

English phonetics summary- Week2

*Learn about how to use the Praat.

*Learn the waveform& Spectrogram.

*F1& F2 could distinguish vowels

1) Acoustics in Praat

-Hz: the number of occurrences of a repeating event per second.

-Repeating event= vibration of vocal folds

=> sign wave: could see the pitch& formant of the sound

2) Complex tone in spectrum

-In graph: X- time; Y-value

-Frequency(Hz): related to the level of the pitch.

-Amplitude: related to the formant of the sound.

PPT page.38 ①②③pic: simple tone; ④pic: complex tone (General shape)

3) Human voice source

-EGG: the source of voice directly recorded

-Audio: the actual voice recorded

-Compare boys& girls: girl's pitch becomes higher the voice of the boy is higher in every Hz.

-In spectrogram: X- time; the deep part: amplitude.

4) Source& Filter

-Filter: filtered by the vocal tract

-complex tone: sum of pure tone

-pure tone: F0, rate of vibration of the larynx

-waveform: time- value

-spectrum: frequency value