THE SOUND

Emission, propagation and perception

Sound emission

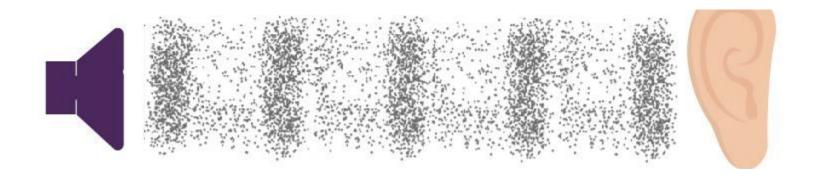




Sound emission



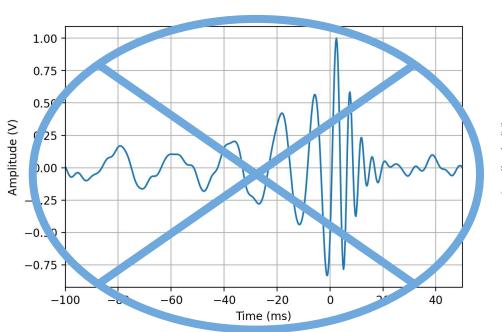
How does a sound spread?

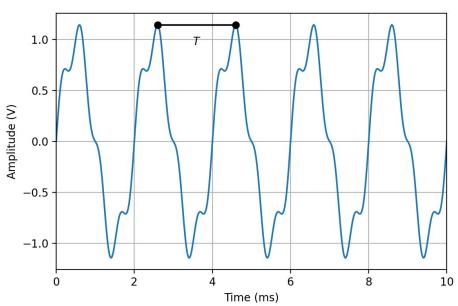


Periodic signal

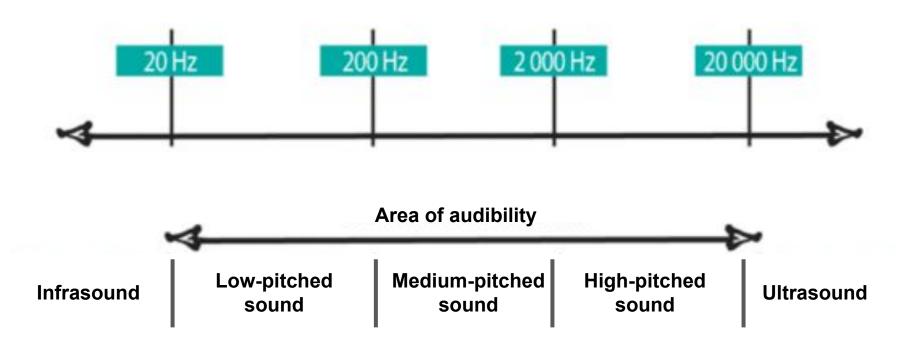
• A signal that repeat it self after a given length of time is **periodic**.

Frequency (Hz) $f = \frac{1}{T} \text{Period}$ (s)

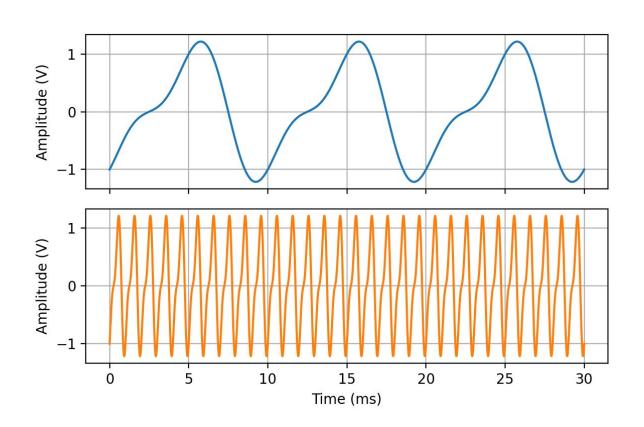




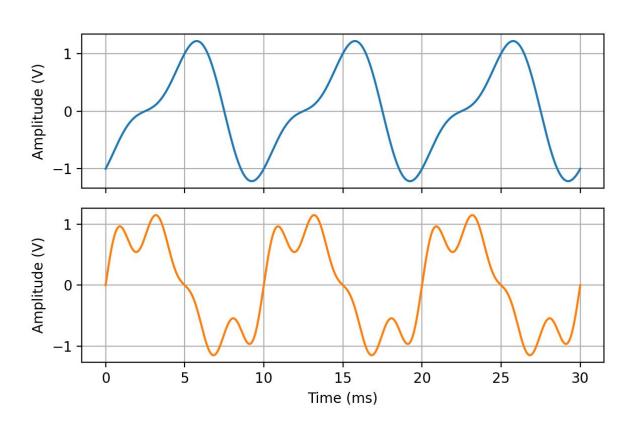
Sound frequency domain



Pitch and voice timbre



Pitch and voice timbre



Noise level and risks

