





Y. Collette (ycollette.nospam@free.fr) https://audinux.github.io





The Live Coding 1/5

SuperCollider: https://supercollider.github.io

Play {sinosc.ar (onepole.ar (mix (lfsaw.ar ([1,0.99], [0,0.6], 2000,2000) .trun ([400,600])*[1, -1]), 0.98).

https://www.youtube.com/watch?v=wNWFSIadAH8

CSound: http://www.csounds.com

sr = 44100 ksmps = 32 nchnls = 2 0dbfs = 1 instr 1 iflg = p4 asig oscils .7, 220, 0, iflg outs asig, asig

QuteCsound

Chuck: http://chuck.cs.princeton.edu

// set the global gain .1 => dac.gain;

// connect SinOsc a => dac; 110.0 => a.freq; 1::second => now; SinOsc b => dac; 220.0 => b.freq; miniAudicle

https://www.youtube.com/watch?v=BHooZu5xzAs https://www.youtube.com/watch?v=vNrRdyDIniQ





The Live Coding 2/5

https://sonic-pi.net





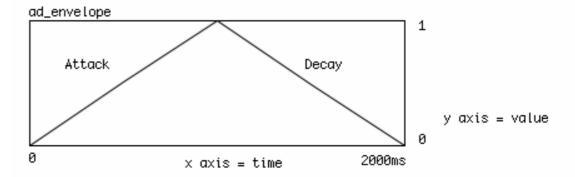


The Live Coding – 3/5

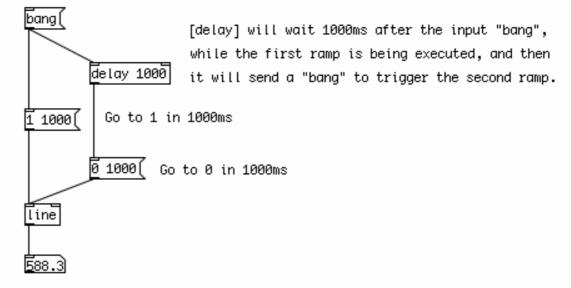
Pure Data: https://puredata.info

A visual programming tool dedicated to audio and video.

Graphical representation of a simple up/down, or Attack/Decay (AD) envelope.



eq2.pd



BY

24/08/2013 Y.



The Live Coding – 4/5

ProjectM: a video diffuser synchronized at the audio

https://github.com/projectm-visualizer/projectm

ProjectM code from Winamp.

To launch the Jack version of Projectm

\$ projectM-jack

To launch the Pulseaudio version of Projectm

\$ projectM-pulseaudio

F1: Help

F2: song title

F3: Preset name

F4: Rendering configuration

F5: FPS

F11: Full screen

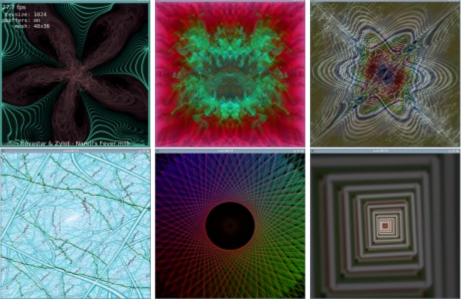
L: Ventu / delay the preset

M: displays the menu

A: random preset

N: Next preset

P: Previous preset







The Live Coding – 5/5 https://biniou.net



To start Lebiniou: \$ lebiniou -Input Jackaudio

And in the event of a conflict on access to the webcam:

