

Hall  
Ling 503  
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### Feature Theory: A Reference Guide

The IPA symbols for the categories of segments mentioned below (yes, symbols can appear in more than one of these categories!):

Vowels – [i, ɪ, u, ʊ, e, ɛ, ɐ, ə, ɜ, ɝ, ɞ, ɟ, ɠ, ɨ, ɩ, ɰ, ɱ, ɲ, ɳ, ɴ]

Glides – [w, y, ɥ]

Liquids – [r, ɾ, ɽ, ʎ, ʟ, ʟ̥]

Nasals – [m, ɱ, ɲ, ɳ, ɴ]

Stops – [p, b, t, d, c, ɟ, k, g, q, ʔ]

Fricatives – [ɸ, β, f, v, θ, ð, s, z, ʃ, ʒ, ʂ, ʐ, ɕ, ɟ̥, x, ɣ, ɣ̥, ɸ, h̥, ʕ, h, ɦ]

Affricates – [pʰ, bʱ, tʰ, dʰ, t͡ʃ, d͡ʒ, t͡ɕ, d͡ʒ̥, k͡x, g͡ɣ, q͡ɤ, ʔ̥]

Ejectives – [pʼ, tʼ, kʼ]

Implosives – [ɓ, ɗ, ɠ]

Bilabials – [p, ɸ, b, β, m]

Labiodentals – [pʰ, bʱ, f, v, ɱ]

Dentals – [t, d, ɲ, θ, ð, tʰ, dʰ]

Alveolars – [t, d, s, z, n, tʰ, dʰ]

Alveopalatals – [t͡ʃ, d͡ʒ, ɕ, ɟ̥, ɲ]

Retroflexes – [ɖ, ɗ̠, ʂ, ʐ, ɻ]

Palatals – [c, ɟ, ɕ, ɟ̥, ɲ]

Velars – [k, g, x, ɣ, k͡x, g͡ɣ, ɳ]

Uvulars – [q, ʁ, ɣ̥, ʁ̥, q͡ɤ, ʔ̥, ɴ]

Pharyngeals – [ħ, ʕ]

Laryngeals – [ʔ, h, ɦ]

Aspirated obstruents – segments with [h] after them

Breathy sonorants – segments with [h] under them

Creaky sonorants – segments with [̰] under them

Syllabic segments – segments with [̩] under them

Stressed segments – segments with [ˈ] over them

Long segments – segments with [ː] after them

On the following pages, you will find a list of the features we will be using. For each feature, provide a definition and then list the feature specification for the segments listed below it (i.e., state whether the segments are “plus” or “minus” that feature).

**1. Syllabic –**

Vowels:

Glides:

Liquids:

Nasals:

All other consonants:

**2. Sonorant –**

Vowels:

Glides:

[r]:

All other liquids:

Nasals:

[ʔ]:

[h]:

All other consonants:

**3. Consonantal –**

Vowels:

Glides:

Liquids:

Nasals:

[ʔ]:

[h]:

All other consonants:

**4. High –**

[i, ɨ, ɯ, ɪ, ü, ʉ, u, ö, ʊ]:

All other vowels:

Palatals and palatalized consonants:

Velars and velarized consonants:

Uvulars:

Pharyngeals and pharyngealized consonants:

Laryngeals:

All other consonants:

**5. Low –**

[æ, a, ɑ, œ, ɒ]:

All other vowels:

Palatals and palatalized consonants:

Velars and velarized consonants:

Uvulars:

Pharyngeals and pharyngealized consonants:

Laryngeals:

All other consonants:

**6. Back –**

[ɨ, ɯ, ɤ, u, ʊ, ɤ, ʌ, ɐ, o, ɔ, a, ɑ, ɒ]:

All other vowels:

Palatals and palatalized consonants:

Velars and velarized consonants:

Uvulars:

Pharyngeals and pharyngealized consonants:

Laryngeals:

All other consonants:

**7. Round –**

[ü, ɥ, u, ʊ, ö, ø, o, ɔ, œ, ɒ]:

All other vowels:

[w, ɰ]:

[y]:

Labialized consonants:

All other consonants:

**8. Coronal –**

Labiodentals:

Dentals:

Alveolars:

Alveopalatals:

Retroflexes:

Palatals:

All other consonants:

**9. Anterior –**

Labials:

Labiodentals:

Dentals:

Alveolars:

Alveopalatals:

All other consonants:

**10. Continuant –**

Vowels:

Glides:

Nasals:

Liquids:

Stops:

Fricatives:

Affricates:

**11. Delayed Release –**

Stops:

Fricatives:

Affricates:

All other segments:

**12. Nasal –**

Vowels:

Glides:

Nasals:

Liquids:

Stops:

Fricatives:

All other segments:

**13. Lateral –**

[ɫ, ɮ, l, ʎ]:

All other liquids:

All other segments:

#### 14. Spread glottis –

Aspirated obstruents:

Breathy sonorants:

Creaky sonorants:

Implosives:

Ejectives:

All other segments:

#### 15. Constricted glottis –

Aspirated obstruents:

Breathy sonorants:

Creaky sonorants:

Implosives:

Ejectives:

All other segments:

#### 16. Voice –

Vowels:

Glides:

[ɬ]:

All other liquids:

Nasals:

Ejectives:

Implosives:

[p, t̚, t̚, c, k, q, ʔ, φ, f, θ, s, š, ʂ, ç, x, χ, ħ, h, p<sup>f</sup>, t<sup>h</sup>, t<sup>s</sup>, č, k<sup>x</sup>, q<sup>x</sup>]:

[b, d̚, d̚, d̚, ɟ, g, G, β, v, ð, z, ž, ʒ, ɰ, γ, ʁ, ɦ, b<sup>v</sup>, d<sup>ð</sup>, d<sup>ʒ</sup>, ɟ<sup>v</sup>, G<sup>ʁ</sup>]:

#### 17. Stress –

Stressed segments:

All other segments:

#### 18. Long –

Long segments:

All other segments:

#### 19. Strident –

[f, v, s, z]:

[φ, β, θ, ð]:

All other segments:

**20. Distributed –**

[θ, ð, t̪, d̪, ɲ, ʃ, ʒ, ʧ, ʝ]:

[t, d, n, s, z, ʂ, ʐ, r, ɾ, ɻ, ɬ, ɮ, l]:

All other segments:

**21. Tense –**

[i, ī, u, ü, ū, u, e, ɛ, ə, ö, ø, o]:

[ɪ, ʊ, ʊ, ε, ʌ, ɔ̄, ɔ]:

[æ, a, ɑ, œ, ɒ]:

All other segments: