

POLITECNICO

MILANO 1863

POLO TERRITORIALE DI **CREMONA**



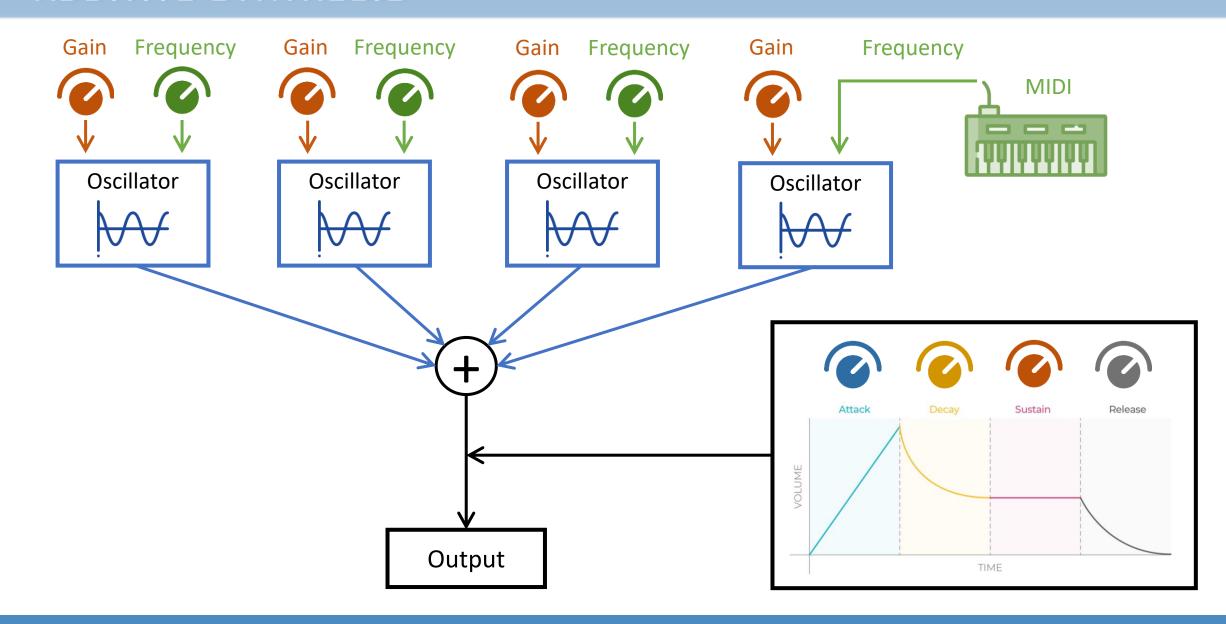
Master of Science Music and Acoustic Engineering

