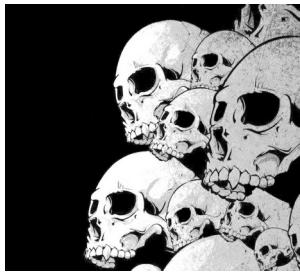


# Guitarix



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

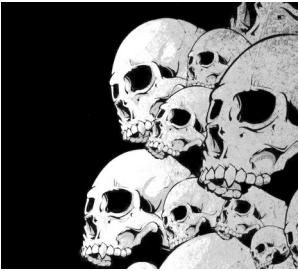




# Guitarix

<https://guitarix.org/>





# Some old ads

→ Effect: Tube Drive  
Drive 1: 30%  
Drive 2: 20%  
Midrange: Centered  
Output: 70%  
EQ: High-Mid Boost

PC PREMIER GEAR

THE CLASSIC TUBE AMP EXPERIENCE.  
ROAD CASE FULL OF BRICKS SOLD SEPARATELY.  
We've unloaded a four-ton full of acoustic tube amps and fuzz boxes and packed them into one monitor pedal. A dreamer's dream, the Soundblox Pro Classic Distortion features 11 meticulously crafted and familiar sounding distortion effects—all highly customizable via the onboard 7-band equalizer and dual drive controls. Plus, with six programmable presets, speedy recall of your favorite tones is a lice tap away. Hear the testing above and learn more about all of our effects at [sourceaudio.net/guitar](http://sourceaudio.net/guitar).

For more information contact DOD Electronics Corporation.

JOHN HORNBY SK 272  
SALEM HOUSE, GANTFORD, LEEDS  
01924 452 222

REEVES GABELLS  
ADRIEN GELIN  
CHUCK GARVEY  
VICTOR GIBBONS  
STEVEN WILSON  
HERBIE HANNAH  
CARL BRUGMEL  
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JIM JAMES  
HERMAN LI  
JAKE CUNNINGHAM

SOUNDblox® PRO CLASSIC DISTORTION

Soundblox® Pro  
• Multistage Bass Distortion  
• Multistage Treble Distortion  
• Tremolo Mod  
• Reverb  
• Delay  
• Flanger

SOUNDblox® Pro  
• Multistage Bass Distortion  
• Multistage Treble Distortion  
• Tremolo Mod  
• Reverb  
• Delay  
• Flanger

SOURCE AUDIO

EFFECTS EVOLUTION SOURCEAUDIO.NET

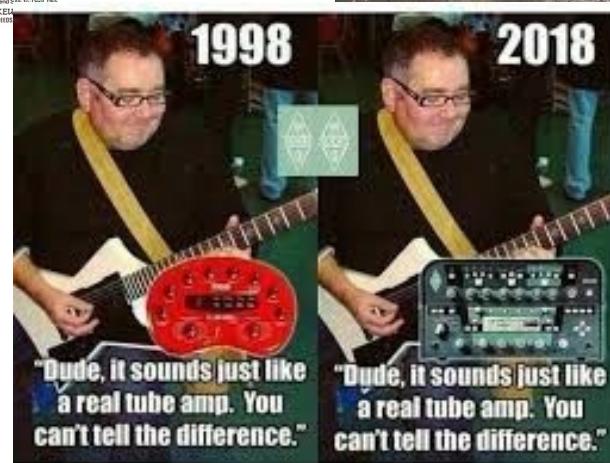
HEAT IT UP.

From warm, tube-type overdrive, and crafted to play cleaner and last longer than any other pedal you can buy.

To hard-driving fuzz, to hot screaming metal, the FX 50-series pedals can help you make any distortion sound there is to make.

And like every model in our line, the FX 50 series is designed

DOD Manufactured in the U.S.A. with a limited 3-year warranty.



JACK'S GUITARCHEOLOGY

CLAYBRIDGE

# Fuzzmaster

A NEW DIMENSION IN FUZZ EFFECTS

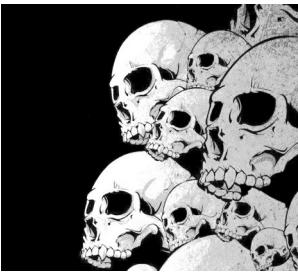
TRANSISTORISED — FULLY VARIABLE FUZZ CONTROL — TREBLE BOOSTED

You may have tried Fuzz boxes before, but don't jump to any conclusions about Fuzzmaster. The fully variable, treble boosted fuzz puts Fuzzmaster way in front. Visit your music store today, try Fuzzmaster, and discover a new meaning of the word fuzz.

FULL PRICE \$36

A CLAYBRIDGE SOUND PRODUCT

60 BEDDOE AVE., CLAYTON, VICTORIA.



# Some old promises

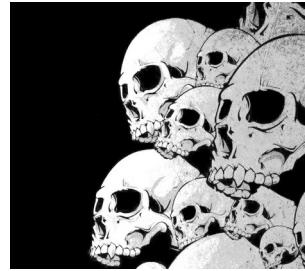
In the 1980s, the "death of tubes" was heralded with transistor distortions, the Rockman, and later the SansAmp—a promised revolution, but tube amps never disappeared.

In the 2000s and 2010s, Line 6 PODs, then Kemper/Axe-FX, were heralded as "the death of the amp and pedalboard"—again, they mostly added a new palette of tools.

