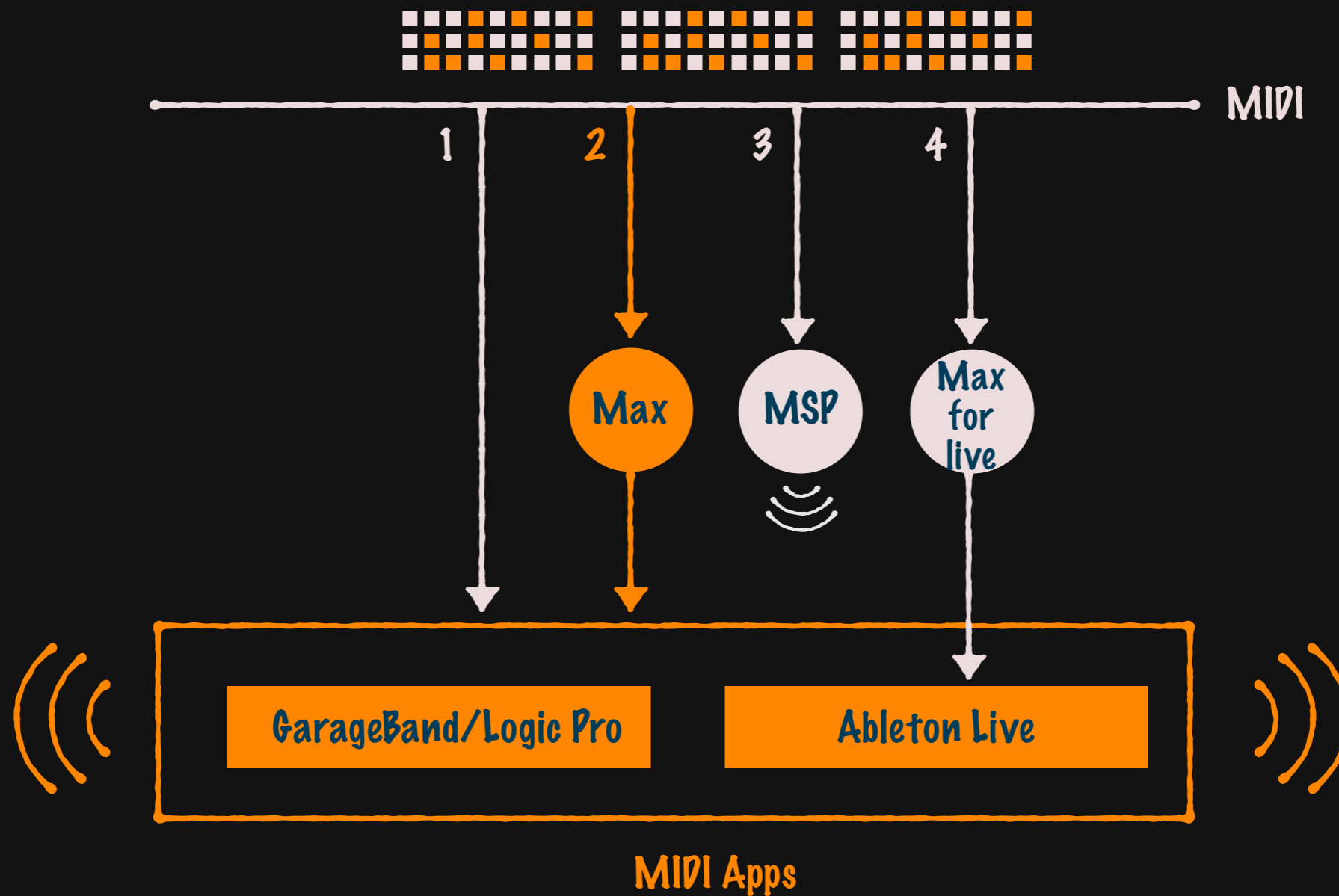


Interactive Electro-acoustic Music

Making Sound

2. Max





Cycling '74



Hybrid

Visual

Programming

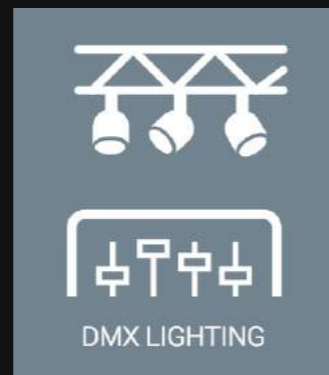
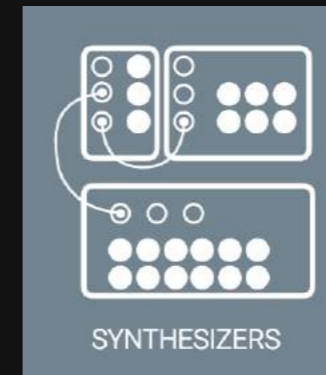
System



