

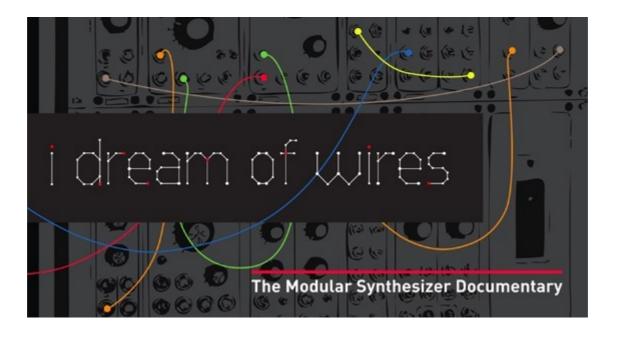
Y. Collette (ycollette.nospam@free.fr) https://audinux.github.io/





Modular Synthesis

http://www.idreamofwires.org/



A documentary on modular synthesis.





Modular Synthesis

https://sisterswithtransistors.com/

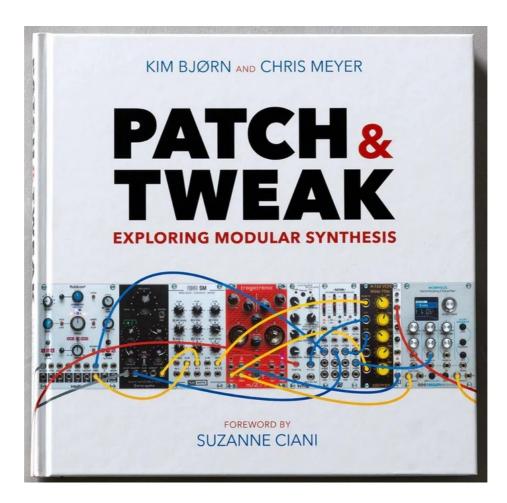


A documentary on the female pioneers of modular synthesis.





A Good book

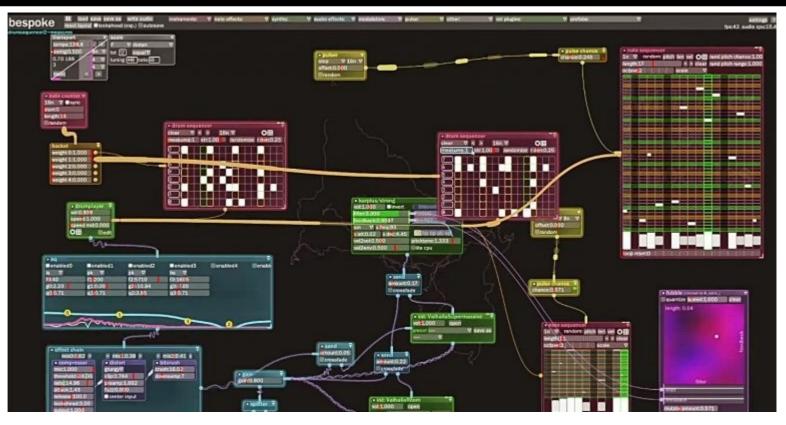


https://bjooks.com/products/patch-tweak-exploring-modular-synthesis





BespokeSynth



https://www.bespokesynth.com/





The starting Window







Some shortcuts

Ctrl + wheel : Zoom

Ctrl + space + mouse: translate canvas

Letter key in the canvas : shows a list of modules with name beginning with this letter

Click + drag : select an area

Click a selected area + drag : move the selected modules

Backspace: delete a module or a selection

Alt+Click on module+Drag : duplicate a module

How to draw a wire?

Click on the circle output of a module, while button is clicked, move the mouse to the module you want to connect to

How to delete a wire?

Click on the wire and push backspace

Autoconnect 2 modules ?

Grab a module by the title bar, hold LEFT SHIFT while module is grabbed and move the mouse so as the output circle of the grabbed module touch the module you want to connect to.







