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Psychoacoustics 5

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(Psychoacoustics)

가

Psychoacoustics

Psychoacoustics is a field of study that examines the interaction between sound and the human cognitive and sensory systems. This discipline focuses on understanding how sounds are perceived and how the human brain and auditory system process sound. Psychoacoustics plays a crucial role in various applications, including music, sound, speech processing, [noise](#) control, auditory disorders, and acoustic technology. Through psychoacoustics, we [gain](#) insights into the perception and cognition of sound, contributing to the development of acoustic technology and sound design.

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가 (VR), , . 가

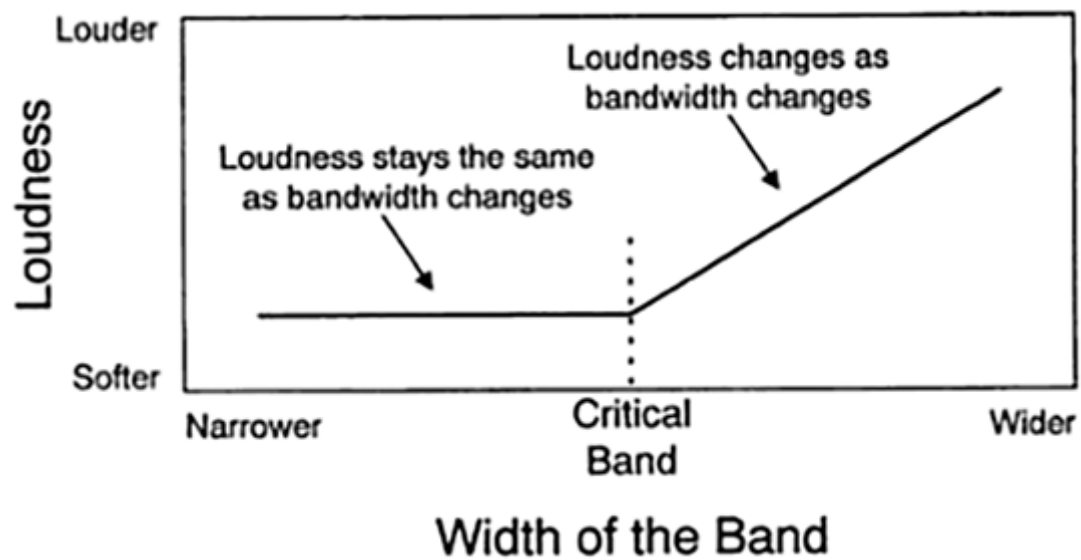
가 :
1. 가 :
2. 가 :
3. 가 :
가

→ ...

