

"Brightening" and the place of Xixia (Tangut) in the Qiangic branch of Tibeto-Burman*

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1.0 Introduction

Xixia (Tangut) is an extinct Tibeto-Burman language, once spoken in the Qinghai/Gansu/Tibetan border region in far western China. Its complex logographic script, invented around A.D. 1036, was the vehicle for a considerable body of literature until it gradually fell out of use after the Mongol conquest in 1223 and the destruction of the Xixia kingdom.¹

A very large percentage of the 6000+ characters have been semantically deciphered and phonologically reconstructed, thanks to a Xixia/Chinese glossary, Tibetan transcriptions, and monolingual Xixia dictionaries and rhyme-books. The *fǎnqiè* method of indicating the pronunciation of Xixia characters was used both via other Xixia characters (in the monolingual dictionaries) and via Chinese characters (in the bilingual glossary *Pearl in the Palm*, where Chinese characters are also glossed by one or more Xixia ones).

Various reconstruction systems have been proposed by scholars, including M.V. Sofronov/K.B. Keping, T. Nishida, Li Fanwen, and Gong Hwang-cherng. This paper relies entirely on the reconstructions of Gong.²

After some initial speculations that Xixia might have belonged to the Loloish group of Tibeto-Burman languages, scholarly opinion has now coalesced behind the geographically plausible opinion that it was a member of the "Qiangic" subgroup of TB. The dozen or so Qiangic languages, spoken in Sichuan Province and adjacent parts of Yunnan, were once among the most obscure in the TB family, loosely lumped together as the languages of the Western Barbarians (Xifan = Hsifan). This has all changed in the past quarter of a century, as the Qiangic group has

*Previous versions of this paper were presented at the Tenth Spring Workshop on Theory and Method in Linguistic Reconstruction (Ann Arbor, March 26, 2004); then (in Chinese) at the Third Cross-Straits Workshop on Tibeto-Burman Languages and Linguistics, City University of Hong Kong (April 17, 2004); and finally (in French) at the University of Paris-3 (June 1, 2004). I am grateful for helpful comments made on these occasions, especially by Terrence S. Kaufman (in Ann Arbor), Gong Hwang-cherng (in Hong Kong), and Guillaume Jacques (in Paris).

¹See, e.g. Nishida 1967, Grinstead 1972.

²In 1999, Professor Gong kindly provided me with a 29-page list of his Xixia reconstructions, correlated to the Qiangic etymological sets I had presented in my Taipei talk (1999). It is a pleasure to dedicate this paper to him.

been subjected to intensive fieldwork. mostly by Chinese scholars (e.g. Sun Hongkai, Huang Bufan, Dai Qingxia, Sun Tianshin).

The Qiangic languages are of great interest, both phonologically and grammatically. They typically have complex systems of initial consonants and vowels, but rather rudimentary tone systems.³ Grammatically they have systems of markers in the VP which agree with the subject and/or object of the clause (although these are not as elaborate as, e.g. in the Kiranti group of E. Nepal). These languages are further characterized by well-developed sets of verbal prefixes which mark the *directionality* of the verbal event.

Proto-Qiangic remains to be reconstructed. It is already clear that rGyalrong (= Gyarung = Jiarong) and Ergong (= Daofu = Stau) belong together in a separate subgroup of this family. They have preserved PTB prefixes and thus have especially complicated systems of initial consonants, and also preserve final consonants better than the other languages. Yet their systems of directional prefixes seem to indicate that they belong somewhere in the Qiangic group.

This paper attempts to confirm the impressionistic insight that Xixia was a Qiangic language by comparing reconstructed Xixia forms with etyma from the modern Qiangic languages. There is, to be sure, a methodological problem involved in comparing a reconstructed language that reflects an *état de langue* of some 800 years ago with modern spoken languages. Furthermore, the modern data seems sometimes to be overtranscribed due to incomplete phonological analyses, especially where the vowels are concerned.

Still, I believe that by focussing on a particularly striking phonological tendency that Xixia shares with the modern Qiangic languages it is possible to demonstrate conclusively that Xixia was indeed a member of the Qiangic group.

2.0 *The fate of PTB *-a in Qiangic*

*-a is by far the best attested rhyme in TB languages. There is a strong tendency for this rhyme to be raised and fronted to -i, both in Xixia and in modern Qiangic languages. This development is typically impeded by velar/postvelar initials, and may be complicated by a number of other conditioning factors (including sibilant, nasal, and wawated consonants). Several etyma show exceptional developments that cannot yet be explained, but overall there is a rather satisfying degree of regularity.

It was Tatsuo NISHIDA who first observed that Proto-Tibeto-Burman (PTB) *-a usually developed into Xixia -i, and who pointed out that the same tendency was to be found in Tosu, a language known from a bilingual Chinese 18th century source, that Nishida claimed to be the lineal descendant of Xixia.⁴

³The Qiang language itself has both non-tonal and tonal dialects. See Evans 2001.

⁴See Nishida 1973, 1976. This work, the *Tosu Yi-yu*, was part of a series of bilingual vocabularies prepared under the general rubric of *Xifan Yi-yu* (Vocabularies Translated from Western Barbarian Tongues).

Strange as the development of ***-a > -i** may seem in the Tibeto-Burman context, it is by no means unparalleled in the world's languages. Terrence Kaufman tells me (p.c. 2004) that in the 19th century a similar phenomenon in Indo-European languages like Frisian was called *brightening*. Since this is a concise and euphonious term, I have adopted it in this paper.

In the following cognate sets, forms from modern Qiangic languages are taken from Sun and Huang 1991 ("ZMYYC"), except for the Pumi Dayang data, which are from my own fieldwork. As mentioned above, the Xixia reconstructions are by Gong (1999). PTB forms are from Matisoff 2003 ("HPTB").

Qiangic language name abbreviations:

QN	Northern Qiang (Mawo)	QS	Southern Qiang (Taoping)
PT	Pumi Taoba	PQ	Pumi Qinghua
PD	Pumi Dayang	RG	rGyalrong
EG	Ergong (=Stau = Daofu)	MY	Muya (=Minyag)
QY	Queyu	GQ	Guiqiong
ES	Ersu	NM	Namuyi
SX	Shixing	XX	Xixia

2.1 Etyma where PTB *-a has become Xx -i (or where, in the absence of a Xixia cognate, other Qiangic languages have -i):⁵

There are dozens of examples:⁶

	<i>PTB</i>	<i>Xixia</i>	
(1) AXE	*r-p^wa	wji¹ ⁷	斧

Other Qiangic reflexes with -i

PQ	spy⁵⁵	EG	lvi	GQ	pi⁵⁵zi⁵⁵	SX	bi⁵⁵mi³³
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For similar Xixia reflexes see PATCH (22) and SNOW (30).

