2011 Solutions

(N) Stopping and Flapping in Warlpiri (1/4)

The 'father' words show us that the second consonant sound is *rd* in all dialects in the basic word and when followed by *ku*. Dialects A and B "change" this sound to *rt* when followed by *-rlangu*, while Dialect C maintains the *rd* sound.

There are several more examples of this same pattern in the dataset:

- in the 'aunt' words: rt in A & B preceding rla, but rd in C.
- with the final consonant in 'tooth' words: rt in A & B preceding rla or rli.
- in the 'smoke' words: rt in A & B preceding rlu

What is common to rlangu, rla, rli and rlu is the initial consonant, rl.

The same pattern is also found with the 'hold' words: rt in A & B preceding rni or rnu, the common factor being rn.

Now we can see that if a word has *rd* as its last consonant, then in A & B it is pronounced as *rt* if a suffix starting with *rl* or *rn* is added. Given that these sounds have something in common, i.e., they are retroflex sounds, we might expect this behavior before all retroflex sounds. This is a hypothesis we would want to test.

Another observation is that all dialects have words pronounced with both rd and rt sounds. Our problem is to explain the distribution of these sounds in each dialect.

When we look at the distribution of these sounds in basic words, we find that dialects B & C behave the same way and both contrast with dialect A. We notice that dialect A never has *rd* word-initially, only *rt*. B & C have both *rd* and *rt* word initially.

What is common to all three dialects is that inside basic words, rd is allowed if the following consonant is not retroflex (and it is not the word-initial consonant in A), but that only rt is found if the following consonant is retroflex. Contrasting pairs of words such as 'heel' (rtari in all dialects) and 'raw' (rtarri, rdarri, rdarri) or 'accompany' versus 'summit' illustrate this difference. (Notice that rtari is consistently pronounced when in the compound marnangkartari).

We notice that in 'tooth', the first word-internal consonant is rt in all dialects, as it is followed by the retroflex rd sound. The variation in the pronunciation of this second word-internal consonant (whether rd or rt) depends on the initial consonant of the suffix in dialects A & B, but not in C, where it is consistently rd. Kurturdurru ('heart') provides another example: first word-internal consonant is rt in all dialects, since it is followed by retroflex sound rd. Note that this sound is followed by the non retroflex rr sound.

What is missing from the list of words is any example of a contrast between *rd* and *rt* in exactly the same environment within any of the dialects; linguists say that the contrast between *rd* and *rt* never distinguishes a 'minimal pair' in the way that say 'b' and 'p' do in English *bit* versus *pit*.



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(N) Stopping and Flapping in Warlpiri (2/4)

How has this variation come about within Warlpiri dialects?

NI.

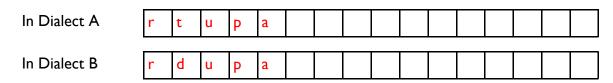
It would seem that Dialect A is the most conservative dialect, i.e., closest to the original "mother" or "ancestral" Warlpiri, in which the *rt* sound was pronounced as *rd between vowels* only if the next consonant was not also a retroflex sound. This same rule applies in Dialect B, except that it is less restrictive, as it is pronounced as *rd* except if followed by another retroflex consonant (not restricted to *between vowels*). Notice that it's easier to explain the distribution in B by assuming that *rd* is the basic sound and that it is pronounced as *rt* when followed by another retroflex sound.

Dialect C is the most radical of the dialects: like B, *rd* is the basic sound. Inside basic words, this dialect has an *rt* sound where the following consonant is retroflex, but it allows *rd* elsewhere. The pronunciation of the *rd* sound when it is the last consonant in a word is not affected by the initial consonant of any suffix. We can see that the "rule" for turning *rd* into *rt* in dialect B when suffixes are added to a word does not operate in Dialect C, where *rd* and *rt* are lexically determined, or are stipulated as part of the dictionary entry for basic words. In the other dialects, A & B, these sounds represent two ways of pronouncing a single consonant; whether it is pronounced as *rt* or *rd* depends on the "environment" of the consonant within the word. In A, the *rd* variant is the most restricted (if not word-initial and not followed by retroflex consonant), whereas in B, it is the *rt* variant which is the most restricted (not if followed by retroflex consonant).

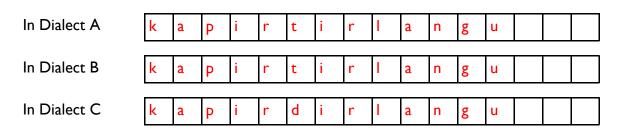


(N) Stopping and Flapping in Warlpiri (3/4)





N4.



N5. The sound rd never occurs in Dialect A at the start/beginning of a word.

N6. ☑ TRUE

N7.

- a. rd is permitted in A if... not initial AND/OR not followed by retroflex sound/r, rd, rl, rn, rt (may group sounds as retroflex or list relevant sounds in answer).
- b. rd is permitted in B if... not followed by retroflex sound/r, rd, rl, rn, rt (may group sounds as retroflex or list relevant sounds in answer).
- c. rd is permitted in C if... not followed by retroflex sound/r, rd, rl, rn, rt within basic/lexical/dictionary/simple word (may group sounds as retroflex or list relevant sounds in answer).

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(N) Stopping and Flapping in Warlpiri (4/4)

Grading:

N1: 3 points (1 point each)

N2: 1 point (0.5 points each)

N3: 1 point (0.5 points each)

N4: 1.5 points (0.5 points each)

N5: 1.5 points (must fill in all of the blanks correctly to receive credit)

N6: 0.5 points

N7: 1.5 points (0.5 points each)

Total: 10 points