Today, with NAM, AIDA-X, Neural DSP, etc., the narrative is back: "plugins/AI replace everything"... but amps, pedals, and open-source solutions like Guitarix + IR + LADSPA/LV2 under Linux continue to offer excellent sounds.

"For 40 years, every new technology has promised to kill tubes and pedals... Yet, the good sounds were already there. What's really changing is the accessibility and diversity of tools."

"No need to wait for the next revolution: with Guitarix, IR and free plugins under Linux, we already have the tools to sculpt a professional sound."



# Guitarix

## General appearance

Activation of different windows



Effects available



General parameters



Tuner

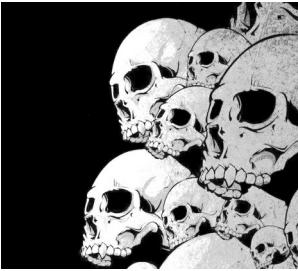


Effect rack



Presets





# Guitarix

## The buttons bar

Pool: activates / deactivate the display of the effect list bar.

Order: Reduces the height of all effect modules and allows you to easily click and reorganize these effects. This view is practical to reorganize large amounts of effects.

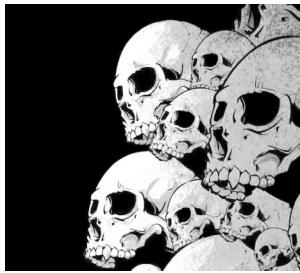
Tuner: Activates / deactivate the tacking of the tuning rack.

Rack: Activates / deactivate the Display of Effect Modules Rack.

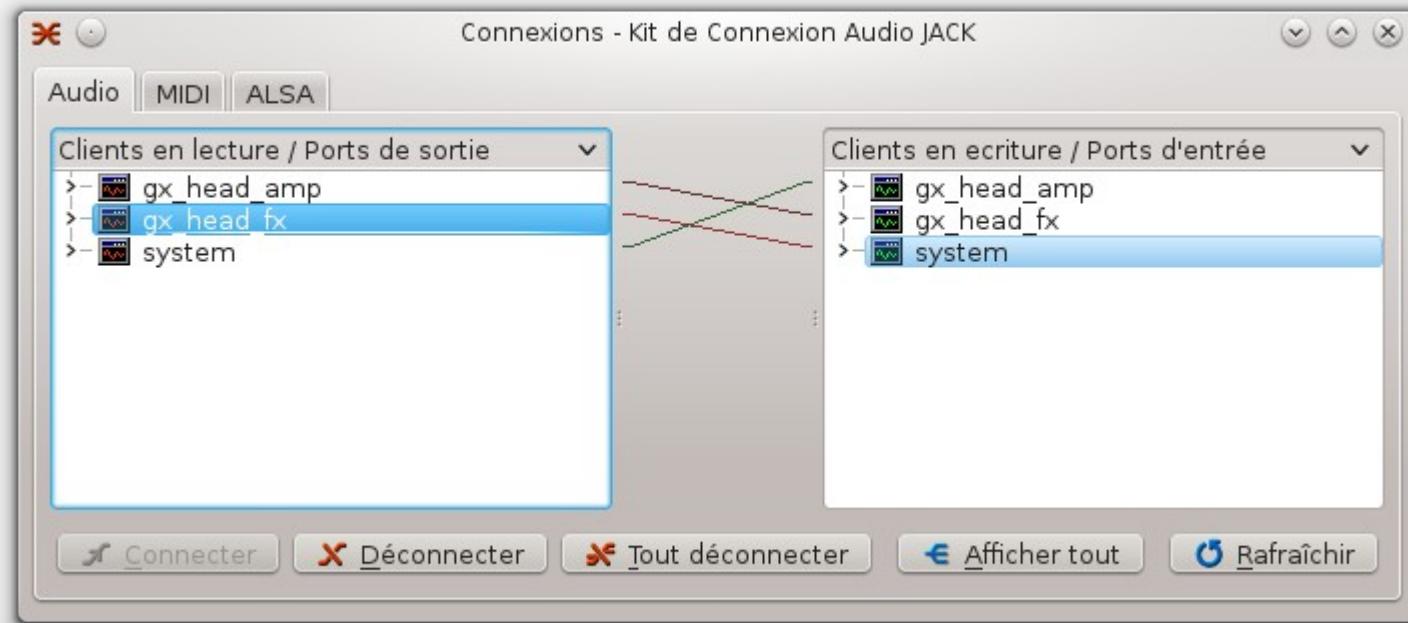
Split: displays the modules rack in two columns, mono grafts on the left column and stereo grafts on the right column.

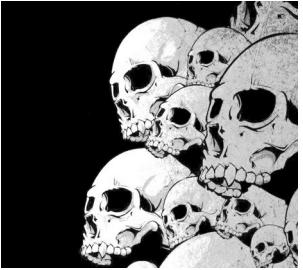
Fold / Show: the button less reduces the height of all effect modules. The button plus dilates.

Live: Displays a minimum full screen poster with preset information. Practical for live performance.