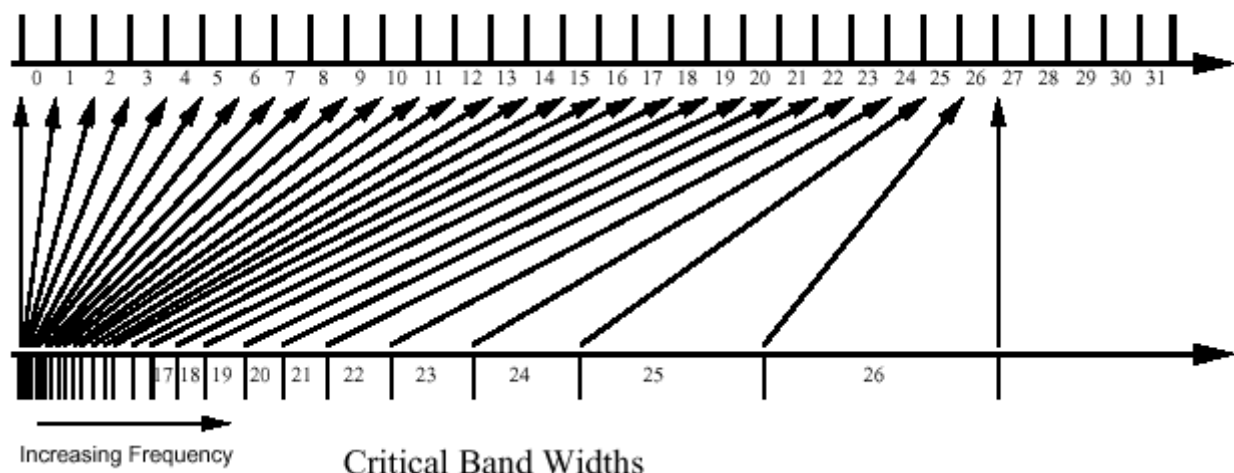
1933 Bell Labs Harvey Fletcher

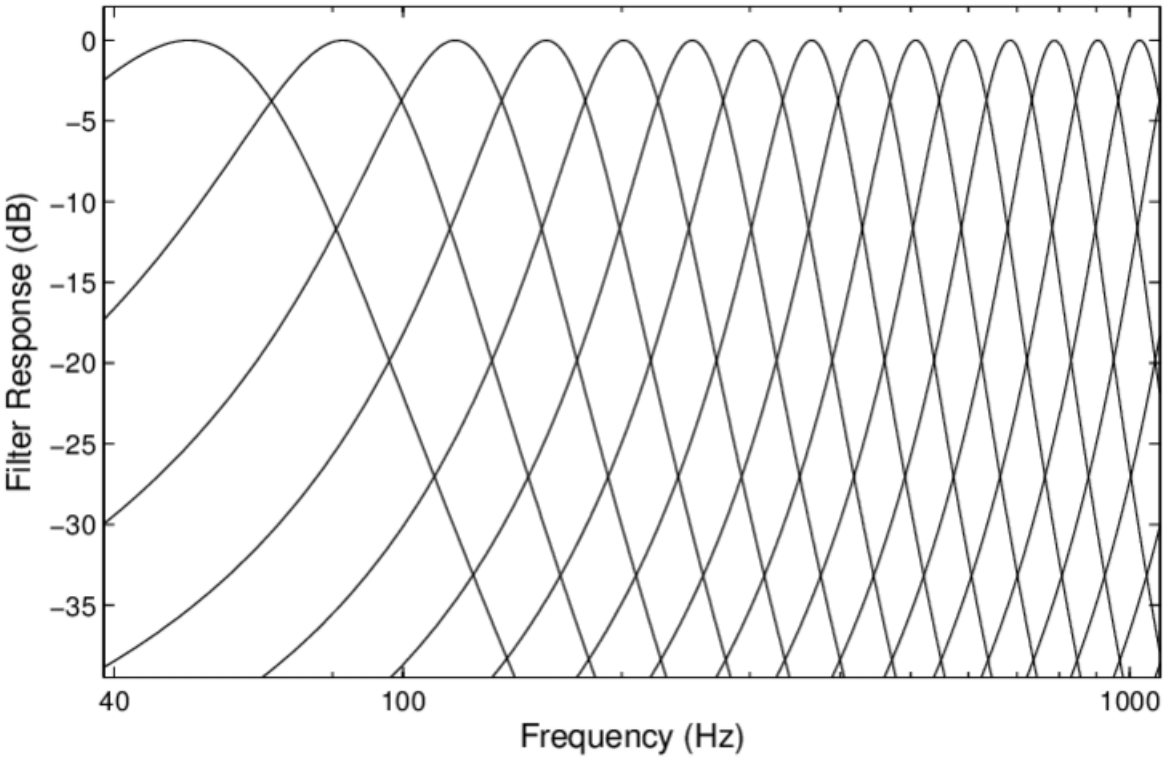
가 :
가

MP3



MPEG/Audio Filter Bank Bands





→ ...