2. Max

Max talks to everything, live

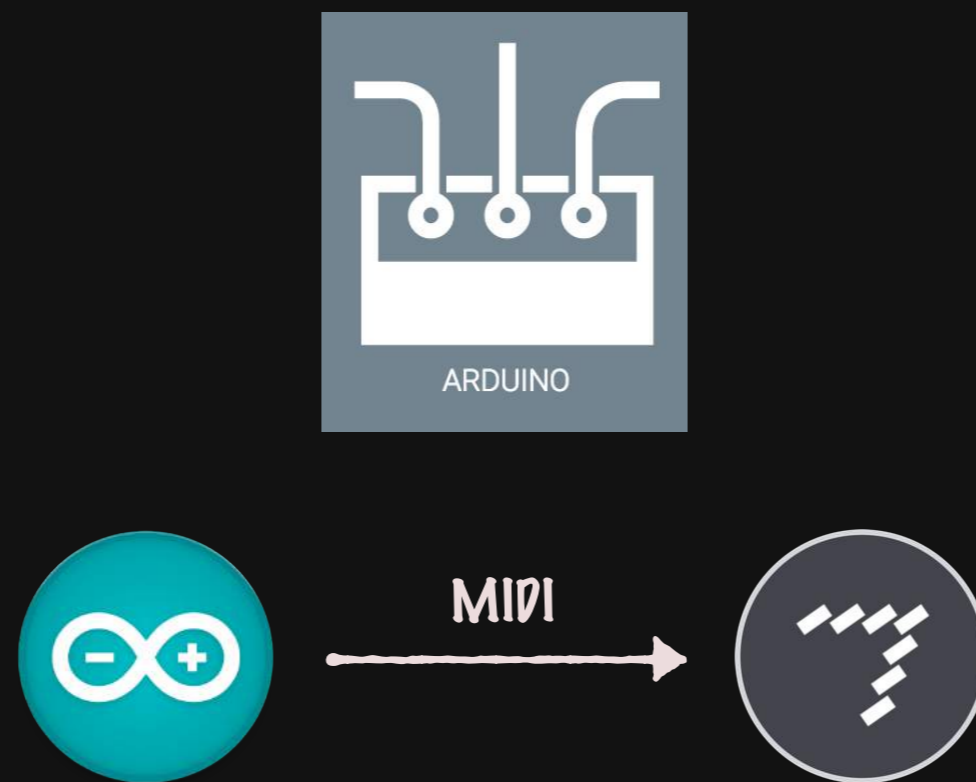
CENTRAL NERVES SYSTEM



Interactive Electro-acoustic Music

Making Sound

2. Max



Interactive Electro-acoustic Music

Making Sound

2. Max



Max 接收 MIDI IN 的 message

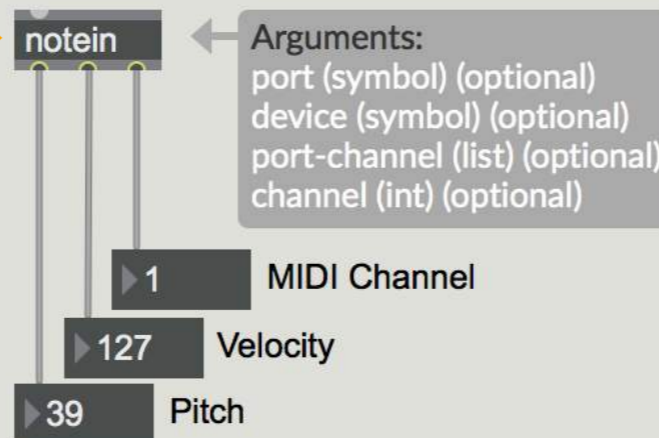
IAC Driver Bus1

notein

Receive MIDI note messages

Receives its input from a MIDI note-on or note-off message sent by a MIDI input device.

