

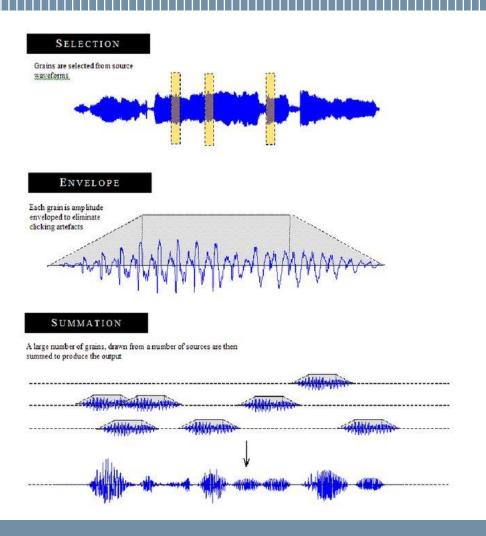
Granular synthesis for foley sounds

Group 7: LemonJuice

Guglielmo Fratticioli Chiara Lunghi Alessandra Moro Elia Pirrello



Introduction to the grain synthesis



 Manipulate small fragments of sound called "grains"

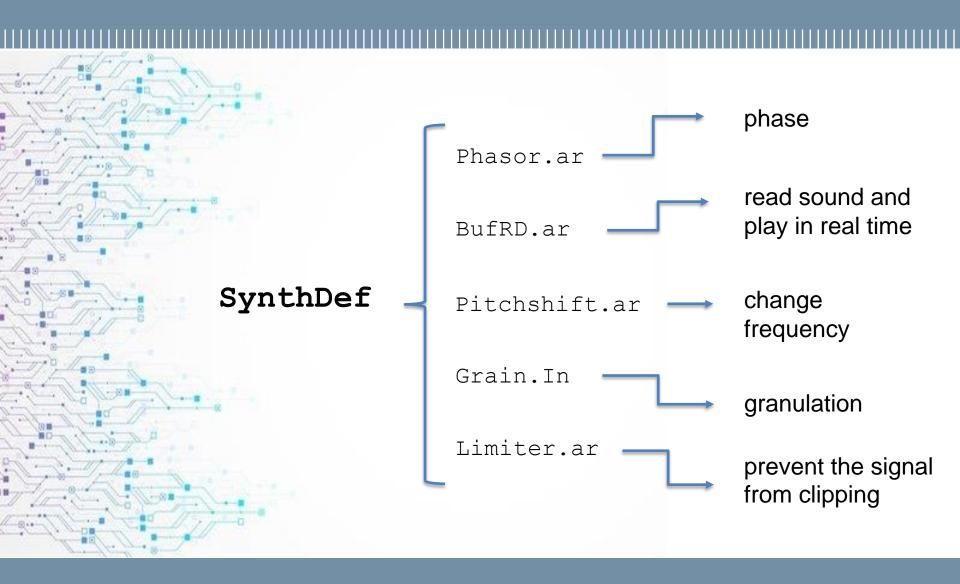


 Allows mixing any pair of samples together, from a selection of 13 different sound samples

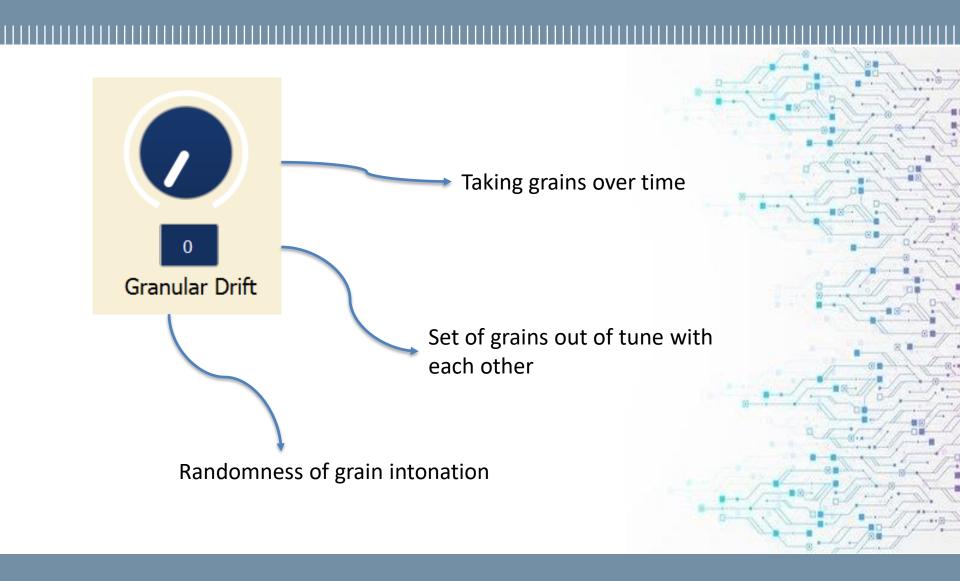


 It can be controlled by parameters like grain duration, granular drift and frequency

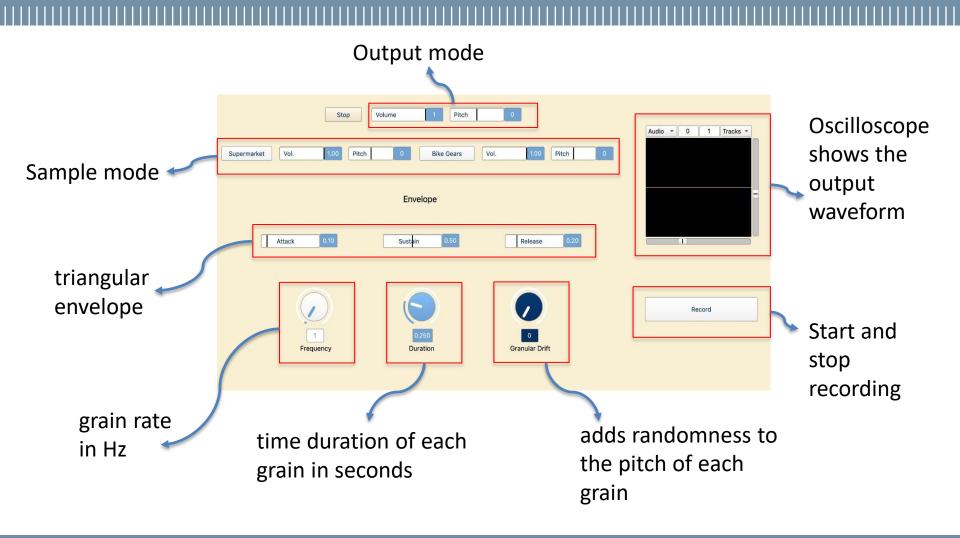
Implementation



Implementation



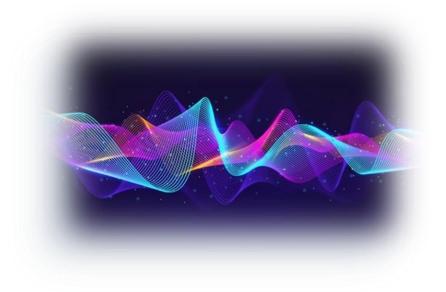
The GUI



Conclusions

Realistic examples of foley sounds were created:

- Helicopter
- foot steps
- hail on the window
- a horror factory ambiance
- the distinct sound of a mining cart moving



Grain. In function was not as adjustable as we expected

Despite this limitation, incorporating pitch shifters and a limited number of audio samples has resulted in pleasing timbral variations in the outcomes