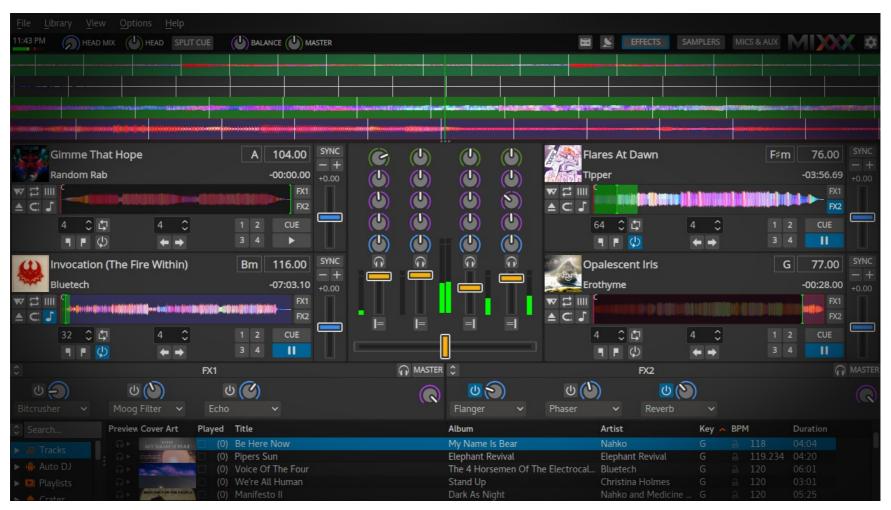
\$ lebiniou -Input Jackaudio -Wabcams 0

Lebiniou starts a control window (left) and an animation window (right). You must then connect the lebiniou input to an audio output.





Mixxx For the Djing



https://www.mixxx.org





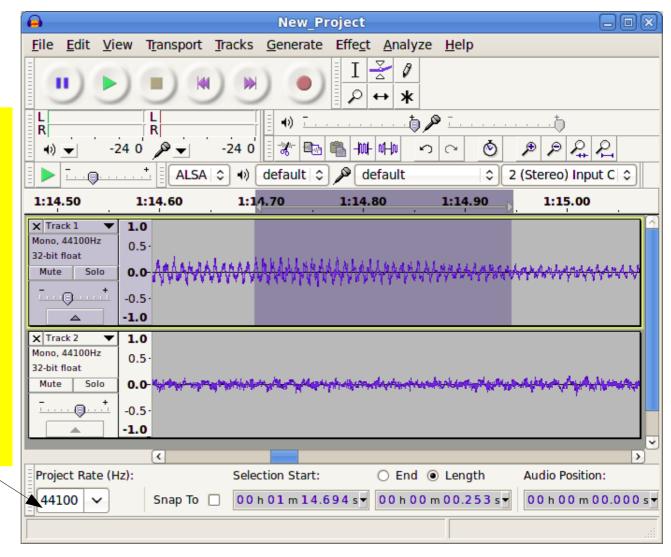


Audacity The audio editor

When we use Audacity with Jack, take care to adjust the sampling frequency:
Edition → Preferences → Quality

It will be necessary to match this sampling frequency with that of Jack.

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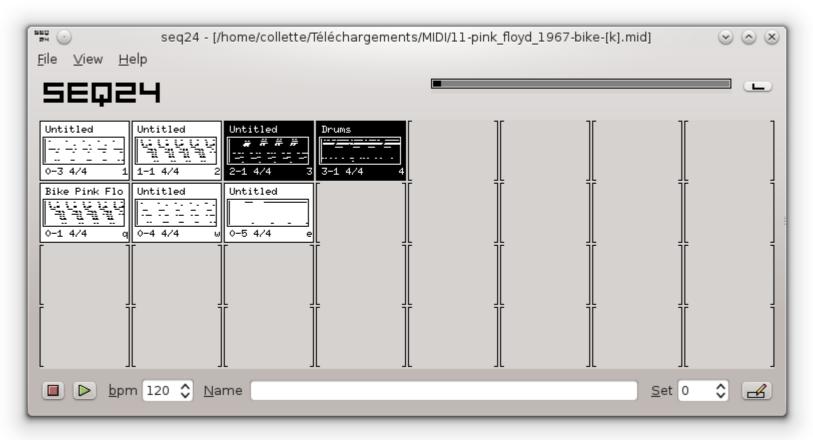


