

Chinese Elements in the Tangut Script*

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I. Introduction

The Tangut script as promulgated in 1036 is generally regarded as one of the most complicated writing systems in the world. Due to the efforts of many scholars, especially Lo Fu-ch'ang (1914), Nishida (1961, 1964, 1966), Kyčanov (1954) etc. and to the translation of the *Wen-hai* and the *Wen-hai tsa-lei* into Russian by Soviet scholars (see Keping et al. 1969), we have come to understand the composition of quite a number of Tangut characters.

There is no doubt that in the formation of the Tangut script the Chinese writing system played an important part, but it remains obscure exactly what kind of influence the Chinese writing system exerted on the Tangut script. Some attempt has been made to look for the origins of Tangut characters in the Chinese

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script. An excellent study of this sort was made by Kyčanov (1964) and further investigation in this direction is certainly worthy of being pursued. However, in the present paper I shall focus my attention on the principles underlying the formation of the Tangut script and try to determine the traces of Chinese influences in them.

It is generally maintained that Chinese characters are formed according to the six principles, namely, imitative symbols (*hsiang-hsing* 象形), indicative symbols (*chih-shih* 指事), semantic compounds (*hui-i* 會意), phonetic compounds (*hsieh-sheng* 諧聲), semantic borrowings (*chuan-chu* 轉注), and phonetic borrowings (*chia-chieh* 假借).

As far as the Tangut script is concerned, examples of the first category are almost absent. The only seeming example is the character 𐰚 *men*¹ “gate, door” (S 1932)¹, which, according to the *Wen-hai*, a Tangut dictionary compiled in the 12th century, is a picture of a door², but one can not fail to see in it an imitation of the Chinese character 門 *muən* “gate, door” (G 441a)³, the original form of which was a drawing.

Examples of indicative symbols in the Tangut script are also rare. The only examples close to this category seem to be the graphic elements 𐰚 (connected with the meaning “above”) and 𐰛 (connected with the meaning “below”), which are placed respectively on the top and the bottom of characters to form the compounds as follows:

𐰚 “above”	𐰚	tšieu ²	top (S 0188)
	𐰛	liwu ²	head (S 0238)
	𐰛	no ²	brain (S 0240)
	𐰛	tšei ²	wear on top (S 0209)

1. The reconstruction of Tangut sounds is based on Sofronov (1968: II, 276-403), with some modifications proposed by me (See Gong 1981). The number in the parentheses preceded by S indicates the number in Sofronov's list.
2. See *Wen-hai* No. 478 (abbreviated as W 478 hereafter), Russian translation by Keping et al. 1969, I-102. For further discussion on this graph see *infra*.
3. For convenience' sake, the ancient Chinese reading reconstructed by Karlgren (1957) in *Grammata Serica Recensa* is given (abbreviated as G).

卅 “below”		vie ²	bottom (S 4782)
		thi ²	earth (S 4024)
		džiwe ²	bed (S 3515)
		dzu ²	sit (S 3749)
		ka ²	level, balanced (S 5390)

The forms and meanings of the Tangut graphic elements resemble Chinese 上 žiang° “up, above, top” (G 726) and 下 ɣa° “down, below” (G 35), with the former going back to ancient 𠂔, 𠂕, 𠂖, 𠂗 and the latter to 𠂘, 𠂙, 𠂚 and 𠂛⁴. These are indicative symbols in the Chinese script.

The Tangut script abounds in semantic compounds. In order to compare them with Chinese, we can cite the Tangut graphs 𐰽𐰚 śiə¹ “messenger” (S 4594) and 𐰽𐰚 biei¹ “urine” (S 2321) as examples. According to the *Wen-hai* (W 987), the former is composed of 𐰽 (an abbreviated form of⁵ 𐰽 da² “words”) and 𐰚 (abb. of 𐰚 dai¹ “convey, transmit”). Thus the Tangut graph for “messenger” is composed of “transmit” and “words”, in contrast to the Chinese character 信 iǝn° “message, sincere”, which is made up of 人 ńziǝn “man” and 言 ɳɳiɳn “word”. The latter (𐰽 biei¹ “urine”) is composed of 𐰽 (abb. of 𐰽 siwo² “bladder”) and 𐰚 (abb. of 𐰚 ziē² “water”). This composition is similar to Chinese 尿 (now written as 尿) nieu° “urine”, which is composed of 尾 °mjwei “tail” and 水 °świ “water”.

In the Tangut script there are graphs which have symmetrical structures. For instance the graphs 𐰽 ka² “even, level” (S 4830), 𐰽 ɳwe¹ “compare, side by side” (S 4872), and 𐰽 tin² “ditto” have the same graphic elements on the left and right side of the graphs. This kind of construction can be traced back to the composition of Chinese graphs such as 𐰽 kien “even, level” (G 239), 𐰽 °pji “compare” (G 566) and 𐰽 °bieng “side by side” (G 840).

As far as phonetic compounds in the Tangut script are concerned, we can

4. These forms are small seal (*hsiao-chuan* 小篆), ancient graph (*ku-wen* 古文), graphs on bronzes and oracle bones respectively.

