

POLITECNICO DI MILANO

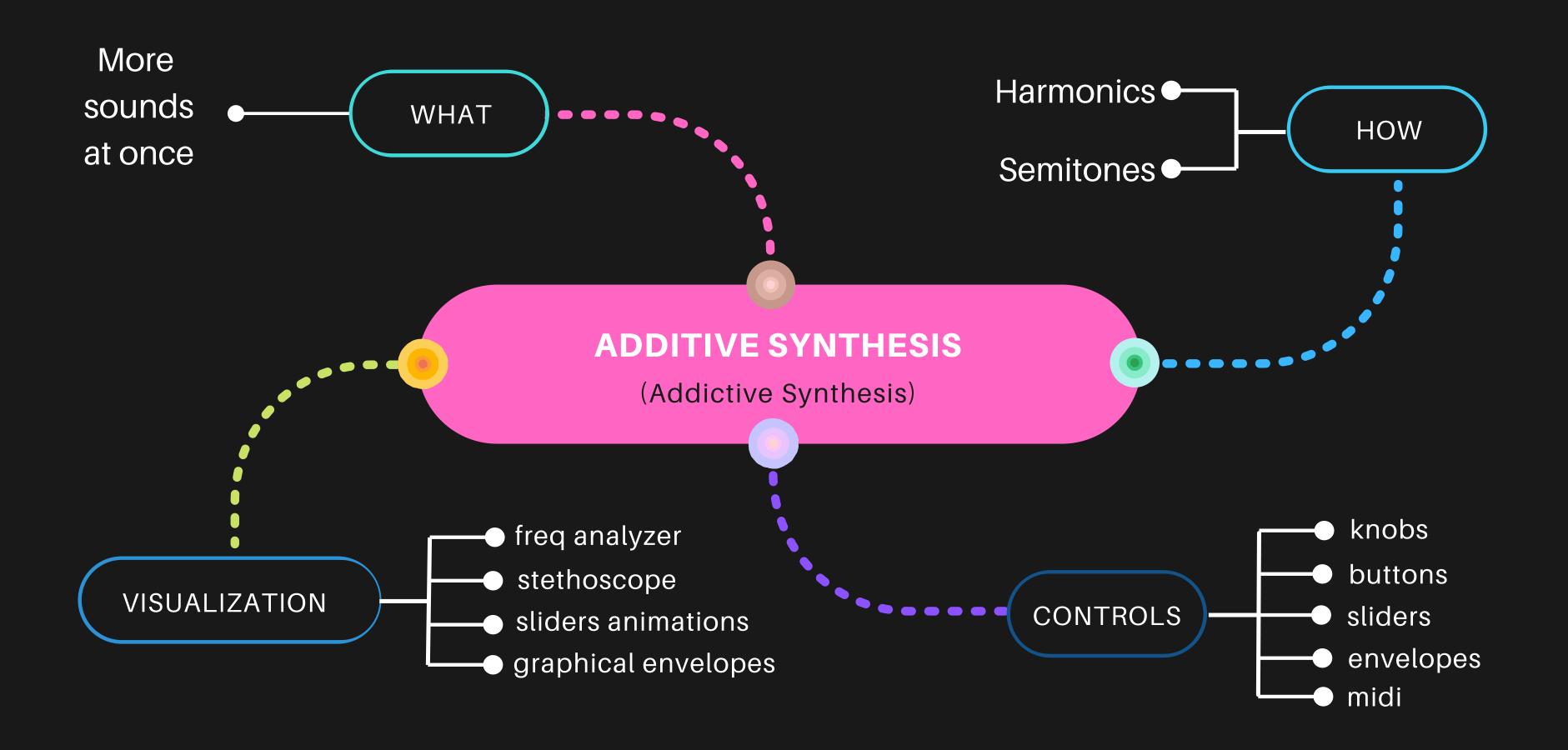


Additive Synthesis

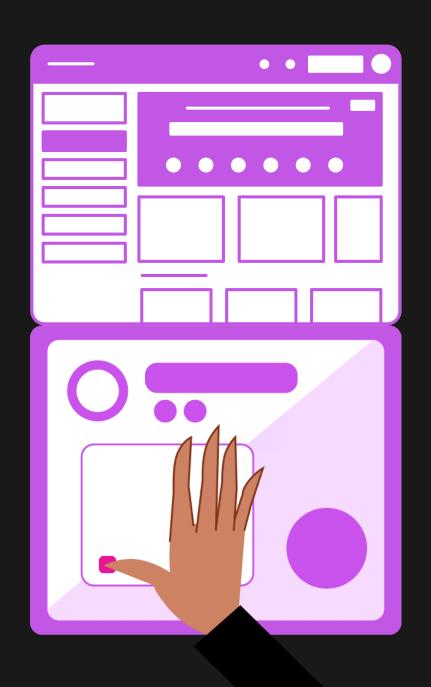


BeetleJUCE

Adriano Farina Alessandro Gorni Giuseppe Risitano Enrico Regondi Rebecca Superbo



GUI



Spectral content