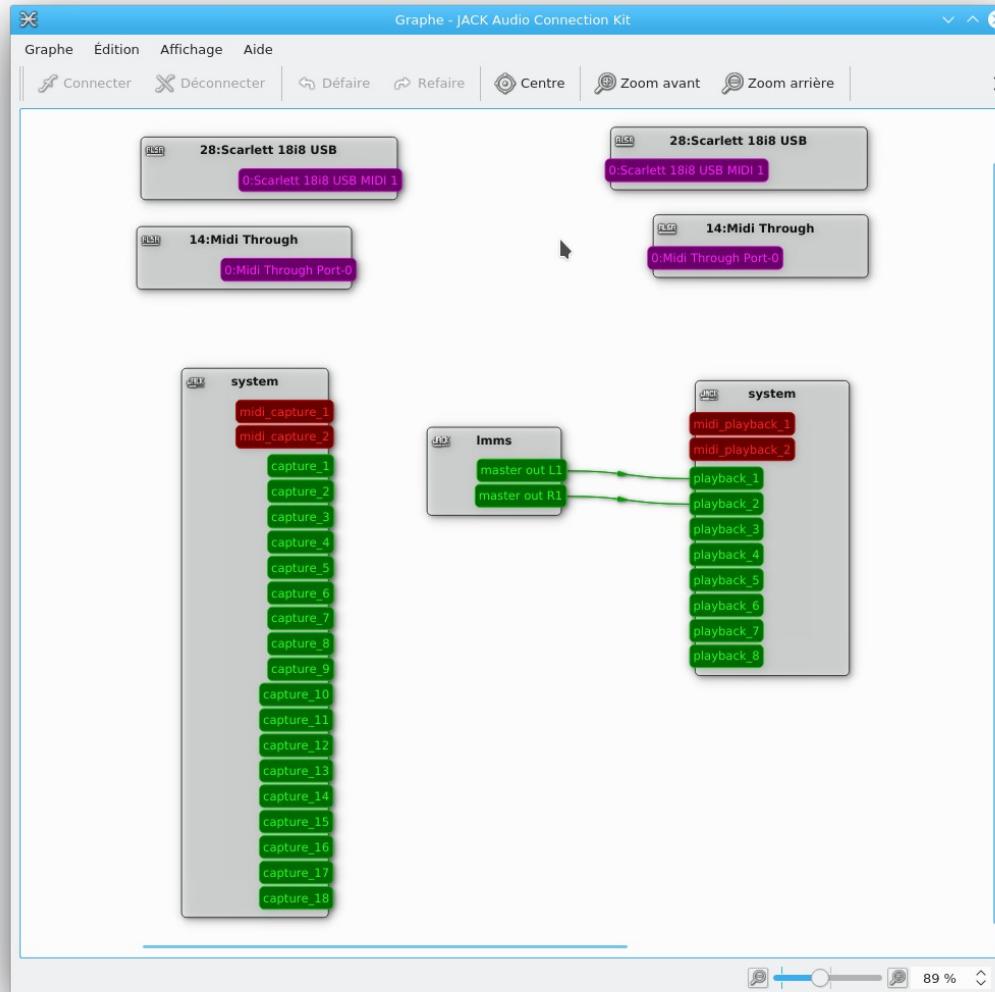
# Guitarix Jack side

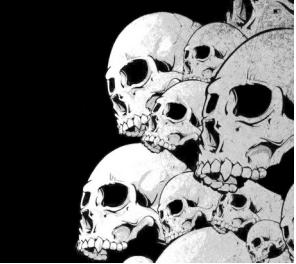




# Guitarix

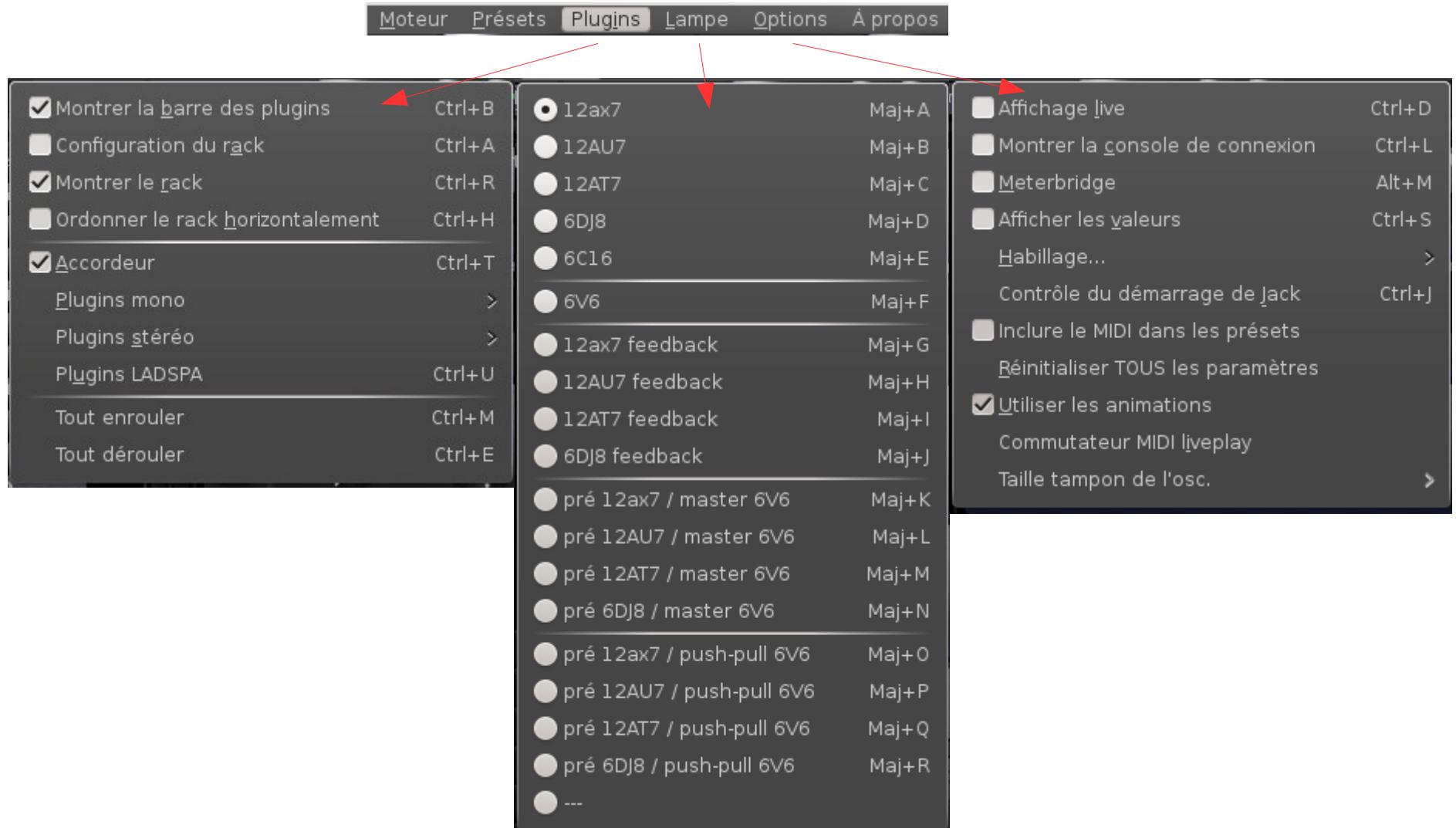
## Jack side - New connection window





# Guitarix The Menus

Moteur Présets Plugins Lampe Options À propos



Montrer la barre des plugins Ctrl+B

Configuration du rack Ctrl+A

Montrer le rack Ctrl+R

Ordonner le rack horizontalement Ctrl+H

Accordeur Ctrl+T

    Plugins mono >

    Plugins stéréo >

    Plugins LADSPA Ctrl+U

Tout enrouler Ctrl+M

Tout dérouler Ctrl+E

12ax7 Maj+A

12AU7 Maj+B

12AT7 Maj+C

6DJ8 Maj+D

6C16 Maj+E

6V6 Maj+F

12ax7 feedback Maj+G

12AU7 feedback Maj+H

12AT7 feedback Maj+I

6DJ8 feedback Maj+J

pré 12ax7 / master 6V6 Maj+K

pré 12AU7 / master 6V6 Maj+L

pré 12AT7 / master 6V6 Maj+M

pré 6DJ8 / master 6V6 Maj+N

pré 12ax7 / push-pull 6V6 Maj+O

pré 12AU7 / push-pull 6V6 Maj+P

pré 12AT7 / push-pull 6V6 Maj+Q

pré 6DJ8 / push-pull 6V6 Maj+R

---

Affichage live Ctrl+D

Montrer la console de connexion Ctrl+L

