



MAX

SysBas 1B

Les 3

Suzanne Ciani



<https://youtu.be/QRx-YdqHLus>

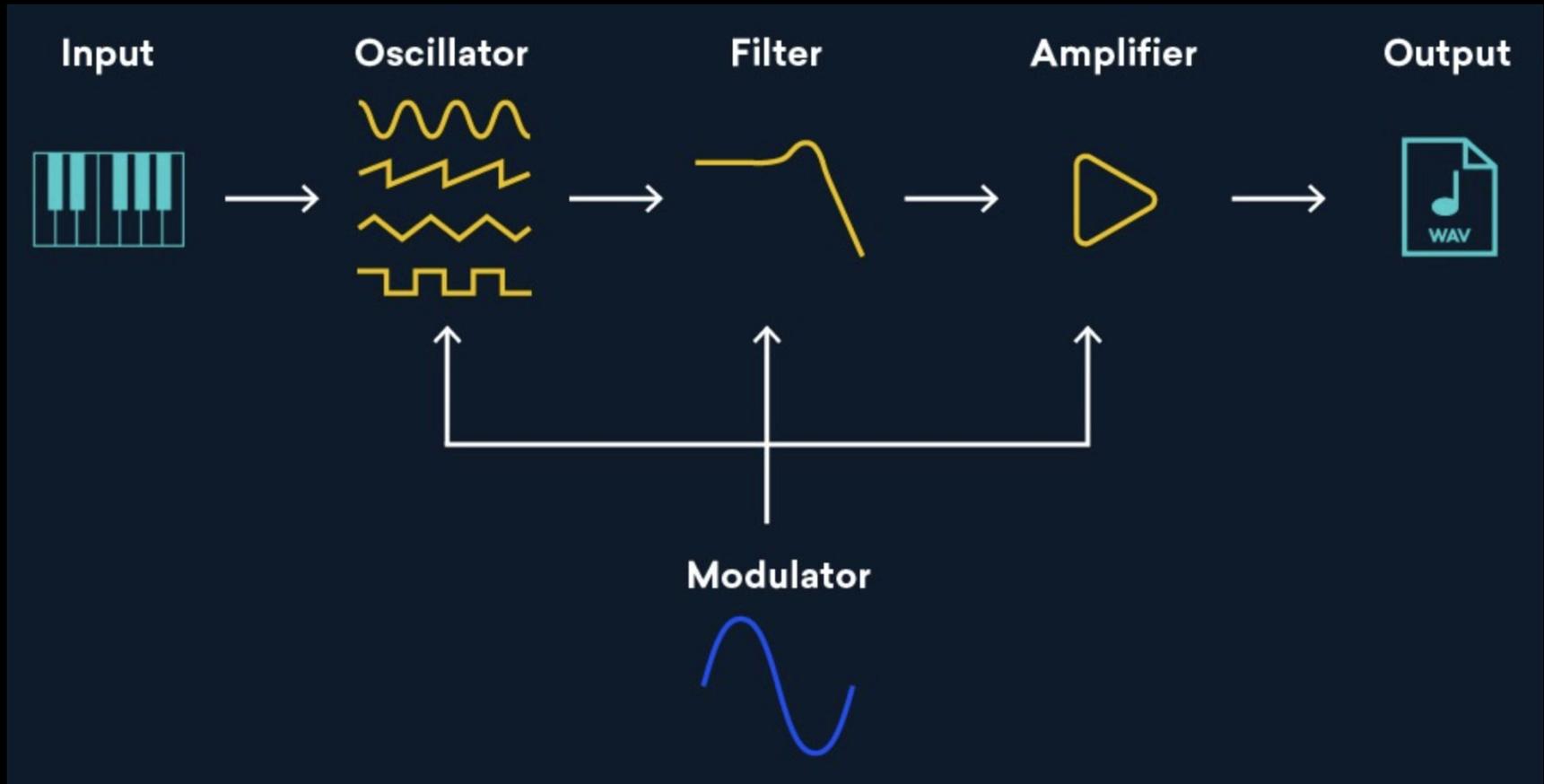
Subtractive Synthesis



Subtractive Synthesis

Het creëren van timbres
door spectraal rijke klanken
(dynamisch) te filteren

Subtractive Synthesis



Korg Minilogue XD



Korg Minilogue XD



Subtractive Synthesis

OSCILLATOR

ADSR

FILTER

LFO

OSCILLATOR - Harmonics (partials)

