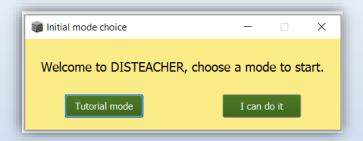


First Homework of Computer Music Languages and Systems A.A.2022/23

The Disteacher

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

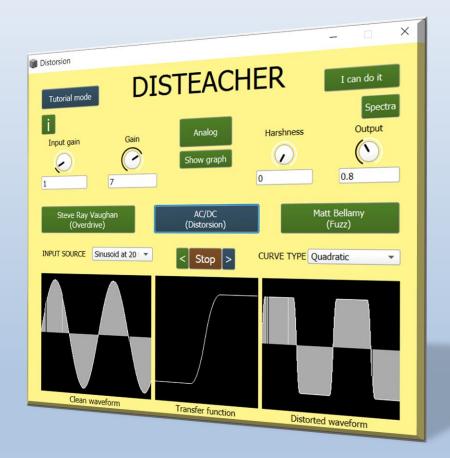
Teaching Distortion



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.



Input choice

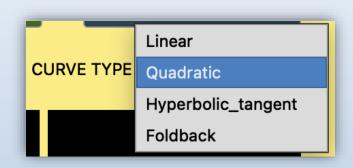
In the *Tutorial* mode user can choose the input from a list of recorded audio files.



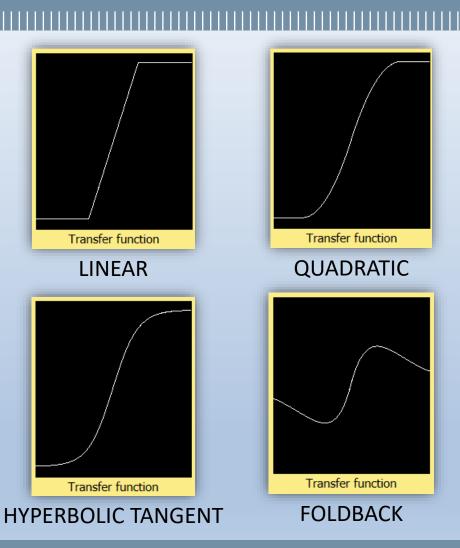


In the *I can do it* mode the distorsion will be directly applied to the sound coming in real-time from the hardware inputs.

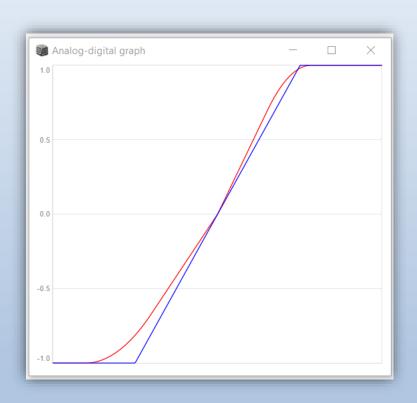
Transfer function choice

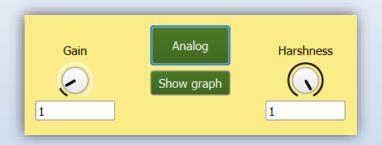


In both modalities user can choose the **transfer function** type. The graph is always shown in the bottom center of the GUI.



Analog Emulation

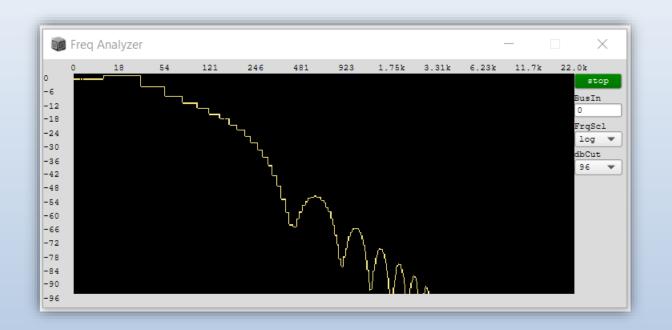




By clicking on the central **Analog** button you can add an analog feel to the distortion function.

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

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.

Thanks for the attention!