

Additional Details

1. Consonants

i. Ingressives

(1) implosive stops (voiced): [ɓ ɗ ɠ]

(2) clicks

ii. Egressives: ejectives

(1) “glottalized”

(2) [ʼ]

2. Vowels

i. creaky voice: subscript [~]

ii. voiceless: [◌̥]

iii. retroflex central vowels: [ɘ̣ ɜ̣]

3. Aspiration: voice onset time: [ʰ]

4. Resonants

a. voiceless: [◌̥]

b. syllabic: [◌̩]

5. Coarticulations: consonants + vowel features

a. Lips: rounding: [ʷ]

b. Tongue positions

i. Palatalization

(1) [high, front] = [i]

(2) [ʲ]

ii. Velarization (uvularized)

(1) [high, back] = [u] without rounding

(2) [~]

iii. Pharyngealization

(1) [low, back] = [a]

(2) [◌̤]

(3) “retroflex”

6. Suprasegmentals:

a. tone: pitch

b. length: duration

c. stress: strength (loudness)