



Cómo programar un plug-in de audio O morir en el intento

Miguel Moreno

MIKE MORENO

- Diseñador Sonoro
- Software Musical
- Instalaciones Interactivas
- Proyectos musicales
 - DEHUS
 - Mike Moreno



PLUGINS / SOFTWARE

EP-MK1

OUTPUT

MASTER LEVEL dB

MIDI STOP ☐

TUNING

BASE FREQUENCY 440

BASE MIDI NOTE

of DIVISIONS

INTERVAL TO DIVIDE

INFO

EP-MK1 is a real-time physical model of an Electric Piano.

By Mike Moreno 2019

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TINE

RATIO 1

RATIO 2

HIGH-PASS FILTER Hz

DECAY

LEVEL dB

PICK SEND dB

TONE BAR

DECAY

SUS. PEDAL ☐

RELEASE

NOTEOFF LEVEL dB

LEVEL dB

HAMMER LEVEL dB

PICKUP

GAIN

ATTACK

ON/OFF ☐

TREMOLO

☐

EUKLID

SPEED

MIDI NOTE A4

STEPS

MIDI NOTE A4

BEATS

ROTATE

VELOCITY

DURATION

ACCENTS

ACCENT ROTATE

ACCENT VELOCITY

ACCENT DURATION

M2P

WET LEVEL dB

DRY LEVEL dB

AMP ENVELOPE

ATTACK ms

RELEASE ms

NOTE PRIORITY

HIGH ☐

LAST ☐

LOW ☐

KEYBOARD

CUTOFF FREQUENCY kHz

POLE Hz

MASTER VOLUME dB

DISTORTION dB

KEY VELOCITY

F1 REC **F2** PLAY **F3** STOP **F4** PATTERN

SWING

TEMPO

1 SOLO **2** MUTE **3** CLEAR **4** INPUT

Q TAP **W** LENGTH **E** BAR **R** PRESET

A KICK 2 **S** SNARE 2 **D** CLAP **F** CYMBAL

Z KICK 1 **X** SNARE 1 **C** CLOSED HH **V** OPEN HH

DISPLAY/PARAMETERS

KICK 1

PATTERN 1

PITCH

DECAY

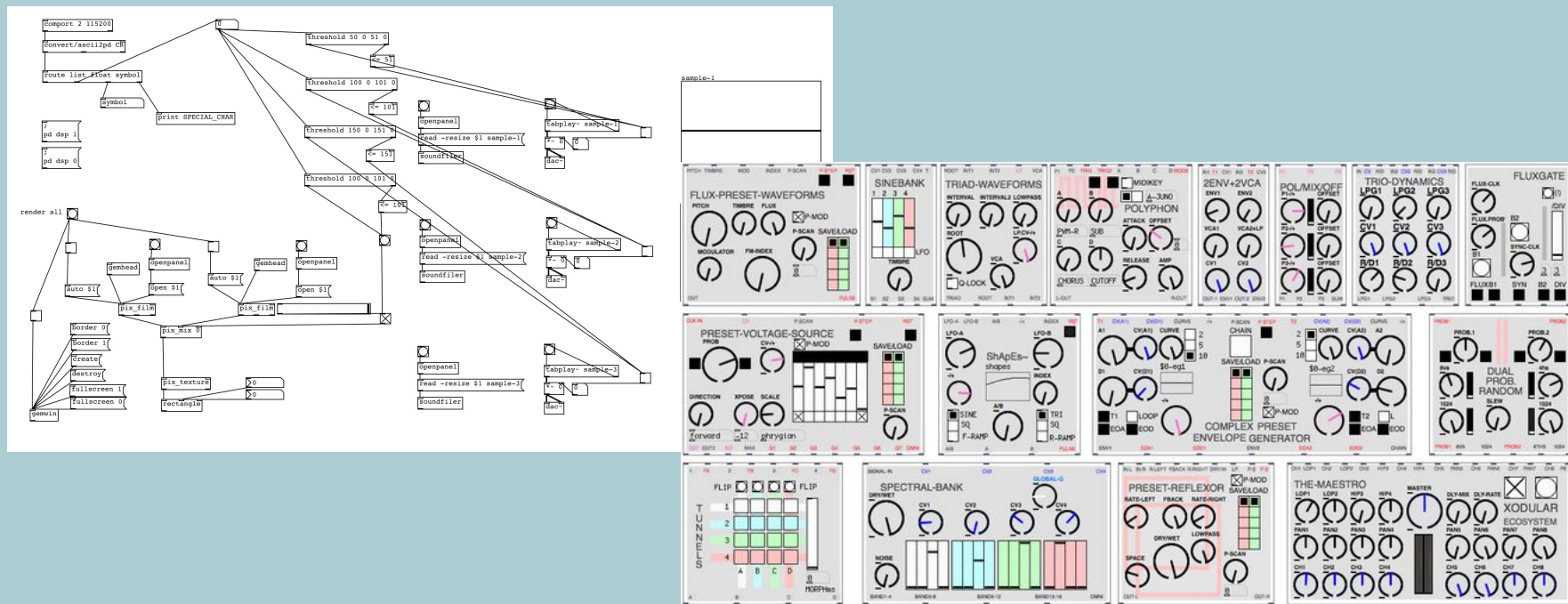
CLICK-TONE

NOISE

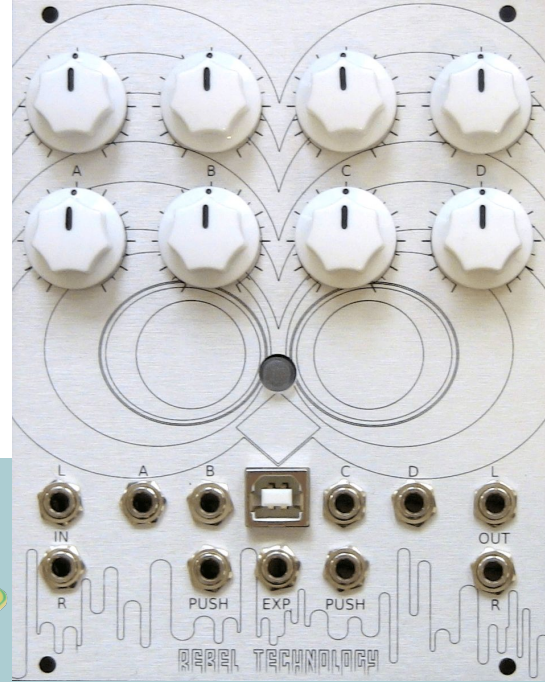
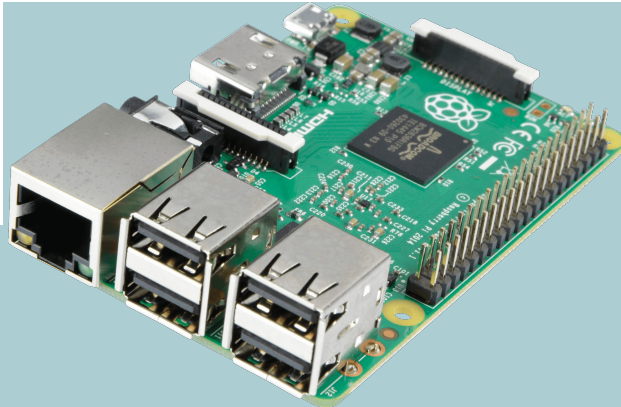
TONE

LEVEL

Lenguaje de programación visual de código abierto



PURE DATA



wwise®
empowers audio creators

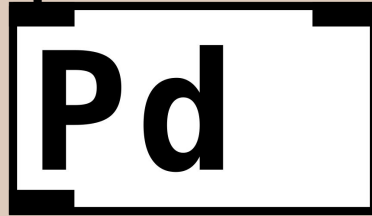
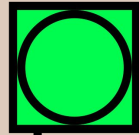
CAMOMILE