double click it >
IAC Driver Bus1

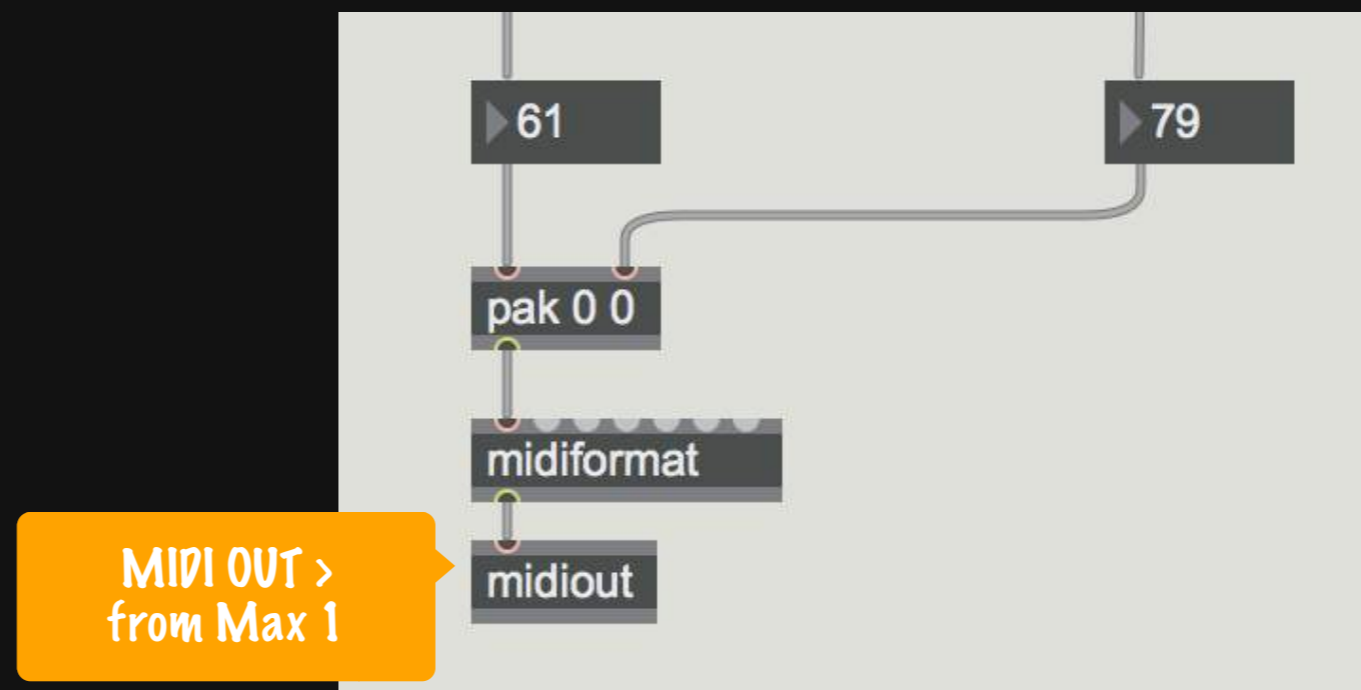


Max 里 Pitch 就是 Note

Interactive Electro-acoustic Music

Making Sound

2. Max



MIDI 进入 Max 处理后 仍然按照 MIDI 格式
输出作为 MIDI Apps 的输入

Interactive Electro-acoustic Music