⁵I am using "-i" in a loose way to refer to any front or apical vowel, including [-y, -ø, -e, -ɛ, ɿ]. Apical vowel reflexes are especially characteristic of syllables with sibilant initials (see below).

⁶At least 37 of these have good Xixia cognates. Eighteen of them are cited in Matisoff 2003 (HPTB): 172. Ten of them I had not identified appear in the rGyalrong/Xixia comparisons of G. Jacques (2003), and have been added to the present version of this paper (see 36-45 below).

⁷The subscript dot represents a hypothetical earlier prefix in Gong's system.

(2) BEE/BIRD ***bya** [lacking]*Other Qiangic reflexes with -i:*PQ bʒɛ¹³tʃə⁵⁵ ES bʒɿ³³ NM ndʒɿ⁵³

The above forms mean 'bee'. G. Jacques (2003:8) cites rGyalrong (gDong-brgyad) **pya** 'bird', perhaps a loan from Tibetan (WT **bya**).

(3) BORROW/LEND ***r/s-ŋ(y)a** **njir**² ⁸ 權, 借, 貸, 藉*Other Qiangic reflexes with -i:*

QN **ŋuə** sa QS da²⁴¹**ŋi**³³ EG **zŋi** MY **ŋu**⁵³
 QY tə³⁵**ŋi**⁵⁵ GQ **ŋi**⁵⁵ NM ntʂhɿ⁵⁵; **ŋi**³³ SX **ŋɛ**³⁵

ZMYYC #692 claims that the QS, QY, and NM forms (though not the others!) are loanwords, presumably from Zeku Tibetan **ɣiar** (cf. Written Tibetan **gyar**), but this seems highly unlikely in view of the much better match of these forms with WT **brnya** 'lend; borrow' (see STC #190).

(4) CHILD/SON ***za** ≈ ***tsa** **zjɿ**¹ 'son', **zji**¹ 'boy', **zji**² 'male'
 兒, 子; 天子; 雄性, 男性*Other Qiangic reflexes with -i:*

QN tɕi: mi QS tɕi³³bʒi³³ PT tɕi⁵⁵ GQ e⁵⁵le⁵⁵tɕi³³
 ES ja⁵⁵dʒɛ⁵⁵

(5) CHIN ***m-ka** [lacking]*Other Qiangic reflexes with -i:*

PT ma³⁵ke³⁵ PQ mø¹³ka⁵⁵ MY mɛ⁵⁵ŋkhi⁵⁵ QY me³⁵khi⁵³
 GQ nɛ³³nkø⁵³ ES mi³³xi⁵⁵ NM miɛ⁵⁵kø³³ SX mɛ³³ke⁵⁵

This is one of the rare roots to show fronting in some Qiangic languages despite the velar initial. QS mɛ³¹sɿ³³kha³³ and RG tə **mɿja** show the typical retention of **-a** after velars. See below 2.3(a).

⁸For similar final **-r**'s in Gong's reconstruction, see HUNDRED (15), LAUGH (16), GNAW/CHEW (47), RIGHTSIDE (56).

(6) COME ***la** **ljɿ¹-rjar¹** 來

Other Qiangic reflexes with -i:

QN ly QS ly³³ MY ri³⁵ SX liu⁵⁵

(7) EARTH ***tsa** **tshji¹** 土

Several modern Qiangic languages have reflexes with **-a**, e.g. PT **tɕa⁵³**, PQ **tʃa⁵⁵**, RG sɛ **tʃhɛ**, EG sɛ **tɕa**, MY **tʃa⁵³**, NM **dʒa³³tshɿ⁵⁵**). For discussion of reflexes of ***-a** after sibilant initials, see EAT (next example).

(8) EAT ***dzya** **dzji¹ ; dzjo¹** 食, 服(用)

Other Qiangic reflexes with -i:

QN dzə QS dzɿ³³ MY ndzu³⁵ ES dzɿ³³
NM dzɿ⁵³ SX dzɛ⁵³

There is a strong tendency for apical vowels to appear after sibilant initials, both in Chinese and TB. A plausible path of development from PTB*-a after sibilant initials would be something like: ***-a** > **-ə** > **-u** > **-ɿ** > **-i**.

This etymon displays a morphophonemic variation typical of many Xixia verbs (Gong 2001:60). The basic form ("Form 1") has **-i** vocalism. Form 2, which appears before certain suffixes, has **-o** vocalism. See also GET/OBTAIN (12), PUT/PLACE (23), WEAR CLOTHES (35), DO/CLOSE (39), SEND ON ERRAND (42), and SLAUGHTER (an animal) (43).

(9) EDGE ***m-dzya** [lacking]

Other Qiangic reflexes with -i:

QN zi ka PT zi³⁵pe³⁵ Pumi Dayang [Matisoff 1996/98] **dzɿ** [dzɿ]
MY zy³⁵ QY zi⁵⁵kha⁵³ SX zɿ³³la⁵⁵

(10) FLESH/MEAT/
ANIMAL ***sya** **tshji¹** 肉

Other Qiangic reflexes with -i:

QS	tʃhɿ ⁵⁵	PT	ʂə ⁵³	PQ	ʃɿ ⁵⁵	GQ	ɕi ⁵³
ES	ʂɿ ⁵⁵	NM	ʂɿ ³³	SX	biɛ ³³ tʂhɛ ⁵⁵		

This is another sibilant-initial root with apical or other central vowel reflexes in Qiangic.

(11) FORGET ⁹ *ma-t mji² 忘

Other Qiangic reflexes with -i:

QN	mə	QS	χmi ⁵⁵	PQ	thə ¹³ mə ¹³	RG	kə jməs
PT	nə ³⁵ mɛ̃ ⁵³	SX	mɛ̃ ³³				

Several forms point to a Proto-Qiangic prefix *r- or *s- with this root:

QN	mə	QS	χmi ⁵⁵	PQ	thə ¹³ mə ¹³	EG	lmu
RG	kə jməs						

RG kə jməs suggests suffixal *-s with this etymon, possibly more ancient than the suffixal -t that is set up in STC #425 on the basis of forms like Magari hma ~ hmat 'be lost; lose'.

Initial m- seems to favor the development of schwa. Lahu has a somewhat similar phenomenon: /ə/ is the rarest of the 9 Lahu vowels, but it occurs with especial frequency in syllables beginning with m-.