cycle~

tri~

rect~

saw~

noise~

pink~

SINE WAVE



TRIANGLE WAVE



SQUARE WAVE



SAW TOOTH WAVE

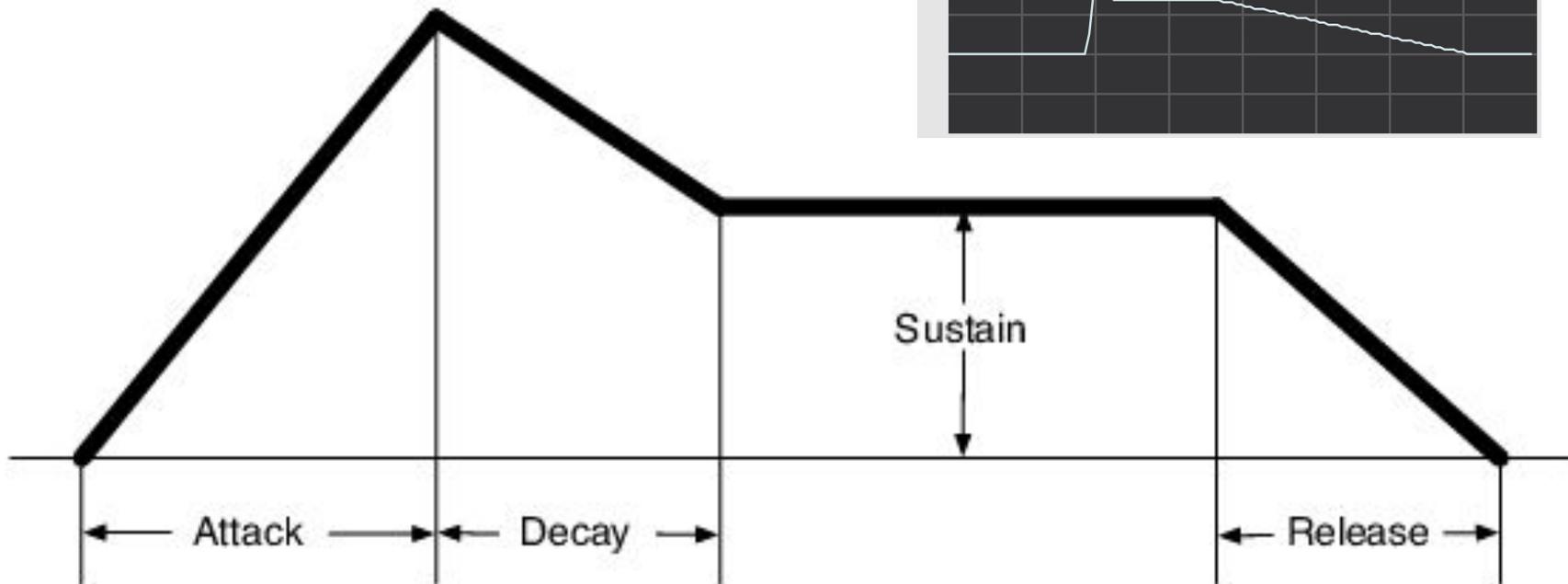
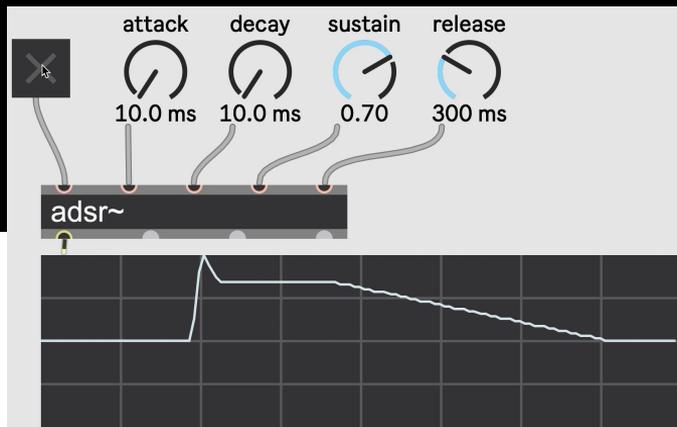