Stethoscope •

Sliders •

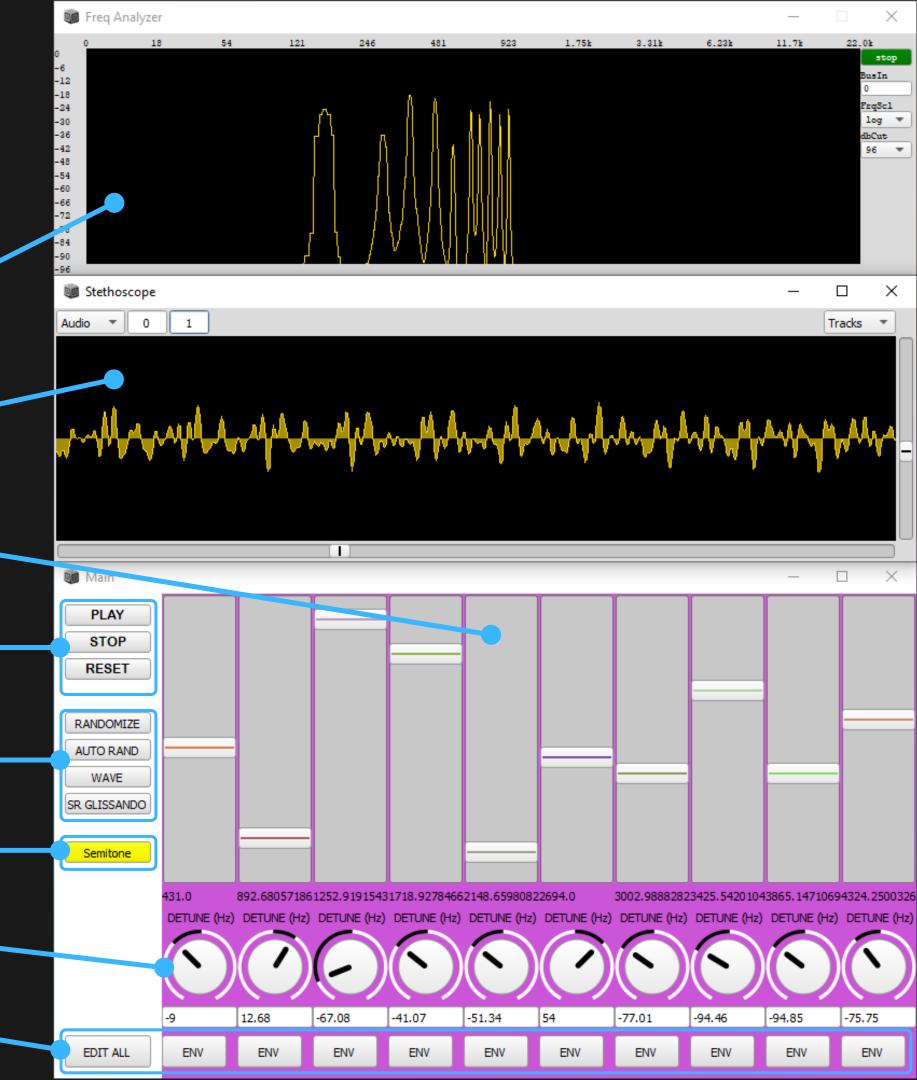
Main controls •

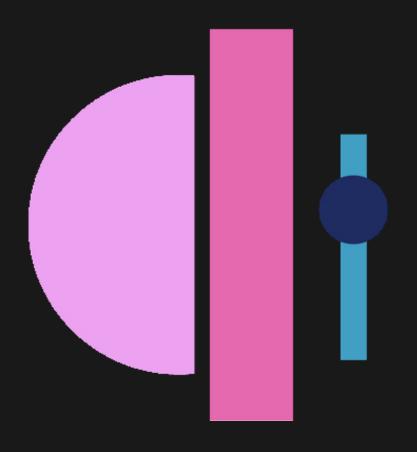
Functions •

Toggle semitones •

Detunes •

Edit envelopes •

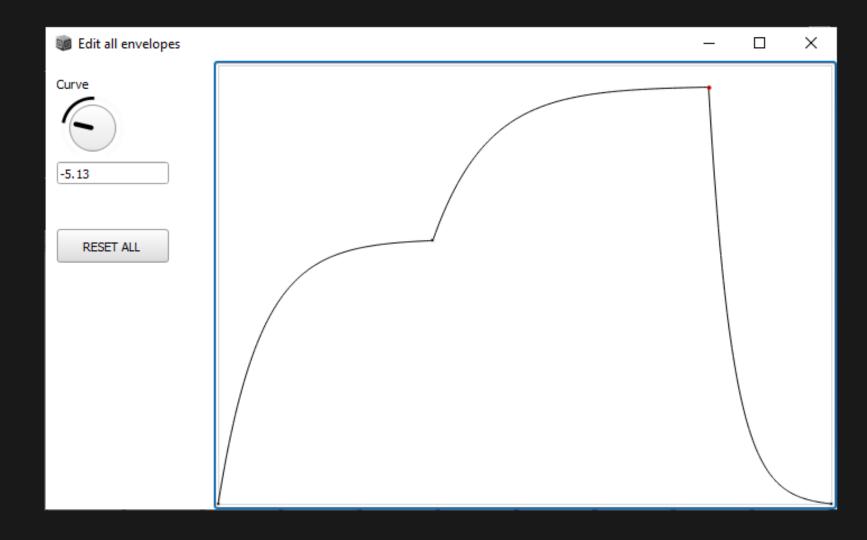


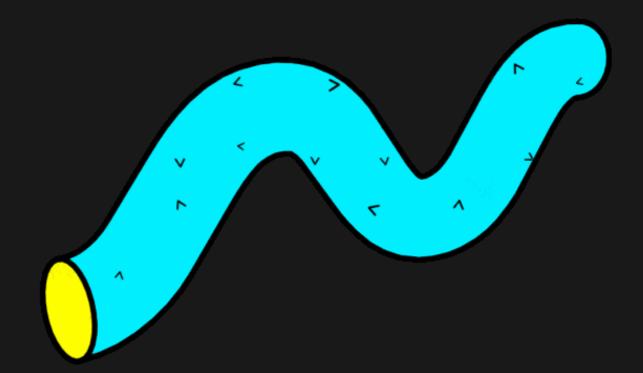