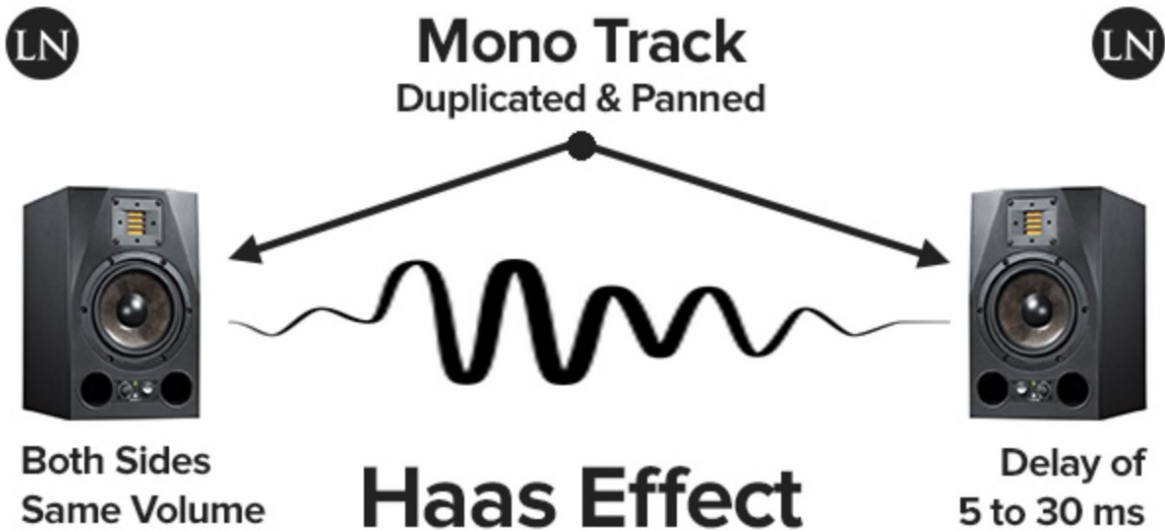
50ms

/ 50ms

Haas

- (Time Delay):
- : 가
- Haas :
- : 가
- : , 가
- , 가

Haas



→ ...

가 (dB SPL,) 가 .

DAW 가 ,

가 .

²⁾ 2 가 3dB 가 ³⁾ 10 가 10dB

가 , 100 가 20dB 가 .

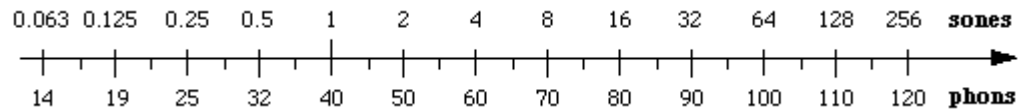
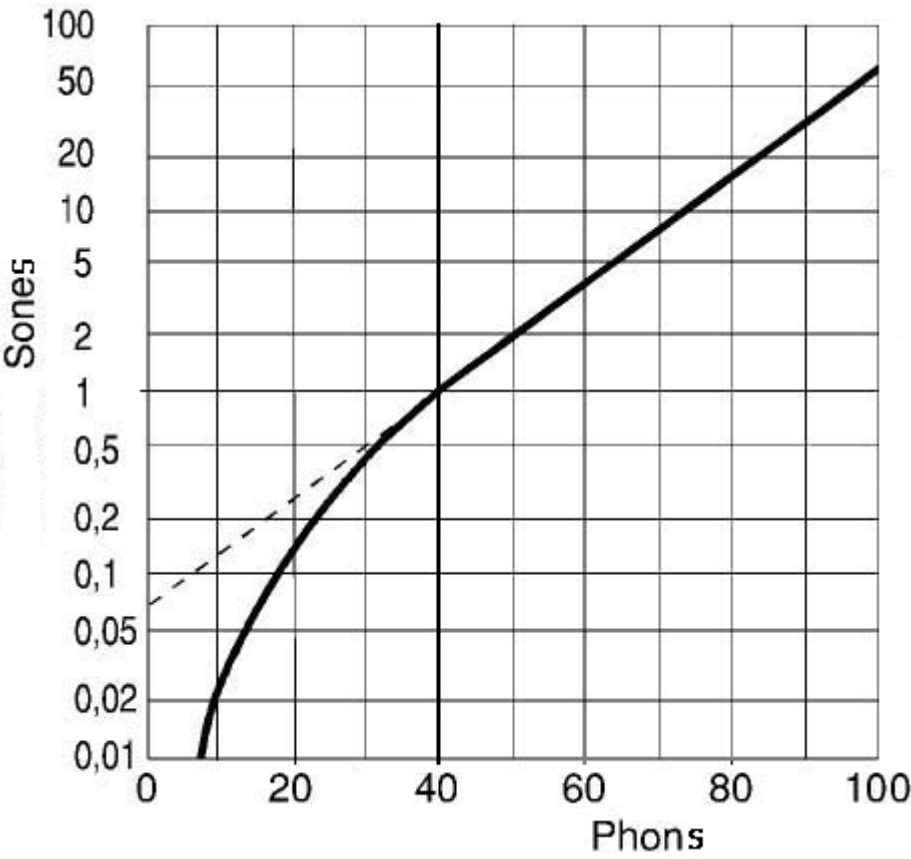
, 10dB 가 2 100dB 가 4

10 가 가 2 ⁴⁾⁵⁾ .

sone , 40phon

1 Sone 10dB 가 50phon= 2sone .

• sone= .



