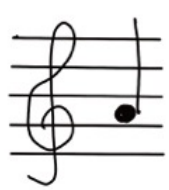
Special #1 – blackboard scribble

Tone: frequency + waveform + envelope (ADSR)

Note: "name" + length + tuning frequency



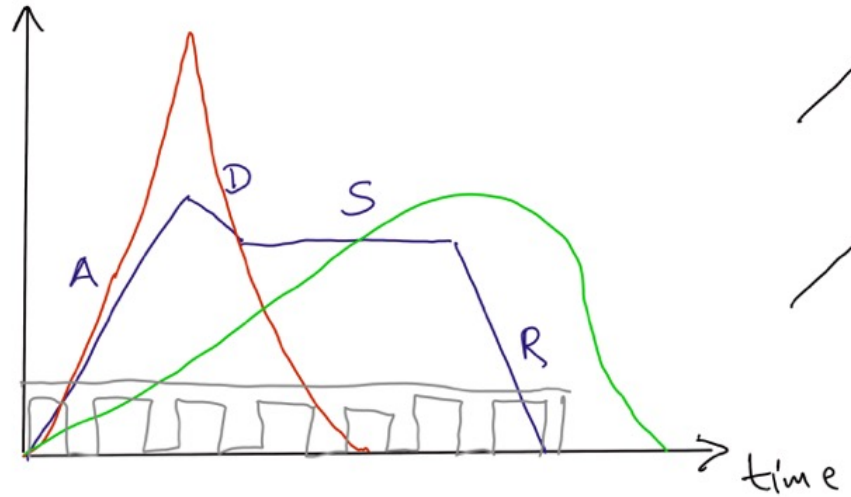
"A" quarter note 440 Hz
(1 note/beat)

f_0

$f_0 \; \frac{1}{3} 3f_0 \; \frac{1}{5} 5f_0 \; \ldots$

$f_0 \; \frac{1}{2} 2f_0 \; \frac{1}{3} 3f_0 \; \frac{1}{4} 4f_0 \; \ldots$

$f_0 \; \frac{1}{9} 3f_0 \; \frac{1}{25} 5f_0 \; \ldots$



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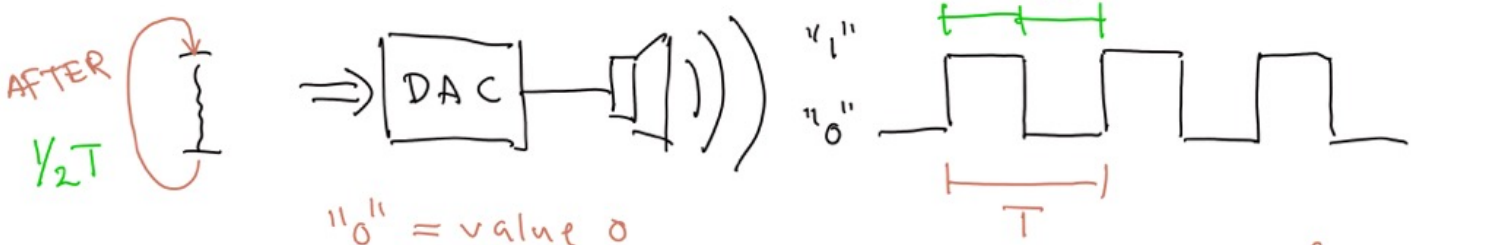
Tone generator