Meterbridge Alt+M

Afficher les valeurs Ctrl+S

Habillement... >

Contrôle du démarrage de Jack Ctrl+J

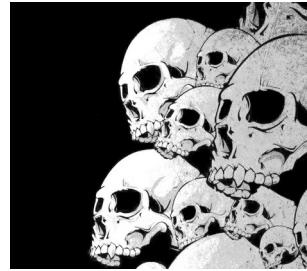
Inclure le MIDI dans les présets

Réinitialiser TOUS les paramètres

Utiliser les animations

Commutateur MIDI liveplay

Taille tampon de l'osc. >



# Guitarix

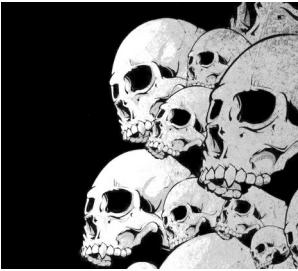
## The structure of a rack

Pre-amplifier effects

Amplifier

Post-amplifier effects





# The tube amp emulator



Mixture  
between signal  
with and  
without  
distortion

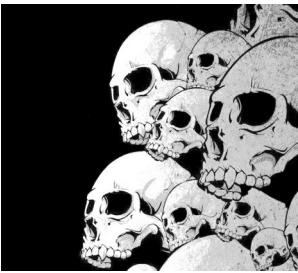
Sound  
characteristics  
settings

Signal gain

Setting with lamp choice  
just for the amplifier

- 12ax7
- 12AU7
- 12AT7
- 6DJ8
- 6C16
- 6V6
- 12ax7 feedback
- 12AU7 feedback
- 12AT7 feedback
- 6DJ8 feedback
- pré 12ax7 / master 6V6
- pré 12AU7 / master 6V6
- pré 12AT7 / master 6V6
- pré 6DJ8 / master 6V6
- pré 12ax7 / push-pull 6V6
- pré 12AU7 / push-pull 6V6
- pré 12AT7 / push-pull 6V6
- pré 6DJ8 / push-pull 6V6