A First Experiment

Transport : allows to tune the measure and the tempo

Scale: Set the scale used by sequencers

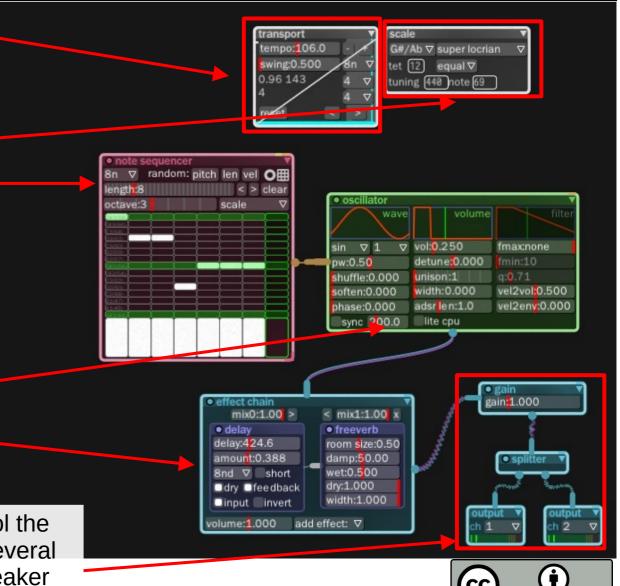
Notesequencer: a piano roll where to write notes



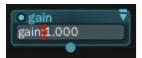
oscillator: the audio sound generator

effectchain: an area where one or several effet are applied to audio

Gain, splitter, Output: to control the audio level, split the audio in several channels and send it to the speaker



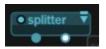




Gain: amplify an input



Panner: place an audio signal in the stereo field. Can be used to transform a mono signal into a stereo signal (some modules are not able to manage mono signal).



Splitter: Add more output connexions to an input

signal



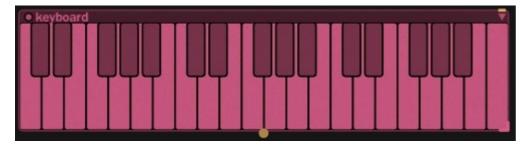
Output: manage multi channel output



Ttimerdisplay: shows a timer of the audio duration (stopped in pause mode)



Comment: allow to add some comments in the canvas

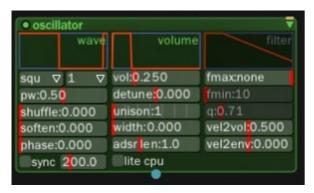


keyboarddisplay: a virtual kayboard module



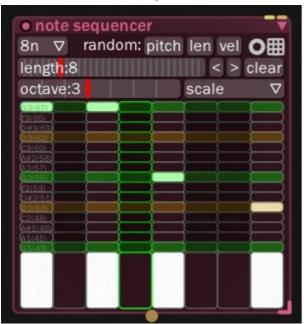


oscillator



An essential module for sound generation. Able to manage multivoice sounds, sin, square and a lot of parameters can be tuned via this module. All the parameters can be LFO controlled.

Note sequencer



A piano roll to play a sequence of notes.

note creator



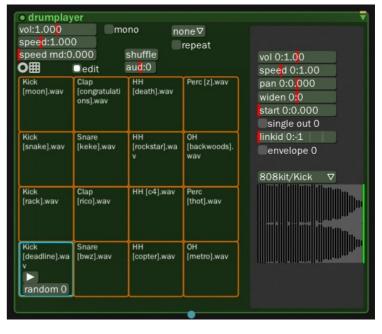
A module which can be used to produce one note on demand.



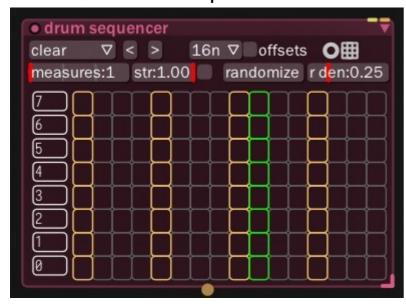


A sampler based drum player. You need to drag and drop some drum samples in the various pad. These samples are then triggered using a sequencer like the drum sequencer below.

drumplayer



drumsequencer



A piano roll for drum sequencing. You just need to click in a square to turn on / off a sample.





drumsynth



Oscillator and noise drum synth

cutoffmax*: filter start cutoff freq
cutoffmin*: filter end cutoff freq
edit: display param for each hit
freqmax*: oscillator start frequency
freqmin*: oscillator end frequency

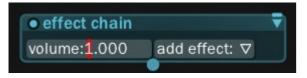
noise*: noise volume
q*: filter resonance
type*: oscillator type

vol: the output volume
vol*: oscillator volume





effectchain



A module where several effects can be chains via the « add effet » button



Example of an effect chain with two effects: a delay and a reverb. The '<' and '>' button can be used to reorder the effects in the chain.

eq



A filtering module.