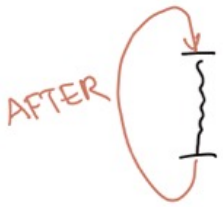
"0" = value 0

"1" = value 1-5

$T = \frac{1}{f}$

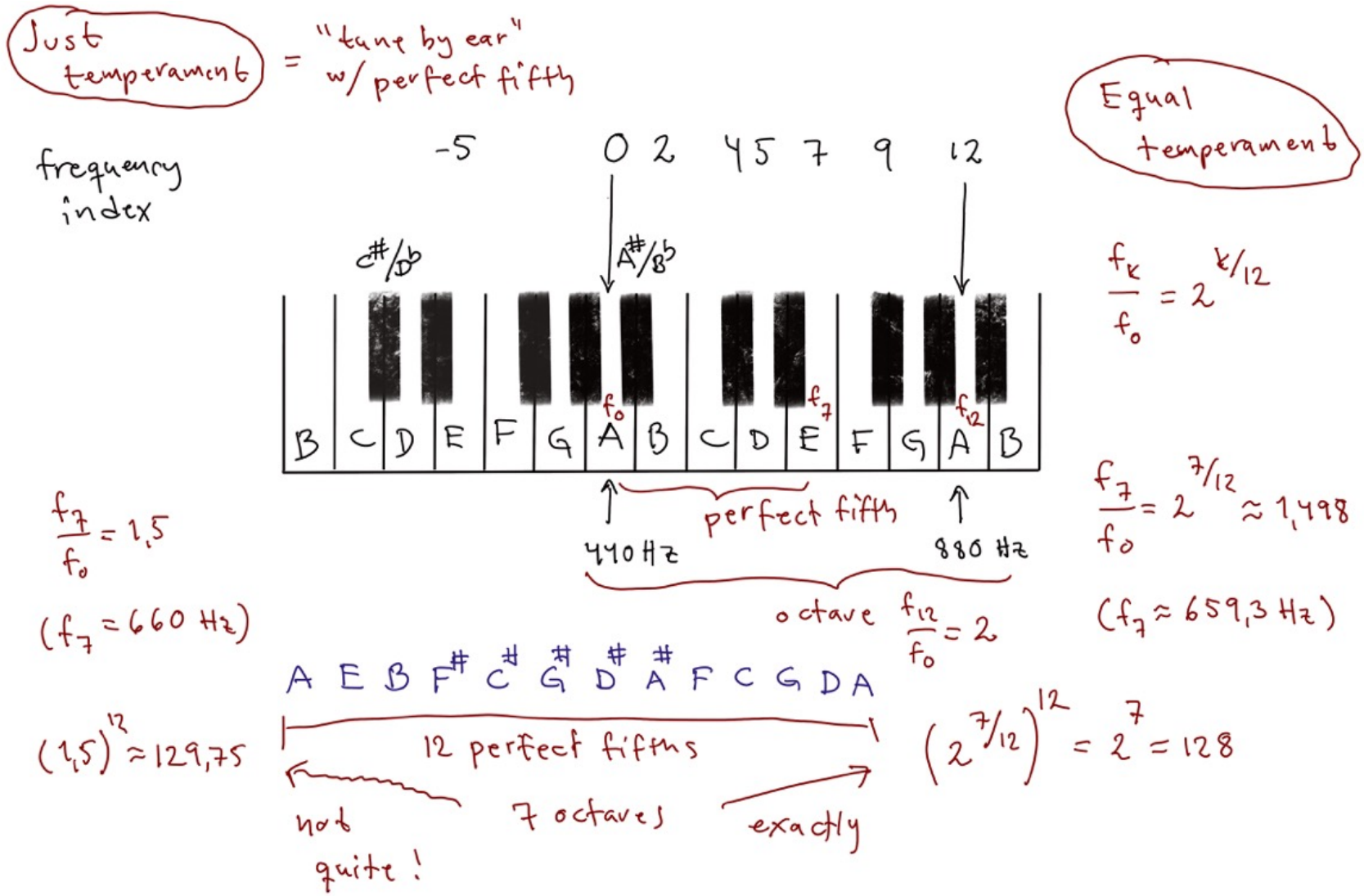
f = 1 kHz ⇓ T = 1 ms

Background load



variable load (busy waiting loop)

no deadlines ⇓ both tasks equally important

with deadlines ⇓ prioritize tone generator

Special #1 – blackboard scribble