5. Hereafter abbreviated to “abb. of”.

cite the graphs 𣎵 liə¹ “pine-tree” (S 0739) and 𣎵 wa¹ “pig” (S 5360) as examples. The former contains the radical 𣎵 (abb. of 𣎵 si¹ “tree”) and the phonetic 𣎵 liə¹ “wind”. The Chinese graph with the same meaning is 松 。zɿwong “pine-tree”, which, according to the *Shuo-wen*, a Chinese dictionary of characters compiled about A. D. 100, contains the radical 木 “tree” and the phonetic 公 ɔkung “public”⁶. The Tangut graph 𣎵 contains the radical 𣎵 (abb. of 𣎵 giu¹ “pig”) and the phonetic 𣎵 wa¹ “surname”. The Chinese character with the same meaning 豬 。tɿwo “pig” (G 45) contains the radical 豕 “pig” and the phonetic 者 ʔtɕja “auxiliary word”⁶. Here we see that the type of graphic composition used here is the same in Tangut and Chinese.

In the Chinese script there are cases where the same graphic element occupying the same position in various graphs functions sometimes as the radical and sometimes as the phonetic. The same phenomenon is also observed in the Tangut script. Following are parallel examples between Chinese and Tangut.

Chinese 聃 ʔnízi “plume” 耳 ʔnízi “ear” is phonetic

聆 ɔlieng “hear” 耳 is radical

Tangut 𣎵 niu¹ “surname” 𣎵 (abb. of 𣎵 niu¹ “ear”) is phonetic

𣎵 ba¹ “cymbal” 𣎵 is radical

The interpretation of the category *chuan-chu*, which I have translated freely as semantic borrowings, in contrast to the category of phonetic borrowings, has been the subject of controversy for many centuries. The opinion which seems to have gained influence in recent years is to interpret the term as applying to characters formed by altering an etymologically related word. From this point of view, the Tangut characters 𣎵 liə² “fragrant” (S 0517) and 𣎵 liə² “ditto” (S 0700) belong here, for they are formed from 𣎵 liə² “fragrant” (S 0516) by either replacing part of the graph with the radical 𣎵 (abb. of 𣎵 nau² “vegetable” S 1790) or by adding the radical 𣎵 “tree” on the top of the character. Following are the compound words in which these graphs appear:

6. The discrepancy between a graph and its phonetic element results from sound change.

𪚩 𪚪 li²-no² fragrance (literally “fragrant-smell”, Chinese 香氣)

𪚫 𪚬 li²-nau² coriander (literally “fragrant-vegetables”, Chinese 香菜)

𪚭 𪚮 d¹ei²-li² lignaloos (literally “sinking fragrance”, Chinese 沉香)

By the principle of phonetic borrowing a graph is used to represent another phonetically identical or similar word, for which no graph exists. Thus the Tangut graph 𪚱 ts¹ in the sense of “also” is a phonetic borrowing, since it is primarily formed for the homophonous word meaning “small”, as is attested in the *Wen-hai*'s explanation of the graph as being derived from the graph 𪚲 zi¹ “small” (S 1496) by removing the left vertical stroke. The process of the formation of this graph is analogous to that of the Chinese graph 亦 iäk. “also” (G 800), which is primarily invented for the word “armpit” as can be seen from its ancient form 𠂔 showing a man with the armpits indicated by two strokes.

II. The Influence of Chinese Vulgar Script on the Tangut Script

1. Graphs with the left and right side reversed.

In the Chinese script there are graphs which contain the same elements in different positions. They are sometimes variants of the same graph and sometimes different graphs with different sounds and/or meanings. For instance, in the *Kuang-yün*, a Chinese rhyming dictionary, we find graphs as follows:

a) variants of the same graphs

𪚱 𪚲 °kân black in the face

𪚳 𪚴 śie° wing

b) different graphs with different sounds and/or meanings

猶 .iəu hesitating 猷 .iəu plan, scheme

胡 .Xuo dewlap, how, why, what 𪚱 °kuo thigh

鶴 kuân° name of a bird 鳥 𪚱 .xuân name of a bird

𪚱 .uäi slow wind 𪚱 .ńźwīę slow wind

In the *Lung-k'an-shou-chien* 龍龕手鑑, a dictionary of Chinese characters compiled by a Kitan monk around A.D. 997, such graphs appear on a large scale. The dictionary is said to have recorded the vulgar script actually

used in the manuscripts of Buddhist sutras. It is all the more significant, since this immediately precedes the invention of the Tangut script around A. D. 1036. As we find the same method of graphic composition extensively applied in the Tangut script, we have to conclude that it owed to Chinese influence. Following are but a few examples of this kind of graphic composition in the Chinese and Tangut script.