All the parameters can be controller via a LFO.





Various interesting modules:

Multitrack recorder

Arpegiattor

Seaofgrain

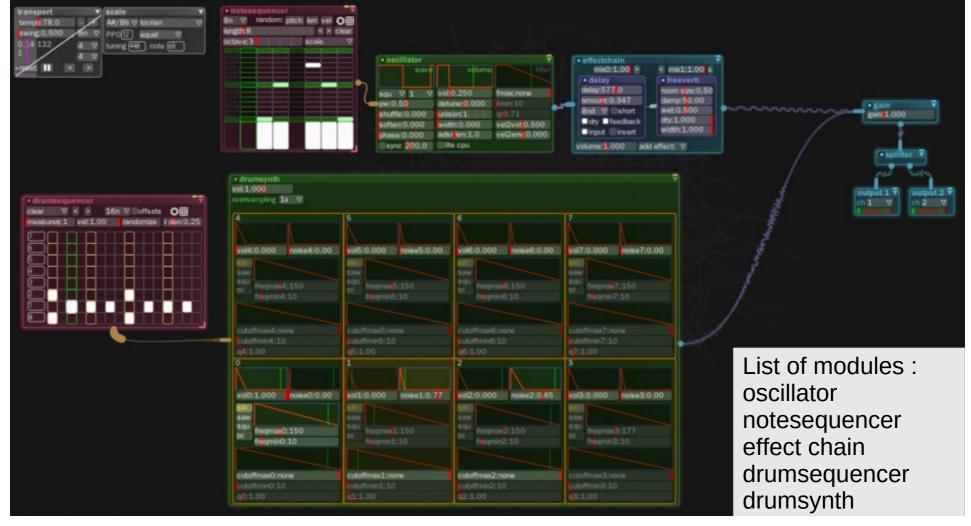
Fubble

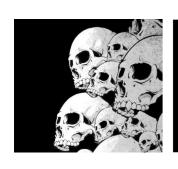
Chorder





Playing with drums





Playing with drums



Drum sequencer settings



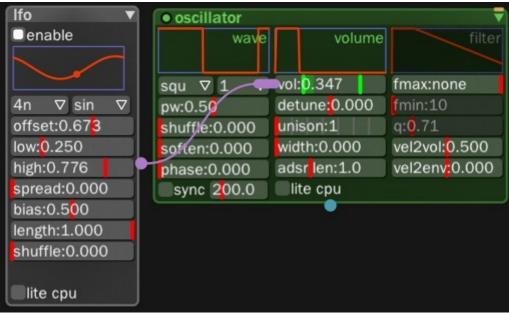


Playing with drums

