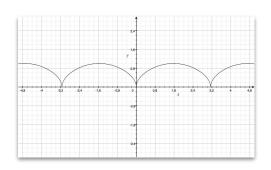
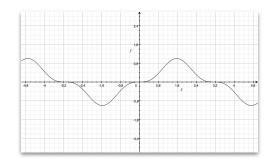


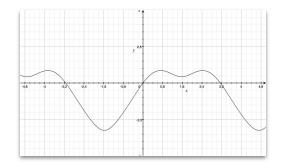
Stephan Eckes, Felix Weiß, Lynn Janzen

Was ist Distortion

Die Wellenform des Zeitsignals wird verändert \rightarrow zusätzliche Obertöne







$$y = \sqrt{abs(\sin(x))}$$

ASQRT

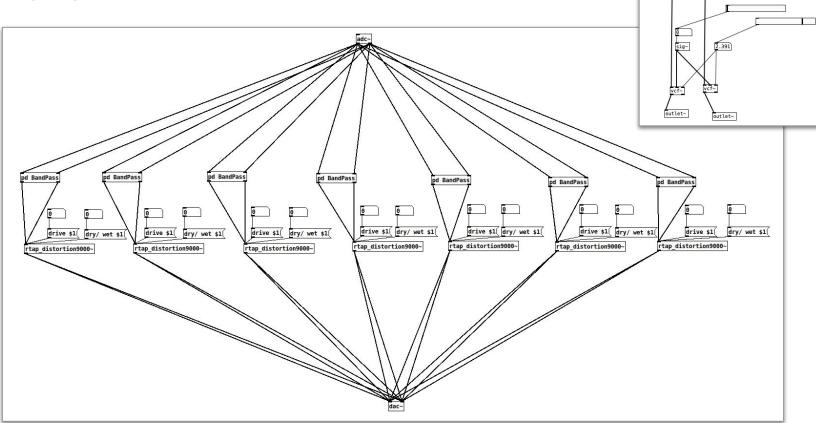
$$y=\sin(x)^3$$

CUBE

$$y=2.5 \cdot \arctan(0.9 \cdot \sin(x)) + 2.5\sqrt{1 - (0.9 \cdot \sin(x))^2} - 2.5$$

ATSR

Schema

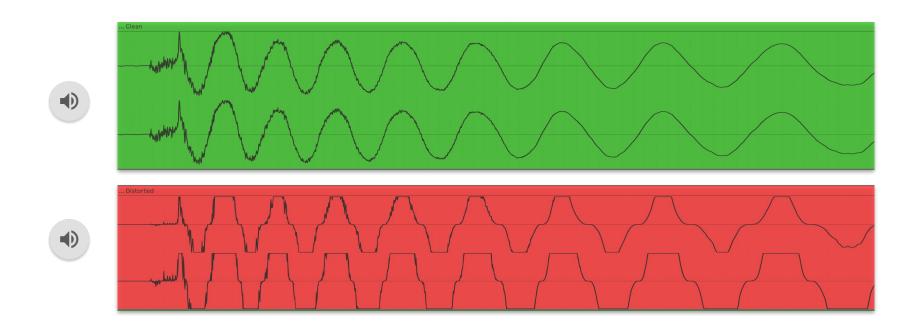


inlet~

inlet~

*~ 0.9

Soundbeispiel



Ausblick

Interface

- Dry-Wet-Regler / Drive
- selektierbare Waveforms

Algorithmus

 Nonlinearität: ab best. Amplitudenthreshold wird anderer Modus angewandt

Signalverarbeitung

• Grenzfrequenzen der Bandpassfilter miteinander verknüpfen