



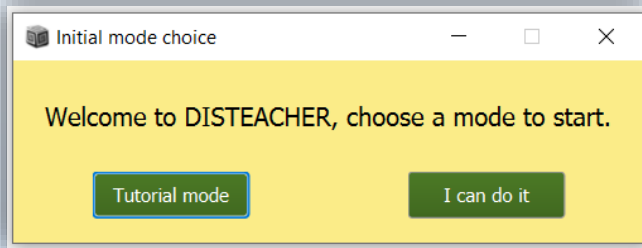
POLITECNICO
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First Homework of Computer Music Languages and Systems
A.A.2022/23

The Disteacher

Group 2 - Circuitone - X. Luan, G. Costa, S. Stagno, A. Paoletti

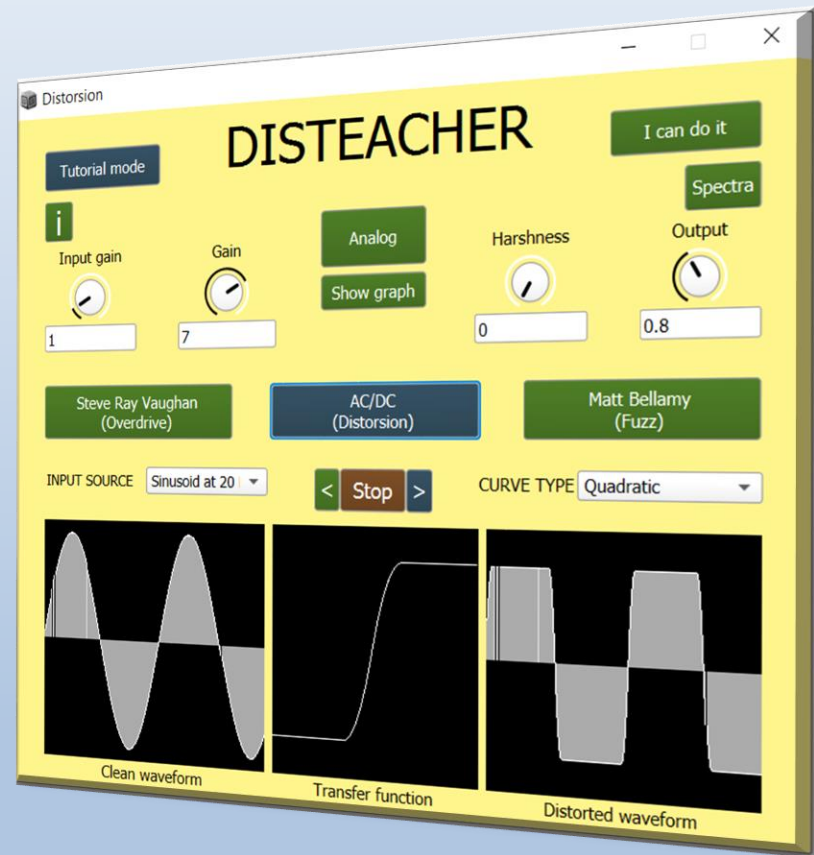
Teaching Distortion



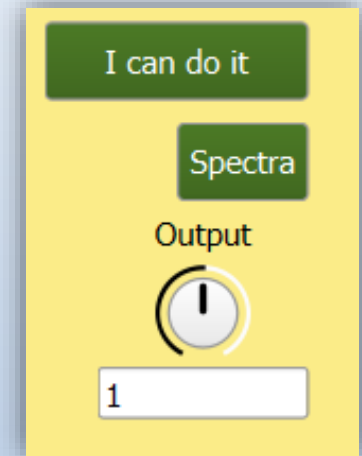