(12) GET/OBTAIN *ra rjir^{1/2}, rjor^{1/2} 得, 獲

See Gong 2001:60. The tonal instability of this word in Xixia is perhaps related to the fact that this etymon is under the relatively rare Tone *3 of Proto-Lolo-Burmese (PLB *ra³).

(13) GOD/SOUL/SPIRIT *m-hla sji² 神

Other Qiangic reflexes with -i:

MY	le ⁵³	QY	ɿ ⁵³	GQ	ɿ ⁵³	NM	ɿɛ ³³ 'god', ə ¹⁵⁵ ɿ ³³ 'soul'
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Xixia njə¹ 'god' might reflect PTB *nat ≠ *nan 'evil spirit, demon',

(14) HANDSPAN *m-twa [lacking]

⁹The semantic range of this etymon includes LOSE/DISAPPEAR/EXHAUSTED/SPENT. See STC #425.

Other Qiangic reflexes with -i:

'moon'	PT	ɬi ⁵⁵	PQ	ɬi ⁵⁵	MY	le ³⁵ nu ³⁵
	GQ	li ³⁵ mo ³³	NM	ɬi ⁵⁵ mi ⁵⁵	SX	ɬi ³³ mi ⁵⁵
'month'	QS	ɣɿ ³³	PT	zi ³⁵	PQ	ʒi ¹³
	GQ	li ⁵³	NM	ɬi ⁵⁵		

Several forms for 'month' reflect the ***s-** prefix. Cf. WT **zla-ba**, Lahu **ha-pa**, etc. The Xixia development here is different from that in the phonologically similar etymon TONGUE (69), where the ***-a** has been preserved (see below).

(19) NEGATIVE ***ma** **mji¹ ; mjij¹** 不, 無

Other Qiangic reflexes with -i:

QS	mi ⁵⁵	EG	mi	MY	ɲi ³⁵	GQ	me ³⁵
NM	me ³³						

Muya shows palatalization of the nasal, presumably after the change of ***-a** to **-i**.

(20) NEG. IMPERATIVE ***ta** **tji¹** 勿, 莫

Other Qiangic reflexes with -i:

PT	te ³⁵	QY	te ³⁵	GQ	the ³³	NM	the ⁵⁵
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Several forms show palatalization and/or affrication of the initial, which presumably occurred after the change of ***-a** to **-i**:

QN	tɕi	QS	tsɿ ⁵⁵	EG	dzi	MY	tɕu ⁵⁵
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It is interesting that both 'negative' and 'negative imperative' show the brightening tendency, despite the fact that functors often show exceptional phonological developments.

(21) NOSE ***s-na** **njii²** 鼻

Other Qiangic reflexes with -i:

QS	ɣɲi ³¹ qo ⁵⁵ pə ³³	EG	sni	NM	ɲi ³³ nga ⁵⁵
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(22) PATCH ***s-p^wa** **pja¹; wjij¹; wjij²** 補*Other Qiangic reflexes with -i:*

QN	spa	QS	χpe³³	PT	xə³⁵phie³⁵	PQ	xə¹³sphɛ¹³
RG	ka mphi	MY	phe³⁵lɛ³³	ES	pɛ³³pɛ⁵⁵		

All the Xixia allofams are good matches with the modern Qiangic forms. The forms with initial **w-** are perfectly analogous to the Xixia reflexes of AXE (1) and SNOW (30), so they represent the preferred allofam for comparative purposes.

(23) PUT/PLACE ***s-ta** **tji¹ 'put'; tjo¹** 到, 安置, 置
tji² 'place' 處, 所*Other Qiangic reflexes with -i:*

QS	kuə³¹χty⁵⁵	PT	khə³⁵ti³⁵	PQ	khə¹³stfə¹³	EG	sti
MY	ru³⁵tɕyi⁵⁵	NM	tchi³³tshɿ³³	SX	tɕɛ⁵⁵		

Several forms show secondary palatalization of the initial after ***-a > -i**. It is not clear which of the two syllables in the Namuyi form is the reflex of this etymon.

(24) RABBIT (calendrical animal) ***-la** **liɿ²-o²** 兔*Other Qiangic reflexes with -i:*

QS	zi²⁴¹	PT	tho³⁵li⁵³	PQ	ɿy¹³tsə⁵⁵	EG	wa le
MY	zi³⁵vø⁵³	QY	zi³⁵ko⁵⁵	ES	mi³³dzɿ⁵⁵	NM	tho⁵⁵li⁵⁵
SX	thy⁵⁵ly⁵⁵						

The PT, PQ, NM, and SX binomes are very similar to Loloish forms like Lahu **thô-là**, Hani **thù-hlṵ**. This calendrical dissyllable is also found in Tai (e.g. Tai Nuea **thu⁵-laa⁵**, but the first syllable seems to be a loan < Chinese 兔 (Mand. **tù**). This is evidently an early loan into Qiangic, since it underwent brightening.¹¹

The development of fricatives from palatalized laterals (as in QS, MY, QY) is paralleled in WT (e.g. PTB ***b-ləy** 'four' > WT **bzi**).

(25) REST ***na** [lacking]

¹¹Mu Shihua (p.c. April 2004) claims that this word is actually of Altaic origin.

Other Qiangic reflexes with -i:

QS	χba ²⁴¹ ŋi ³¹	PT	khə ³⁵ ŋi ⁵³	PQ	khə ¹³ ni ⁵⁵	EG	ne ni
MY	ji ³⁵ ŋi ⁵⁵	ES	ba ⁵⁵ ŋi ⁵³	SX	le ⁵⁵ ŋε ³³		

(26) SALT ***tσα** **tshjɿ²-ʔu²** 鹽

Other Qiangic reflexes with -i:

QN	tshə	QS	tshɿ ³³	PT	tshi ⁵⁵	PQ	tshi ¹³
RG	tshə	EG	tshu	MY	tshu ⁵³	QY	tshi ⁵³
GQ	tshi ⁵³	ES	tshɿ ³³	NM	tshɿ ³³	SX	tshə ⁵⁵

The vocalism of all these modern Qiangic reflexes [-i, -ɿ, -ɿ, -ə, -ɐ] shows raising and/or centralization, the latter due to the sibilancy of the initial.

(27) SATIATED ***k-wa** **ʔjiuj¹** 飽, 滿

Other Qiangic reflexes with -i:

PT	tə ⁵⁵ kui ⁵³	PQ	tə ⁵⁵ kui ⁵⁵	QY	lu ⁵⁵ wi ⁵⁵
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This is a general TB root. Cf. **WB wa'**.