Camomile



=

**Pure Data
(libpd)**



+

**JUCE
(C++)**



TIPOS DE PLUGINS

- Generadores
 - Ej. Sintetizadores
- Procesamiento
 - Ej. Compresor
- Analisis
 - Ej. Loudness Meters



GENERADORES DE SONIDO



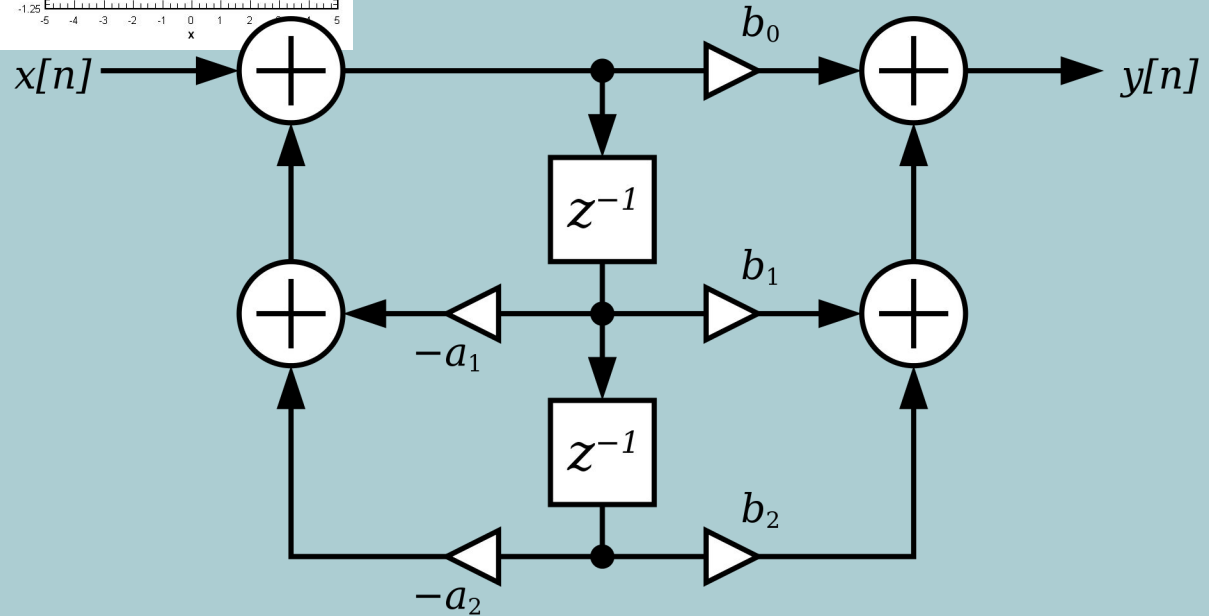
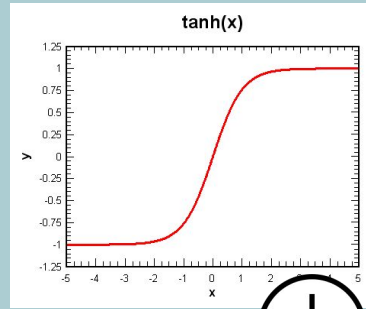
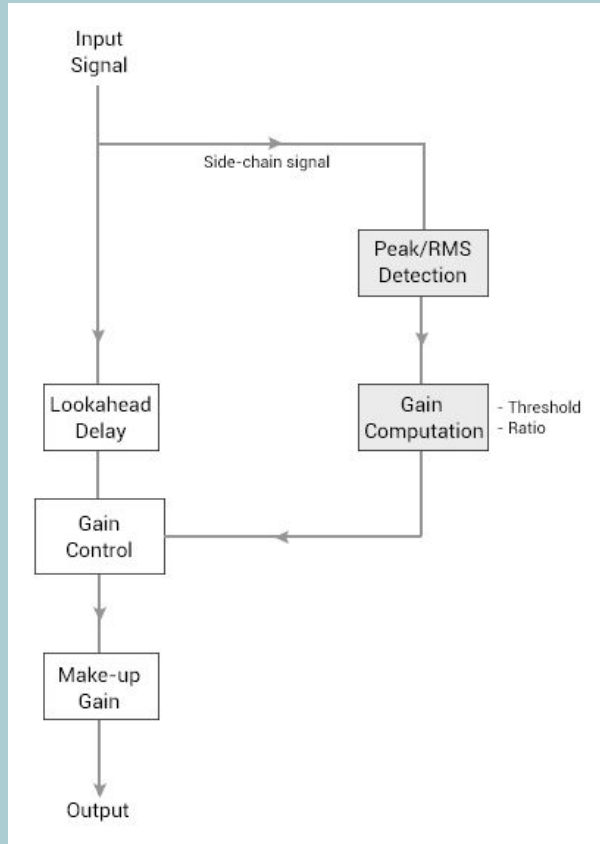
- Samplers
- Romplers
- Sintetizadores
 - Sustractivos
 - FM / PM
 - Aditivos
 - Physical Modelling
 - Granular