Setting with choice of lamp  
for pre-amplifier / amplifier



# Cabinet

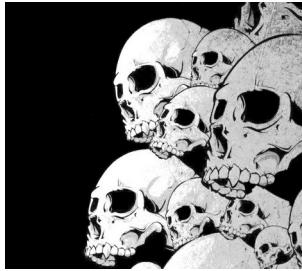
- 4X12
- 2X12
- 1X12
- 4X10
- 2X10
- HighGain Style
- Twin Style
- Bassman Style
- Marshall Style
- AC-30 Style
- Princeton Style
- A2 Style
- 1X15
- Mesa Boogie Style
- Briliant
- Vitalize
- Charisma



Cabinet 4x12



Cabinet Princeton style



# Plugin management

## LADSPA / LV2

Plugin type selection area  
(LADSPA / LV2)

List and selection of plugins  
to add to rack

Plugin type selection area (LADSPA / LV2)

List and selection of plugins to add to rack

Select LADSPA/LV2 plugins for Guitarix

Show:  All  LADSPA only  LV2 only  Selected  Changed mono/stereo

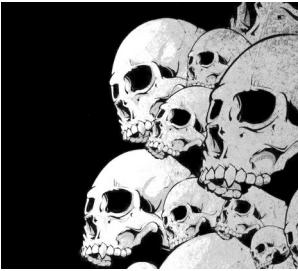
Select All Select None Show Details

- 4 x 4 pole allpass
- A-Law Compressor
- Aliasing
- Allpass delay line, cubic spline interpolation
- Allpass delay line, linear interpolation
- Allpass delay line, noninterpolating
- AM pitchshifter
- Artificial latency
- Audio Divider (Suboctave Generator)
- Auto phaser
- Barry's Satan Maximiser
- C\* AmpVTS - Tube amp + Tone stack
- Capo
- C\* AutoFilter
- C\* CabinetIV - Idealised loudspeaker cabinet emulation
- C\* ChorusI - Mono chorus/flanger
- C\* Compress - Mono compressor
- C\* CompressX2 - Stereo compressor
- C\* Eq10 - 10-band equalizer
- C\* Eq10X2 - 10-band equalizer
- C\* Eq4p - 4-band parametric equaliser
- chebyshev distortion

strings to search for (use ▼/▲):

Aide Annuler Appliquer Enregistrer

CC BY



# Plugins for guitar

Interesting plugins for the guitar:

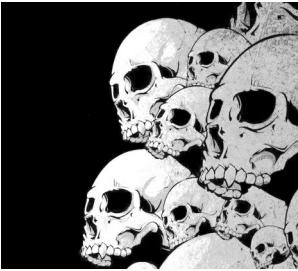
<https://portalmod.com/>

A distortion in LV2 format from Portalmod:

```
$ git clone https://github.com/portalmod/mod-distortion.git  
$ CD MOD-DISTORTION  
$ make # compilation  
$ ./mod_build # Installation in the user directory  
$ dnf installer mod-discontion
```

Tonality pedals in LV2 format from Portalmode:

```
$ git clone https://github.com/portalmod/mod-pitchshifter.git  
$ CD MOD-PITCHSHIFTER  
$ ./make.sh # compilation  
$ ./mod_build # Installation in the user directory  
$ dnf installer MOD-GXPITCHSHIFTER
```

