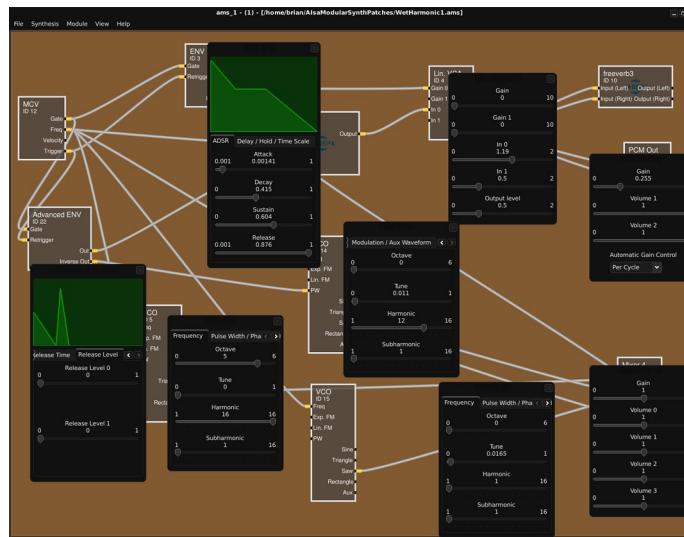
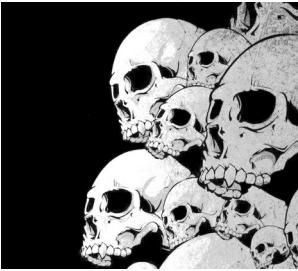


# Alesa Modular Synth



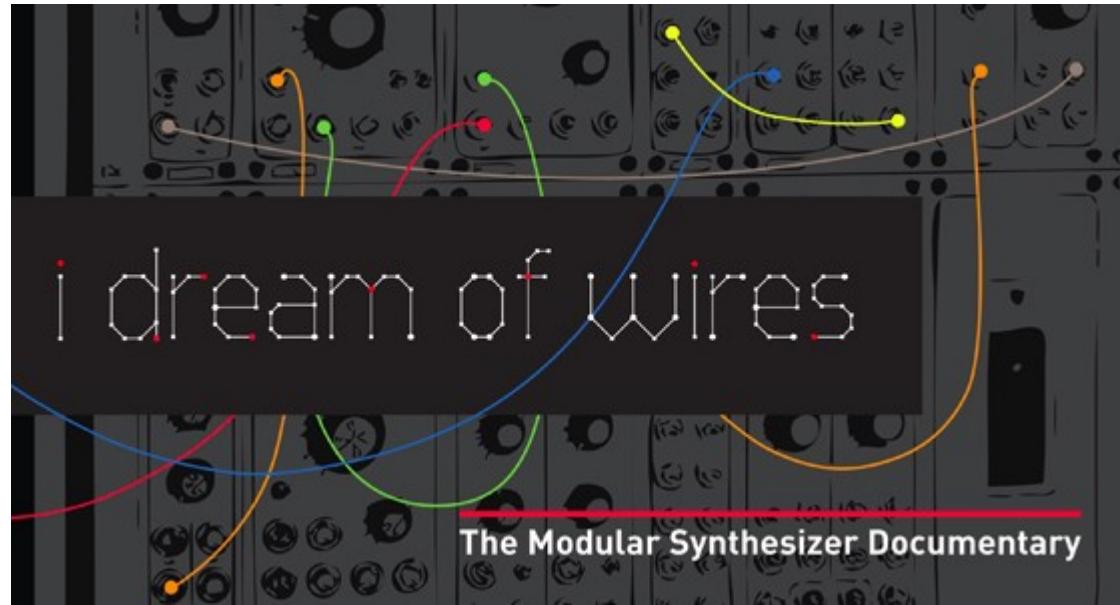
Y. collette (ycollette.nospam@free.fr)  
<https://audinux.github.io>