→ ...

가 , 가 가

MP3

가

가

가

:

1.

:

가

가

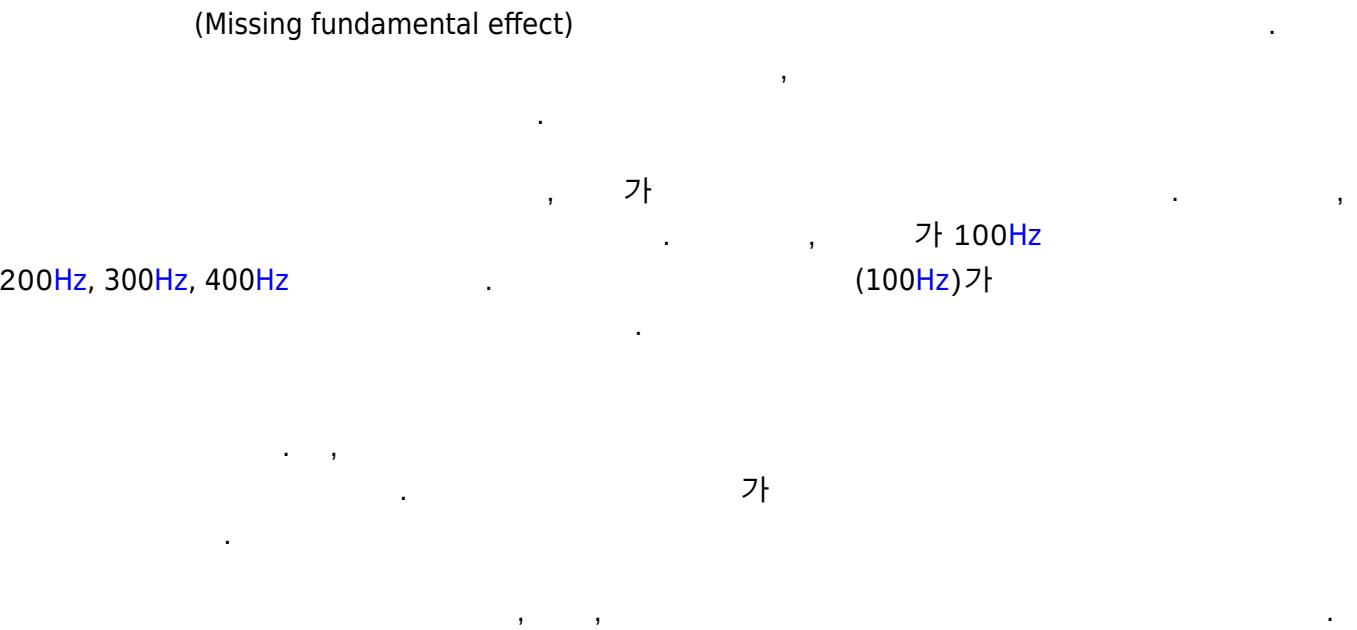
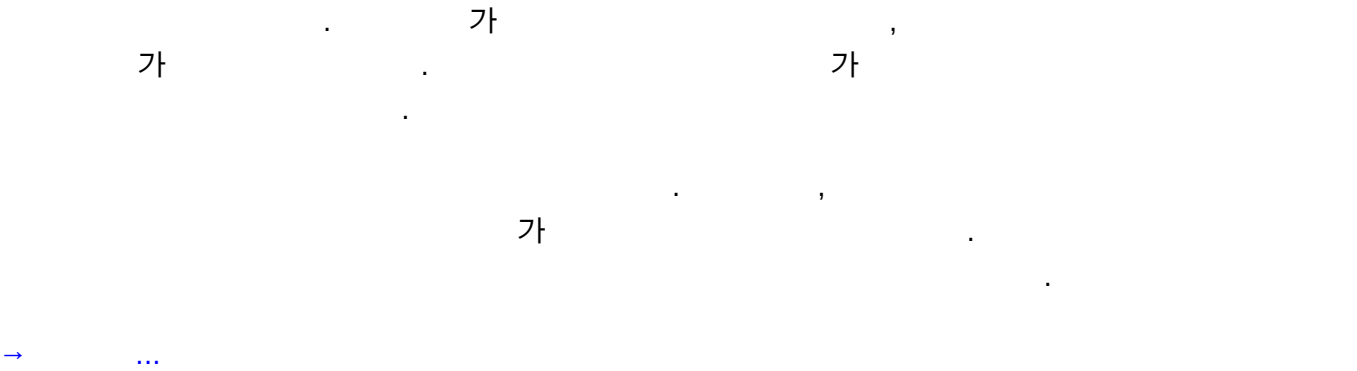
가