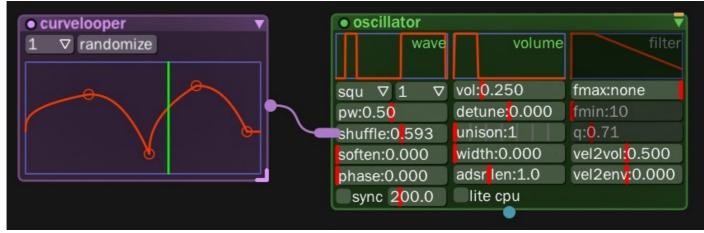


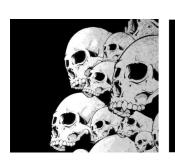


Automation



List of modules : oscillator Curvelooper LFO





Song Organization



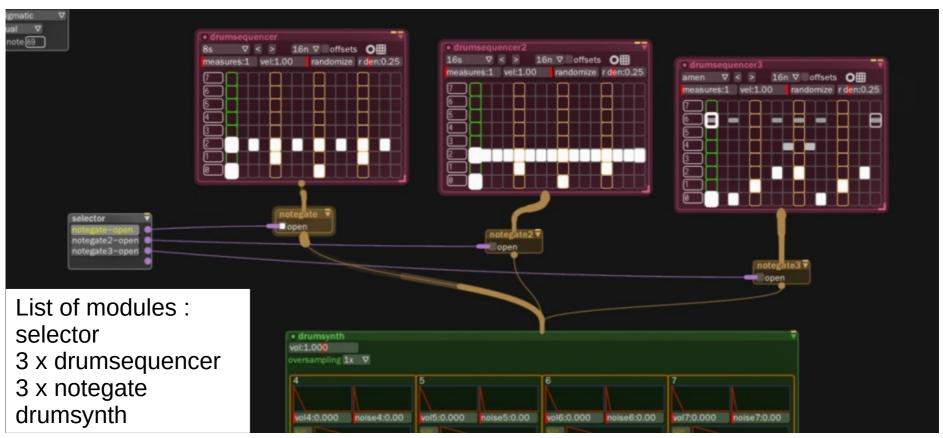
List of modules : selector 3 x drumsequencer drumsynth

Using « selector »





Song Organization

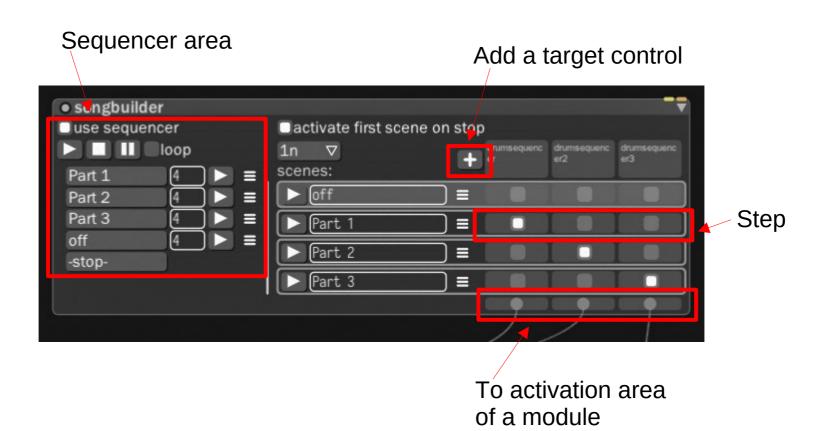


Using «notegate» and « selector »