Chinese

- 颶⁷ 颶⁷ (I, 43A, 10)⁸ to whirl, as the wind
 颶⁷ 颶⁷ (I, 43A, 10) tossed by the wind
 皮⁷ 戰⁷ (I, 42A, 9) chapped skin
 包⁷ 炮⁷ (I, 42B, 4) pustule, pimple
 毛⁷ 毳⁷ (I, 46B, 7) fine wollen cloth
 毛⁷ 聃⁷ (II, 55B, 7) plume

Tangut

𪚩	liə ²	earth	𪚩	phu ¹	earth
𪚪	khwei ¹	big	𪚪	lie ²	big
𪚫	dziwu ¹	man	𪚫	viei ¹	man
𪚬	nə ²	finger	𪚬	nóu ¹	claws
𪚭	siwi ¹	𪚭	gin ²		whirlwind
𪚮	wo ¹	𪚮	ngo ²		to drive
𪚯	dziwu ¹	𪚯	lhja ¹		lightning, sound of thunder
𪚰	kwie ¹	𪚰	kje ²		bandit

It is interesting to note that some Tangut graphs acquire the corresponding Chinese sounds and occasionally also meanings in this way. In other words, this has become a method of forming Chinese loanwords in Tangut.

Tangut word	Chinese loanwords	Chinese
𪚱 diə ¹ break	𪚱 swei ¹ break	碎 suai ⁰ break
𪚲 niə ¹ wild animal	𪚲 sai ¹ wild animal	牲.şong animals

7. 俗 vulgar form, 正 regular form, 通 current form.

8. The number and letter of the alphabet in the parentheses indicate the volume, page, and line of the *Lung-k'an-shou-chien*.

Tangut word	Chinese loanwords	Chinese
𐰇𐰆 dʒia ¹ flame	𐰇𐰆 °iān ¹ used in transcribing Chinese sound homophonous to “flame”	𐰇𐰆 iām flame
𐰇𐰆 lɿ ² sweet	𐰇𐰆 thɿe ¹ house, also used in transcribing Chinese sound homophonous to “sweet”	𐰇𐰆 diem>th- sweet

2. Graphs formed on the principle of semantic compounds with “not” as its constituent element.

In the current Chinese script, graphs composed on the principle of semantic compounds with “not” as its constituent element are extremely rare. The graph 覓 “to search for” is composed of 不 “not” and 見 “see”. In the *Yü-p'ien* it is registered as a vulgar script for 覓. Another graph in current use is 歪 “aslant, askew”. This graph is composed of 不 “not” and 正 “upright”. To the best of my knowledge, this graph makes its first appearance in the *Lung-k'an-shou-chien* together with the following graphs which are no longer in use today.

𐰇𐰆 ⁹	不 not 少 few, little = 多 many, much
𐰇𐰆 𐰇𐰆	不 not 正 upright = 歪 aslant, askew
𐰇𐰆 𐰇𐰆	不 not 長 long = 矮 short, low in height
𐰇𐰆	不 not 用 use = 弃 (棄) to abandon
𐰇𐰆	不 not 明 light = 暗 dark
𐰇𐰆	不 not 好 good = 壞 bad

The Tangut script made extensive use of this method and composed dozens of graphs with the graphic element 𐰇𐰆, which is an abbreviated form for 𐰇𐰆 mi¹ “not”. The following are examples:

𐰇𐰆 nɿau ²	is not < 𐰇𐰆 not 𐰇𐰆 is
𐰇𐰆 diu ¹	to indict, to accuse < 𐰇𐰆 not 𐰇𐰆 to obey, to submit

9. See the *Lung-k'an-shou-chien* III, 64B, 8-10.

懷 dīe ²	to settle, to fix < 丩 not 菽 to move
恠 ma ¹	big < 丩 not 猪 fine, small
恠 ?	curved < 丩 not 肱 straight
恠 sân ¹	mountain < 丩 not 低 low
恠 lī ¹	dark < 丩 not 纈 bright, light
恠 tshêw ¹	to destroy < 丩 not 夥 to make, to do
恠 dze ¹	to attack, to assault < 丩 not 斂 to withdraw
恠 dzīe ¹	muddy, turbid < 丩 not 清 clear, lucid
恠 ɔwai ¹	sideways, aslant < 丩 not 邪 upright
恠 ngīe ¹	dishevelled, bad < 丩 not 姪 good
恠 lāi ²	greed < 丩 not 足 enough, satisfied
恠 lə	to think, to remember < 丩 not 忘 to forget
恠 wêw ²	to doubt < 丩 not 信 to believe
恠 san ¹	to disperse < 丩 not 聚 to gather, to assemble
恠 kêi ¹	short, low in height < 丩 not 長 to grow up
恠 dzwa ¹	short, low in height < 丩 not 長 long
恠 kīwêi ¹	without, none < 丩 not 有 to have
恠 sɔ ²	to disperse < 丩 not 叢 group
恠 phə ²	to destroy < 丩 not 廢 to regard, to value

3. Graphs formed on the principle of fan-ch'ieh.

In translating Buddhist sutras into Chinese, the necessity arose to render Sanskrit sounds into Chinese script. Since in Sanskrit, there were sound combinations which did not occur in Chinese, the transliteration did not always give the exact Sanskrit sound. For instance the syllable *dhyā* did not occur in Chinese, so it was rendered either in two syllables as diei-ja 第耶, or simply as dā 駄.