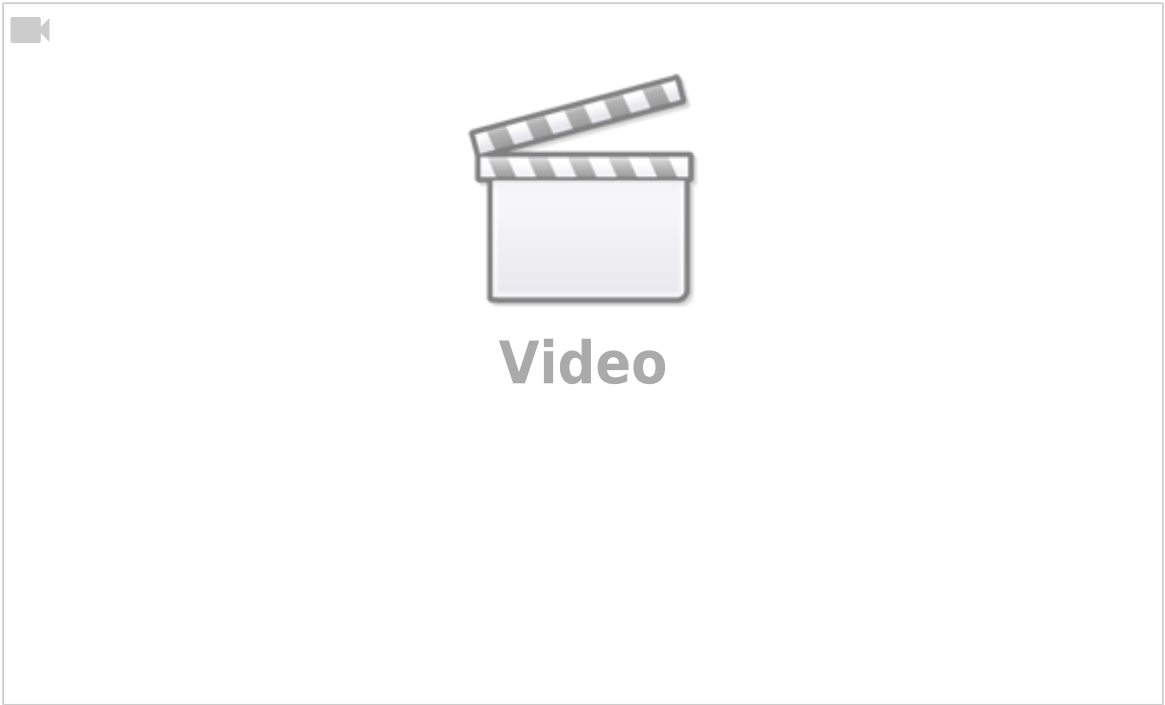