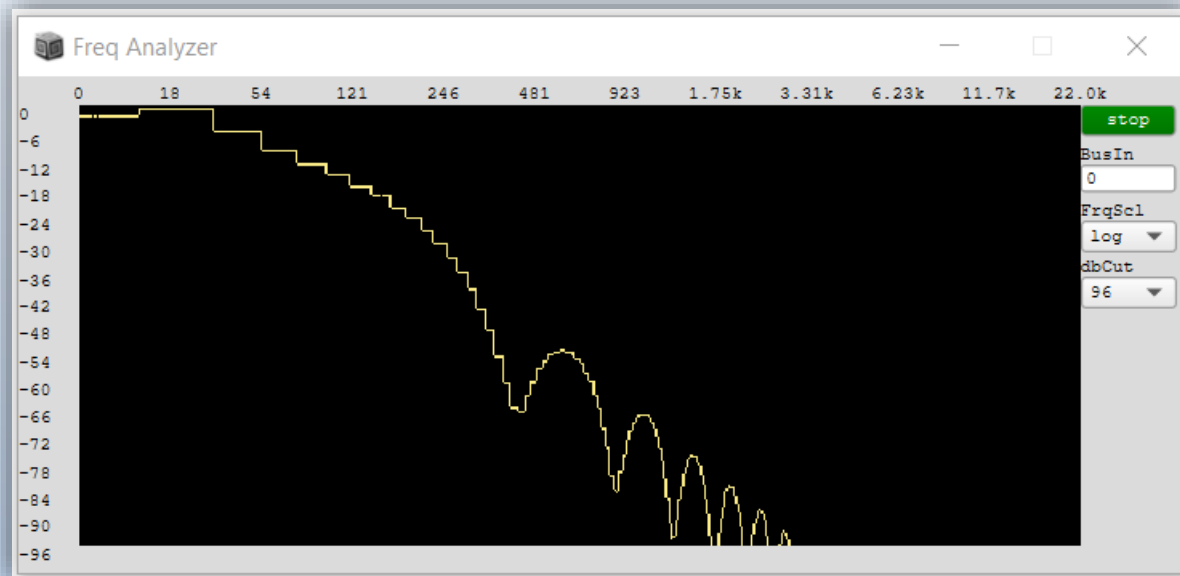
Goal: develop an application to teach how *distortion* works.

Two usage modalities, one to learn and one to experiment.

Four knobs to change distortion parameters. Three distortion presets to get an idea of how parameters influence the distorted output.

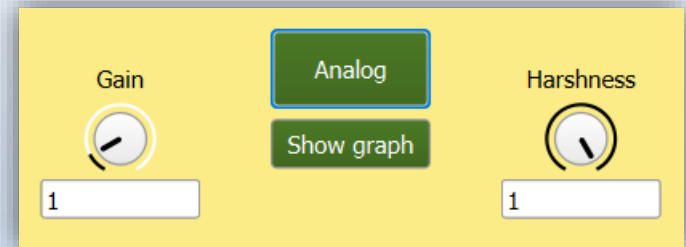
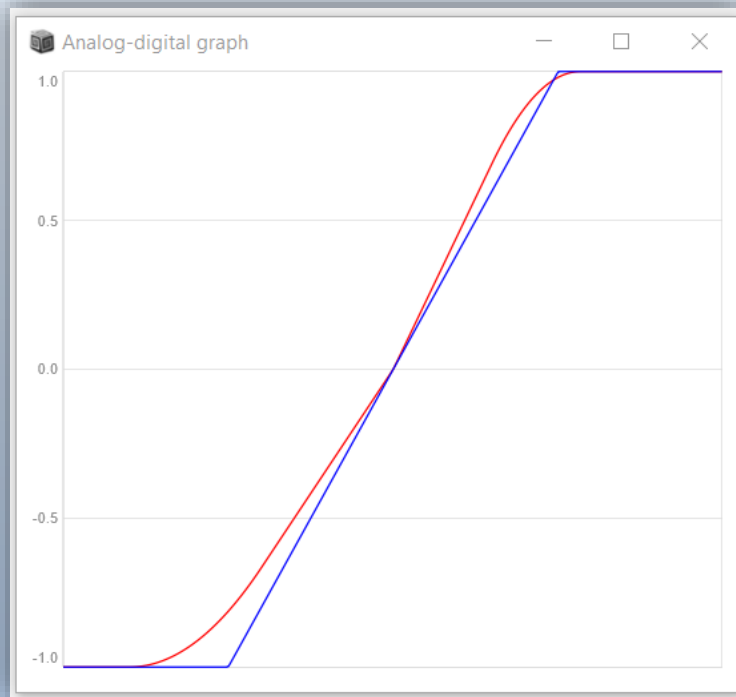