Making Sound

2. Max



Max Show Time

课上直播

Deal with MIDI Data

课后请参考

Max_basic.maxpat

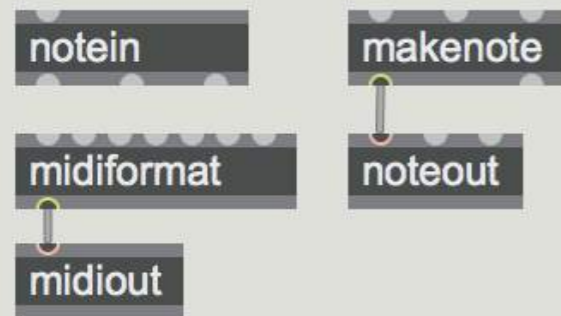
Max Tutorial

Max/MSP/Jitter 进阶课程

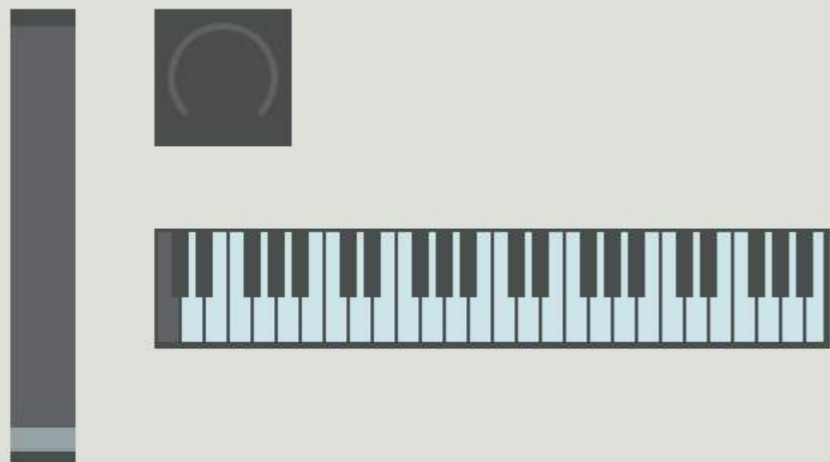
basic



making sound



interface kit

