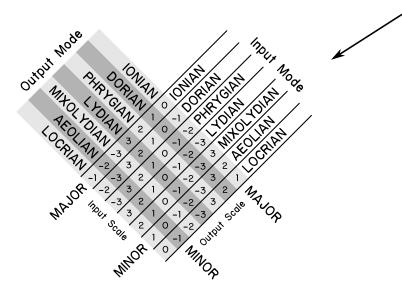
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Major Scale ර ماھا∞ 먑 ф Δ Bb В Scale Parameter C Db D Eb F -1 Gb G -1 -1 -1 -1 Ab ≉∣ |a||む ঠ â ුතු G ⋖ \mathbf{B} ပ Minor Scale

Scale parameters used to specify major and minor scales.

-1 entry in table: note is not in scale (parameter -1).

Blank entry in table: note is in scale or snap to note (parameters O and 1).



Values of OUTPUT SCALE ROTATE used to change musical modes.

CONTROL OUTPUTS:

DETECTED PITCH
Detected pitch of input signal.
DETECTED PITCH = 0: middle A
MIDI pitch = DETECTED PITCH + 69

DETECTION CONFIDENCE Confidence (between O and 1) of pitch estimate. Values above ~0.7 may be considered voiced.

CONTROL INPUTS:

CONCERT A

Value in Hz of middle A, used to tune the entire algorithm.

FIXED PITCH

Pitch (semitones) toward which pitch is pulled when PULL TO FIXED PITCH is engaged.

FIXED PITCH = 0: middle A

FIXED PITCH = MIDI pitch - 69

PULL TO FIXED PITCH

Degree to which pitch is pulled toward FIXED PITCH. O: use original pitch. 1: use FIXED PITCH.

NOTES in SCALE

Specifies to various parts of the algorithm whether each note is: not in the scale (-1), in the scale (0), or in the scale and snapped toward (1).

CORRECTION STRENGTH
Strength of pitch correction. O: no correction. 1: full correction.

CORRECTION SMOOTHNESS
Smoothness of transitions between notes when pitch correction is used.
O: abrupt transitions. 1: smooth transitions.

PITCH SHIFT

Number of notes in scale by which output pitch is shifted.

OUTPUT SCALE ROTATE

Number of notes by which the output scale is rotated in the conversion back to semitones from scale notes. Can be used to change the scale between major and minor or to change the musical mode.

LFO DEPTH

Degree to which low frequency oscillator (LFO) is applied.

LFO RATE

Rate (in Hz) of LFO.

LFO SHAPE

Shape of LFO waveform. -1: square, O: sine, 1: triangle.

LFO SYMMETRY

Adjusts the rise/fall characteristic of the LFO waveform.

LFO QUANTIZATION

Quantizes the LFO waveform, resulting in chiptune-like effects.

FORMANT CORRECTION

Enables formant correction, reducing the "chipmunk effect" in pitch shifting.

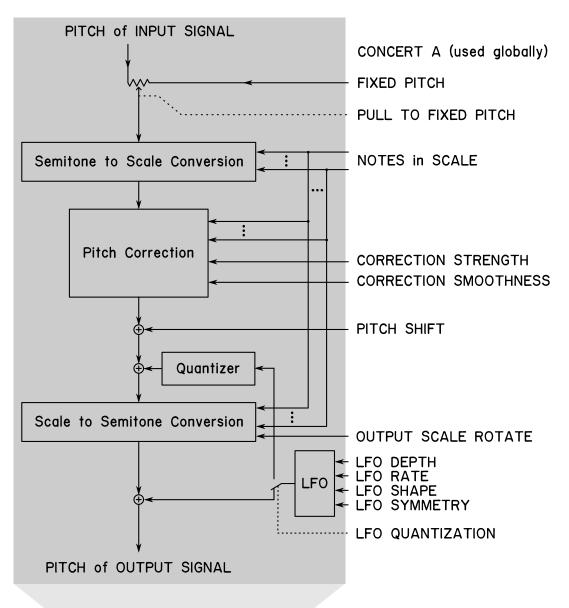
FORMANT WARP

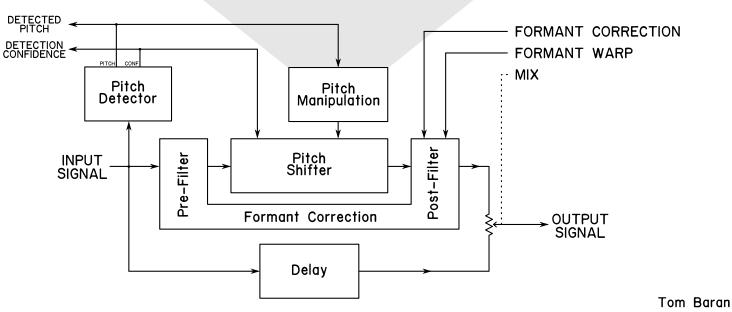
Warps the formant frequencies. Can be used to change gender/age.

MIX

Blends between the modified signal and the delay-compensated input signal. 1: wet. O: dry.

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