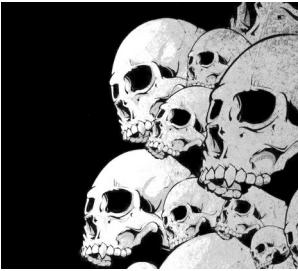


# Check via MIDI

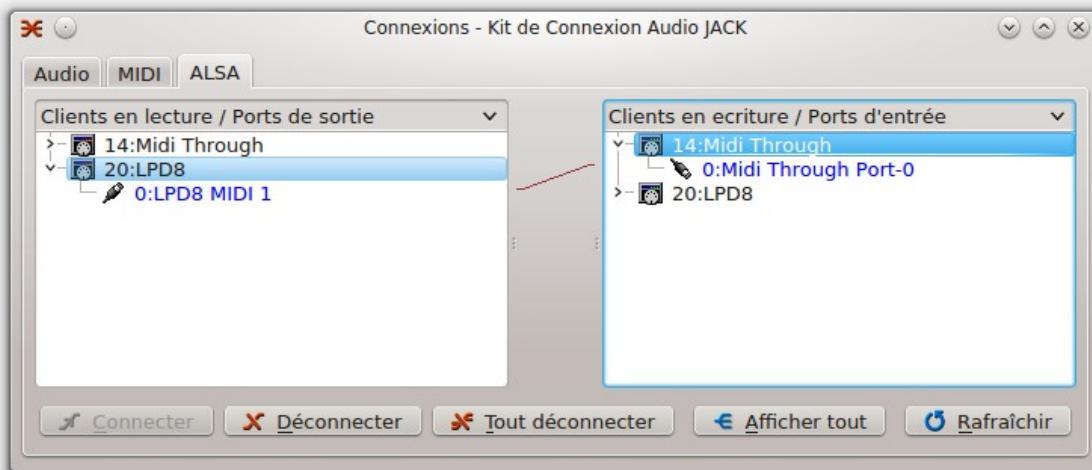


Objective: control an effect button via a MIDI instrument



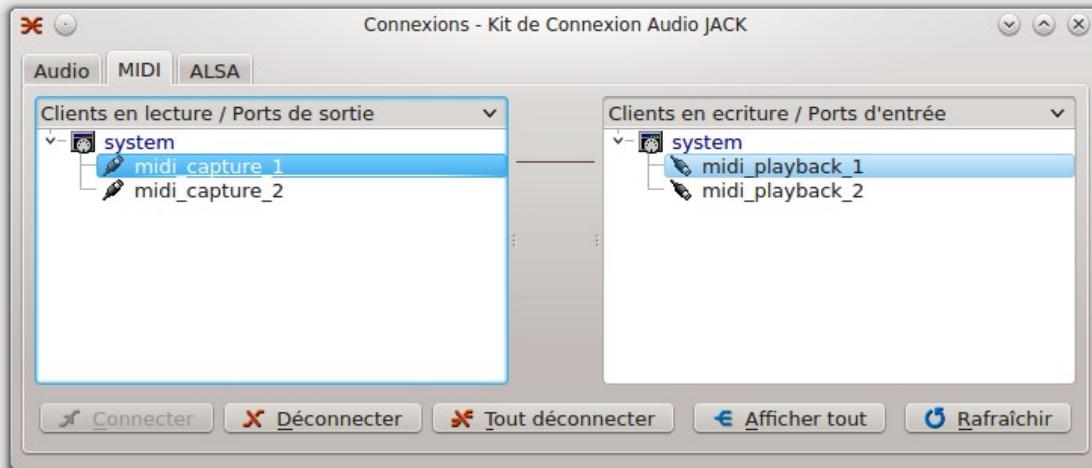


# Control via Midi Jack connections



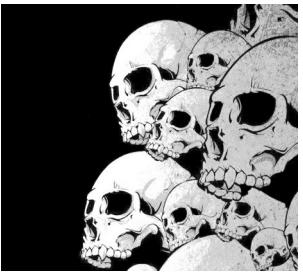
First step:  
Alsa tab:

We connect the MIDI output of  
the LDP8 to the System system  
input: MIDI\_PLAYBACK\_1



Second step:  
Midi tab:

We connect the system system  
output: MIDI\_CAPTE\_1 to the  
system system output:  
MIDI\_PLAYBACK\_1

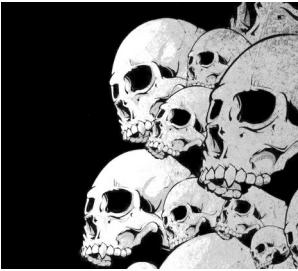


# Control via Midi MIDI / Guitarix association

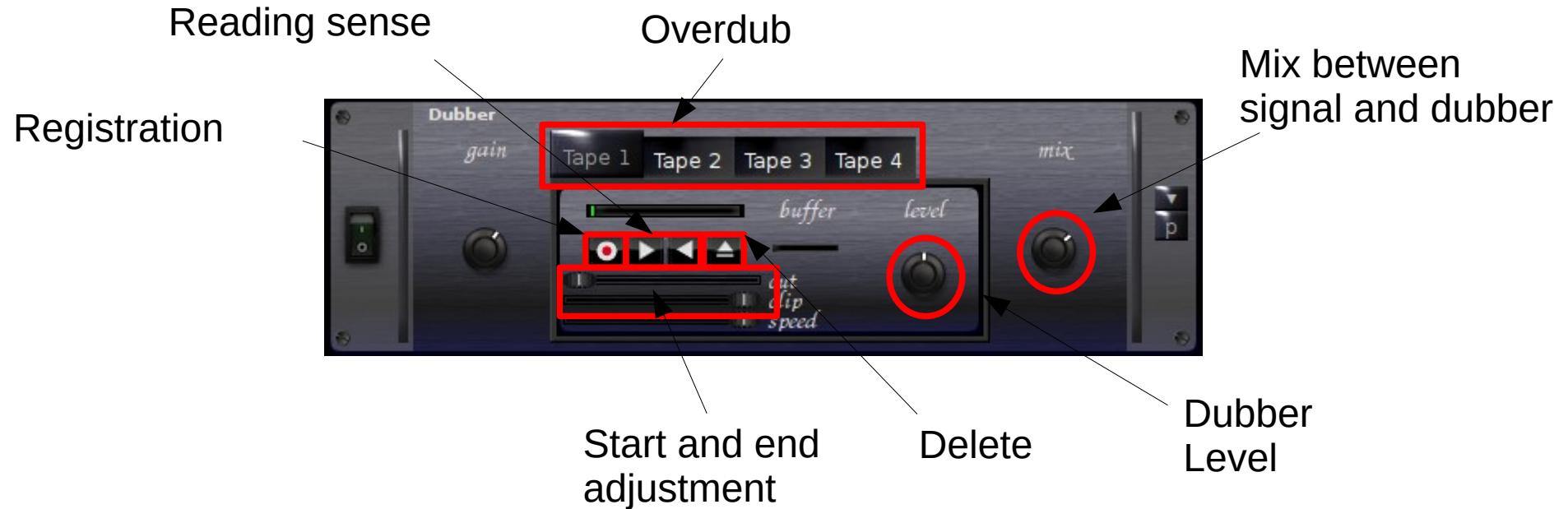


A click on the guitarix button to control with the middle of the mouse button or on the two buttons for a two buttons mouse reveals this dialog window. Then you have to move the MIDI button you want to use. The references of this MIDI button are then recovered by guitarix. You have to click on "Validate" to record the Association Midi / Guitarix button.