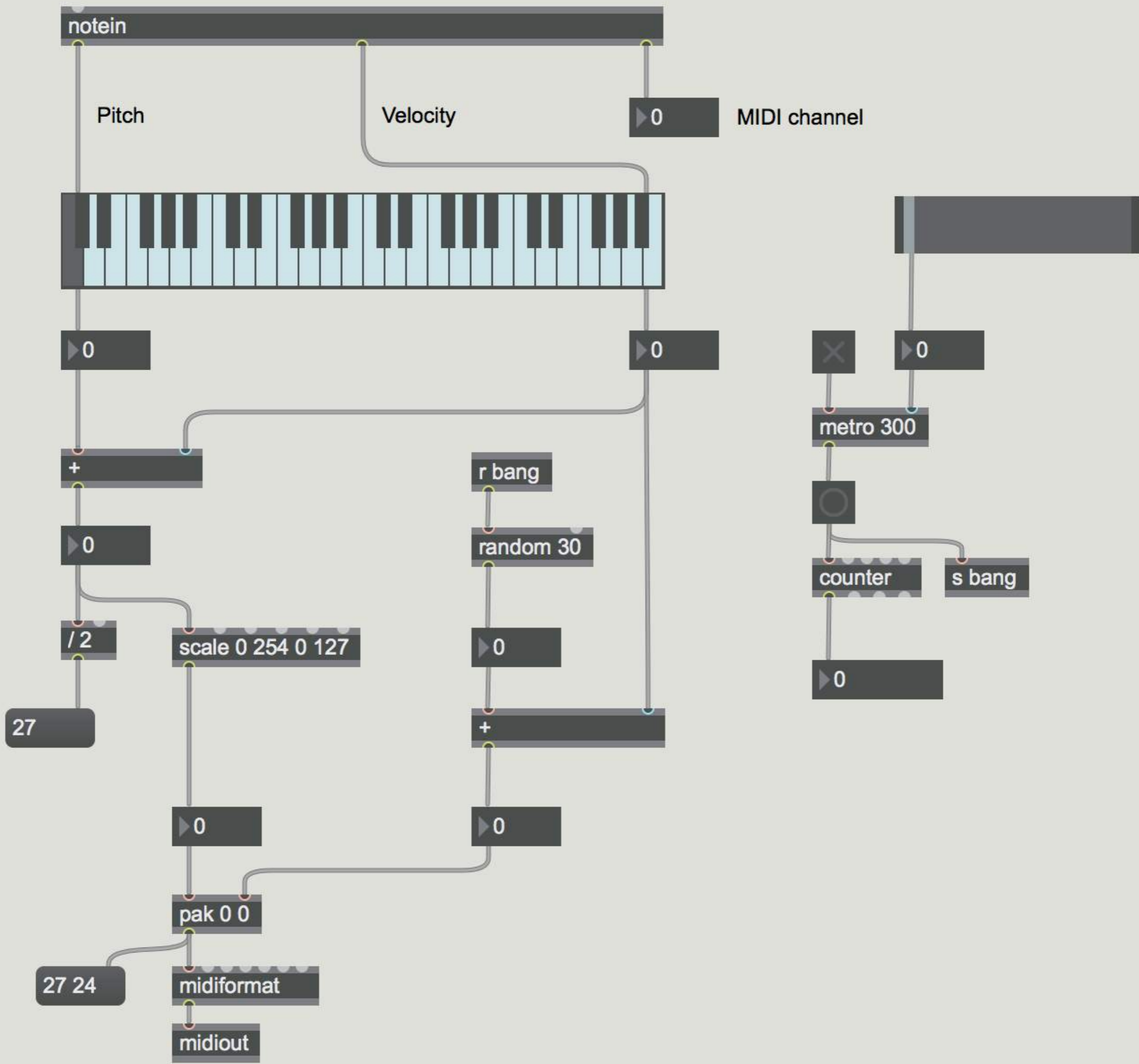


date operation



timing

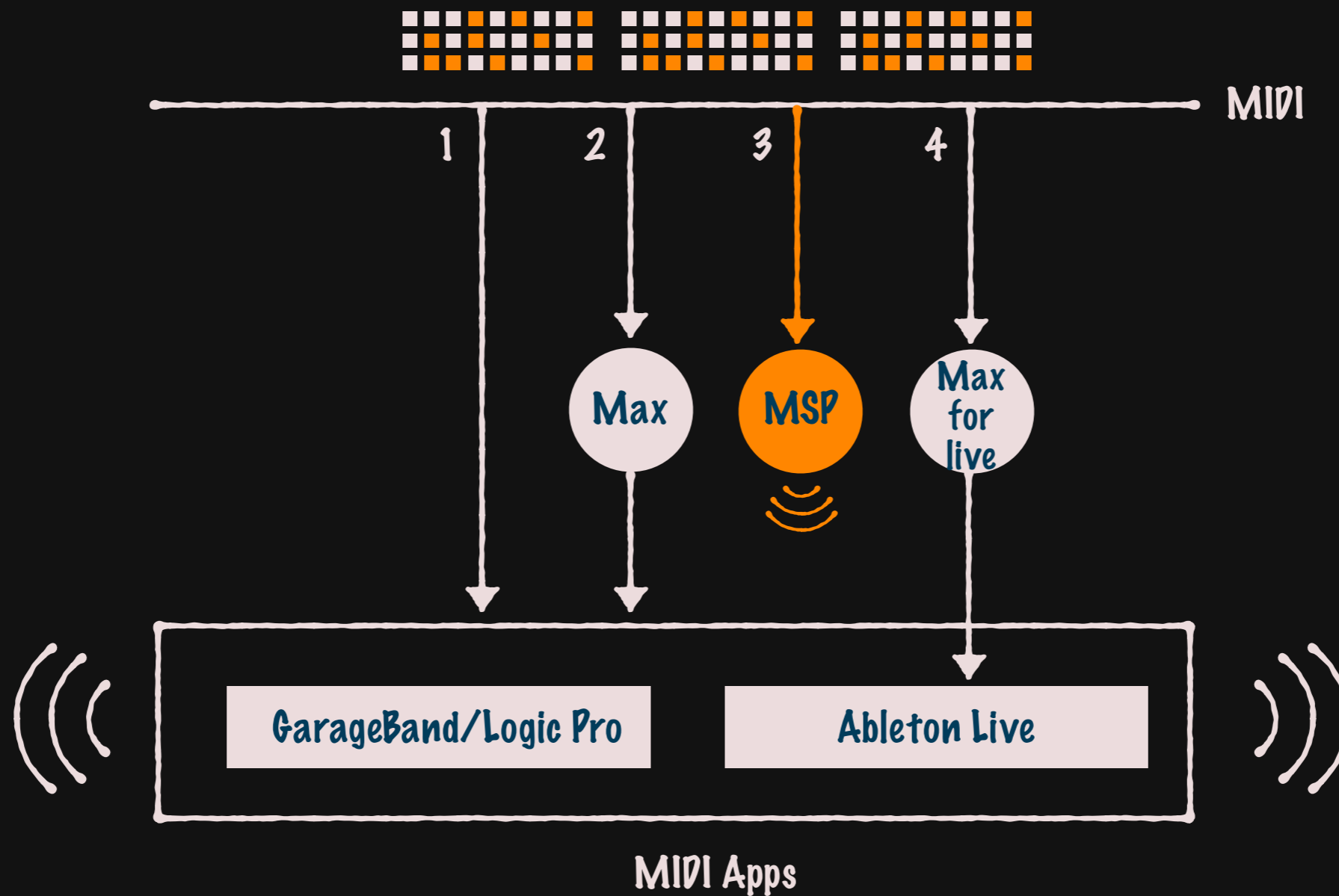




Interactive Electro-acoustic Music

Making Sound

2. Max



Max 里专门做声音/音频分析处理的模块

Sound Wave Oscillator

Operation

Playback & Recording

