

Phonological Analysis Program

Wednesday, March 2, 2016 9:30 PM

Insert data

1

[bidʒim]
[tə:pan]
[hiɡod]
[tʃi:kiɡid]
[ɡatwɪd]

ðɪs ɪz ə 'tʰɛsd əv ðɪj ɪ.'mædʒn.sɪ

Compare distributions of:

2

Segments that all share:

+/- syllabic
+/- consonantal
+/- sonorant
+/- voice
...

(Choose which features you want to select for)

Or, only the following natural class:

[a, o, ɔ, ɒ, t, e, w]

vs.

Segments that all share:

+/- syllabic
+/- consonantal
+/- sonorant
+/- voice
...

(Choose which features you want to select for)

Or, only the following natural class:

[a, o, ɔ, ɒ, t, e, w]

3

GO!

Steps for the user:

(User sees Page 1)

1. User inserts their speech data in the form of IPA, either words or full paragraphs
2. User selects the characteristics of their two classes. For each class of sounds:
 - a. User defines class by checking the features they want to include
 - i. Unchecked features are not specified to the program
 - b. Or, user writes which sound(s) to select
3. User presses Go!
 - 3a (User sees Page 2, specifically the contexts in which the classes they chose appear in the data)
4. User decides which contexts they want to specifically search for:
 - a. Option 1: The overlapping contexts in which both classes of sounds appear
 - b. Option 2: The non-overlapping contexts in which only one class appears, separated by which class is represented
5. User tells the program that they want to see all the features that a particular selection shares in common. A user can choose:
 - a. All features that the sounds before the first class share
 - b. All features that the sounds after the first class share
 - c. All features that the sounds before the second class share
 - d. All features that the sounds after the second class share

Later features:

- Edit the dictionary of features and segments

Contexts of first class:

3a

t_k
r_m
#_w

Contexts of second class:

dʒ_#
b_n
d_d
w_d

Calculate:

4

Same contexts

Different contexts

...

...

Same contexts:

#_a
#_e
i_u

Show all features in common between:

5

Segments before first class
Segments after first class
Segments before second class
Segments after second class

All share:

[+consonantal]
[+voice]