Show Frequency Spectrum



By clicking on the ***Spectra*** button in the upper right part of the screen you can see the frequency spectrum of the output soundwave.

Analog Emulation

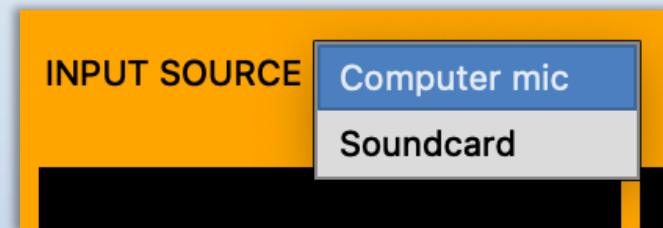
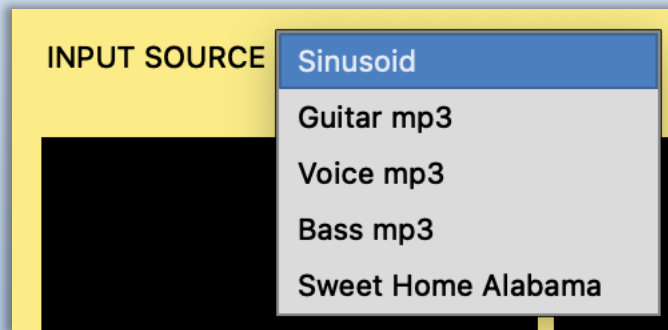


By clicking on the central **Analog** button you can add an analog feel to the distortion function.

If you want to see the difference between the normal and the analog function, just click on the **Show graph** button.

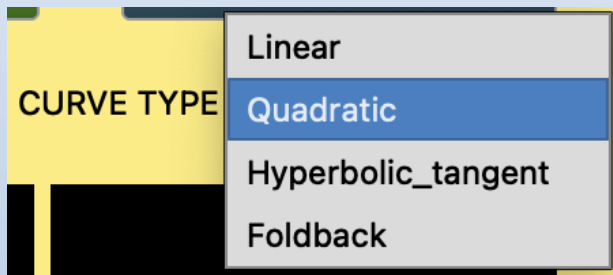
Input choice

In the ***Tutorial*** mode user can choose the input from a list of recorded audio files.

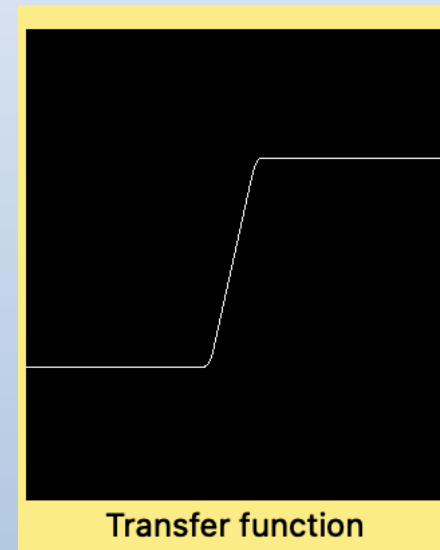


In the ***I can do it*** mode the distortion will be directly applied to the sound coming in real-time from the hardware inputs.

Transfer function choice



In both modalities user can choose the **transfer function** type. The graph is always shown in the bottom center of the GUI.



A decorative horizontal bar at the top of the slide, composed of many thin, vertical white lines of varying heights, creating a textured, barcode-like appearance.

Thanks for the attention!