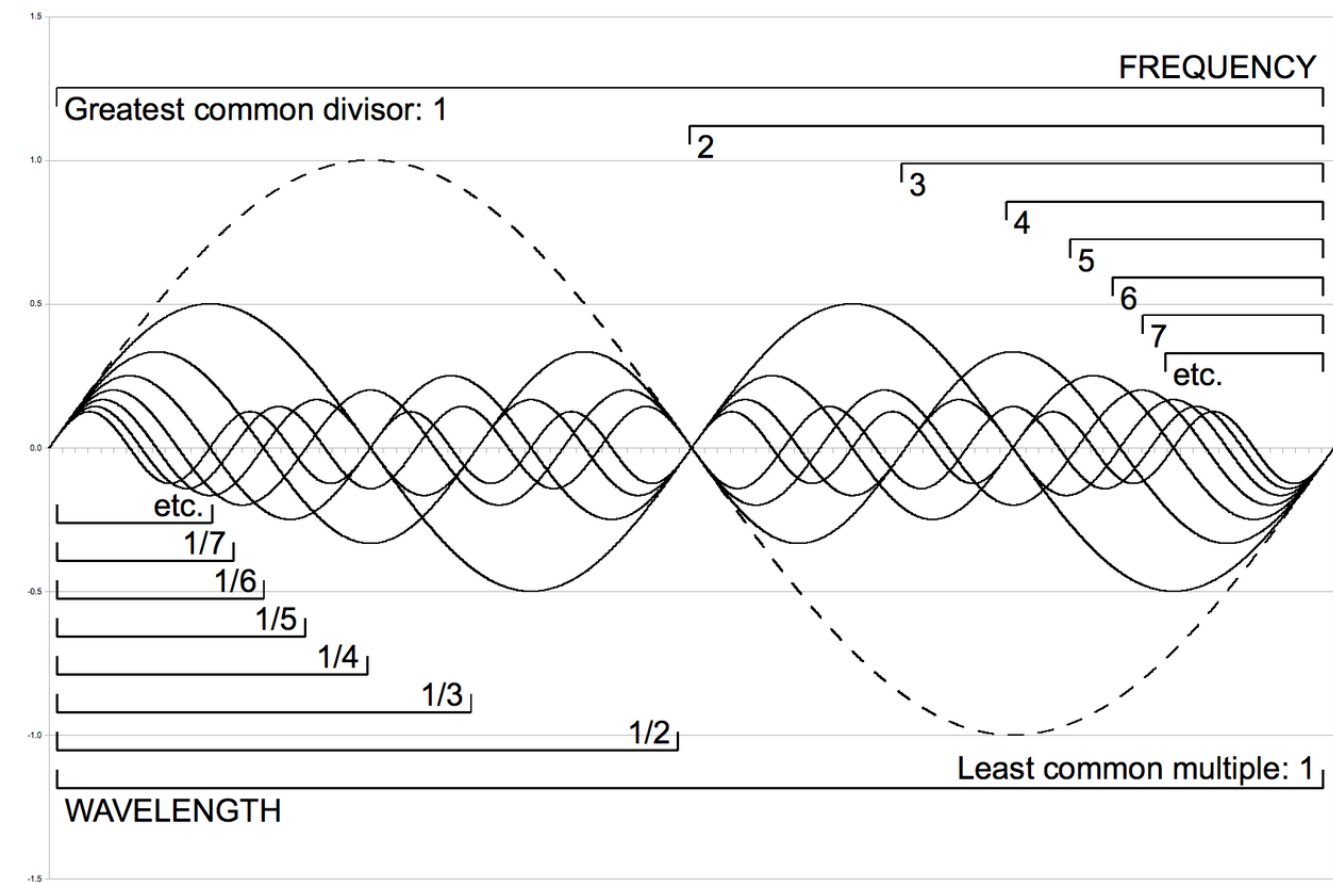
가