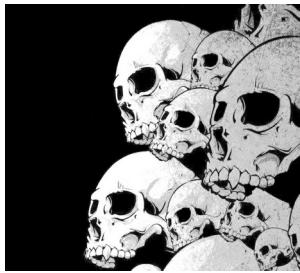


# Modular synthesis

<http://www.idreamofwires.org/>

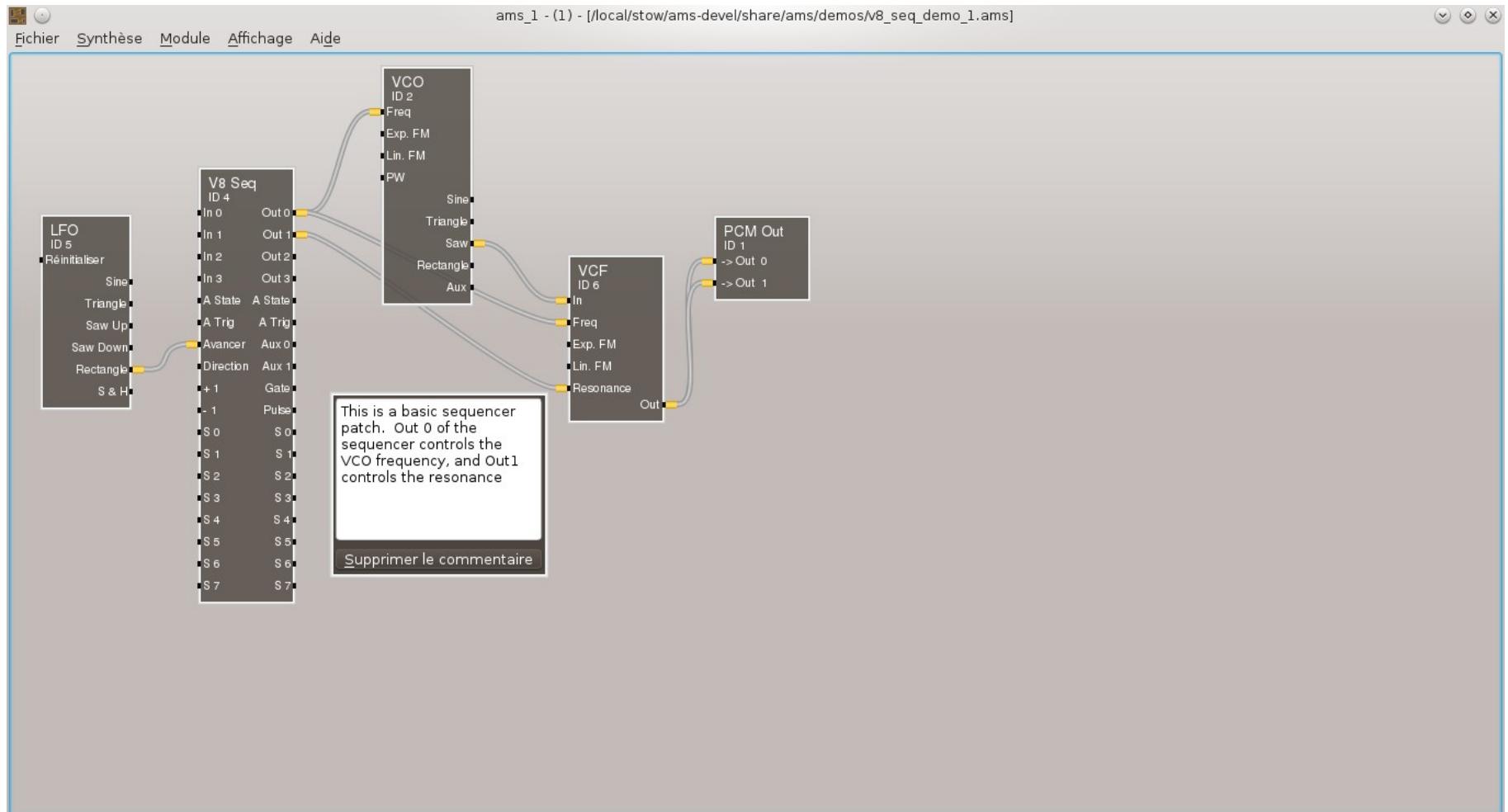


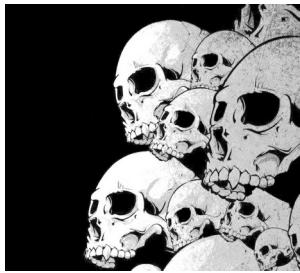
A good documentary about modular synthesis