PROCESAMIENTO

- EQ
- Dynamics
- Reverb
- Delay
- Waveshaping



“UNDER THE HOOD”



PD QUICKSTART



ELIGE TU INSTRUMENTO

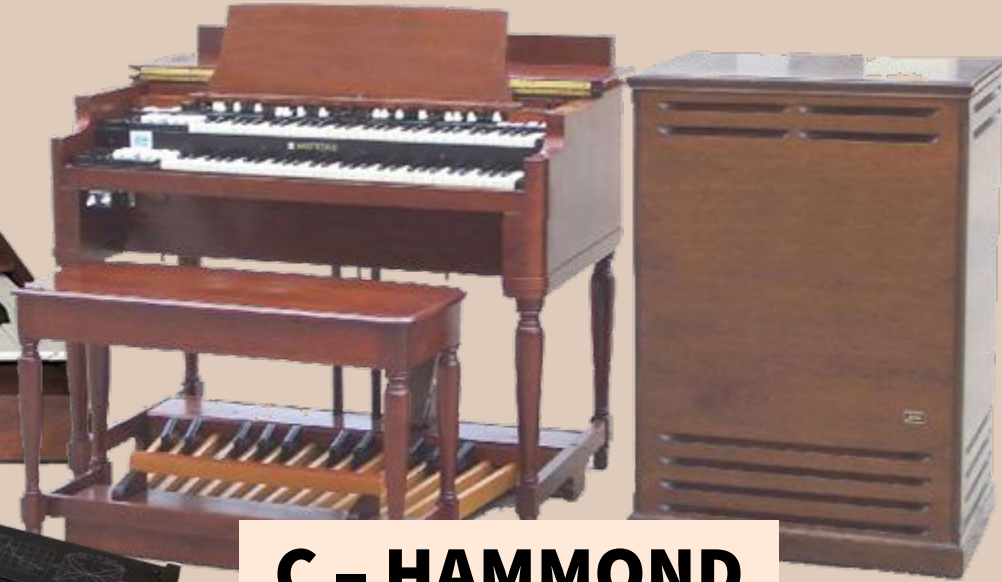
A – MINIMOOG



B – DX7



C – HAMMOND



OTRAS OPCIONES

- JUCE (C++)
- Faust
- SuperCollider
- Max for Live
- Chuck
- Cabbage (CSound)

REDES

- **Mike Moreno Audio**
- **IG: mk.mrno**
- **<https://patchstorage.com/platform/camomile/>**

GRACIAS

