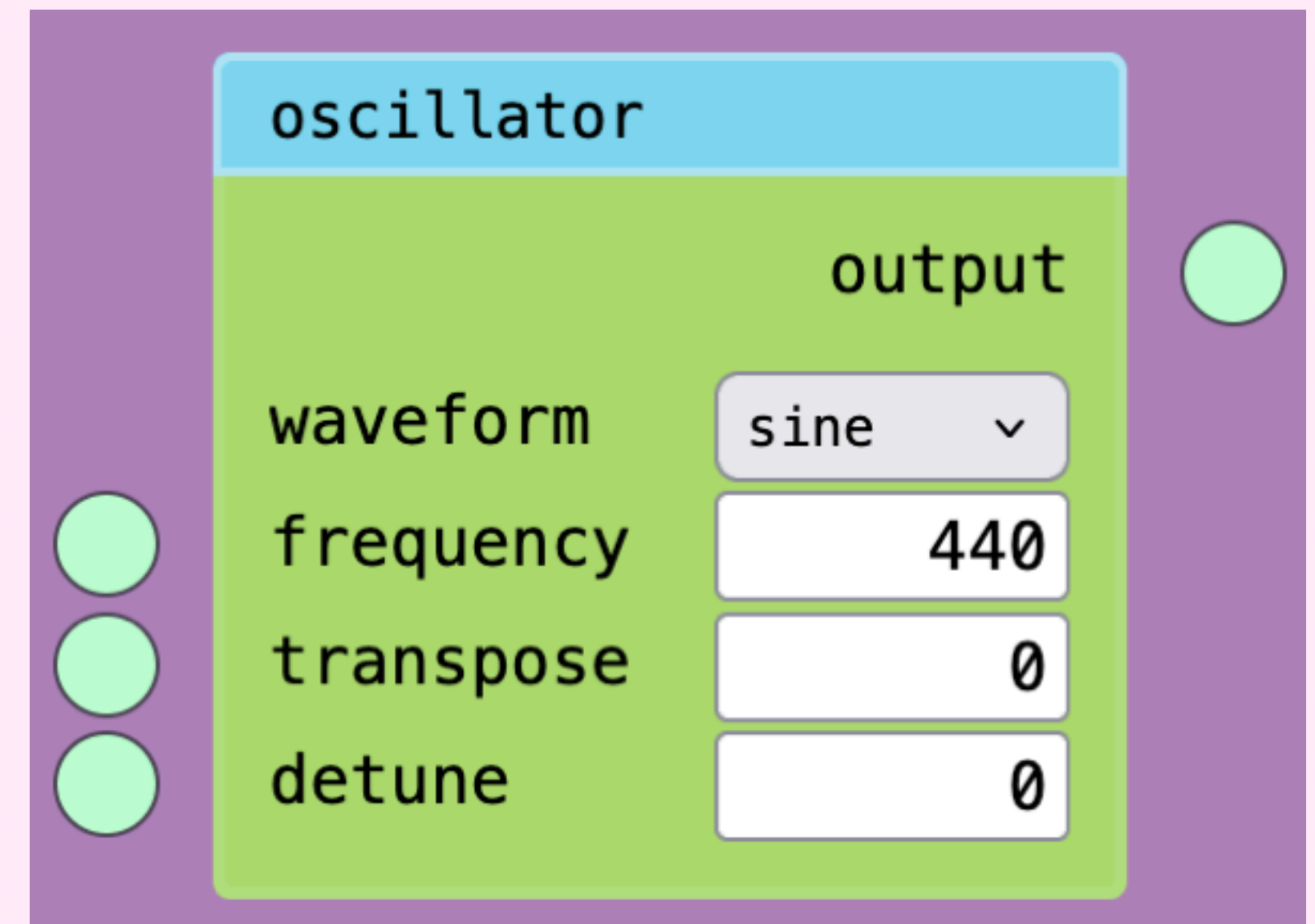# Using synth.kitchen

Oscillator Modules

Oscillators produce a continuous cycling wave.