Sanskrit: upādhya

Chinese: 郁波第耶夜 iuk-puâ-diei-ia-ia

郁波駄耶 uo-puâ-dâ-ia

郁波拞耶 uo-puâ-dâ-ia

In the course of time, there appeared in the new translations of sutras an attempt to coin graphs by the fan-ch'ieh method, that is, to mark the sound of a character by means of two characters.

The first character is used to mark the initial and the second to mark the final. This was a method widely practiced at the time and it was but a natural development to apply it in a new field. In the *Hsin-yi-shih-ti-ching* (新譯十地經) we find the Sanskrit upādhyāya rendered now as 鄔波訖耶¹⁰ ·uo-puā-dīa-ia. The new character 訖 dīa is made up of two characters 亭 dieng and 也 ia. The *Lung-k'an-shou-chien* (A. D. 997) has recorded twenty-odd such characters. Following are only a few examples:

卑	°pīa	< 卑	°pjie	+ 也	°ia
井	°pīa	< 井	piāng°	+ 也	°ia
名	°mīa	< 名	°miāng	+ 也	°ia
夜	mīa°	< 名	°miāng	+ 夜	ia°
丁	°tīa	< 丁	°tieng	+ 也	°ia
夜	tīa°	< 丁	°tieng	+ 夜	ia°
訖 ¹¹	dīa°	< 亭	°dieng	+ 夜	ia°
寧	°nīa	< 寧	°nieng	+ 也	°ia

In the *T'ung-Yin*, a Tangut dictionary compiled in A. D. 1132, the Tangut characters formed on the principle of fan-ch'ieh are marked with the two component characters. Following are examples:

𐰇𐰏	phia ²	< 𐰇	phi ¹	+ 𐰏	ia ²
𐰇𐰐	bīa ²	< 𐰇	bi ¹	+ 𐰏	ia ²
𐰇𐰑	mīa ²	< 𐰇	mi ¹	+ 𐰏	ia ²
𐰇𐰒	tīa ²	< 𐰇	ti ²	+ 𐰏	ia ²
𐰇𐰓	thīa ²	< 𐰇	thi ¹	+ 𐰏	ia ²
𐰇𐰔	dīa ²	< 𐰇	dīn ²	+ 𐰏	ia ²

10. See the *Hsü-i-ch'ieh-ching-yin-i* (P. 946A) 續一切經音義 compiled by a Kitan monk Hsi-lin 希麟 about A. D. 984-988.

11. The *Hsü-i-ch'ieh-ching-yin-i* (P. 957B) has the expression 悉𐰇 sĭēt-dīa, which seems to render Sanskrit siddhyā.

𐰇𐰏 khja ²	<	𐰇𐰏 kha ²	+	𐰇𐰏 ia ²
𐰇𐰏 gia ²	<	𐰇𐰏 gi ²	+	𐰇𐰏 ia ²
𐰇𐰏 xia ²	<	𐰇𐰏 xi ¹	+	𐰇𐰏 ia ²
𐰇𐰏 xia ²	<	𐰇𐰏 xiu ¹	+	𐰇𐰏 ia ²
𐰇𐰏 tsja ²	<	𐰇𐰏 tsi ²	+	𐰇𐰏 ia ²

The main use of these fan-ch'ieh characters is to transcribe Sanskrit syllables. Thus Sanskrit *satya* is transcribed as 𐰇𐰏 𐰇𐰏¹² sa¹-tja², while *siddhyā* is transcribed as 𐰇𐰏 𐰇𐰏 𐰇𐰏 𐰇𐰏¹³ si¹-dja² si¹-dja². In addition to the fan-ch'ieh characters used in transcribing Sanskrit sound, there are also fan-ch'ieh characters mainly used in transcribing Chinese sounds. According to the *Wen-hai*, the constituent elements of the following graphs are the same as their fan-ch'ieh:

W526 𐰇𐰏 tsien¹ < 𐰇𐰏 tsi² + 𐰇𐰏 ien¹

used in transcribing Chinese character 晉¹⁴ tsiĕn "name of a dynasty"

W527 𐰇𐰏 tshien¹ < 𐰇𐰏 tshi¹ + 𐰇𐰏 ien¹

used in transcribing Chinese character 秦¹⁵ dziĕn > tsh- "name of dynasty"

III. Chinese Elements in the Tangut Script

1. Graphs similar in shape between Tangut and Chinese.

In discussing the principle of imitative symbols, I have mentioned that the only Tangut graph referred to in the *Wen-hai* as based on a drawing (i. e. 𐰇𐰏 men¹ "door, gate") is, as a matter of fact, an imitation of the Chinese graph 門 𐰇𐰏 men "door, gate". It seems appropriate now to review the matter from the angle of the vulgar script, which, as we have already seen, had an important effect upon the formation of the Tangut script. There is no doubt that the Tangut 𐰇𐰏 corresponds to the Chinese 門, but it remains unclear where the upper part of the graph 𐰇𐰏 comes from. In the *Lung-k'an-shou-chien* there is

12. Nevskij 1960, II-294.

13. *Ibid.*, II-572.