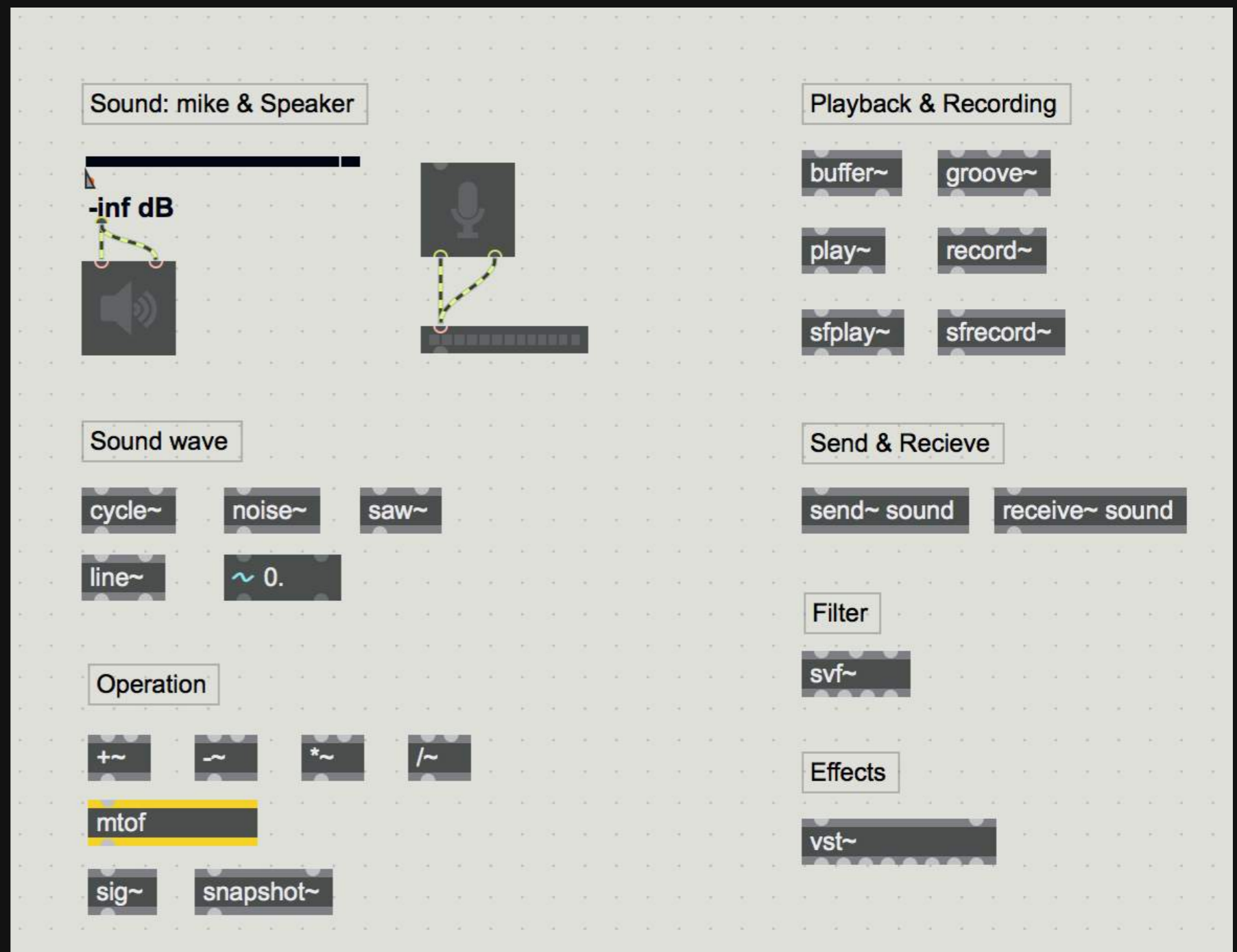
Fiter

Effects

Interactive Electro-acoustic Music

Making Sound

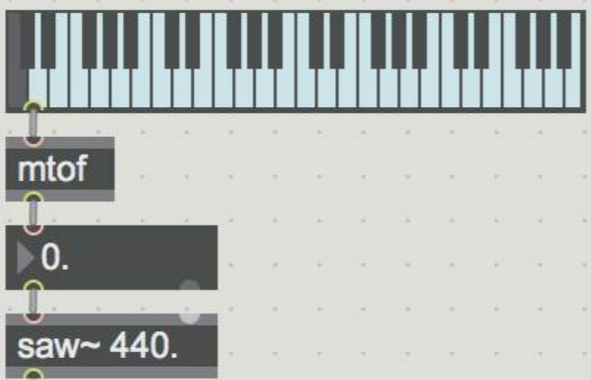
3. MSP



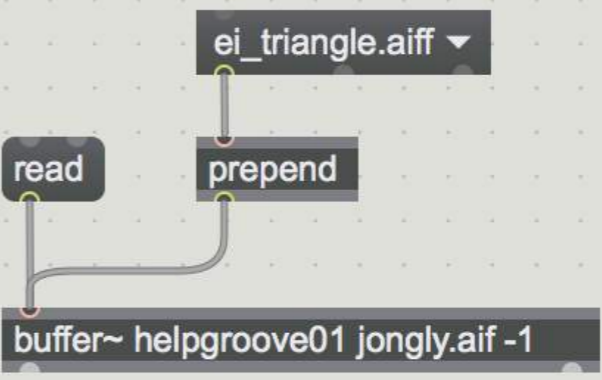
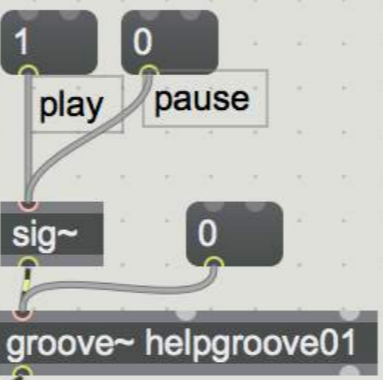
Generation