# AMS

<https://alsamodular.sourceforge.net/>





# AMS

## A simple patch

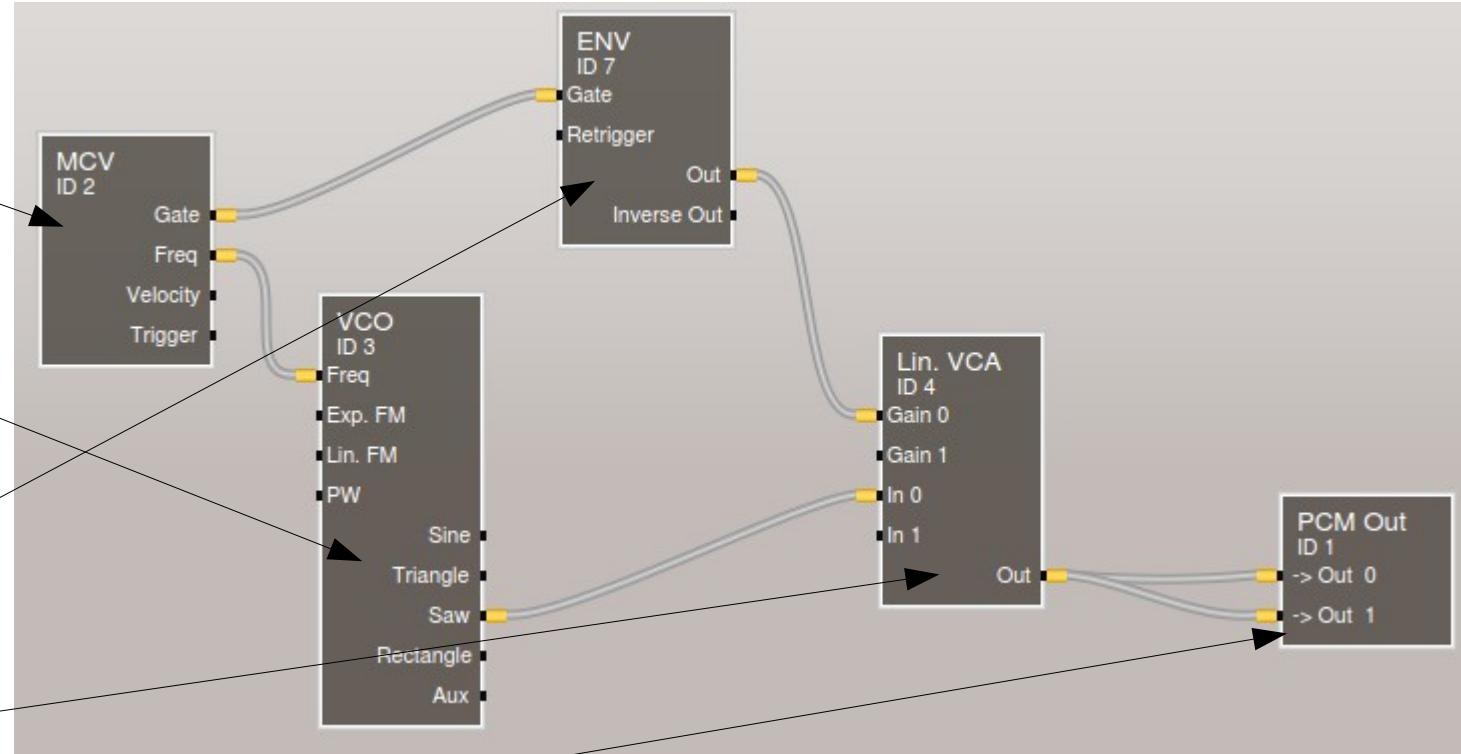
**MCV:** MIDI  
Controlled  
Voltage

**VCO:** Voltage  
Controlled  
Oscillator

**ENV:** ADSR  
envelope

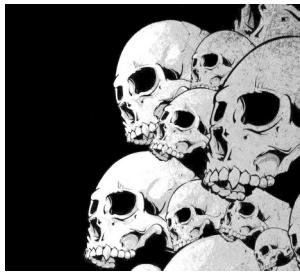
**VCA:** Voltage  
Controlled  
Amplifier

**PCM OUT:**  
Audio output



The gate output of the MCV = 1 when a key was supported and 0 otherwise. The FREQ output contains the frequency of the MIDI note played.

The VCA is there to gradually play the note via an ADSR envelope (otherwise we hear a click).