Envelopes

ADSR parameters editable

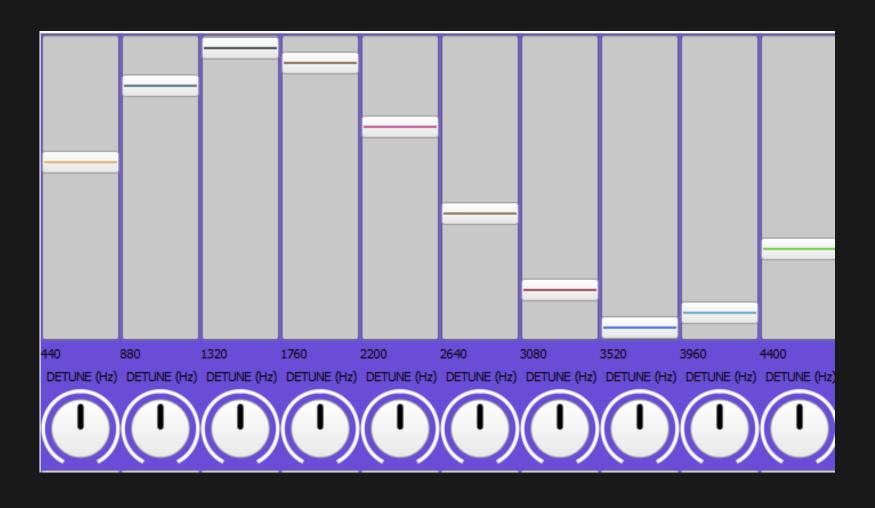
- Grab nodes
- Curvature
- Reset
- Draw your envelope!





Amplitude Wave

Audio and visual effects Sinusoidal waveform (acts like a moving bandpass filter)

