound track. List of tracks follows same usage as for –**topmenu-slides**.

Note that currently with several menus there can be only one track/slide per menu.

-A, –**topvob** f Import already authored top vob menu f.

–**import-topmenu f** Import VIDEO_TS stream (VOB format) into AUDIO_TS top menu (AUDIO_TS.VOB).

-0, –**menustyle** desc Specifies top menu style

By default, tracks are listed under group headers.

If desc='hierarchical', the first menu screen lists groups.

If desc='active', all tracks will have an associated still picture with menu links that remain active while listening to the track.

-1, –**stillvob** f Import already authored still pictures vob.

-2, –**stilloptions** . . . Still picture options (add after –**stillpics**). Each option applies to ranked pic, e.g.

rank=0,manual,starteffect=fade,rank=1,starteffect=dissolve.

Suboptions are:

rank=[number], starteffect=[effect], endeffect=[effect]

manual, lag=[number], start=[number], active

See details below.

–**stillpics** Background jpg files to create one or more still pictures

for each track.See usage below.

If a track has no still picture, use two colons in a row.

You may otherwise indicate a directory containing pictures

named pic_abc.jpg, with a,b,c between 0 and 9.

–**stillpics dir/** Directory for background jpg files to create one still picture for each track.

Pics should be named pic_000.jpg, . . . , up to pic_999.jpg (maximum).

-4, –**norm** Argument is 'ntsc', 'pal' or 'secam', depending on TV standard.

-5, –**aspect** Set the playback aspect ratio code of the encoded video. By default, this value is inferred from the input header.

1 - 1:1 display

2 - 4:3 display

3 - 16:9 display

4 - 2.21:1 display

-6, –**nmenus** int Generates int top menus (default 1).

-7, –**ncolumns** int Top menus will have at most int columns (default 3).

Disc authoring

-I, –**mkisofs**(=file) Run mkisofs to author disc image using file

  as an ISO image. If file is empty, use tempdir/dvd.iso.

-r, –**cdrecord**(=a,b,c) Run cdrecord to burn disc image.

  Unless specified, –**mkisofs** will be automatically triggered with default tempdir/dvd.iso value.
  Device is of the form a,b,c, see cdrecord **-scanbus**. It can be omitted
  if there is just one writer.

-R, –**growisofs** */dev/dvd* Run growisofs to burn disc image.

  Device is of the form */dev/scd0* under many GNU/Linux distributions.
  It cannot be omitted.

DVD-VIDEO zone authoring

–**lplex-output dir** Output directory for lplex
  Default is same as specified **-o** value
  or default output directory.
–**dvdv-tracks . . .** Add tracks to be added to DVD-VIDEO zone using lplex:
  track11,. . . ,trackn1:track12,. . . ,trackn2:. . .
  for trackij the ith track of video titleset j.
–**dvdv-slides . . .** Add slides to be added to DVD-VIDEO zone using lplex:
  slide11,. . . ,sliden1:slide12,. . . ,slide2:. . .
  for slideij the ith slide of video titleset j.
  Each track should have a corresponding slide.
  Add two commas in a row for repeating previous slide.
  There can be a maximum of 1 slide per track.

-V, –**videodir** directory Path to VIDEO_TS input directory

-T, –**videolink** rank Rank of video titleset linked to in video zone

  (XX in VTS_XX_0.IFO).

  In this case the path to the VIDEO_TS linked to

  must be indicated.

–**dvdv-import** Create DVD-VIDEO zone from DVD-AUDIO zone.

  Import DVD-Video standard compliant files (16-24 bit/48-96 kHz

  from DVD-AUDIO to DVD-VIDEO.

–**mirror** Like –**dvdv-import** but resample audio tracks

  if they are not DVD-Video compliant (.wav files only)

–**mirror-strategy st Values for st are: 'high'' or 'low'.** If   necessary,
  –**mirror** will resample audio tracks

by upsampling (high) or downsampling (low)

–**hybridate** Alias for –**dvdv-import**

  –**dvdv-slides=**. . . with each slide the first slide of –**stillpics=**. . . for each
  audio track.

–**full-hybridate** Alias for –**mirror** –**miror-strategy** high

  –**dvdv-slides=**. . . with each slide the first slide of –**stillpics=**. . . for each
  audio track.

Software configuration

-D, –**tempdir** directory Temporary directory for DVD-Audio files (dvda-
author).

  Optional. CAUTION: tempdir will be erased unless –**no-refresh-tempdir** is
  used.

-9, –**datadir** directory Data directory with subdirectory 'menu' containing at
least default backgrounds for menus. Optional, only to be used when menus are
created.

, –**lplex-tempdir directory** Temporary directory for DVD-Video files (lplex)
  Optional.

-X, –**workdir** directory Working directory: current directory in command line
relative paths.

  By default, the current directory.

  With Code::Blocks and similar IDE, you may have to specify your root package
  directory as argument to –**workdir**.

  –**no-refresh-tempdir Do not erase and recreate the DVD-Audio temporary directory on launch**
  Do not erase and recreate the output directory on launch.