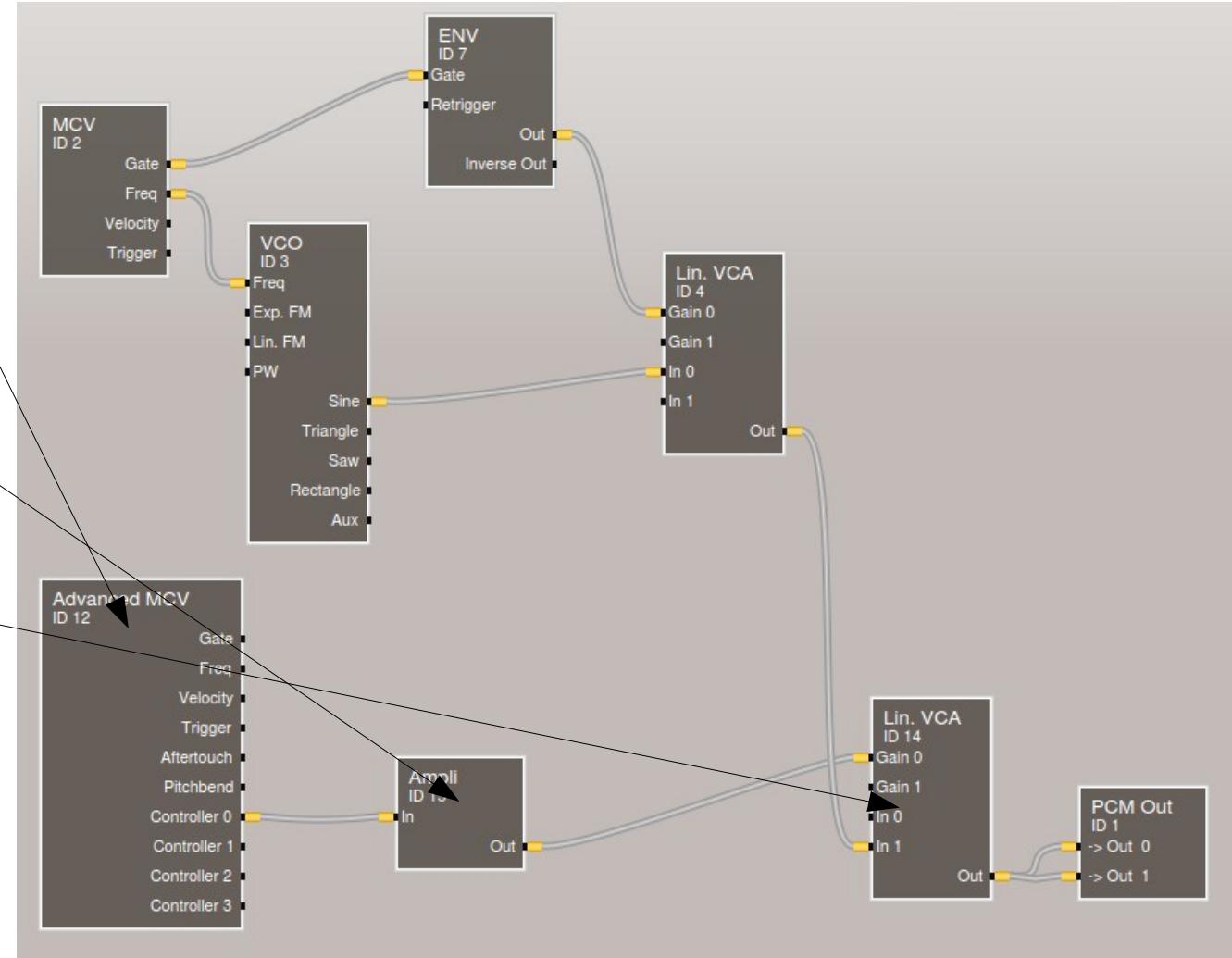
# AMS

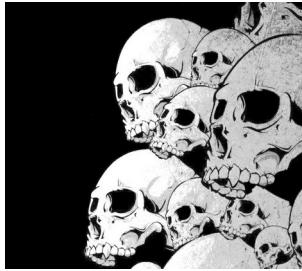
## A MIDI Patch with controller

**Advanced MCV:** MIDI Controlled Voltage Module to recover controller values

**Amplifier:** allows you to add a gain to the value of the controller

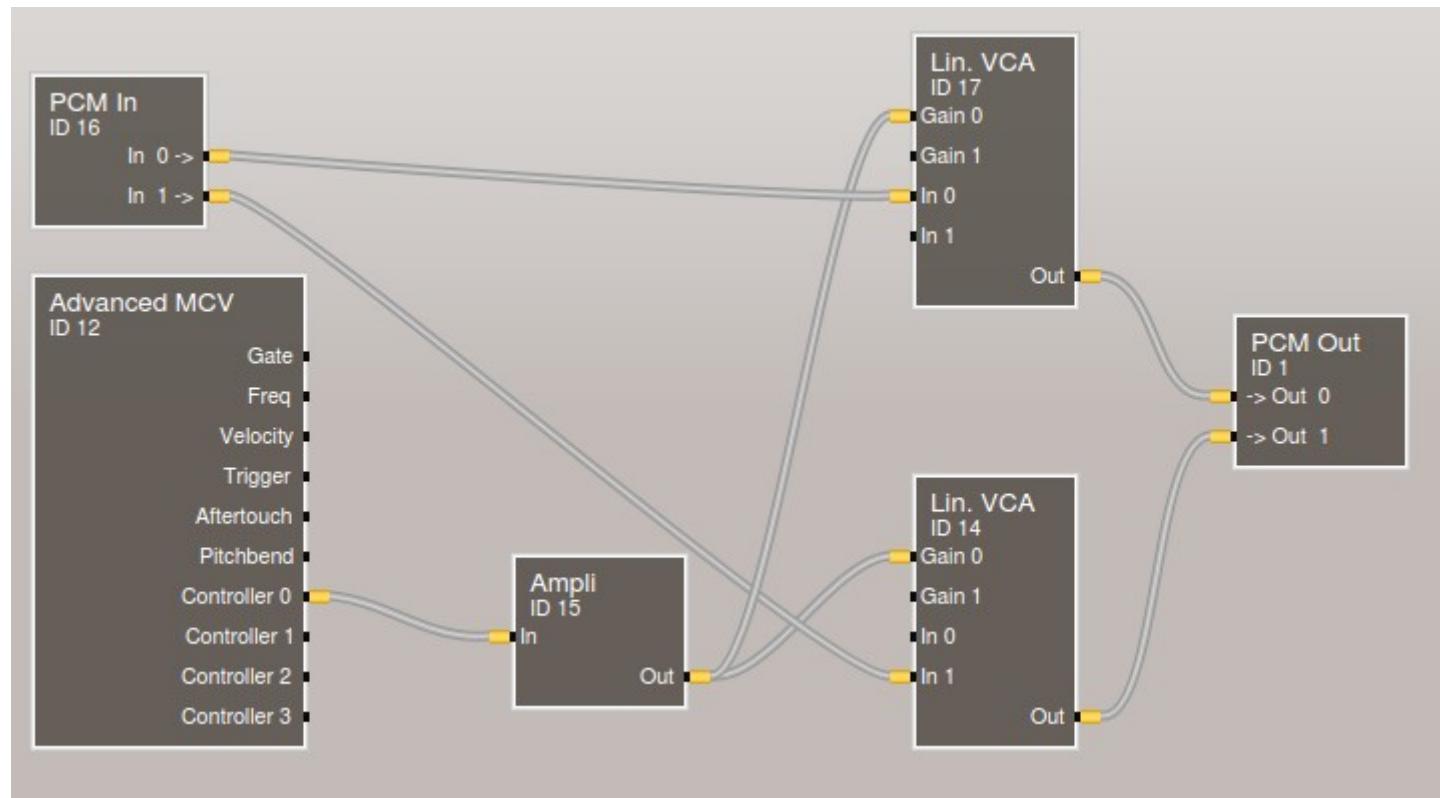
**Lin VCA:** allows you to modulate the amplitude of the signal by the value of the controller

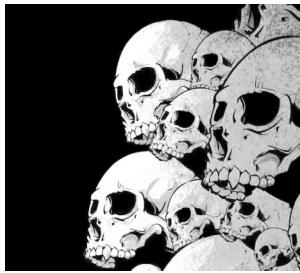




# AMS

## Patch mixing MIDI and audio





# AMS Preset management

We select a parameter.

We click on this button.

A configuration window is gradually built for the patch

The screenshot shows the AlsaModularSynth (AMS) software interface. The main window is titled "Centre de Contrôle AlsaModularSynth". In the top-left of this window, there is a tree view under "Contrôleur MIDI / Paramètre" with items like "Type: 10 Canal: 16 Param: 17" and "Type: 10 Canal: 16 Param: 18". To the right, there is a list of "Module / Paramètre" with "PCM Out ID 1" expanded, showing "Gain", "Volume 1", "Volume 2", and "Automatic Gain Control". A red box highlights the "Gain" item. Below these lists are various controls: a slider for "Gain" (value 0.635), buttons for "Log", "Définir Min", "Définir Max", and "Réinitialiser Min/Max", and checkboxes for "Activer les Événements de Notes", "Suivre Fenêtre de Configuration", and "Suivre entrée MIDI". A red box also highlights the "Ajouter à la Vue Paramètres" button. The bottom part of the interface is a separate window titled "Vue Paramètres AlsaModularSynth" with tabs for "Ajouter Preset" and "Remplacer Preset". It shows a list of presets: "Preset 1: Test" and "Gain2". A red box highlights the "Gain2" entry. The bottom of this window displays "Gain1" and "Gain PCM Out 0.635". Arrows from the text descriptions point to the corresponding UI elements: one arrow points from "We select a parameter." to the tree view; another from "We click on this button." to the "Ajouter à la Vue Paramètres" button; and a third from "A configuration window is gradually built for the patch" to the "Gain2" entry in the settings view.