2.

:

가



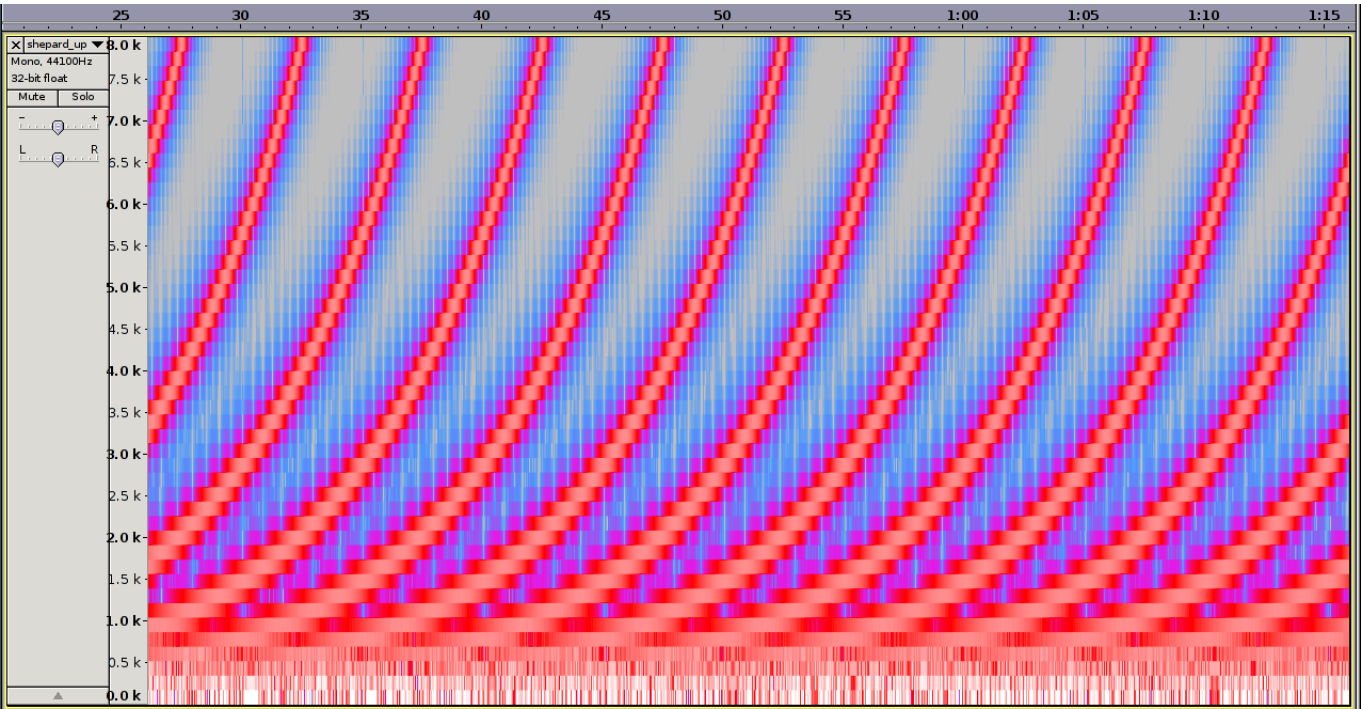


→ ...

가 가 ,

가 가 가 가 가

Shepard tone





Video

→ ...

Smoothing

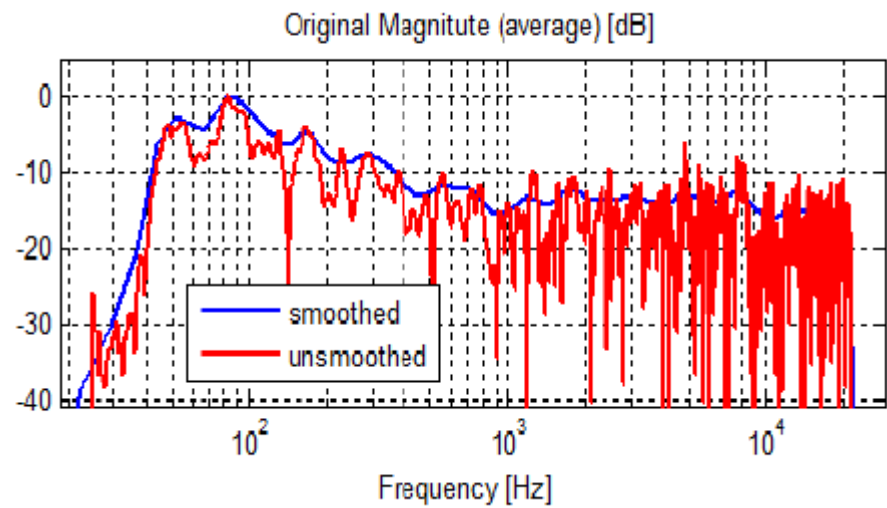
(Smooth)

smoothing()

Smoothing

smoothing

Smoothing



→ ...

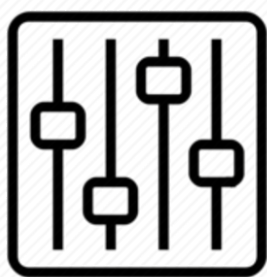
1) / 가

2) dB SPL

3) 2 가 6dB 가

4) DAW 10dB 10dB 가

5) 2



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