(28) SHINE/BRIGHT PLB ***m-ba³** **mbifi**

This Xixia reconstruction is by Nishida (1966:447). The prenasalized Xixia initial fits well with the Lolo-Burmese forms: WB **pa'**, Lahu **ba** (Lh. voiced obstruents descend from PLB *prenasalized initials).¹²

(29) SINEW/TENDON ***r-tσα** **[lacking]**

Other Qiangic reflexes with -i:

QS	dzɿ ²⁴¹	PQ	stie ⁵⁵	QY	dzi ³⁵ ka ⁵³	NM	gu ⁵⁵ tse ³³
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However, the tendency in the modern Qiangic languages is to preserve a non-front vowel in this root:

PT	dzɿ ⁵³	EG	ztsa	MY	ndzɿ ³⁵	ES	hta ⁵⁵
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¹²See Matisoff 1978:17-18.

SX sɛ⁵⁵tɕa³³

(30) SNOW

***s-p^wa(l)**¹³wji¹

雪

Other Qiangic reflexes with -i:PT pɯ⁵³PQ spy⁵⁵

Pumi Dayang ɸpí

The Xixia reflex is consistent with those of AXE (1) and PATCH (22). Most modern Qiangic languages do not show brightening, however, either retaining the ***-a-** (QS mə³¹pa⁵⁵, RG tɛi jpa, EG nkɬɛ va, QY kha⁵⁵wa⁵⁵) or backing it to **-u** or **-ɯ** under the influence of the **-w-** (QN tɛi qə¹βu, MY vɯ³⁵, GQ khø⁵⁵wu⁵⁵).

(31) SPARROW

***m-tsa**

[lacking]

Other Qiangic reflexes with -i:QS i³¹tshie⁵⁵PT guɛ³⁵tɕi³⁵QY z̥õ³⁵pu³⁵tɕi⁵³GQ tshɿ⁵⁵tshɿ³³NM ɣa⁵⁵ndzɿ⁵⁵SX dzɣɛ³³mi⁵⁵RG pa-tsa shows no brightening.¹⁴

(32) TAIL

***m-ba**

mbifi

This Xixia reconstruction is by Nishida (1966:464). This sparsely attested root occurs in Mpi (S. Loloish) m² pa⁴ (Matisoff 1978:17-18).

(33) TOOTH

***s-wa**śjwi¹

齒

¹³This etymon is reconstructed ***wa** at the proto-Lolo-Burmese level. See HPTB pp. 46, 171, 428.

¹⁴G. Jacques has suggested that the second syllable of this rGyalrong form is a diminutive suffix derived from the morpheme for CHILD (see #4 above and Mandarin 子), so that the root is really the first syllable (perhaps cognate with WT **bya** 'bird'). Such a formation is indeed attested in several TB languages (e.g. Thadou Chin **giit-tsa** 'sparrow' (where the root is definitely the first syllable), and might plausibly be invoked to explain forms like Pumi Taoba **guɛ³⁵ tɕi³⁵** 'sparrow' (≠ **tɕi³⁵** 'child') and Pumi Jiulong **wə¹¹ tɕi³⁵**. However, there is abundant evidence for the existence of an etymon ***m-tsa** 'sparrow', which sometimes appears as an independent monosyllable (e.g. Written Burmese **ca**; Nusu **dza³³**; Hayu **dzu**; Daofu/Ergong **ɣzə**); sometimes as the second syllable of a binome where the first syllable is definitely a prefix (e.g. Jingpho **ù-tsā** (**ù-** is a Jingpho prefix occurring in many ornithonyms); Hani Liuchun **xa³¹ dza⁵⁵** (**xa³¹-** is an animal prefix in Hani/Akha); Muya **u⁵³ zu⁵³**; Yi Mile **a⁵⁵ tso³³**, Yi Mojiang **a⁵⁵ dzo⁵⁵**); and sometimes as the first syllable of a binome where the meaning of the second element is clear: Lahu **jà-mê** (the 2nd syllable means 'tamed; not wild'); similarly, Yi Weishan **dzɑ⁵⁵ m²¹** and Yi Nanhua **dzɣ³³ mi⁵⁵**. Several binomes might well combine this independent root with the diminutive suffix: Gazhuo **tsa³²³ za³³**, Guiqiong **tshə⁵⁵ tsə³¹**, Bai Jianchuan **tso⁴⁴ tɕi³³**.

Cf. Lahu **vâ** 'do, make, work'. See Gong 2001:60, where the Xixia forms are glossed 為, 作, 做.

(40) FINE/THIN	ku mba	bjj
(41) LIVE/DWELL	ky ryma	mji
(42) SEND (on errand)	ky yxpra	phji ≈ phjo
(43) SLAUGHTER (an animal) ¹⁶	ky ntcha	šji ≈ šjo
(44) WET	ky yvla	lhji
(45) YEAR/AGE	uu xpa	wji

2.2 Etyma where PTB *-a has become Xx -e

In a rather miscellaneous collection of cases, Xixia has brightened TB *-a only as far as -e. These etyma mostly have resonant (**w-**, **l-**, **r-**) or velar initials; yet there are several other unimpeachable examples where velar initials have prevented Xixia brightening altogether (below 2.3).

(46) BIRD	*wa	we¹	禽, 鳥
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Other Qiangic reflexes with -i:

QY **bō³⁵wi⁵⁵** GQ **wi⁵⁵tsi⁵³**

Here the brightening did not "go all the way" to -i, probably because of the inhibiting effect of the **w-**. See also HOOF (48), CATTLE (53), TONGUE (69), RAIN (75).

(47) GNAW/CHEW	PQc *s/m-ka	kier
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Other Qiangic reflexes with -a:

QN **ka¹ ła** QS **χGa²⁴¹ce³³** PQ **xə¹³qa¹³** EG **zqa le**
 RG (gDong-brgyad) **ky ny ŋka**

A couple of forms show some fronting and raising, but not to the point of becoming /i/:

¹⁶This is a distinct root from PTB ***g-sat** 'kill (in general)' > gDong-brgyad **ky sat**, Xixia **sjā**.

MY tur³³qø⁵⁵lɛ³³ NM ηqhe³³

The Xixia form (cited in Jacques (2003:8) means 'chew'.