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8 **CC B**Y



SEQ24 A matrix sequencer



https://launchpad.net/seq24 https://github.com/ahlstromcj/sequencer64



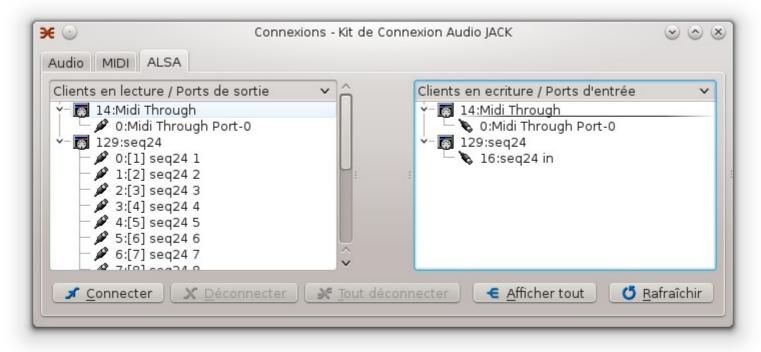


SEQ24 Jack side

Recommended command line start:

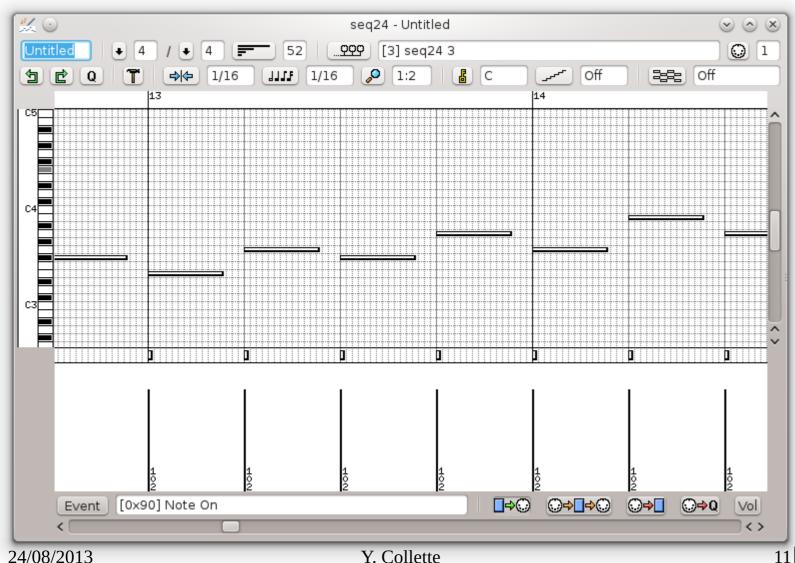
\$ seq24 -m

-M, - -Manual_alsa_ports: SEQ24 will not reserve Alsa ports





SEQ24 The MIDI editor



seq192 seq24 seq42 seq66



OPENAV / LUPPP A matrix sequencer

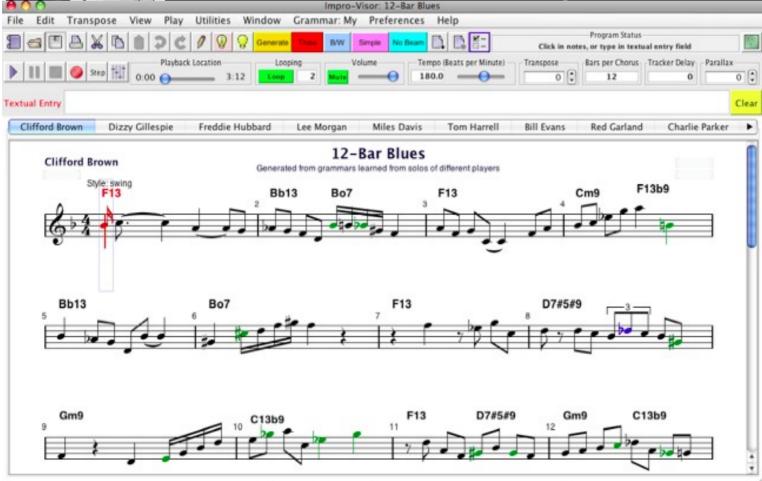


http://openavproductions.com/luppp





Improvisor For jazz



\$ dnf install Impro-Visor

https://www.cs.hmc.edu/~keller/jazz/improvisor/





Improvisor For jazz

To connect improvisor to Qsynth, you must launch the MIDI virtual interface of Alsa:

\$ sudo modprobe snd-virmidi

We obtain 4 Virtual Raw Midi as shown the following image: In Alsa Out, we have:

14: Midi Through

20: Virtual RAW MIDI 1-0

21: Virtual RAW MIDI 1-1

22: Virtual RAW MIDI 1-2

23: Virtual RAW MIDI 1-3

After that, just connect improvisor to a virtual Rawmidi and Qsynth input to a virtual Rawmidi output.