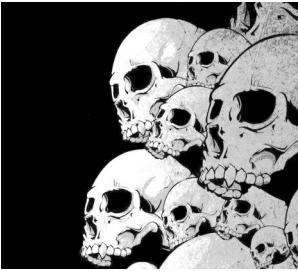
The engine menu → MIDI controller reveals this dialogue. By clicking on "Including MIDI controllers in the Presets" allows you to save MIDI / Guitarix associations when you save the presets.



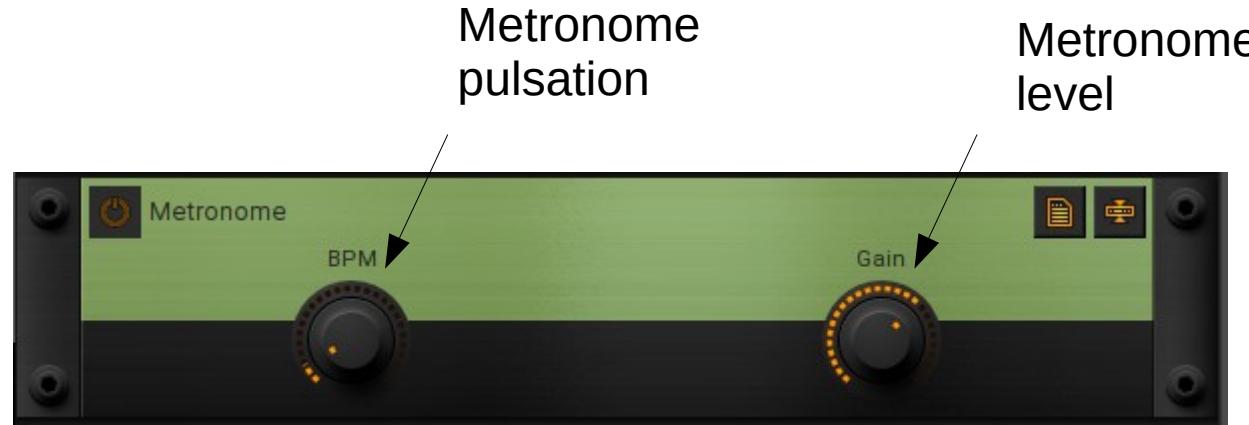
# The Dubber



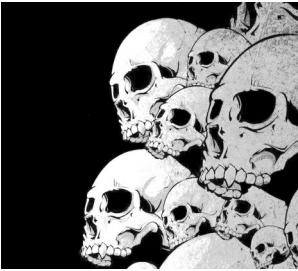
The Dubber allows you to record a sound loop and to replay it



# The metronome



The metronome diffuses a beat. The sound level of the beat is proportional to the level of the sound at the input.

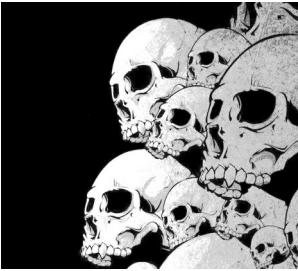


# Guitarix and web server 1/2

**Guitarix can be launched without graphical interface.  
It is then controllable via a web server.  
This web server can then be checked via a graphics tablet for example.**

**Guitarix compilation in web server mode:**

```
# We recover the source code of guitarix (Git must be installed)
$ git clone git://git.code.sf.net/p/guitarix/git guitarix
# We initialize guitarix dependencies
$ git submodule update -in
$ CD Trunk/Webui/Bootplate/
$ git submodule update -in
$ cd ../..
# We are now compiling guitarix (GCC must be installed)
$ ./waf Configure --Prefix=/Opt/Guitarix-Devel
$ ./waf
# We install everything
$ su -c ./waf install
```



# Guitarix and web server 2/2

1. Starting guitarix:

```
$ /opt/guitarix-devel/bin/guitarix -N
```

2. start the websockify program from the current directory (webui):

```
$ python -m websockify.websocketproxy --web=. '*' :8000 localhost:7000
```

3. open the URL <http://localhost:8000> in the desktop browser

You should be redirected to debug.html. index.html expects preprocessed files which can be generated with the deploy script:

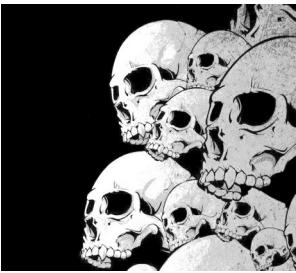
```
$ ./deploy.sh
```

This script creates the build/ directory which is used in index.html.  
deploy.sh needs the node program from node.js. For Debian/Ubuntu:

```
$ su -c dnf install nodejs
```

Next step :

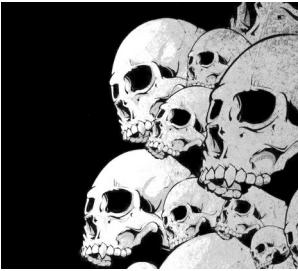
- open the port 8000 on the tablet and on the server ;
- connect to the guitarix web server via the tablet ;
- install this web server on the Raspberry Pi.