RANDOM WAVE

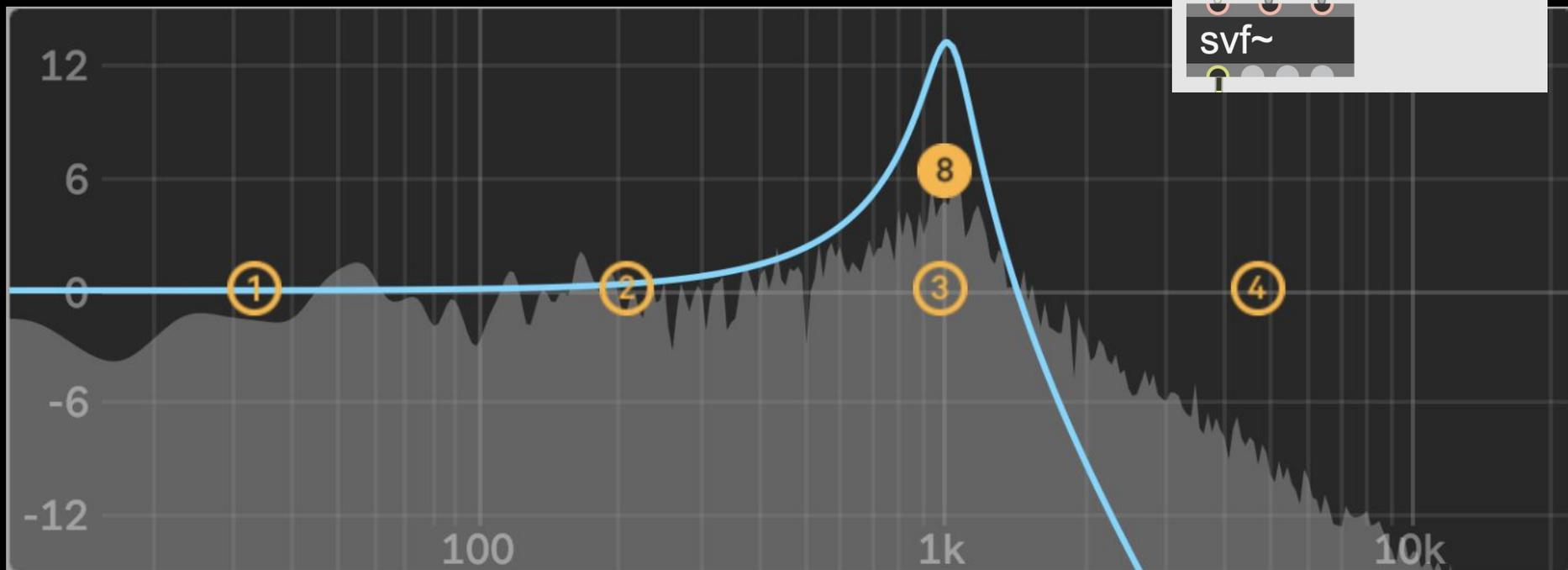


Correctie : Zowel de Triangle als de Square wave hebben allebei **alleen oneven** harmonischen. Het verschil is dat die van de Square allemaal even hard zijn, terwijl ze van de Triangle sneller aflopen in amplitude

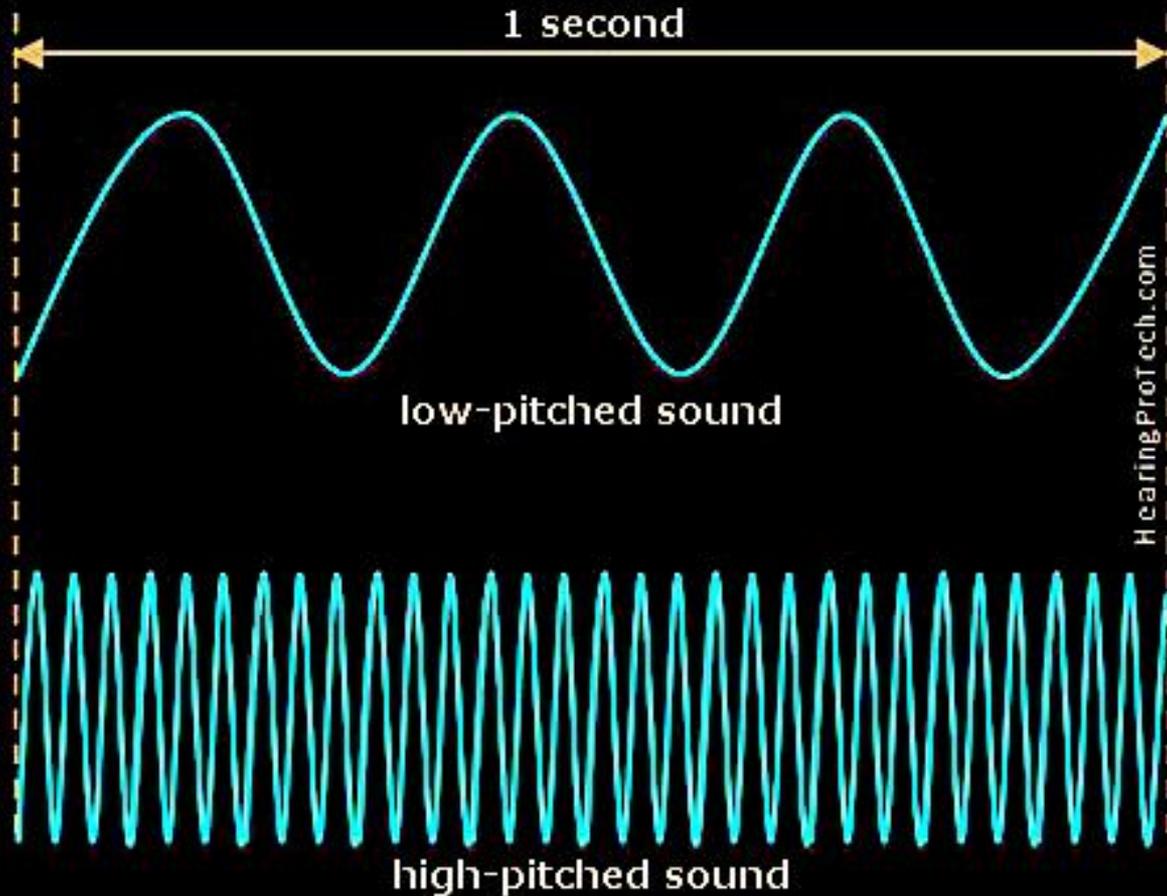
ADSR



LOW-PASS FILTER



LFO - Low Frequency Oscillator



cycle~

tri~

rect~

saw~

rand~

