FFAB

FFmpeg Audio Batch

A cross-platform GUI for designing complex audio filter chains, batch processing, and creative sound mangling — powered by FFmpeg.

Version	1.0.3 · February 2026 · Stable
Platforms	macOS 12+ (Universal) · Linux Ubuntu 24 (x86 & ARM – AppImage)
Built With	C++ / Qt 6 · FFmpeg 8
License	Donationware · Source code public on GitHub
Developer	Daniel Findlay · @disuye · Hong Kong

WHAT IS FFAB?

FFAB is a desktop application that puts a visual, drag-and-drop interface on top of FFmpeg's powerful but notoriously cryptic audio engine. It's built for anyone who works with audio files and wants the power of FFmpeg without memorising command-line syntax.

Think of it as a mixing console for file processing: load audio, stack filters like an effects rack, preview in real time, then batch process thousands of files with a single click. FFAB generates the FFmpeg commands behind the scenes — you can copy and paste them directly into a terminal if you want.

For musicians, sound engineers, media archivists, sonic artists, and anyone curious enough to collide thousands of files together into one hot mess.

WHO IS IT FOR?

- Musicians & producers — batch convert, master, or mangle entire sample libraries
- Sound designers — creative batch algorithms for generative audio and happy accidents
- Podcast & video editors — normalize, denoise, and process dialog across hundreds of files
- Audio archivists — bulk format conversion with metadata extraction and logging
- FFmpeg power users — visual prototyping of complex filter chains, copy commands to terminal

KEY FEATURES

Visual Filter Chain Drag-and-drop effects rack with 90+ FFmpeg audio filters. Mute, solo, reorder.	**Real-Time Preview** Waveform display, click-to-seek, region select. Hear your chain before committing.	**7 Batch Algorithms** Sequential, Iterate, Zip, Broadcast, Random, Cartesian, Triple Cartesian.
Sidechain & Parallel Sidechain inputs, convolution IR, audio split with up to 8 parallel sub-chains.	**Video Passthrough** Process audio on video files. Original video untouched — zero transcode.	**Command Builder** View, edit, and copy the raw FFmpeg command. Syntax highlighted.

BATCH PROCESSING — THE CORE CONCEPT

FFAB's batch engine goes far beyond simple sequential processing. Seven algorithms cover everything from straightforward format conversion to generative audio experiments:

Sequential	Apply the filter chain to every file. The workhorse: N in → N out.
Iterate	Feed each output back through the chain R times. Photocopy-of-a-photocopy degradation.
Zip	1:1 pairing of main + aux files. Merge mono L + R, per-file sound bites.
Broadcast	One aux file applied to all main files (fixed or random selection).
Cartesian	Every main × every aux combination. Test 100 IRs against one signal.
Triple	Three-way Cartesian product. Fills disks fast — use responsibly.

90+ AUDIO FILTERS

FFAB wraps nearly every FFmpeg audio filter in a clean, consistent GUI. Each filter has its own parameter panel with sensible defaults. Categories include:

Dynamics — Compressor, Limiter, Gate, De-esser, Loudness Norm, Dialog Enhance

EQ & Filters — Parametric EQ, 18-Band EQ, Shelving, Tilt, High/Low/Band/Notch

Harmonics — Soft Clip, Bit Crush, Psychoacoustic Clipper, Crystalizer

Modulation — Chorus, Flanger, Phaser, Tremolo, Vibrato

Stereo & Spatial — Widener, M/S Tools, Crossfeed, SOFA Spatializer, Surround Upmix

Time & Pitch — Rubberband, Loop, Trim, Fade, Echo, Tempo, Delay

Restoration — FFT Denoise, Declick, Declip, DC Shift

Analysis — Waveform Image, Spectrogram, DR Meter, ReplayGain, Audio Stats

UNDER THE HOOD

- DAG-based stream routing — audio connections modelled as a Directed Acyclic Graph for reliable, complex filter topologies
- Non-embedded FFmpeg — calls the user's own FFmpeg binary (v8). FFAB can also fetch, verify (SHA-256), and install FFmpeg automatically
- Preset system — save/load complete processing states including filter chains, parameters, file lists, and output settings
- Full logging — configurable log levels, real-time log window, exportable log files for debugging or capturing analysis data
- Apple notarized — no Gatekeeper warnings on macOS. Linux builds via GitHub Actions CI/CD
- C++ / Qt 6 — native performance, cross-platform from a single codebase. Source code public on GitHub

FORMAT SUPPORT

Input and output: any audio format FFmpeg supports — WAV, AIFF, FLAC, MP3, AAC, OGG, Opus, WMA, M4A, and more. Sample rates from 8 kHz to 192 kHz. Bit depths from 8-bit to 32-bit float. Video passthrough preserves original video quality with zero transcode.

PRESS & COVERAGE

Beta launch featured on CDM (Create Digital Music) — one of the leading publications covering music technology, creative tools, and digital instruments.

https://cdm.link/free-ffmpeg-gui-audio/

LINKS & CONTACT

Website	https://disuye.com/ffab
GitHub	https://github.com/disuye/ffab
Download	https://github.com/disuye/FFAB/releases

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FFAB is Free & Open Source

www.disuye.com/ffab