(48) HOOF *kwa kwej¹ 蹄

The modern languages are virtually unanimous in preserving a low/back vowel in this etymon:

QN	ɛdz ₁ i ku	PT	kua ⁵⁵ la ⁵⁵	PQ	spa ⁵⁵	RG	ta ka
EG	zko	MY	que ³³ tshu ⁵³	GQ	nga ³⁵	ES	nkhua ⁵⁵
NM	qha ⁵⁵ tse ³³						

The only forms showing some brightening here are SX khe⁵⁵, QY nɛ⁵⁵khø⁵³, and Xixia kwej¹, though nowhere did it proceed "all the way" to -i.

(49) STRENGTH *k-ra yie¹ 力

QS	dz ₁ ²⁴¹ qa ³³	PT	ka ³⁵	PQ	qa ¹³	NM	ma ³³ ɣa ³⁵
SX	ɣa ³³ khua ⁵⁵ ji ⁵⁵						

No modern Qiangic language shows brightening in this root. The Xixia form descends from the unprefix root *ra, while in the other Qiangic languages the velar component of the initial consonant sequence predominates. See the discussion below 2.3(a).

(50) TIGER *k-la le² 虎

This root, evidently a borrowing into TB from Mon-Khmer (cf. Mon **klaa**), has so far been attested mostly in Lolo-Burmese (cf. WB **kyâ** [Inscriptional Burmese **klaa**], Lahu **lâ**).

It is also attested in Qiangic, where the vowel is usually maintained as -a:

ES la⁵⁵ NM la⁵⁵ SX la⁵⁵.

In Ergong **ɣi**, however, brightening has occurred (inducing palatalization/frication of the initial). A similar fronting and raising led to Xixia **le²**, although in this case the process did not go so far as to result in -i. These brightened forms indicate that this root must have been borrowed into Qiangic (perhaps from Lolo-Burmese) at an early date.¹⁷

¹⁷Other modern Qiangic languages have borrowed their word for 'tiger' from other sources:

(1) from Tibetan (cf. WT **stag**):

QS pzi³¹da³³; MY ta⁵³; QY ta⁵³; GQ ta⁵⁵

(2) from Chinese 虎 (cf. Mand. **hǔ**)

Several more examples of rGyalrong **-a** corresponding to Xixia **-e** are to be found in G. Jacques (2003:8):

	<i>rGyalrong</i>	<i>Xixia</i>
(51) ARM	tu ɛla	kiwej
(52) BOIL (v.i.)	ky la	le
BOIL (v.t.)	ky sy la	le
(53) CATTLE	nu ɲa	ɲwe
(54) DIFFICULT	ku Nqa	gie
(55) FROG	qaɕpa	piɕ
	This etymon descends from PTB *s-bal , but evidently the final lateral dropped in Qiangic (as also e.g. in Lolo-Burmese) at an early date.	
(56) RIGHTSIDE	ɣcha	tsier
(57) RUST	syɑ	wɛ

2.3 *Etyma where PTB *-a remains Xx. and/or most other Qiangic -a*

(a) After velar initials

In Qiangic the fate of ***-a** after velars is not a simple story. Each velar-initial root seems to behave somewhat differently, though the general tendency is clear - a velar initial impedes the fronting and raising of ***-a**. We have just seen a number of cases where a velar initial has permitted only partial brightening of the Xixia form (GNAW/CHEW [47], HOOF [48], STRENGTH [49], CATTLE [53], RUST [57]). This section presents several etyma where the velar initial has prevented Xixia fronting and/or raising completely.

(58) BITTER	*ka	kha ² 'bitter'	苦
		khie ¹ 'bitter; evil; hate'	

苦, 厭, 惡, 嫌, 憎

Other Qiangic reflexes with -a:

QN	qha	QS	qha ⁵⁵	PT	kha ³⁵ mə ⁵³	PQ	qha ¹³
MY	qha ³⁵	NM	qha ³⁵	SX	qha ⁵⁵		

The only modern Qiangic form to show brightening is GQ **khi⁵⁵**mu⁵⁵. Gong considers the Xx. form **khie¹** 'bitter; evil; hate' to reflect the independent root ***m-kri-(y)-t-s** 'bile' (see HPTB:22, 118, 189, 193, 436, 456).

(59) CROW (n.) ***ka** [lacking]**Other Qiangic reflexes with -a:**

EG	qa ze	QY	ka ⁵⁵ lo ⁵³	GQ	ka ³³ li ⁵³	ES	ka ³³ ə ¹⁵⁵
NM	la ⁵⁵ qa ³³						

A couple of forms show raising and fronting:

RG	ki	MY	qɛ ⁵⁵ zɛ ⁵³
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This root also has an imitative component.

(60) ENEMY ***d-gra** [lacking]**Other Qiangic reflexes with -a:**

PT	dzə ⁵³ wu ⁵⁵	RG	təngre	MY	dzə ³⁵ wu ³³	QY	dzə ³⁵
SX	dzə ³⁵						

These forms might all be borrowed from Tibetan (cf. WT **dgra**). The Xixia binomial synonym **wjij²-zji¹** 強敵, 敵, 敵人 shows fronting in both syllables, but neither syllable seems cognate to the modern Qiangic forms.

(61) FIVE ***b/l-ŋa** **ŋwə²** 五**Other Qiangic reflexes with -a:**

QN	ɬua	QS	ɬua ³³	PT	ŋue ⁵⁵	PQ	yuã ⁵⁵
RG	kə mŋo	EG	wŋue	MY	ŋa ³⁵	QY	ŋua ⁵⁵ tɕã ⁵³
GQ	ŋɛ ³⁵	ES	ŋua ³³	NM	ŋa ³³	SX	fĩã ⁵⁵ (ko ³³)

The modern Qiangic languages mostly preserve PTB ***-a** in this root. Xixia behaves similarly, in that the vowel is not fronted, though it is raised somewhat to schwa. This root should probably be set up as ***ŋ^wa** at the Proto-Qiangic level.

(62) GOOD ***na** **ŋa²** 好

This root is not widespread in Qiangic. In one of the three modern languages in which it is attested, PTB ***-a** is preserved as such (QN **na**, QS **na³³**). The expected brightening occurs in NM **ne³³**, and most interestingly in EG **ŋi**, where the nasal is backed from dental to velar. In Xixia a similar backing occurred, but apparently with the opposite effect - i.e. the velarity of the nasal blocked the brightening. For a similar development, see ILL/ACHE (73).

(63) I / ME ***ŋa** **ŋa²** 我

Other Qiangic reflexes with -a:

QS	ŋa⁵⁵	RG	ŋa	EG	ŋe	MY	ŋu⁵⁵
QY	ŋa³⁵	NM	ŋa⁵⁵	SX	ŋe⁵⁵		

The only modern form to show any fronting is GQ **ŋø³⁵**.

