

## Elements Of Acoustic Phonetics

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### Elements of Acoustic Phonetics

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Articulatory Phonetics 101: Vocal Tract *LITERARY ELEMENTS MODULE 2* ~~Formant Frequencies Mini-Lesson~~ **Transcribing speech with PRAAT** *Measuring vowel formants* *Phonetics and its Branches: Articulatory, Acoustic, Auditory | Linguistics PH0120 - Sound Waves* PHONETICS-4: Articulatory Phonetics \u0026 Voicing 01.2.1 Acoustic Phonetics Introduction What Do Nasal Sounds Look Like? Sonorant Acoustics *Phonetics and Phonemics* *Phonetics and Phonology* *Basics of Phonetics (Part I)*. **Elements Of Acoustic Phonetics**

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Acoustic phonetics is the study of the physical properties of speech, and aims to analyse sound wave signals that occur within speech through varying frequencies, amplitudes and durations. One way we can analyse the acoustic properties of speech sounds is through looking at a waveform. Pressure changes can be plotted on a waveform, which highlights the air particles being compressed and rarefied, creating sound waves that spread outwards.

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Acoustic phonetics is a subfield of phonetics, which deals with acoustic aspects of speech sounds. Acoustic phonetics investigates time domain features such as the mean squared amplitude of a waveform, its duration, its fundamental frequency, or frequency domain features such as the frequency spectrum, or even combined

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spectrotemporal features and the relationship of these properties to other branches of phonetics, and to abstract linguistic concepts such as phonemes, phrases, or utterances. The

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This is a great introduction to acoustic phonetics. It covers a broad spectrum of acoustic phonetic principles and sub-disciplines and gives enough information that the beginner can understand them. Some chapters take a bit more time, i.e. Fourier analysis and linear predictive coefficients, but on the whole it is quite readable.

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The basic acoustic phonetic parameters are specified as gap, voice bar, broad-band continuous spectrum, the frequencies of the vowel and consonant formants, the amplitudes of the vowel and consonant formants, and the frequencies of the consonant antiresonances.

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