14. *Ibid.*, II-36.

15. *Ibid.*, II-65.

a graph 𪚩 which is explained as vulgar script pronounced as 門¹⁶. The dictionary does not explicitly say that both graphs mean the same thing. But judging from the explanatory notes in the dictionary, this might be what is meant, though the graph as such exists as the first syllable in the compound word 𪚩冬 “asparagus”. The question will remain unsettled until we can check through the Tun-Huang manuscripts of Buddhist sutras.

The *Lung-k'an-shou-chien* has the following graphs as variants of the graph 齒 “teeth”.

𪚩 𪚪 𪚫 古文，音齒，三同 (I, 26A, 7-8)

ku-wen forms, pronounced as 齒, the three graphs are same words

𪚬 舊藏作齒 (I, 26B, 2)

in the older translations of the Buddhist canons it is written as 齒

𪚭 古文，音齒 (II, 66A, 8)

a *ku-wen* form, pronounced as 齒

The Tangut graph 𪚮 *küo*² “teeth” (S 0264), which is translated as 牙 “teeth” in the *Chang-chung-chu* (183), seems to have been derived from these variant forms of 齒 “teeth”. The similarity in graphic shape between the Chinese graph and the Tangut one is quite obvious.

In the Tangut script the graphic element 𪚯 appears in the graphs such as 𪚰 *šion*¹ “iron” (S 2599), 𪚱 *rê*² “copper” (S 2560), 𪚲 *ŋü*¹ “brass” (S 2574), and 𪚳 *tse*² “pewter, tin” (S 2595), and is generally regarded as corresponding to the Chinese radical 金 “metal”¹⁷. The *Lung-k'an-shou-chien* (I, 10B, 2) has the graph 𪚴 listed as the *ku-wen* form of the graph 金. The similarity between Chinese 金 and Tangut 𪚯 is conspicuous.

It is convenient to mention here in connection with the radical 金, that the Tangut graph 𪚵 *kwi*¹ “lock” (S 2550) corresponds to the Chinese graph 鎖 (W 415). Although the *Wen-hai* takes the Tangut graphic element 𪚶 (in 𪚵) to

16. The *Lung-k'an-shou-chien* II, 26A, 5 門 俗，音 門.

17. See Lo Fu-ch'ang (1914: 3).

be an abbreviated form of 𠂔 zwon² “take, hold” (S 0944), it is quite possible that the form 𠂔 is simply derived from the form 𠂔 in 鎖.

The Tangut graph 𠂔 sɔ¹ (S 3750) is explained in the *Wen-hai* (W 916) as consisting of the right parts of the graphs 𠂔 dʒi¹wu¹ “man” and 𠂔 nɛ¹ “animal”. This explanation is unsatisfactory in terms of both semantic and phonetic compounding. The graph is used in the *Chang-chung-chu* to transcribe the Chinese graph 絲 .si (written as 絲 there) and other homophonous graphs. Since the graph does not seem to have any meaning in itself (the *Wen-hai* only says it is used in writing the Tangut family name 𠂔 𠂔 .ia²-sɔ¹), there is a probability that it is simply derived from the Chinese graph 絲. The similarity between them is striking.

2. Graphs similar in composition between Tangut and Chinese.

In the Tangut script there are a group of graphs which resemble their Chinese counterparts in structure. Following are some examples:

- a. Chinese: 呂 lǐwo “family name”

Tangut: 𠂔 li¹wu² “graph used in transcribing 呂”

The Tangut graphic element 𠂔 “mouth” corresponds to the Chinese graph 口 “mouth”. There is a parallelism between Chinese and Tangut in the way that the corresponding elements are assembled.

- b. Chinese: 隻 (L¹⁸I, 45, A5) = 隻 tʃjäk. “one, single”

雙 (L II, 51A, 8-9) = 雙 ʃaŋg “a pair”

Tangut: 𠂔 dzin² “single” (S 2369)

𠂔 𠂔 ʃiow² “double” (S 2381)

The Tangut graph 𠂔 is used in the *Chang-chung-chu* (073) to transcribe the Chinese graph 雙. Since it also means “double”, we are dealing here with a Chinese loanword. Instead of piling up the same elements, they are put side by side.

