



GROTTA IS A MAX4LIVE DEVICE
DEVELOPED TO CREATIVELY WORK WITH
THE OUTER FIELDS SOUND LIBRARIES
AND ANY OTHER RECORDING.
IT'S AN AUDIO EFFECT IMPLEMENTING
A REAL-TIME GRANULAR SYNTHESIS
ALGORITHM USING A MULTI-VOICES
AUDIO SCANNER THAT CREATES A
CONSTANT STREAM OF DESTRUCTURED
CROSSFADING SECTIONS OF THE INPUT
SOUND SOURCE.
PITCH, SIZE, WINDOWING AND DENSITY
OF EACH GRAIN CAN BE MODULATED
TO CREATE A DEEP VARIETY OF SOUND

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PROCESSING WITH AN ADDITIONAL
BLURRING EFFECT PROVIDED ONCHAIN TO GENERATE VAST AND DENSE
SOUNDSCAPES.





MIX: CONTROL THE AMOUNT OF DIRECT SIGNAL AND EFFECTED SIGNAL.

FREEZE

FREEZE: PUSH THE BUTTON TO FREEZE A PORTION OF THE INCOMING SIGNAL TO BE PROCESSED; PUSH AGAIN TO RELEASE THE FREEZE MODE GOING ON PROCESSING THE REAL-TIME INCOMING SIGNAL.



TUNE: SET THE GRAINS' PITCH.

O CORRESPONDS TO THE ORIGINAL TUNING,
THE KNOB OPERATES IN SEMITONES. ADJUST THE TUNE IN CENTS.

RANDOM OCTAVE

0 %

<u>RANDOM OCTAVE:</u> ADD RANDOMICITY TO THE OCTAVE OF EACH GRAIN'S PITCH. HIGH % MEANS MORE CHANCE OF TUNING FAR FROM THE TUNE SET.



<u>SPREAD:</u> BALANCE THE SIGNAL OUTPUT BETWEEN MONO AND STEREO DISTRIBUTION. USE IT TO SET A NARROW OR WIDE SPATIAL SPREAD.



DENSITY

70.0 %

RESET

DENSITY: SET THE AMOUNT OF DENSITY IN THE GRANULATION PROCESS. LESS DENSITY MEANS EACH GRAIN WILL WAIT MORE TIME BEFORE TO RE-START PLAYING. RESET: TRIG MANUALLY THE ENVELOPE OF EVERY GRAIN SIMULTANEOUSLY. PRESS IT IF YOU CHANGE THE BUFFER SIZE OF THE LIVE SESSION.

GRAIN SIZE



500 ms



LENGTH: SET THE ENVELOPE'S DURATION OF EACH GRAIN. LONGER IS THE SIZE, MORE CHUNKS OF SOUND ARE PLAYED IN REVERSE.
PUSH THE MS/NOTE BUTTON TO DECIDE THE TYPE OF CONTROL UNIT:
ENABLES A CONTROL VALUE IN MILLISECONDS OR ENABLES A CONTROL VALUE IN NOTEVALUE (RELATED TO THE TRANSPORT'S BPM).

RANDOM SIZE

50.0 %

<u>RANDOM SIZE:</u> ADD RANDOMICITY ON THE SIZE SELECTION OF EACH GRAIN.

WINDOWING

HANNING

<u>WINDOWING:</u> SET THE SHAPE OF THE GRAIN'S AMPLITUDE ENVELOPE CHOOSING THROUGH THE MENU.





<u>GAIN:</u> CONTROL THE OUTPUT VOLUME OF THE GRANULAR EFFECT (DB). IT WILL AFFECT HOW STRONGLY IT'S SENT TO THE BLUR EFFECT.

VOICES

24

VOICES: SET THE AMOUNT OF VOICES ACTIVE USED BY THE ALGORITHM.



<u>Blur:</u> Balance the amount of blur effect to add to the granular sound.



<u>SIZE:</u> SET THE SIZE OF THE BLUR EFFECT. THIS CONTROLS THE VASTNESS AND DENSITY OF THE AMBIENT. AT VERY LOW VALUES IT'S A SOFTENED LAYER OF THE ORIGINAL SOUND, BUT AT HIGHER VALUES THE SOUND BECOMES VAST AND WIDE.



<u>Color:</u> act as a high-pass filter on positive values (0 1) or as a low-pass filter on negative values (-1 0).

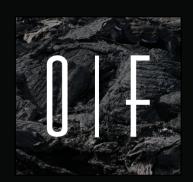
FEEDBACK

70.0 %

<u>FEEDBACK:</u> SET THE AMOUNT OF FEEDBACK ON THE BLUR EFFECT. THIS ELONGES THE TAIL OF THE REVERBERATION.

VERSION 1.0 November 2021

TESTED WITH ABLETON LIVE 11.0.12
MINIMUM REQUIREMENT ABLETON LIVE 10.1.18



FOR MORE INFO AND VIDEO DEMO: www.outerfields.net/libraries/grotta/

IN CASE OF NEED (TO REPORT PROBLEMS, BUGS, DOUBTS)

OR JUST FOR INFO AND CURIOSITY, PLEASE - CONTACT US BY EMAIL:

info@outerfields.net

INSTRUMENT DESIGN AND DEVELOPMENT BY DANIELE FABRIS
BETA TESTING AND COVER PHOTO BY FRANCESCO FABRIS
GRAPHIC DESIGN BY MARTA GIURIZZATO



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