(b) After non-velar initials

There are very few good examples in this category, the best being HOT and TONGUE (and even these can be explained away).

(64) BOX / CABINET ***da** **[lacking]**

This form is sparsely attested in Qiangic, always with a low/back vowel:

Pumi Dayang	tó	PT	ta⁵³	SX	ta⁵⁵
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Extra-Qiangic forms include Lahu **ta-qō**, Naxi **to⁵⁵**, Tujia **tho⁵³**, Karen **dø⁵⁵**.

[64a] CARRY ***ba** **wə²** 負, 荷

Only one modern Qiangic form shows brightening: QN **bi**. Others maintain the original ***-a**: QS **ba³³**, ES **ba⁵⁵**, SX **pa³³ pa⁵⁵**. Still others reflect a different etymon with the same meaning, PTB ***bəw**: EG **mbu^w**, GQ **bu³³**, NM **bε³³bε⁵⁵**.

This example is spurious, however, at least as far as Xixia is concerned. As G. Jacques points out (2003:10) the Xixia form really means 'shoulder; carry on the shoulder', and seems directly cognate to rGyalrong **tu rpaḥ** 'shoulder', **ky my rpaḥ** 'carry on the shoulder' (< PTB ***r-pak**).

(65) DOG ***na** **na** 狗

This is quite a rare root in TB, although it does occur both in Qiangic and Loloish. Loloish reflexes include Lisu **ɑ⁵⁵ nɑ³¹** and Yi Nanhua **ɑ³³ nɯ⁵⁵** (ZMYYC #119). Qiangic forms include Shixing **khue⁵⁵ ɲi³³** and rGyalrong **khə na** [*ibid.*], with the former showing brightening.

By far the most widespread TB root for DOG is ***k^wəy**, which underlies the first syllables of the Qiangic forms just cited. Lisu also has another word for DOG reflecting this root, **khɯ³¹**.

(66) HAMMER ***s-ta** **[lacking]**

As with the preceding dental-initial etymon (BOX/TRUNK), there is virtually no brightening tendency with this root, e.g.:

PT	xə ³⁵ ta³⁵	PQ	xə ¹³ sta¹³	MY	ku ³⁵ tsa⁵³	GQ	u ⁵⁵ ta⁵⁵
NM	ntha⁵⁵						

However, a couple of forms with affricated initials (perhaps arising from metathesis of the prefix and the root-initial) have developed front vowels:

QS	tʃhi³³	EG	ndze
----	--------------------------	----	-------------

(67) HOT ***tsa-t** **tsja¹ ; tshja¹** 熱

A number of modern Qiangic languages have raised and fronted the vowel in this root:

RG	kə stse	EG	wu tse	MY	tsu ⁵⁵ tse⁵³	NM	tshɿ³³
SX	ɑ ³³ tsie⁵⁵						

Xixia does not show brightening after this sibilant initial, unlike its behavior in CHILD/SON (4), EARTH (7), EAT (8), FLESH/MEAT/ANIMAL (10), and SALT (26).

Several languages point to a dental suffix with this root (e.g. WT **tsha** 'hot, illness', **tshad-pa** 'heat; fever'; Lushai **śa ~ śat** 'hot'), and it seems very likely that the Xixia form reflects the rhyme ***-at**. See also ***g-sat** 'kill' > Xixia **sja**, VOMIT ***m-pat** > Xixia **wja**. A similar explanation works for the superficially irregular form in Pumi Dayang (below 3.0).

(68) MOTHER ***ma** **mja¹** 母

No modern Qiangic language shows raising or fronting with this root, and here Xixia agrees with them all:

QN	a ma	QS	ma³³; ma⁵⁵ma⁵⁵	PT	ma⁵⁵	PQ	ma⁵⁵
RG	tə mo	EG	a mɛ	MY	ɛ ⁵⁵ mɐ⁵³	QY	a ⁵⁵ ma⁵³
GQ	a ⁵⁵ ma³³	ES	a ⁵⁵ ma⁵⁵	SX	ma⁵⁵ma⁵⁵		

We are here dealing with a linguistic universal, however, so this set need not be taken as a serious exception to the brightening tendency.¹⁸ As in HOT, Xixia has developed medial **-j-** in this root.

(69) TONGUE ***s-lyə** **lhjwa¹** 舌

Many modern languages do develop brightening in this etymon. In several (QS, EG, GQ, SX) the initial has been palatalized/fricativized, leading to an apical vowel:

QS	ʒl³¹qə⁵⁵	PT	ʎɛ⁵³	PQ	ʎɛ⁵⁵qho⁵⁵	EG	vʒɛ
GQ	dzl³⁵	NM	ji ³³ ʎɛ⁵⁵	SX	ʂl⁵⁵		

Somehow Xixia developed a medial **-w-** here, which might have acted to preserve the original vowel quality of the etymon. This did not happen in the very similar roots GOD/SPIRIT (13) or MOON/MONTH (18). It is interesting that Pumi Dayang also has an exceptional reflex in this root (below 3.0).

This root has many other allofams, and it is very possible that the Xixia form descends from one of the others, including ***lay**, ***ley**, ***lyak**, or ***lyam**. See Matisoff 2003:672.

2.4 Etyma where PTB ***-a** > Xixia back vowel

¹⁸See Jakobson 1961, "Why *mama* and *papa*?" Cf. also FATHER (82).

We are left with a residue of etyma where Xixia has developed a non-low back vowel from PTB etyma with ***-a**. Most of these also have velar and/or nasal initials:

(70) DITCH ***ka** **gju¹** 渠

This root usually appears as the second element in compounds where the first constituent means 'water', e.g. Lahu **ɣì-qhâ** (**ɣì** 'water').

A couple of modern Qiangic reflexes show raising and fronting (EG **que** $z\epsilon$, NM **qhe³³**), but PQ **tʃə⁵⁵qha⁵⁵** maintains the proto-vowel, while QS **tsuə³³χu³³** shows raising but no fronting. QN **tsə gu¹** and Xixia **gju¹** are diphthongal forms with both a high back and a high front element, which seem to illustrate well the tension between the opposing tendencies of **a**-brightening and velar "darkening".

(71) EAR ***g/r-na** **nju¹-dźjwo²** 耳竅

Most of the modern languages preserve ***-a** in this root. The brightened forms are:
 QS **ŋi³¹kie³³** MY **ŋyi³⁵** QY **ne⁵⁵po⁵⁵to⁵⁵**

The high back vowel in the Xixia form is unexplained. As a wild guess, we might claim that this abnormal development was due to a desire to avoid homophony with NOSE (21). The second Xixia syllable means 'hole'.

