

LING 20 Homework 1

Charles Zhang
Collaborated with: Victoria Delk

January 8, 2022

Problem 1

Please write your first name transcribed into IPA.

[tʃɑːlz]

Problem 2

For each of the following consonants, provide a description of its articulatory properties. This description must include all of the following that you can identify from the IPA chart:

- the manner of articulation
- the place of articulation,
- nasality, and
- voicing.

a) [h]

oral, pharyngeal, voiceless, fricative

b) [j]

oral, palatal, voiced, approximant

c) [ʋ]

oral, labiodental, voiced, approximant

d) [ʀ]

oral, uvular, voiced, trill

e) [v]

oral, labiodental, voiced, fricative

f) [ʎ]

oral, palatal, voiced, lateral, approximant

g) [x]

oral, velar, voiceless, fricative

h) [ʃ]

oral, postalveolar, voiceless, fricative

Problem 3

For each of the following vowels, provide a description of its articulatory properties. This description must include all of the following that you can identify from the IPA chart:

- height,
- backness, and
- lip rounding.

a) [ʊ]

high, back, rounded

b) [ɤ]

middle, back, unrounded

c) [ʏ]

high, front, rounded

d) [i]

high, front, unrounded

e) [ɑ]

low, back, unrounded

Problem 4

For each of the following sound descriptions, please give the IPA symbol that represents it. Not all these descriptions pick out sounds that we have seen in class. Use the IPA chart to find the symbol for these descriptions.

- a) voiceless alveolar lateral fricative [ɬ]
- b) voiceless dental fricative [θ]
- c) high central rounded vowel [ɯ]
- d) voiced labiodental nasal [ɱ]
- e) voiced alveolar approximant [ɹ]
- f) voiced postalveolar fricative [ʒ]
- g) voiceless velar stop [k]
- h) mid front unrounded vowel [e] (tense) or [ɛ] (lax)
- i) low front unrounded vowel [a] (tense) or [æ] (lax)
- j) voiceless uvular stop [q]
- k) voiced velar approximant [ɰ]

Problem 5

Please transcribe the following words as they are pronounced in the audio file “Assignment-1-Audio.wav”, which you can find on the course website. Be careful not to be misled by the orthography. Transcribe the words as they are pronounced.

a) **Calgary** [kælgə.ɪ]

b) **kelp** [kɛlp]

c) **cohort** [koʊhɔ:t]

d) **sprint** [sp.rɪnt]

e) **butter** [bʌtə.ɪ]

f) **trim** [t.rɪm]

g) **curdle** [kɛ.ɪdl]

h) **catamaran** [kætəmə.ɪæn]

i) **cocoon** [kəkun]

g) **Abe** [eɪb]

h) **thought** [θɔt]