The sound they produce depends on the following parameters:

- waveform: the shape of the wave

- frequency: the pitch in *Hz* (440 is A4)

- transpose: an offset from the pitch in *semitones*

- detune: an offset from the pitch in terms of *cents*

Note: transpose and detune are based on 12TET tuning.
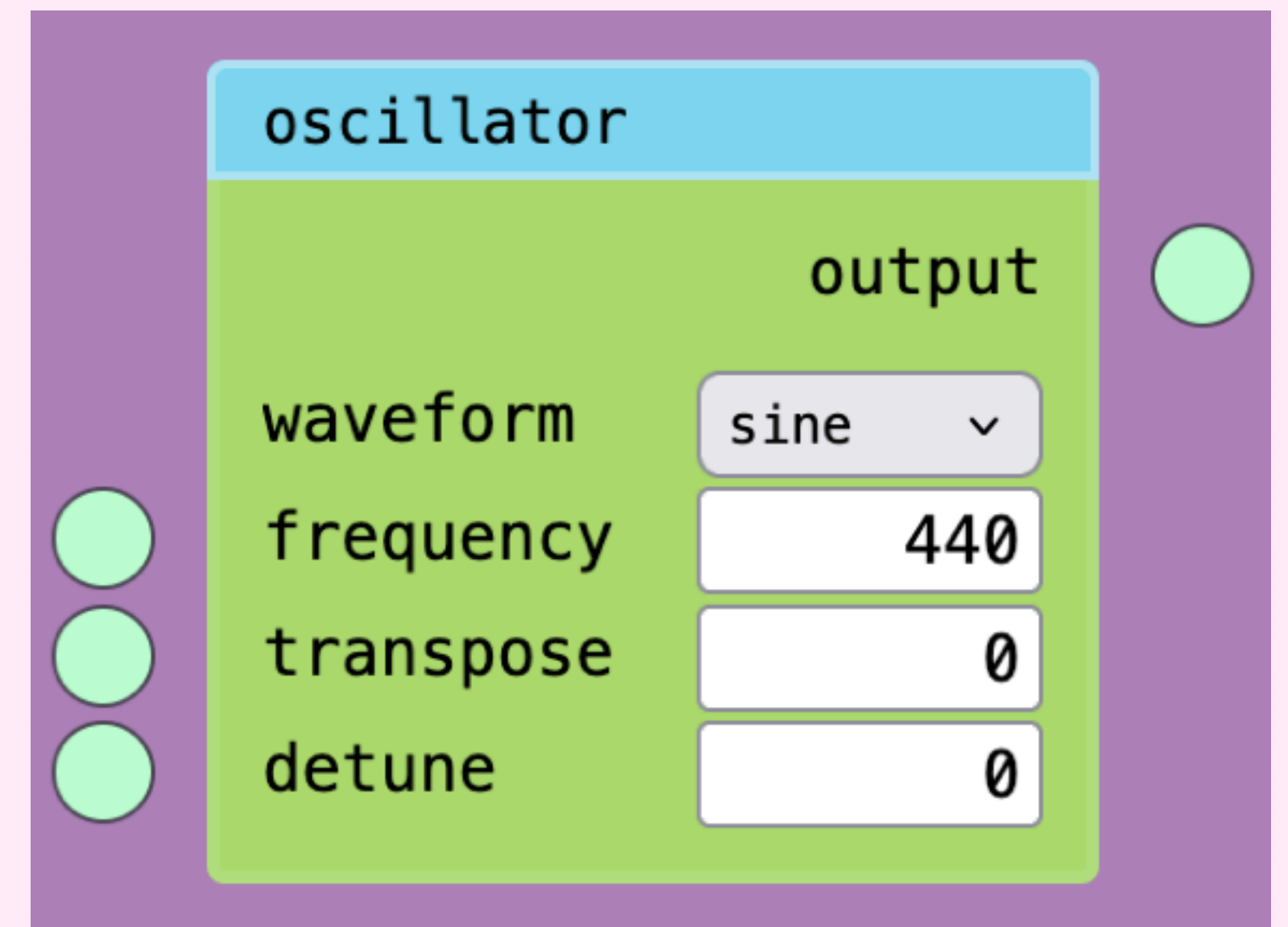
Using synth.kitchen

Parameters

Most modules have parameters.

Parameters can be:

- options (waveform: sine/triangle/square/sawtooth)

- number (frequency, transpose, detune)

Number parameters can be controlled or modulated by connecting them to the outputs of other modules

Oscillators

Waveform

Most common shapes:

- sine

- square

- triangle

- sawtooth

image source: duncanmckay.weebly.com

Sine

Square

Triangle

Sawtooth