Computer Music – Languages and Systems

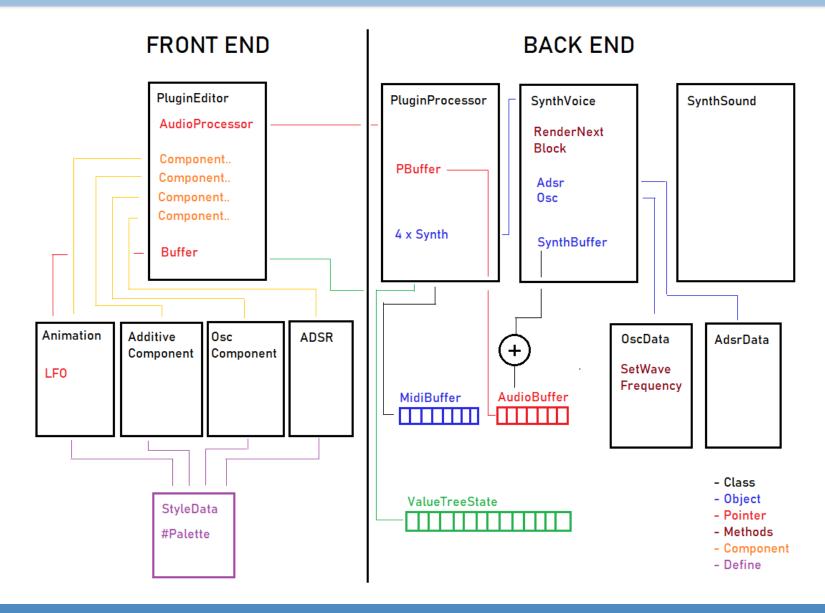
Homework 2: Additive Synthesis

GROUP 16
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ADDITIVE SYNTHESIS



STRUCTURE OF THE SYNTHESIZER





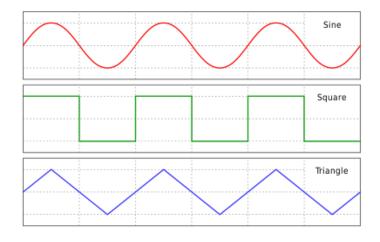
GOALS FOR THE BACK-END

- Optimization of resources and readability
- Polyphony
- Different waveforms

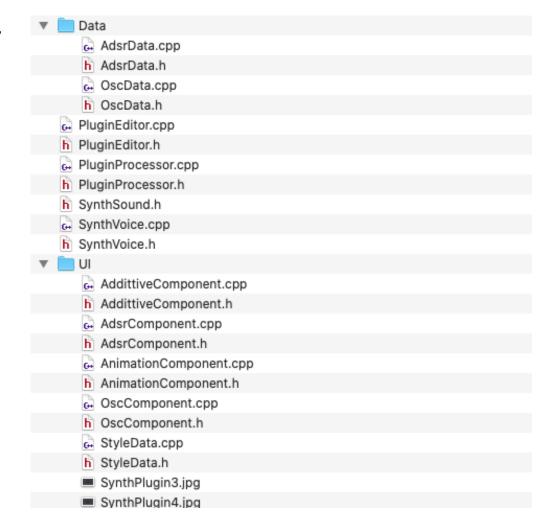
Sine

Square

Triangle



- Knobs for parameters control
- Real-time modifications



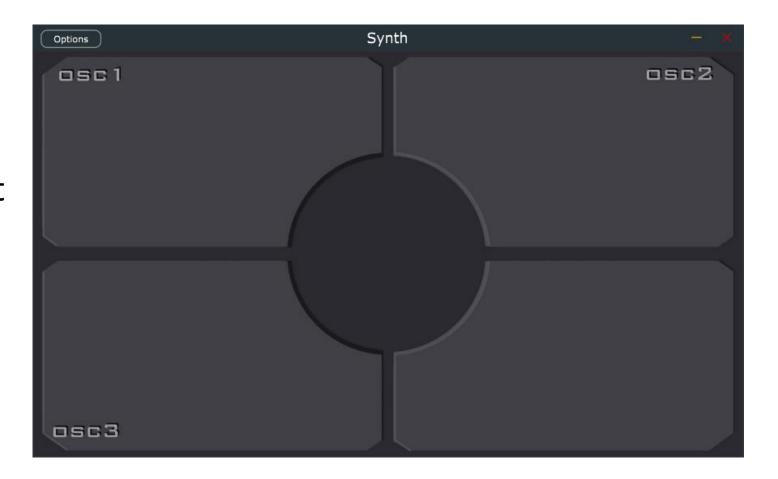
Layer graphical structure of the GUI

plugin editor





- Layer graphical structure of the GUI
- plugin editor
- animation component



- Layer graphical structure of the GUI
- plugin editor
- animation component
- additive component



- Layer graphical structure of the GUI
- plugin editor
- animation component
- additive component
- oscillator box



- Layer graphical structure of the GUI
 - plugin editor
 - animation component
 - additive component
 - oscillator box
 - ADSR component



- Layer graphical structure of the GUI
- plugin editor
- animation component
- additive component
- oscillator box
- ADSR component
- Cool animation around the central knob
- Graphical parameters control





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POLO TERRITORIALE DI CREMONA



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Thanks for your attention!