

Vowel alternation in disyllabic reduplicatives: an areal dimension

Many English sound-symbolic reduplicatives are known to exhibit the vowel alternation patterns of /ɪ/-/æ/ and /ɪ/-/ɒ/ (e.g. in *zig-zag* and *ding-dong*) where the first vowel is higher than the second vowel (shown below with ↓).

A number of other languages also have their preferred patterns of vowel alternation for disyllabic sound-symbolic reduplicatives (hereafter DSRs). For example, German, Chinese, Korean, and Vietnamese DSRs, like English DSRs, show a clear preference towards vowel alternation patterns of type ↓.

On the other hand, vowel alternation patterns of type ↑ ‘low vowel - high vowel’ where the vowel in the reduplicant is higher than that in the ‘base’ (e.g. *tak tuk*) is prevalent in Turkic DSRs.

There are also languages in which no clear preferred vowel alternation patterns (↕) are identifiable in their DSRs. Mongolian, which has both *far f3r* ‘low-high’ and *f3r far* ‘high-low’ exemplifies this group of languages.

Tatar (Turkic)

çac-çoc, çaj-çoj, dañ-doñ, ğolt-ğilt, kāk-kūk, laç-loç, lap-lop, şalt-şolt, şap-şop, şaq-şoq, şar-şor, tuq-tuq, yalt-yolt

Tatar in China (Turkic)

fart-fyrt, jalt-jält, jalt-jult, kərff-kərff, tars-turs

Turkish (Turkic)

çak çuk, fan fin, paf puf, şap şup, şarp şurp, tak tuk, etc.

Uzbek (Turkic)

qars-qurs, tars-turs, yalt-yult

Kazakh (Turkic)

bazh-buzh, bal-bul, zharq-zhurq, zhalt-zhult, zhalp-zhulp, zhang-zhung, qalt-qult, qalsh-qulsh, qabil-qubil, sart-surt, tars-turs, taq-tuq, shaq-shuq, shart-shurt, shang-shung

Kyrgyz (Turkic)

tars-turs, cult-cult, cult-cult, kult-kult

Modern Uyghur (Turkic)

par-pur, şar-şur, tang-tung, taq-tuq, vaj-vuj, val-vul

Qarakhanid (11th Century Turkic)

çak çuk, çar çur, kar kur, tañ tuñ, şal şul, çalk çulk, çart çurt, kart kurt, karç kurç, çäğ çüğ, kāv kūv, käg küg, kāk kūk, yāb yüb, yāk yük, sart sirt

Manchu (Tungusic)

(Colloquial) *far f3r, f3r far, fip tšap*, (Literary) *cib-cab, cu-ca, kab-kib, kas-kis, or-ir, pak-pik, tab-tib, tak-tik, tob-tab, bar bir, biñ b'añ, gar gir, gur gar, ler lar, m'ar mir, muñ mañ, o a, puk pak, neñ nqi, pes pis, şalt-şolt, şap-şop, şaq-şoq, şar-tak tik, tañ tiñ, teñ tañ, tuñ tañ, tur tar, fak fik, f'ak fik, fu fa, xuñ xoñ, xej xqi, čar čir, ču ča, čuk čak, čur čar, šor šar, šuša, žik žak, žir žar*

Mongolian (Mongolic)

puy-pay, pül-pol, püypay, şar-şir, şar-şor, şar-şur, şir-şor, tür-tar, tūs-tas, sar-ser, pay-puy, tal-tul, dez-duz, jig-jug, den-dun

Persian (Iranian)

dānb dānb, hāy huy, rim rām, šap šāp, taq tuq, tik tāk

Tuvan (Turkic)

mañ-mañ, moğ-muğ, tuk-tak, bim-bom, byrm-barbm

Nanai

(in China) *soa-sao, teir-tear*, (in Russia) *кэ-кы*

Korean (Isolated)

kkung-kkwang, ppi-ppay, ssuk-ssak, thuk-thak, thung-thang, ttokttak, tuk-ttak, ttwukttak, ttwukttek

Chinese (Sino-Tibetan)

bi-bo, di-da, dang-dang, ping-pang, pi-pa, yi-ya, (Cantonese) *ding¹-dong³*

Vietnamese (Mon-Khmer)

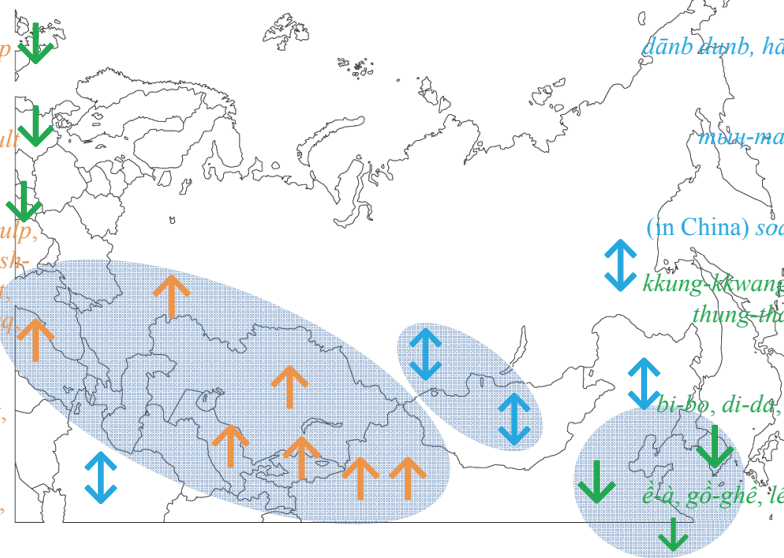
è-à, gò-ghe, lè-la, rù-ró, tòi-tá, trúc-trác, trư-trưc, etc.

German (Germanic)

bim-bam, gick gack, klippklapp, piff paff, etc.

Hungarian (Finno-Ugric)

tik-tak, bim-bam, kip-kop, csit-esatt, csip-csup



1. Korean, Chinese, and Vietnamese belong to different language groups but are geographically close to one another. Their DSRs are mostly of type ↓.
2. Vowel alternation type ↑ is utilized in all but one of the Turkic languages investigated here.
3. The only Turkic language under investigation here that utilizes type ↕ alternation is Tuvan, which has been under a strong influence of (Khalkha) Mongolian, a type ↓ language.

These observations appear to point to the areality (and perhaps also to the genetic nature) of vowel alternation patterns in disyllabic sound-symbolic reduplicatives.