(72) FISH ***ŋya** **źju²** 魚

It is not clear whether the Qiangic forms really descend from PTB ***ŋya**, or whether we are dealing with a separate root reconstructible as Proto-Qiangic ***dza**.

The modern languages display either back or apical vowels:

QN	ɛdzə	QS	dzɿ³³	PT	dzi⁵³	PQ	dʒə⁵⁵
RG	tʃu jo	EG	ɛa ju	MY	ɛuu⁵³	QY	zũ³⁵
GQ	tʃɿ⁵³ŋi⁵³	ES	zu⁵⁵	NM	zu⁵⁵	SX	o⁵⁵

The Xixia form has a high back vowel, and is very similar to the RG, EG, QY, ES, and NM forms. The nasalization in the QY form is unexplained.

(73) ILL/ACHE ***na** **ŋo²** 病, 痛

Several modern languages show the expected brightening:

PT	ɲi⁵³	PQ	ɲε⁵⁵	MY	ɲe⁵⁵	QY	ɲe⁵⁵
ES	ɲi⁵⁵						

This is a most interesting case. The PTB initial is not a velar, but rather a dental nasal. Xixia, however, apparently first changed the initial to the velar nasal, which then acted to prevent the raising and fronting to **-i**, and in fact induced the opposite effect of backing. This is very similar to what happened with GOOD (62). Muya also changed the position of the nasal, but developed a front vowel anyway.

(74) LOVE / WANT ***m-dza** **dzu¹, dzju¹** 愛, 樂, 喜

The Qiangic and Loloish languages, as well as Tibetan, reflect either of two distinct roots with this meaning:

- *m-dza** > WT **mdza-ba** 'love'; Xixia **dzu¹, dzju¹**; GQ **tʂha⁵⁵gi³³**; NM **dzɹa⁵⁵**; QN **ɣtci**; SX **tshi⁵⁵** (QN and SX show brightening); Yi Dafang **ndzu³³**, Yi Nanhua **ɲe³³ dzɹ³³**
- *m/d-ga** > WT **dga-ba** 'like, be willing, intend, wish'; QY **ga³⁵** 'love'; ES **ga⁵⁵**; PQ **sgia⁵⁵**; PT **ɣie³⁵**; EG **zgia** zε; Lahu **gâ** 'want; desiderative particle'; Yi Xide **ɲgu³³** 'love'; Hani Dazhai **ga³¹**

The interesting Guiqiong binome **tʂha⁵⁵gi³³** seems to reflect ***dza-ga**, a sequence of both roots, with brightening of the second.

(75) RAIN ***g/r-wa** **dzju²** 雨

The modern Qiangic forms (except for SX) reflect the velar prefix. Of these, PT, PQ, and SX show brightening:

PT	gui⁵³	PQ	gui⁵⁵	PD	gwí	QY	xu⁵³
ES	gua³³	SX	ϕui⁵⁵zɹ⁵⁵				

The Xixia reflex is very similar to that in LOVE/WANT, but different from that of the phonologically similar WEAR CLOTHES (35). The cognacy of the Xixia form to those in the modern languages is not certain.¹⁹

¹⁹J.P. Evans (p.c. 2004) cites Mianchi Qiang **mz̥ɿ**, analyzing the **m-** as a prefixization of the root ***məw** 'sky; meteorological phenomenon'. The root-initial **z̥** points to the alternatively prefixed prototype ***r-wa** (cf. Written Burmese **rwa**).

3.0 The fate of PTB *-a in Dàyáng Pumi²⁰

That Xixia is definitely to be considered a Qiangic language seems especially obvious when we consider the fate of *-a in Dayang Pumi (= Prinmi), a dialect on which I conducted a month's fieldwork in 1996. Not only is the brightening tendency very much in evidence in Dayang, but the conditioning for the development is strikingly similar to that in Xixia with respect to the inhibiting effect of velar initials. The most frequent Dayang reflex of PTB *-a is -i, but in many cases (especially after palatal or labial initials), Dayang has developed -ɿ. While the developments in every single etymon are not entirely predictable, at least in the present state of our knowledge, the general tendencies are clear enough.

	<i>PTB</i>	<i>Dàyáng Pumi</i>
*-a > -i		
(3) BORROW/LEND	*r-ŋ(y)a ≠ *s-ŋ(y)a	də-nǐ
(15) HUNDRED	*r-gya	ʃí
(17) LISTEN	*-na	thə-nǐ
(18) MOON	*s/g-la	ʔí
(18) MONTH	*s/g-la	zǐ
(25) REST	*na	khə-ní
(26) SALT	*tsa	tshǐ
(35) WEAR CLOTHES	*gwa	gwǐ
(71) EAR	*g-na ≠ *r-na	ŋí-dzó
(73) ILL/ACHE	*na	ŋí
(76) BUCKWHEAT	cf. PLB *g-ra ² ²¹	(Taoba tǒ ³⁵ tɕi ³⁵ , Jinghua tǎu tʃə ¹³)
(77) RICE	*dza ²²	dzí 'cooked rice'
*-wa > -i		
(14) HANDSPAN	*m-twa	tɕhwí
(27) SATIATED	*k-wa (cf. WB wa [?])	kwǐ
(75) RAIN	*r-wa ≠ *s-wa ≠ *g-wa	gwí
*-wa > ɿ		
(1) AXE	*r-p ^w a	ɸpí
(30) SNOW	*s-p ^w al; cf. PLB *wa ²	ɸpí

²⁰This section is adapted from Matisoff 1996/1998 and 1999.

²¹Cf. Lahu ɣâ, Hani ɣa²¹, Lisu gua²¹.