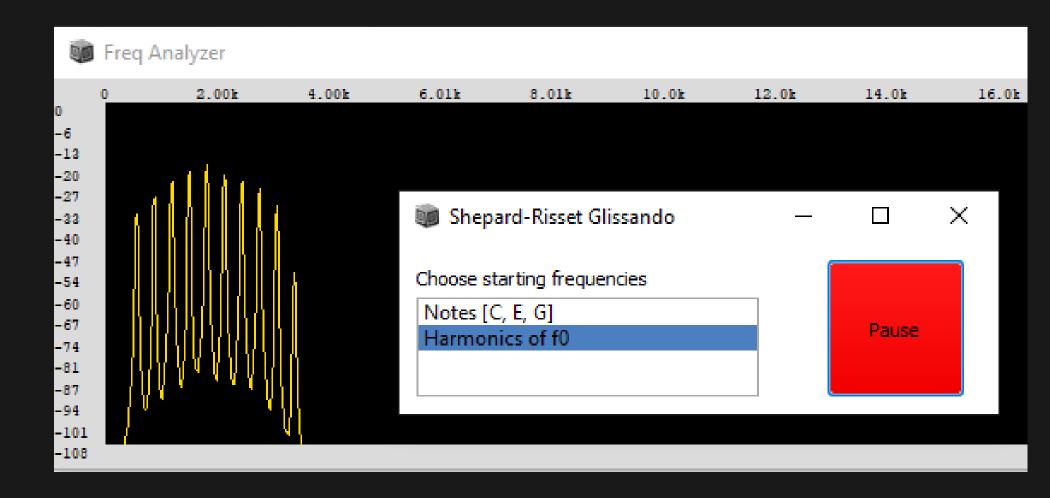


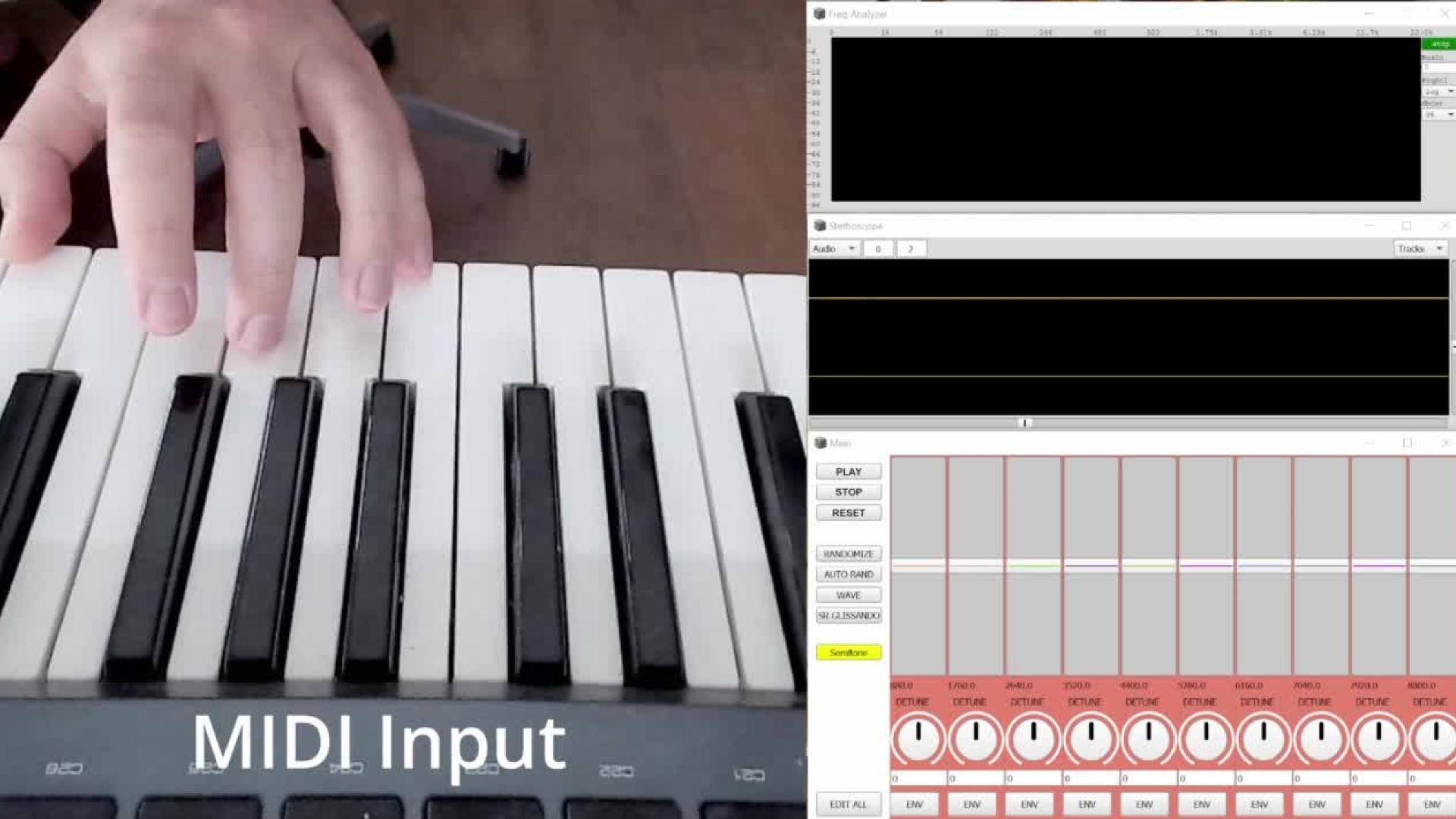


Glissando

Shepard-Risset Glissando An infinite illusion

Moving frequencies Shaping amplitudes







I've seen the exorcist SuperCollider about 167 times, and it keeps getting funnier every single time I see it!

Beetlejuice (from Tim Burton's movie)