In Alsa in, we have:

14: Midi Through

20: Virtual RAW MIDI 1-0

21: Virtual RAW MIDI 1-1

22: Virtual RAW MIDI 1-2

23: Virtual RAW MIDI 1-3

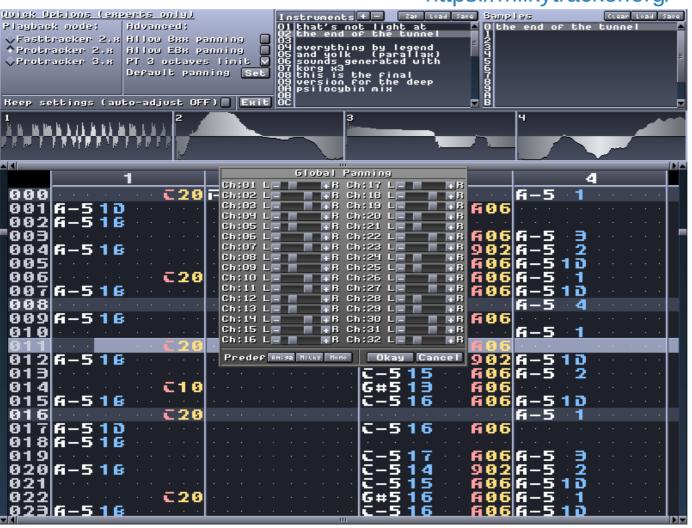
128: Timidity



Milkytracker



https://milkytracker.org/



Historical

Soundtracker – 1987 (Amiga) Protracker – 1990 (Amiga) Octamed – 1991 (Amiga) Scream Tracker 3 – 1993 (PC) Fast Tracker 2 – 1995 (PC) Impulse Tracker 2 – 1996 (PC) Renoise – 2000 (PC & Mac)

File type : XM - MOD - IT - S3M See Wikipedia article

Skaletracker – 2003 (PC)