# Guitarix Scope

The Scope allows you to visualize the signal to a given place in the rack. It is practical because it makes it possible to visualize the influence of the settings of an effect. In this way, we can dose the quantity of distortion. Too much gain will generate an almost square signal. Not enough gain, the signal will remain sinusoidal. It remains to find the right dose.

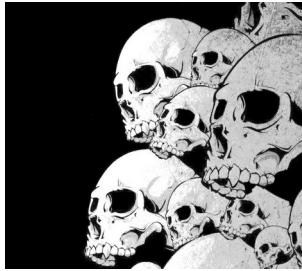




# Guitarix / VST3

It's now possible to use  
Guitarix as a VST3 plugin  
in Carla for example



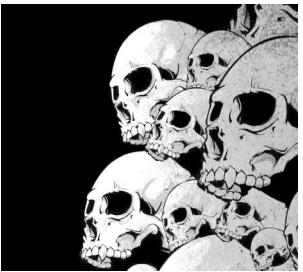


# Webography

You can access to a huge set of presets for Guitarix on Musical Artifacts :

<https://musical-artifacts.com/artifacts?apps=guitarix>

All these artifacts can be easily downloaded into Guitarix because Musical Artifacts is now integrated into Guitarix.



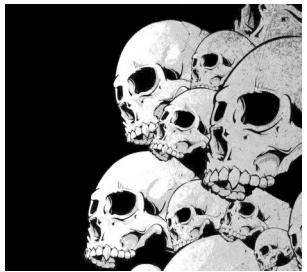
# Documentary



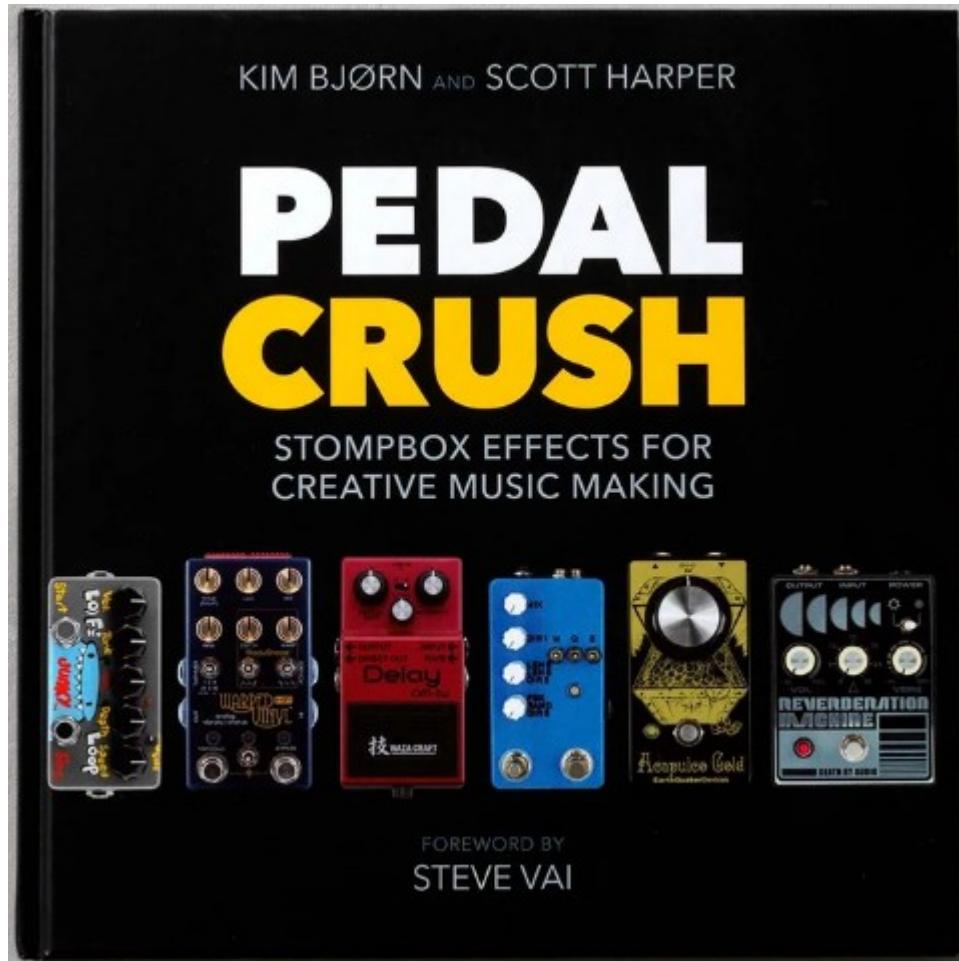
A good documentary about  
pedals, who made them ...

The PEDAL Movie :

<https://www.imdb.com/fr/title/tt11811310/>



# Book



A good book about pedals :

PEDAL CRUSH

<https://bjooks.com/en-fr/products/pedal-crush-stompbox-effects-for-creative-music-making>