- c. Chinese: 聞 (L II, 55A, 10, vulgar script for 聞 “hear”)

< 人 man + 耳 ear

18. The *Lung k'an-shou-chien* will be abbreviated to L. hereafter.

Tangut: 𐰚 ni² “hear” (S 3605)

< 𐰚 dzɿwo² man + 𐰚 niu¹ ear

Chinese 拿 and Tangut 𐰚 have the same constituent elements.

d. Chinese: 坐 dzuâ° “sit”

Tangut: 𐰚 dzu² “sit” (S 3749)

Since Tangut 𐰚 “man” corresponds to Chinese 人 “man”, we have here double “man” in both graphs. The lower part of graph is 土 “earth” in Chinese and 𐰚 “below, bottom” in Tangut. Both are similar in form as well as in meaning.

e. Chinese: 忘 miwang° “forget” < 亡 miwang “not” + 心 “heart”

Tangut: 𐰚 “forget” < 𐰚 (abb. of 𐰚 “no”) + 𐰚 (abb. of 𐰚 “heart”)

The graphic structure is the same in both. The Tangut graph 𐰚 is a semantic compound. The Chinese 忘 is a semantic as well as phonetic compound.

f. Chinese: 仙 sǎn “an immortal” < 人 “man” + 山 “mountain”

Tangut: 𐰚 sǎ¹ “an immortal” < 𐰚 “man” + 𐰚 (abb. of 𐰚 “mountain”)

Chinese and Tangut have the same structure. But in the Chinese 仙, 山 sǎn is generally regarded as phonetic. Folk etymology seems to have played a role in producing the Tangut 𐰚.

g. Chinese: 契 khiē° “cut” < (丰 + 刀 “knife”) + 大 big

Tangut: 𐰚 khi² “cut” < 丰 + 𐰚 “knife”

The Tangut 𐰚 khi² is a Chinese loanword. The same element 丰 appears in both graphs.

h. Chinese: 打 (read ta since the 12th century) “strike”

< 𐰚 “hand” + 丁 originally phonetic

Tangut: 𐰚 ta¹ “strike” < 𐰚 “hand” + 𐰚

The Tangut 𐰚 ta¹ is a Chinese loanword. In spite of a totally different explanation in the *Wen-hai*, the Tangut graph contains the same element

“hand” as the Chinese and a vertical stroke which seems to have derived from the Chinese 丁.

- i. Chinese: 佛 *bj̥uət*. “Buddha” < 人 “man” + 弗 *pj̥uət*.

Tangut: 𐞪 *tha*¹ “Buddha” < 𐞪 “man” + 丰

Both Chinese and Tangut graphs contain the radical “man”.


The left part of the Tangut character 丰 resembles Chinese 王 “king” in that both have three horizontal lines and one vertical stroke. The *Wen-hai* explanation for the character 𐞪 is “𐞪散苑𐞪” “man piercing three regions”, quite similar to Chinese explanation for 王, which says “一貫三爲王” “one running through three is king”. The Chinese influence on the formation of the Tangut character can be observed in the similar philosophical speculation.

3. Chinese phonetic elements in the Tangut script.

In the Tangut script the graphs standing for Chinese loanwords are often formed by adding radicals to Tangut graphs with the same meanings. Following are examples:

a. The element 𐞪 added.

Tangut	Chinese	Tangut
𐞪 <i>keu</i> ¹ family name	高 <i>kâu</i> high, family name	𐞪 <i>bin</i> ² high
𐞪 <i>wân</i> ² family name	萬 <i>miwɔn</i> ^o > wan ten thousand, family name	𐞪 <i>khɪ</i> ² ten thousand
𐞪 <i>kon</i> ¹ body	躬 <i>kj̥ung</i> body	𐞪 <i>liwɔ</i> ² body
𐞪 <i>šên</i> ¹ body, person	身 <i>šj̥ên</i> body, person	𐞪 <i>in</i> ¹ self
𐞪 <i>šj̥e</i> ² knowledge	識 <i>šj̥ək</i> to know, knowledge	𐞪 <i>šj̥e</i> ² wisdom
𐞪 <i>šj̥eu</i> ¹ to learn	學 <i>šj̥ək</i> to learn	𐞪 <i>dzi</i> ² to learn
𐞪 <i>tšj̥e</i> ¹ to know	知 <i>tšj̥e</i> to know	𐞪 <i>nwə</i> ¹ to know
𐞪 <i>ɰwän</i> ¹ family name	圓 <i>j̥iwän</i> round	𐞪 <i>won</i> ¹ round
𐞪 <i>šj̥uo</i> ¹ soft	熟 <i>žj̥uk</i> > š- ripe	𐞪 <i>wə</i> ¹ soft

The Tangut graphic element  is interpreted as representing various Tangut characters in the *Wen-hai*. However, the most important thing here is that these graphs are read as in Chinese according to the meanings of the right parts. Without a knowledge of Chinese it would be difficult to understand how these graphs are made up and how they are pronounced.

b. The element 爻 added.