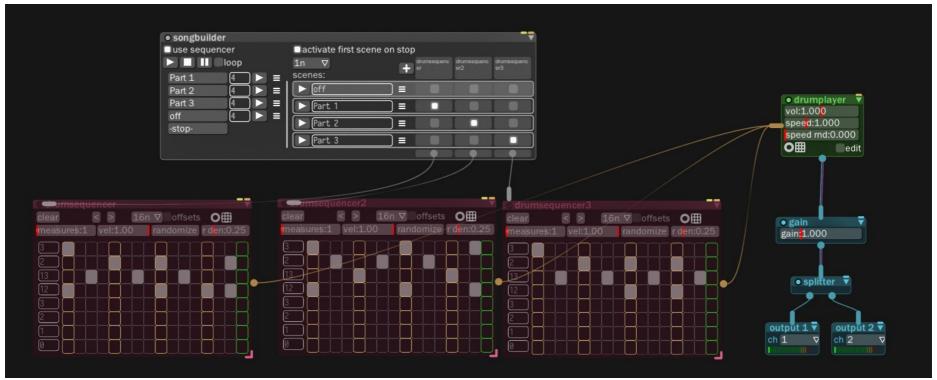


SongBuilder





Song Organization



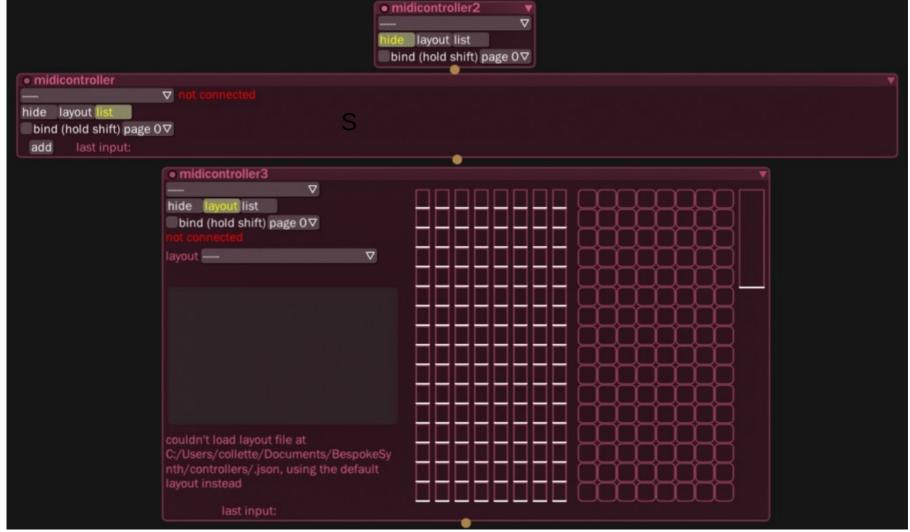
List of modules:

- 1 x songbuilder
- 3 x drumsequencer
- 1 x drumplayer





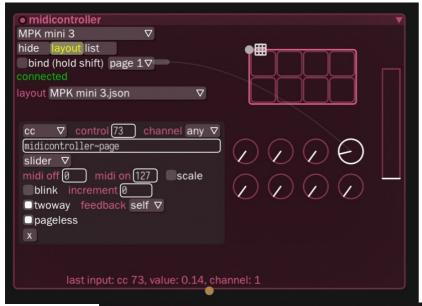
Connection with outside



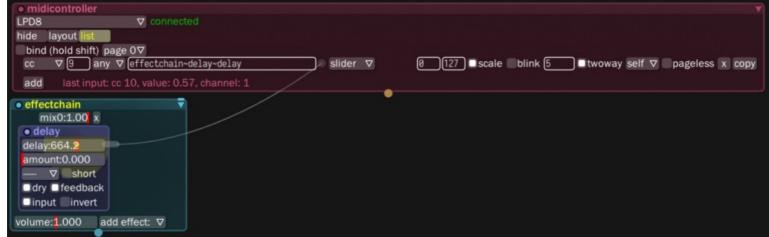




Connection with outside







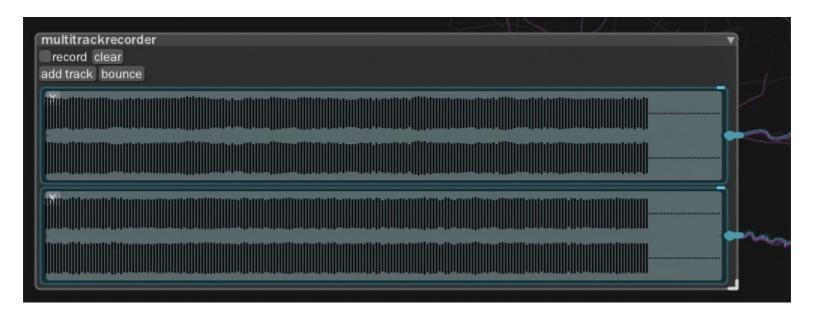
CC BY



Recording

Using Audacity + Connecting to BespokeSynth via Jack Audio

or



Using « multitrackrecorder »





Webography

BespokeSynth basic usage: https://www.youtube.com/watch?v=SYBc8X2IxqM

BespokeSynth MIDI mapping tutorial:

https://www.youtube.com/watch?v=JkNXO55ogvQ

BespokeSynth website: https://www.bespokesynth.com

BespokeSynth references: https://www.bespokesynth.com/docs/index.html#basics

Ryan Chalidor YouTube channel:

https://www.youtube.com/channel/UCBnLnfmXI4x2QmgTxwPbvEw

Some useful ressources for BespokeSynth : /usr/share/BespokeSynth/resource/userdata_original/

These ressources can be found in /home/<user>/Documents/BespokeSynth: controllers drums internal layouts prefabs recordings samples savestate scales.json scripts tmp userdata_version.txt vst