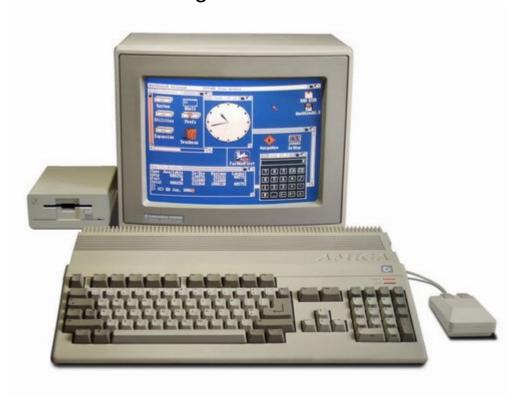
Exemple YouTube



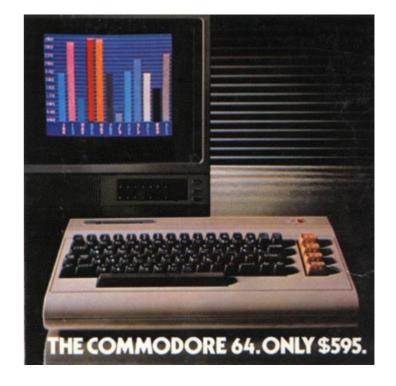


Milkytracker

Amiga - 1987



Commodore - 1982





Klystrack



Example on YouTube

https://kometbomb.github.io/klystrack/

Y. Collette



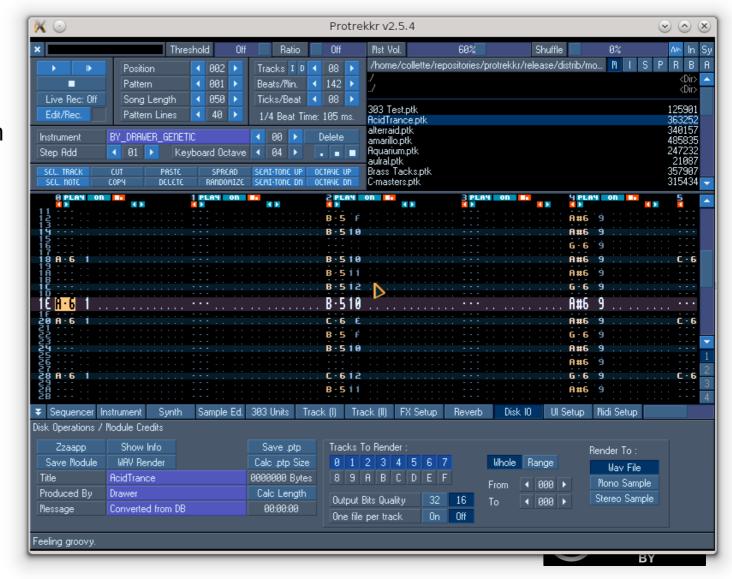
Protrekkr

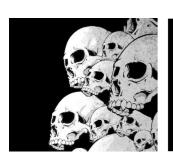
https://github.com/falkTX/protrekkr

Two versions of Protrekkr exist:

- an OSS version
- a jack version
 The version hosted on
 Github is Jack
 compatible.

Example on YouTube





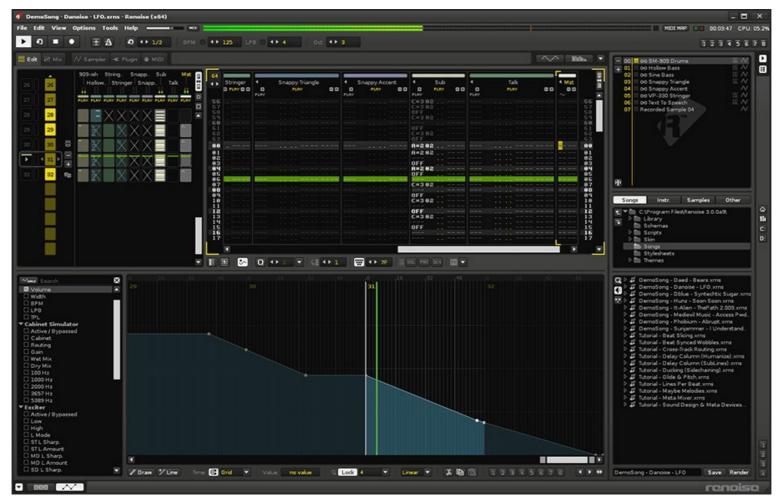
Trackers

- \$ dnf install BambooTracker
- \$ dnf install famitracker
- \$ dnf install fasttracker2
- \$ dnf install goatracker
- \$ dnf install hivelytracker
- \$ dnf install plebtracker
- \$ dnf install protracker2
- \$ dnf install schismtracker
- \$ dnf install tiatracker
- \$ dnf install soundtracker
- \$ dnf install furnace
- \$ dnf install protrekkr
- \$ dnf install protrekkr2
- \$ dnf install tutka
- \$ dnf install zytrax

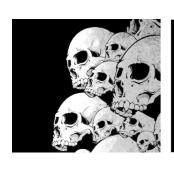


Renoise

https://www.renoise.com



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Various

Files for Protrekkr and Milkytracker:

https://modarchive.org

Rivendell - Open Source radio

https://www.rivendellaudio.org

Jack Net / Jamulus / Ninjam Music via Internet

https://jamulus.io

https://www.cockos.com/ninjam



Webography

Presets of all kinds for Linux tools:

https://musical-artifacts.com

Sources of samples:

https://freesound.org

https://archive.org

https://wiki.laptop.org/go/free_sound_samples

Documentations of various tools:

https://en.flossmanuals.net

Community site:

http://linuxmao.org/accueil

https://librearts.org/

https://www.linuxaudio.org https://linuxmusicians.com

https://linuxdaw.org/

Files for mixing:

Nine Inch Nails songs:

https://nindestruct.com/remix.html

Different songs:

https://www.cambridge-mt.com/ms/mtk

Live Coding resources:

https://sccode.org/