MIDI to Frequency



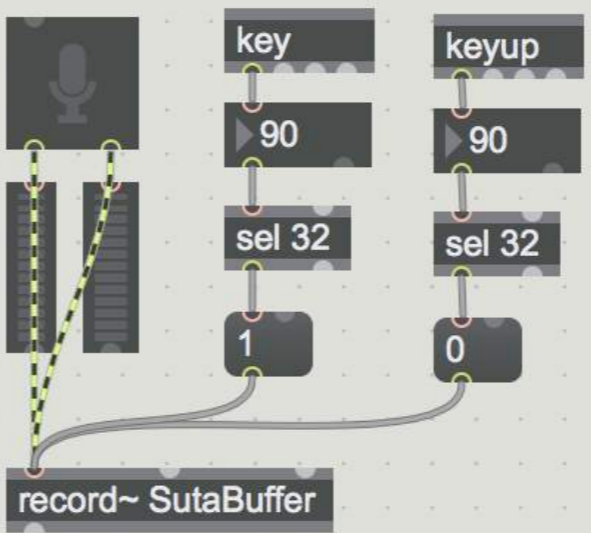
Playback



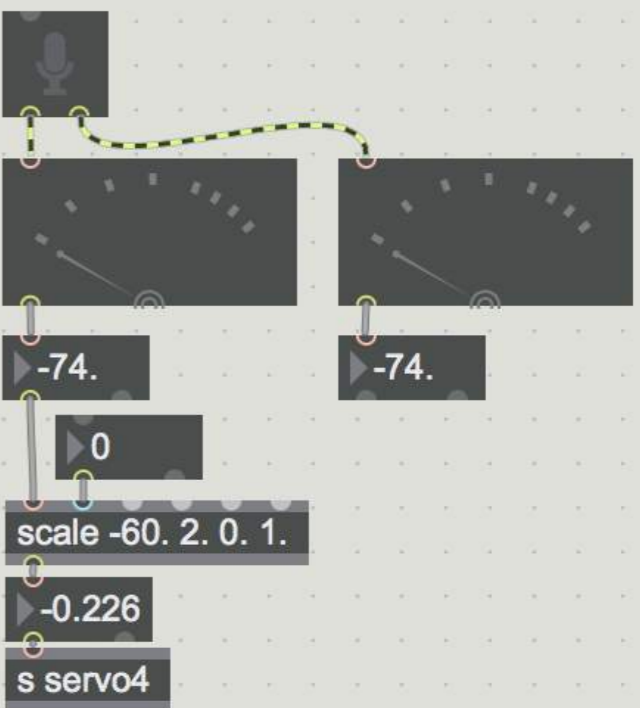
-20 dB



Recording



Sound detection



Audio Source

Source: Sound File
File: anton.aif
or Drag a Sound file Here.
-20 dB

-inf dB



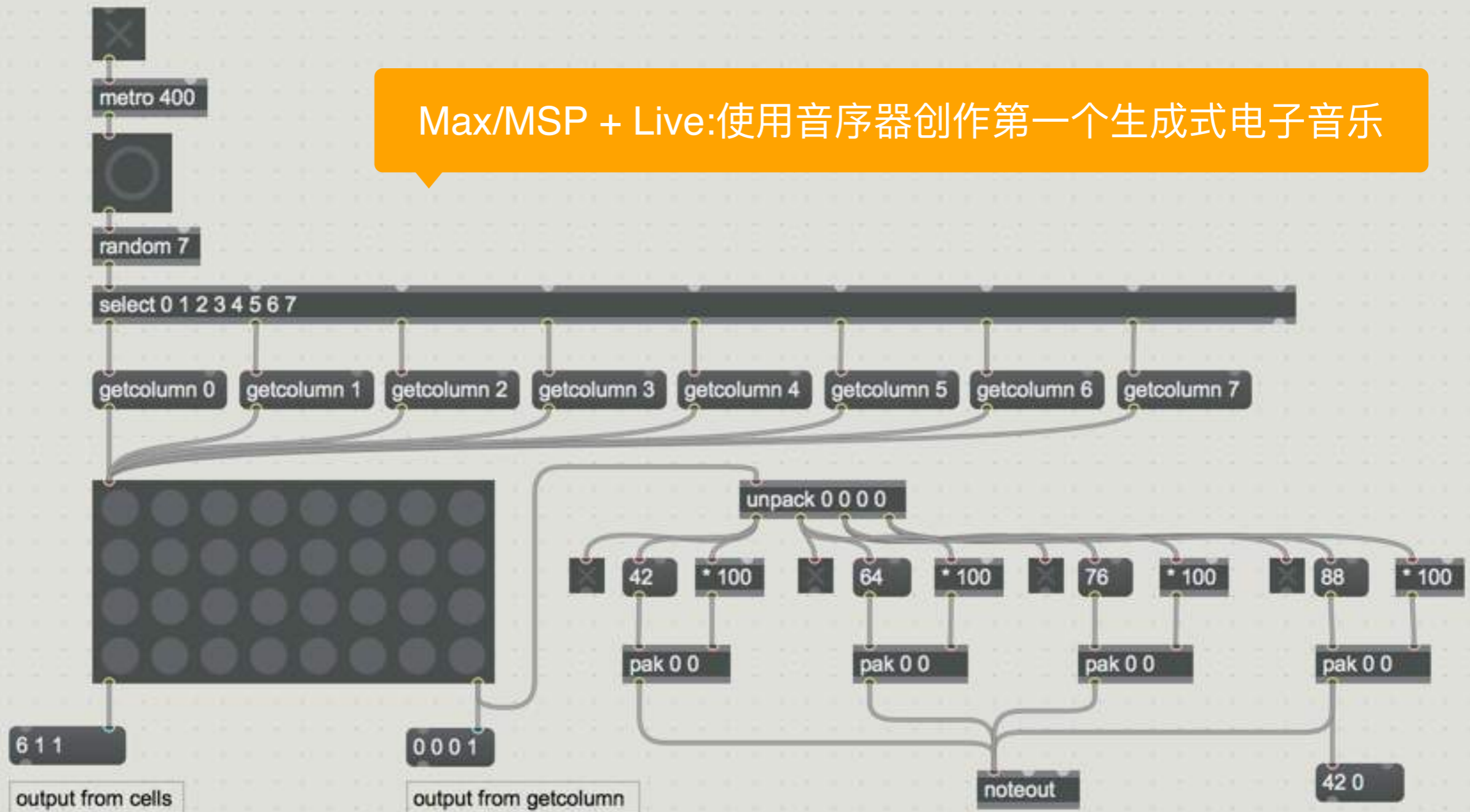
visulazation

Interactive Electro-acoustic Music

Making Sound

3. MSP

Max/MSP + Live: 使用音序器创作第一个生成式电子音乐



3. MSP External

External objects for Max/MSP

<http://cnmat.berkeley.edu/downloads>

Odot objects for Max/MSP and PD on github:

<https://github.com/CNMAT/CNMAT-odot/releases>

Externals and Odot for OSX and Win32

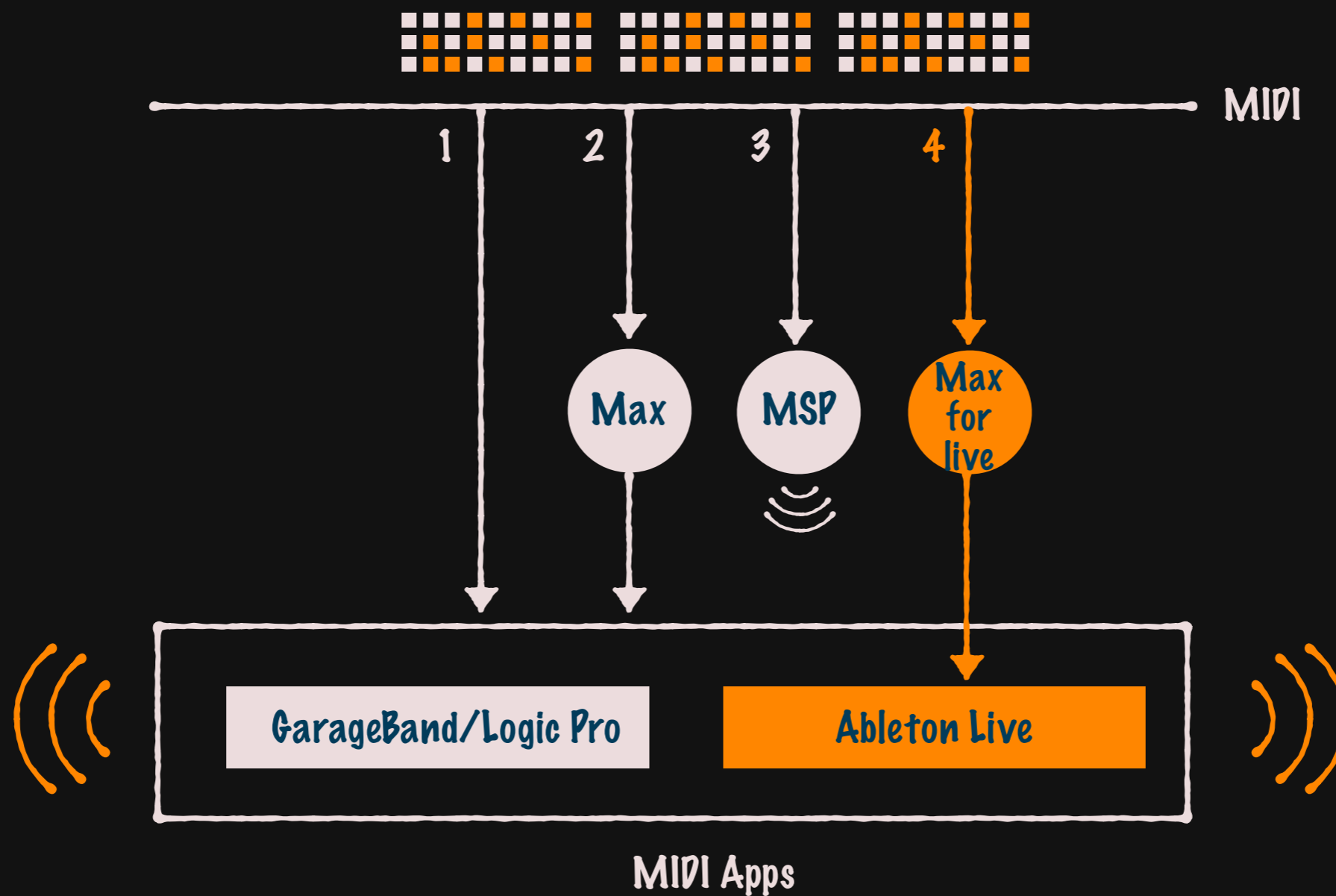
MMJ Depot

<https://api.github.com/repos/CNMAT/CNMAT-MMJ-Depot/zipball/v3.1.0>

Interactive Electro-acoustic Music

Making Sound

4. Max for Live



4. Max for Live

Max For Live

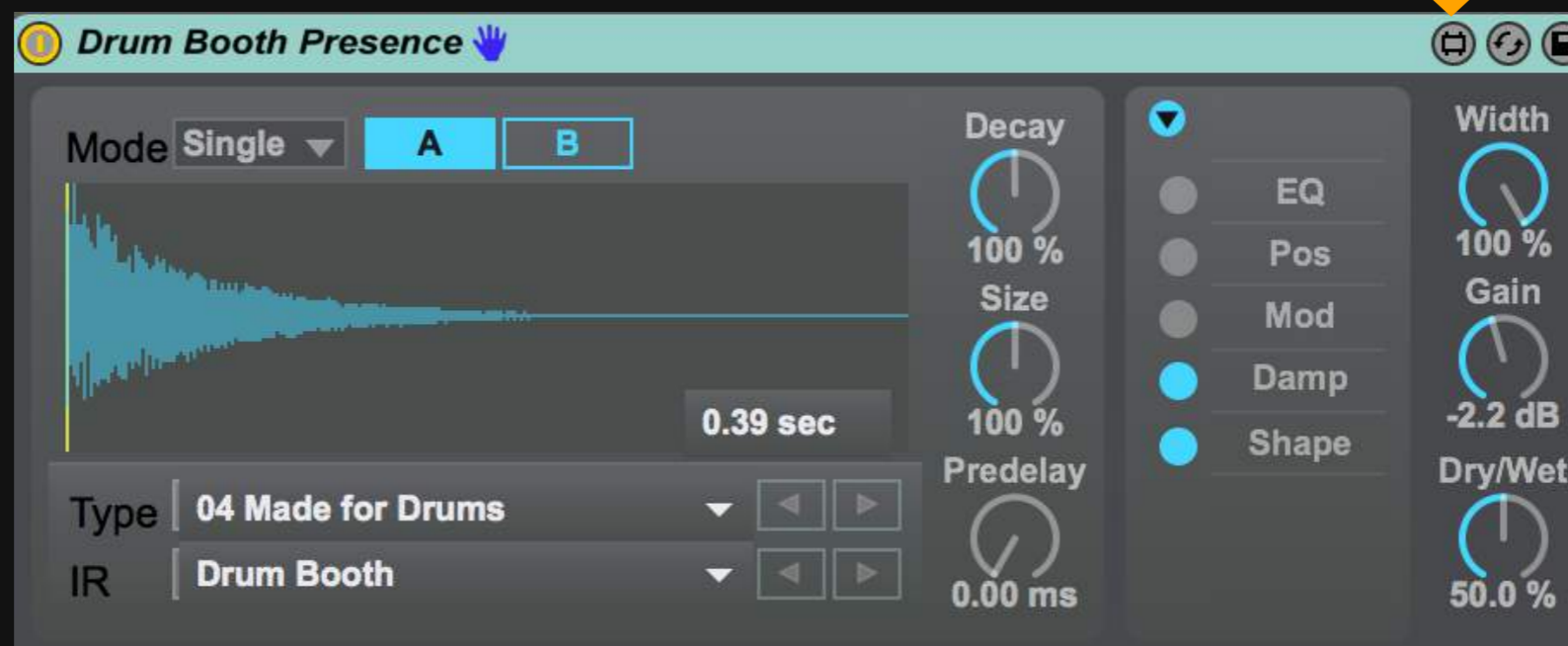


Interactive Electro-acoustic Music

Making Sound

4. Max for Live

Edit in Max



在 Max 里制作 在 Live 里使用 的效果器

Interactive Electro-acoustic Music

More practice

Max + Timing

random
drunk

delay
pipe

timer
clocker