–**bindir path** Path to auxiliary binaries.

Sub-options

  fixwav sub-options:

simple-mode

  Deactivate default automatic mode and advanced options.
  User will be asked for more information.

prepend

  Prepend header to raw file, maybe virtually

in-place

  Correct header in the original file (not advised) unless real is set later

cautious

  Be cautious when overwriting files in-place

interactive

  Request information from user.

padding

  Pad files according to WAV standard

prune

  Cuts off silence at end of files

force

  Launches fixwav before SoX for mangled headers

output=sf

  Copy corrected file to new filepath with string suffix sf

infodir=db

  Copy info chunks from wav headers to file db/database

virtual

  Forces virtual behavior over previous settings (files will be unmodified)

real

  Forces real behavior over previous settings (files will be modified)

  Sub-options should be separated by commas and appended

  after short option or after = sign if long option is used:

  -f/-Fsuboption or –fixwav(-virtual)=suboption without any whitespace
    in between them.

  Example: **–fixwav**=*simple-mode*,prepend,interactive,output=new

  Still pictures:

  p11,p21,. . .,pn1-p22,p22,. . .,pn2-. . .

  with tracks separated by hyphens and pictures by colons.

  Examples: **-g** *~/a.wav* **–stillpics** image1.jpg,image2.jpg,image3.jpg:image4.jpg,image5.jpg,image6.jpg

  If there are no pics for a track use :: as below (no pics for second track):

  -g *~/a.wav* ~/b.wav *~/c.wav* **–stillpics** image1.jpg,image2.jpg,image3.jpg::image4.jpg,image5.jpg,image6.jpg

  Still picture transition effects:

rank=k

k is the absolute rank of stillpic (0-based) to which the following options apply (order-dependent).

start=k

  picture starts at k sec from start of track.

manual

  Enable browsable (manual advance) pictures (experimental).

starteffect=effect

  transition effect at start of pic: cut (default), fade, dissolve, top-wipe, bottom-wipe, left-wipe, right-wipe.

endeffect=effect

  like starteffect at end of pic show (under development)

lag=k

  k is the duration of transition effect in multiples of 0.32 second (k < 16).

active

  menu links will be displayed on still picture and remain active while listening.
  Example: −**stilloptions** rank=0,start=03,starteffect=fade,lag=12,rank=1,start=20,starteffect=dissolve,lag=15
  Transition effects like fade or dissolve may vary depending on hardware.
  End effects may be visible only when several pictures are used for a track slide.
  If a track has just one still pic, only start effects may be visible.

Note: for optional arguments noted (=. . .) above, usage is either

  -xY, with x the option flag and Y the argument, or
  −**option**=*argument*.

There must be a maximum of 9 audio groups.

Each subdirectory of an audio input directory will contain titles

for a separate audio group.

A number between 1 and 9 must be included as the second character of the

subdirectory relative name.

Full Input/Output paths must be specified unless default settings are set.

By default, defaults are set in */full* path to dvda-author folder/defaults

EXAMPLES

-create a 3-group DVD-Audio disc (legacy syntax):

  dvda-author -g file1.wav file2.flac -g file3.flac -g file4.wav

-create a hybrid DVD disc with both AUDIO_TS mirroring audio_input_directory

  and VIDEO_TS imported from directory VID, outputs disc structure to directory
    DVD_HYBRID and links video titleset #2 of VIDEO_TS to AUDIO_TS:
  dvda-author -i ~/audio/audio_input_directory
  -o DVD_HYBRID -V Video/VID -T 2

-create an audio folder from an existing DVD-Audio disc:

  dvda-author –extract /media/cdrom -xlist 1-3:2-5:3,...,7,9-6-7 -o dir

will extract audio groups 1, 3 (track 2), 5 (tracks 3 to 7 and 9), 6 and 7 of the
disc to

dir/g1, dir/g3, dir/g5, dir/g6, and dir/g7 respectively.

Required compile-time constants:

_GNU_SOURCE, ___CB___ if compiling with Code::Blocks or similar IDE.

Optional compile-time constants:

LONG_OPTIONS for the above long options (starting with –)

SHORT_OPTIONS_ONLY to block all long options.

LOCALE to recompile for another locale than the default "C".

SETTINGSFILE to specify default filepath of the configuration file.

FLAC___HAS_OGG to enable Ogg FLAC support.

_LARGEFILE_SOURCE,_LARGE_FILES,_FILE_OFFSET_BITS=64

to enable large file support.

ALWAYS_INLINE forces code inlining.

WITHOUT_sox to compile without SoX code

WITHOUT_FLAC to compile without FLAC/OggFLAC code

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REPORTING BUGS

Report bugs to fabnicol@users.sourceforge.net

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Latest version available from http://dvd-audio.sourceforge.net/

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SEE ALSO

The full documentation for **dvda-author** is maintained as a Texinfo manual. If the **info** and **dvda-author** programs are properly installed at your site, the command

info dvda-author

should give you access to the complete manual.

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