Simple Synth

UML Class Diagram

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Clock

tick()
attach()

vector of Generators

Generator

getSample()
virtual tick()

samplerate

Synthesizer

noteOn()
noteOff()

Oscillator

setFrequency()
getFrequency()

frequency

Envelope

tick() override
getSample()

Sine

tick() override
getSample()
frequency

HardClipper

tick() override
getSample()