

Seeing

Ah

Hearing

Sound and its properties

- Pressured waves made by vibrating molecules(from compression and rarefaction of air molecules) in which sound energy emitted from a source propagates.
- Pure tones - rarely found in nature
- Complex waveforms can be deconstructed and reconstructed by Fourier Analysis FA (decomposition, inverse of FA).
- Power spectrum presents sound energy embedded at various frequencies
- Spectrogram = how frequencies contents vary across time
- animal vocalizations - highly periodic elements (tonal and harmonic)
- environmental sound - lack periodic structure



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Page 1 of 1.

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