Tangut	Chinese	Tangut
𐰽𐰆 sew ² family name	小 °sǿu small	𐰽𐰆 tsɿ ¹ small
𐰽𐰆 na ¹ south	南 °nəm south	𐰽𐰆 zɿ ¹ south
𐰽𐰆 thɿ ¹ name of a place, lightning	天 °thien sky	𐰽𐰆 mɔ ¹ sky
𐰽𐰆 ɣew ¹ moat	壕 °ɣau moat	𐰽𐰆 dzɿ ¹ moat

The graph 𪛗 *seu*² contains the element 𪛗 *tsi*¹ “small” and is pronounced like Chinese 小 “small”. In the text it is used as a loanword for Chinese 簫 *。sieu* “bamboo flute”, which is homophonous to 小 *。sǎu* “small” in the North-west Chinese dialect in the 12th century. The graph 𪛘 *thi*¹ is pronounced like Chinese 天 *。thien* “sky”, because it contains the abbreviated form of the graph 𪛘 “sky”. Besides, in the transcription of the first syllable in the place name 天都 *。thien-。tuo*, it is used as a loanword for Chinese 電 *dien*^o > *thien*¹⁹ “lightning”, which is homophonous to 天 *。thien*. Here we see how these Tangut graphs acquire their sounds and meanings through the medium of Chinese language. Following are diagrams illustrating these relations:

Tangut		Chinese		Tangut
𐰇𐰺 <i>sew</i> ² “bamboo flute”	←	簫 <i>sieu</i> “bamboo flute”		
	↑	小 <i>sɿäu</i> “small”	←	𐰇𐰺 <i>tsɿ</i> ¹ “small”
𐰇𐰺 <i>thie</i> ¹ “lightning”	←	電 <i>thien</i> ^o < <i>dien</i> ^o “lightning”		
	↑	天 <i>thien</i> “sky”	←	𐰇𐰺 <i>mə</i> ¹ “sky”

(The arrow \longleftarrow indicates a meaning relationship, while the arrow \uparrow indicates a sound relationship.)

19. See Gong 1981: 47ff.

The diagrams show the role Chinese language plays in the formation of Tangut graphs. Below are further examples, given without explanation.

c. The element 丩 added.

Tangut	Chinese	Tangut
𪛗 giəw ¹ family name	牛 .ngiəu cow, ox	𪛗 gu ¹ cow, ox
𪛗 kɿwən ¹ gentleman	← 君 .kiuən gentleman	
	↑ 軍 .kiuən army ←	𪛗 ga ¹ army, soldier
𪛗 dʒiu ² girl, daughter	女 °níwo > ndz- girl, daughter	𪛗 biɛ ¹ girl' daughter
𪛗 tshei ¹ wealth	財 .dzai > tsh- wealth	𪛗 ɿɛ ¹ good fortune, happiness

d. The element 𠂔 added.

Tangut	Chinese	Tangut
𪛗 tsiwan turn round	轉 °tɿwän turn round	𪛗 .dʒiɛ ² turn round
𪛗 xwən ¹ place name	分 .piuən > f- divide	𪛗 thɿɛ ¹ divide
𪛗 sən ¹ place name	神 .dʒiɛn > s- god	𪛗 nɿɛ ¹ god
𪛗 giəw ¹ name of a plant	牛 .ngiəu cow, ox	𪛗 gu ¹ cow, ox
𪛗 tsjɛ ¹ branch	枝 .tsjɛ branch	𪛗 sɛw ¹ branch

e. The element 𠂔 added.

Tangut	Chinese	Tangut
𪛗 lwen ¹ person name	輪 .liuən wheel	𪛗 dʒiɛ ¹ wheel
𪛗 xiəw ¹ to rest	休 .xiəu to rest	𪛗 siwu ¹ to rest

f. Other elements added.

Tangut	Chinese	Tangut
𪛗 xan ¹ Chinese	漢 xän° Chinese	𪛗 za ¹ Chinese
𪛗 siu ² place name	樹 žiu° > s- tree	𪛗 phu ² tree
𪛗 sin ¹ nature	性 siäng° nature	𪛗 tsɿ ² nature
𪛗 kən ¹ family name	金 .kiäm gold	𪛗 kei ¹ gold

4. Chinese semantic elements in the Tangut script.

In the Tangut script there are some graphs, the composition of which is incomprehensible, unless Chinese semantic elements are assumed to be present. For instance, the *Wen-hai* says the graph 𐞑𐞑 $s_1wə^1$ "grief, sad" has the graph 𐞑𐞑 su^2 "to be like" as its constituent. Since no semantic connexion seems to exist between them, one might erroneously think that 𐞑𐞑 su^2 is the phonetic in 𐞑𐞑 $s_1wə^1$ and base the study of the range of sound variation within a Tangut phonetic series on such kind of examples. But there is one thing worthy of our notice: The graph 𐞑𐞑 su^2 is used in translating the Chinese word 猶 $o.iəu$ "to be like"²⁰ in the *Lun-yü*, *The Analects of Confucius*, and there is another graph 𐞑𐞑 $əw^2$ which is read 猶 $o.iəu$ (the discrepancy between $əw^2$ and $o.iəu$ can be attributed either to the difference in sound systems between Tangut and Chinese or to the difference in reconstructions. Furthermore, the Chinese reconstruction $o.iəu$ is that of Middle Chinese around the 6th century and we are dealing here with the Tangut sound system of the 12th century. The sound change should also be taken into consideration.) In the *Lun-yü*, the Tangut 𐞑𐞑 $s_1wə^1$ "grief, sad" is used in translating Chinese 憂 $o.iəu$ "grief, sad"²⁰ which is homophonous to 猶 $o.iəu$, except in tone and the presence or absence of the glottal stop. These differences are always disregarded in the transcription. All that which has been pointed out above can not be a mere coincidence but reveals the way Tangut forms graphs through the medium of the Chinese language. The sound and meaning relationships can be illustrated in a diagram as follows:

Tangut		Chinese		Tangut	
𐞑𐞑 $s_1wə^1$	grief, sad	←	憂 $o.iəu$	grief, sad	
		↑	猶 $o.iəu$	to be like	
			←	𐞑𐞑 su^2	to be like
				(cf. 𐞑𐞑 $əw^2$ pronounced like 猶 and 憂)	

The difference between this example and the examples we have given in the preceding section is that in this case there is no sound relationship between Tangut

20. Kolokolov and Kyčanov (1966: 105).

紆₁siwə¹ “grief” and Chinese 憂 °iəu “grief”. The relationship is semantic in nature. In the preceding section there is always a sound relationship. The Tangut graphs stand always for Chinese loanwords, therefore the connection between Tangut and Chinese is easier to discover. But in this case the connection is hidden. It can only be discovered via semantic equivalences in both languages. Following are further examples:

Tangut		Chinese		Tangut
𐞑 lhɪ ² dust	←	塵 °diěn dust		
	↑	陳 °diěn > tsh- old	←	𐞑 tshên ¹ old
𐞑 dzwi ² a censor	←	史 °ši a censor		
	↑	使 °ši an envoy	←	𐞑 šiə ¹ a messenger
		a messenger		

IV. Concluding Remarks

In the foregoing I have tried to outline the scope of Chinese influence on the formation of the Tangut script. I have traced not only the principles of formation, but also the shape and structure of some individual Tangut graphs back to Chinese origins. The most conspicuous thing in the Tangut script is that Chinese phonetic and semantic elements are mingled together with Tangut elements in forming graphs. Two examples will suffice to illustrate this situation. In translating Buddhist canons from Chinese into Tangut, the following transcriptions are noted in Nevsky's dictionary:²¹

(Nevsky II, 184)

𐞑 𐞑 𐞑 𐞑 𐞑

zia²-thi¹-diə¹-mo² liə¹

若 提 碎 摩 論

ńziak-diei-suai-muā luən

(Nevsky II, 181)

𐞑 𐞑 𐞑 𐞑 𐞑 𐞑

kin¹-pa¹-iə²-iə²-xi¹-na¹

睽 波 咻 咻 醯 那

šiām-puā-xiəu-xiəu-xiei-nā

21. The Chinese translation of the canon has no meaning—the characters were chosen to represent the sounds of the canon as it was originally transmitted. Later, the Tangut translations were also transcriptions of sounds rather than meaning.

The third syllable in the first example (𐞢 $diə^1$) is used in transcribing Chinese 碎 $suai^o$, because both words mean “broken, small pieces”. The third and fourth syllables in the second example are the same graph (𐞢 $iə^2$), which is used to transcribe Chinese 咻 $xiəu$, because the Tangut 𐞢 $iə^2$ means “to rest” and is synonymous to Chinese 休 $xiəu$ “to rest”. 休 and 咻 are homonyms in Chinese. These two examples show that Tangut graphs are actually read like Chinese words. In the Tangut dictionary there are graphs 𐞢 $swei^1$ “broken, small pieces” and 𐞢 $xieu^1$ “to rest” which are loanwords from Chinese 碎 $suai^o$ “broken, small pieces” and 休 $xiəu$ “to rest” respectively. These two graphs are made either by changing the left and right sides of the original graph (from 𐞢 to 𐞢 = 𐞢) or by replacing a part of the graph (from 𐞢 to 𐞢). No matter whether the formation of these two graphs precedes the translation or the other way round, the intervention of Chinese language in the Tangut script is a fact which should not be overlooked.

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西夏文字中的漢字漢語成分

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(摘 要)

西元一〇三六年頒布的西夏文字，一般咸認為受了漢字漢語相當大的影響。本文探討西夏文字中的漢字漢語成分，首先舉例說明西夏文字的構成大致係據「六書」的原理；繼而指出西夏文字中若干表面上看來似乎非常特殊的造字方法如：一、互換左右偏傍造同義字的方法，二、利用否定詞造會意字的方法，及三、併合反切上下字造併音字的方法等，實乃受當時通行的漢字俗字影響而然（這些俗字均收錄在西元九九七年遼釋行均所編的龍龕手鑑一書中），並非另出機杼或別有來源。

在個別的西夏文字構成方面，本文分別討論下面幾種字例：一、西夏文字整個字形採自漢字，二、文字結構仿倣漢字，三、漢語語音成分構成西夏形聲字，四、漢語語意成分構成西夏會意字。

最後提到在西夏所譯佛經中有西夏字依其字義徑讀漢字音及西夏字改易偏傍以造漢語借詞的字例。這種情形顯示，漢語的語音與語義與西夏文字結合，構成西夏文字的音義層面。這樣看來，漢語介入西夏文字是不容忽視的事實。