²²Cf. Lahu cà 'paddy', Wancho tza, Newar ja

*-a > ɪ	[mostly after palatals]	
(2) BEE/BIRD	*bya	bí
(4) CHILD/SON	*za ≠ *tsa	tʂǝN ²³
(8) EAT	*dzya	dzí [dzɿ]
(9) EDGE/SIDE	*m-dzya ²⁴	dzǐ [dzɿ]
(10) FLESH/MEAT	*sya	ʃtʃí
(34) TROUSERS	*s-la	zɿǐ
(56) RIGHTSIDE	*g-ya	zɿí
(72) FISH	*s-ŋya	dʒí
(78) THIN	*ba	bí
(79) MANY	*mya ≠ *mra	zɿí
*-a > -ɒ	[mostly after postvelars, labials, dentals]	
(5) CHIN	*m-ka	mə-qó
(16) LAUGH	*rya	ʂǒ
(48) HOOF	*kwa ²⁵	ʒdʒwìN ʃpǒ
(49) STRENGTH	*k-ra ²⁶	qǒ
(53) CATTLE	*ŋwa	qwó
(55) FROG	*s-bal	ʃpǒ
(58) BITTER	*ka	qhǒ
(61) FIVE	*l/b-ŋa	wǒN ²⁷
(64) BOX/CABINET	*ta ²⁸	tó
(66) HAMMER	*m-t(w)a ≠ *s-ta ²⁹	stǒ
(80) OPEN	*ka	tə-qó
(81) THROW	*m-ba(y) ≠ *s-ba(y)	βbó (Jinghua sba ⁵⁵)
(82) FATHER ³⁰	*pa	bó
*-a > -a		
(70) DITCH	*ka	qhá
*-wa > ou		
(33) TOOTH	*swa	ʂóu

²³This form apparently reflects the suffixal ***-n** that sometimes appears on kinship terms, as in Dhimal **tʂan** 'son', Lepcha **a-zon** 'grandchild' (cf. Benedict 1972: n.86, p. 27; n. 284, p. 100). Cf. FIVE (below) for a different source of a nasalized vowel.

²⁴Cf. Lahu **jâ**, Akha **dzà**, Limbu **ja**.

²⁵Cf. Written Burmese **khwa**.

²⁶Cf. Written Burmese **ʔâ**, Lahu **ɣâ**.

²⁷With nasalization of the vowel, apparently reflecting the original ***nasal** root-initial. Cf. CHILD for a different source of a Pumi nasalized vowel.

²⁸Cf. Lahu **ta-qō** 'box', Naxi **to**⁵⁵, Tujia **tho**⁵³, Karen **dq**⁵⁵, Shixing **to**⁵⁵, PT **ta**⁵³.

²⁹Cf. Lahu **tha** 'strike with flat hand, slap, strike a sharp blow', **tha-tu** 'hammer'; also Written Tibetan **(m)tho-ba** 'large hammer' < ***-twa**.

³⁰We are dealing here with a linguistic universal favoring **-a** vocalism (see MOTHER #68). The Xixia reconstruction is **wjâ**; rGyalrong dialects have forms like **tepe** and **awa**. See Matisoff 2000:#15.

***-ya > -ε**
 (69) TONGUE ***s-lya** **ɬě**
 This word is also exceptional in Xixia; see above.

***a-t > -ε**
 (67) HOT ***tsa-t**³¹ **tsé**

4.0 Concluding remarks

On the one hand, brightening is highly unusual, both in the TB context and in general. On the other hand it is strikingly characteristic both of Xixia and of the modern Qiangic languages. This makes the "shared innovation" of brightening a valuable criterion for membership in the Qiangic group.

The modern languages do not display brightening to the same degree,³² nor is the phenomenon completely regular, either within the same language or cross-linguistically. However, the similarity of the conditioning factors across the Qiangic languages - especially the inhibitory effect of velar initials - leads us to conclude that we are indeed dealing with a tendency that must be imputed to Proto-Qiangic itself.

A few observations on conditioning factors and exceptionality:

(a) Initial or medial /w/, probably because of its velar component, frequently acts as an inhibitory factor, as in HANDSPAN (14), BIRD (46), HOOF (48), FIVE (61), TONGUE (69), and RAIN (75). This blocking of brightening does not occur in TOOTH (33), where **s-** seems to be the dominant component of the initial consonant sequence; neither does it affect AXE (1), PATCH (22), or SNOW (30), where the dominant segment in the initial is **p-**, with the [w] merely "extrusional".³³

(b) Following a widespread tendency in TB/ST, sibilant initials frequently condition the centralization of high front vowels to the "apical" position, as in EAT (8), FLESH/MEAT/ANIMAL (10), SALT (26), and SPARROW (31).

(c) Syllable-final **-r** in Gong's Xixia reconstructions seems to represent a suprasegmental feature of rhotacism, rather than a true consonantal segment, and is apparently an effect of an **r-** in the syllable onset, either prefixal or root-initial, as in BORROW/LEND (3), HUNDRED (15), LAUGH (16), GNAW/CHEW (47), and RIGHTSIDE (56).

³¹See HOT (66) above. This **-ε** seems to be the regular Dayang reflex of ***-at**; cf. VOMIT ***m-pat > ɸphé**; KILL ***g-sat > syě**.

³²It would be interesting to count the number of brightened forms in the various Qiangic language, in order to determine the relative strength of the tendency in each of them. Although I have not yet performed this calculation, it seems to me impressionistically that Xixia ranks near the top of the scale.

³³See Matisoff 2000.

(d) Brightening generally occurs after sibilant initials, as in CHILD/SON (4), EARTH (7), EAT (8), EDGE (9), FLESH/MEAT (10), and SALT (26). However, the Xixia reflex of HOT (67) retains the original ***-a**, undoubtedly because it descends from an allofam with dental suffix.

(e) Although velar initials generally block brightening, CHIN (5) and STRENGTH (49) are exceptions, though in the latter case the Xixia reflex points to initial ***r-** as its immediate prototype.

(f) WEAR CLOTHES (35) is doubly exceptional in Xixia, since brightening occurs despite the velar initial and medial ***-w-**.

(g) Nishida (1964/66) reconstructs a prenasalized series for Xixia, which is confirmed by several comparisons with Lolo-Burmese etyma (see SHINE/BRIGHT (28), TAIL (32) and Matisoff 1978:17-18).

Rare as the development ***-a > -i** is, it is by no means unheard of elsewhere in Southeast Asia. It is characteristic of Far Western Hmongic (p.c., David Mortensen), and Mortensen has just unearthed a similar phenomenon in the newly described dialect of Tangkhul that he calls "East Tusom". Among his examples are the following:

	<i>PTB</i>	<i>P-Tangkhul</i>	<i>E. Tusom</i>
(10) ANIMAL	*sya	*ʔasa	ʃí
(58) BITTER	*ka	*kəkha	kək^hxí ³⁴
(5) CHIN	*m-ka	*məkha	mók^hxì
(71) EAR	*g/r-na	*kəna	ʔik^həni
(8) EAT	*dzya	*kətsa	kəzì
(21) NOSE	*s-na	*na-	ʔi ni ʃì
(15) HUNDRED	*r-gya	*ʃa-	mì ʃí hé

Nevertheless, the fact remains that brightening is incomparably more characteristic of Qiangic/Xixia than it is of any other subgroup of Tibeto-Burman.

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³⁴Note that velar initials do not at all impede brightening in this dialect.

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