## 《 English Phonetics 》

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• Phonetics : Speech(사람이 하는 말에 한정)을 연구하는 학문
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- Articulatory phonetics(from mouth : producing), Acoustic phonetics(through air : transmitting), Auditory phonetics (to ear : hearing)

## Articulation

5 speech organs = constrictors = articulators

- (1) Phonation process: larynx (voicebox) vocal cords vibrates
- -voiced (유성음): can feel vibration, 모든 모음과 일부 유성 자음 ex) v, z, l, m, a, i, ...
- voiceless (무성음): cannot feel vibration ex) f, s, k, p, h, ...
- (2) Oro-nasal process: velum(soft palate) -
- Velum lowered = nasal sounds : [m], [n], [n], 숨 쉴 때
- (3) Articulatory process: lips, tongue tip, tongue body
- Control of constrictors(articulators)
- (1) Constriction location (CL): where exactly? 앞뒤
- lips → bilabial, labiodental
- tongue body  $\rightarrow$  palatal, velar
- tongue tips → dental, alveolar, palato-alveolar
- (2) Constriction degree (CD): how much exactly? 상하
- upper part > ... > lower part :

- > fricatives [f], [v], [s], [z],  $[\theta]$ ,  $[\delta]$ , [J], [3], [h]
- > approximants [w], [r], [l], [j]
- > vowels
- Phonemes: Individual sounds that form words

lips 
$$\rightarrow$$
 p, b, m, f, v, w

tongue tip 
$$\rightarrow \theta$$
,  $\eth$ , t, d, s, z,  $\int$ , 3, l, r

tongue body  $\rightarrow$  k, g,  $\eta$ , j, vowels

velum  $\rightarrow$  m, n, n

larynx → p, f,  $\theta$ , t, s,  $\int$ , k, h

## Acoustics

− intensity (dB): pitch와 독립적으로 0, pitch (Hz): 성대가 1초에 몇분 떨렸는지, formant (Hz): 모음을 구별하는 수치적인 지표