Consonant copying and tone harmony in Vietnamese reduplicatives

Vu The Thach
Institute of Linguistics of Vietnam/Cornell University

0. Introduction

Recuplicatives are very commonly used in Vietnamese, not only in colloquial conversation but also, very frequently, in poetry and lyrical prose. According to our reckoning, there are around 4000 lexical items in which changes of meaning correspond to modifications in the phonological shape of words. These modifications follow rules which consist in copying and replacing certain pieces of the phonological word, thereby creating consonant, rime or vowel alliterations as well as patterns of tone harmony.

There are two types of reduplicatives: primary and secondary. Secondary reduplicatives are derived by rules from primary ones, as in the following examples:

<table>
<thead>
<tr>
<th>Base</th>
<th>Primary recuplicatives</th>
<th>Secondary recuplicatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>bệnh</td>
<td>bắp bệnh</td>
<td>bắp bắp bắp bệnh</td>
</tr>
<tr>
<td>&quot;to surge up&quot;</td>
<td>&quot;bobbing&quot;</td>
<td>&quot;bobbing incessantly&quot;</td>
</tr>
<tr>
<td>khó nh</td>
<td>kháp khó nh</td>
<td>kháp khá kháp khó nh</td>
</tr>
<tr>
<td>&quot;protruding&quot;</td>
<td>&quot;unever, bumpy&quot;</td>
<td>&quot;very bumpy&quot;</td>
</tr>
<tr>
<td>mơ</td>
<td>lọ mơ</td>
<td>to lọ mơ &quot;not to understand at all&quot;</td>
</tr>
<tr>
<td>&quot;to dream&quot;</td>
<td>&quot;dreamy, vague&quot;</td>
<td></td>
</tr>
</tbody>
</table>

In this paper, we are concerned with one category of primary Vietnamese reduplicatives where one phonological word is a free morpheme and the other
is a bound morpheme. In this category, the bound morpheme is entirely made up of phonological pieces, which are produced by rules. We will describe five different ways in which this can be done.

These primary reduplicatives all involve copying certain segments of the root (free morpheme) and adding certain segments in a systematic fashion. However, the tone of the root is not copied; instead, the tone of the bound morpheme must agree in a certain way with the tone of the root. This pattern of the agreement relies upon a classification of Vietnamese tones into two series: 1 and 2. Roots may have all 6 tones available in Vietnamese, but the tone of the bound morpheme is not independent: the tone of the root and the tone of the bound morpheme must belong the same class. In other words, this is a case of tone harmony.

1. VN tone series

All finals:
Series 1: "ngang" (no mark); "hội" ( ĩ́ ); "sắc" ( ĩ́ )
2: "huyền" ( ĩ́ ); "nga" ( ĩ́ ); "nǎng" ( γ́ )

Stop finals:
Series 1: "sắc" ( ĩ́ )
2: "nǎng" ( γ́ )

2. Patterns

a) Meaning: "alternating"
Shape: Preposing a bound morpheme constructed by:
- Copying the initial consonant of the root
- Replacing the rime by the phonological sequence -āp
- Using one of only two possible tones: "sắc" and "nǎng"
- Harmonizing the tone:
  "sắc" if root has a tone of series 1
  "nǎng" if root has series a tone of 2
Exx. kênh "warped"   capitalized "uneven"
dền "overflow"   dập dennen "bobbing"
lưỡng "half-way, half-done" lấp lừng "half-submerged"
chừng "stop short" chập chừng "toddling"

b) Meaning: "perfect and pleasant"
Shape: postposing a bound morpheme consisting of:
- copy of initial consonant
- rime replacement: -änn
- bound tones: "sắc" or "năng"
- tone harmony: "sắc" with series 1;
  "năng" with series 2
Exx. nhỏ "small"   nhở nhân "tiny, nice"
xinh "pretty"   xinh xắn "nice-looking"
tròn "round" tròn trán "plump, round"
nhã "courteous"   nhã nhân "very courteous"

c) Meaning: "very"
Shape: postposing a bound morpheme consisting of:
- copy of initial consonant
- rime replacement: -äng
- bound tones: "ngang" or "huyện"
- tone harmony: "ngang" with series 1;
  "huyện" with series 2
Exx. nhẹ "light"   nhẹ nhàng "very light"
dễ "easy"   dễ dàng "very easy"
hợ "half-opened"   hỗ hang "opened; discovered"
xơn "sting; smart" xơn xång "agitated; feeling
   perplexed"

d) Meaning: "very" (with positive quality)
Shape: postposing a bound morpheme consisting of:
- copy of initial consonant
- rime replacement: -e
- bound tones: "hoi" or "nga"
- tone harmony: "hoi" with series 1;
  "ngã" with series 2
Exx.  gon "neat, tidy"  gon ghé "pleasingly tidy"
mỗi "new"  mỗi mê "very new"
vui "pleased, glad"  vui vẻ "very glad, joyful"
ranh "know well"  ranh rể "know very well"

E) Meaning: "a little"
Shape: preposing a bound morpheme consisting of:
- copy of the whole syllable (except the tone)
- change the final stop of the bound morpheme
to the corresponding nasal
- bound tones: "ngang" or "huyền"
- tone harmony: "ngang" with series 1;
  "huyền" with series 2
Exx.
p > m  đẹp "beautiful; handsome"
  đẽm đẹp "a little bit beautiful"
t > n  khít "fitting well"
  khín khít "fit rather well"
k > ng  khác "different"
  khang khác "rather different"
ch > nh  sạch "clean"
  sânh sạch "rather clean"
m > m  chậm "slow"
  chậm chậm "rather slow"
n > n  ngắn "short"
  ngắn ngắn "rather short"
ng > ng  nặng "heavy"
  nặng nặng "rather heavy"
nh > nh  nhìn "a little bigger"
  nhìn nhìn "a shade bigger"

rỉ "coze out"  rỉ rỉ "exude"
dễ "easy"  dễ dễ "rather easy"
khể "soft, light"  khe phối "rather softly, light"
củ "old"  củ củ "rather old"
3. Conclusion

Each pattern gives a choice of only two possible tones for the bound morpheme, one belonging to series 1, the other to series 2. The choice between the two is determined by the series of the tone of the root; as a result, both tones in a reduplicative belong to the same series 1 or 2. This is a clear case of tone harmony, exactly parallel to cases of vowel harmony found in in some other languages and in Vietnamese also.

Each pattern has rules for copying phonological pieces of the root. For this purpose, the main division of the root is between a rime and an initial (not including the semivowel -w-). There are also changes in the final consonants, but there are related to restrictions between the tones and the final consonants.

In the 5 patterns described above, we find recurrent associations between meaning and phonological shapes. Therefore we can say that these are cases of morphology. The only difference between the morphology of Vietnamese reduplicatives and traditional morphology is that the affixes are not attached to the root in forming a single word; instead they constitute a full syllable, which according to Vietnamese grammar must be a separate phonological word. But, as in true morphology, the affix and the root cannot be separated by anything. Reduplicatives are single lexical words made of two phonological words.
References


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