Universal Multiple–Octet Coded Character Set
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Title: Final proposal to add 22 characters for Tai Don writing system

Source: Kushim Jiang (姜兆勤)
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This proposal is a revised version of:

- L2/20–207: "Preliminary proposal to encode the Tai Khao script in UCS"
- L2/22–098: "Updated proposal to encode the Tai Don script in UCS"

It incorporates comments made by the UTC Script Ad Hoc Committee and other experts in:

- L2/21–016: "Recommendations to UTC #166 January 2021 on Script Proposals"
- L2/22–068: "Recommendations to UTC #171 April 2022 on Script Proposals"
- L2/20–208: "A response to Kushim Jiang, 'Preliminary proposal to encode the Tai Khao script in UCS"
- L2/22–099: "Comments on 'Updated proposal to encode the Tai Don script"
- · Eiso Chan: "Comments on the Tai Don or Tai Khao encoding"

1 Introduction

There are more than 1.26 million Dai people in China (2010) (HE, 2014), mainly gathered in the border areas of Xishuangbanna Dai Autonomous Prefecture and Dehong Dai Jingpo Autonomous Prefecture in southwestern Yunnan Province. The Dai ethnicity has its own languages and scripts, and is a multi-dialect and multi-script ethnic ethnicity. The Dai languages are in the Zhuang-Tai languages of the Zhuang-Dong languages of the Sino-Tibetan languages and are divided into four dialects: Xishuangbanna dialect, Dehong dialect, Jinping dialect and Hongjin dialect (Zhou & Luo, 2001). And there are several kinds of writing systems used to record the Dai languages in China (HE & Xiong, 1999).

The Jinping Dai writing system is used to record the Jinping dialect of the Dai languages, and is mainly found in the Dai area of Jinping Miao and Yao Dai Autonomous Prefecture in Yunnan Province, with a population of 20689 (Bureau of Statistics in Jinping, Mar 2019). As the local Dai people call themselves /tăi⁴³ don⁵⁵/ or /tăi⁴³ xau³³/, both meaning "White Dai", the writing system is also known as Tai Don writing system or Tai Khao writing system. The writing system is also used in Vietnam, mainly in Lai Châu Province, Sơn La Province and Điện Biên Province (Lan et al, 2015); in Laos, mainly in Bolikhamsai Province (Hao et al, 2016); and in Thailand.

With the implementation of the Belt and Road strategy, especially the launch of Chinese Language Resources Protection Project by the Ministry of Education and the State Language Commission in 2015, a strong impetus is given to the rescue and protection of minority languages. The Jinping dialect of the Dai languages was included in the 2015 language preservation project and the project was completed. This is the first time that this dialect has been approved as a special research project. In May 2019, with the support of the Jinping County Party Committee and the county government, the Jinping County Cultural Centre hosted the first Jinping Dai writing system standardization seminar, discussing the normalization, standardization and informatization of the Jinping Dai writing system. Experts from the Office of the Steering Committee for Ethnic Minority Languages in Yunnan Province, Yunnan Minzu University and other Dai experts and scholars from Honghe Prefecture reached a consensus on how to solve the problems of irregularities in Jinping Dai writing system and inconsistencies between the written and spoken languages, and initial results were achieved in the standardization process.

2 Script Details

2.1 Script Name

Ngô & Brase, 2006 and Brase, 2007 attempt to construct the Unified Tai character set for use in Vietnam, which leads to the corresponding script name being identified as the Tai Viet script. Specifically, the current character subset includes a complete set of alphabets for the Tai Dam writing system, with other three pairs of consonant letters used in the Tai Don writing system. The authors of the two aforementioned documents consider the current subset to be phonetically adequate for the Tai Don language, but still formally incomplete. This argument suggests that the content of the Jinping Dai writing system (Tai Don writing system) should be integrated into the Tai Viet script class, and that the relevant characters should be added to the Tai Viet block.

According to the results of the intercharacter relationship analysis, it is reasonable to group the characters used in the Tai Don writing system with those used in the Tai Dam writing system. However, the demands

for use from China are not compatible with the name Tai Viet. Therefore, Tai Don-Tai Dam script or Tai Dam-Tai Don script is a reasonable alternative name, which should also lead to a change in the block name.

2.2 Encoding Model

The existing encoding model is a graphetic model based on visual order, which is compatible with the soon–to–be–completed Tai Don writing system. Therefore, the character will be added either as a base character or as a combining mark and no rearrangement will occur during shaping.

2.3 Character Name

The character name consists of the writing system name with the Latinization form corresponding to the character. There is currently no Latinization scheme for Tai Don language in use. This proposal gives a Latinization scheme modified from the Latinization scheme of New Tai Lue script showing below.

/b/	/?/	/d/	/ts/	/k/	/x/	/kʰ/	/h/	/t/	/tʰ/	/p/
В	Q	D	TS	K	X	KH	Н	T	TH	P
/p ^h /	/ts ^h /	/f/	/s/	/n/	/m/	/1/	/ŋ/	/v/	/j/	/n/
PH	TSH	F	S	N	M	L	NG	V	Y	NY
/ă/	/a/	/i/	/e/	/ε/	/ə/	/o/	/u/	/ə/	/ɯ/	
A	AA	I	EE	EH	O	OO	U	E	UE	

2.4 Consonants

See **Figure 1** and **Figure 2** for a list of 44 consonant letters (numbered 1 to 44) used in Tai Dam writing system and Tai Don writing system. The images are from *Bång chữ Thái* quoted by Chan, 2022. In two tables, the fourth column contains the consonants in the Tai Dam writing system, with the corresponding codepoints marked yellow on the left. From the 37th letter to the 42nd letter are consonants for Tai Don language, so the codepoints on the left are enclosed with square brackets.

The fifth to ninth columns give the consonants in Tai Don writing systems used in Mường Lay (Điện Biên), Phong Thổ (Lai Châu), Phú Yên (Sơn La), Mộc Châu (Sơn La) and Jinping (Yunnan) respectively. For Jinping writing system, the unencoded characters are marked in red and the corresponding codepoints are marked in yellow on the right. See **Table 1** for unencoded consonants in Jinping Dai writing system.

Số hứ tự	Tên chữ	Thống nhất	Thái	Muờng	Phong Thổ	Phù	Mộc	Jin	
			đen	Lay	1110	Yên	Châu	Ping	
4	Во	AA9A	V	V	V	V		$\sqrt{}$	AA9/
2	Во	AA9B	w	w	w	m	w	W	AA9
3	Po	AA9C	5	5	J	5	5		AA9
4	Po	AA9D	W	nl	w	W	W	n	
5	Do	AAA4	8	8	vet	f	5	अप	
6	200	AAA5	v	0	1	1	1	√ ,	AAA
7	50	AA8E	×	ne	کور	x	×	n	
8	só	AA8F	al.	w	V	n	no	ne	
в	Pho	AA9E	d	र्ध	á	d	d	n	AA9
10	Pho	AAA1	w.w	ul	ul	u	m	ns,	AAA
11	no	AA98	vel	und	vul	vul	vil	આ	AA9
12	420	AA99	u	u	u	W	u .	Ц	AA9
13	mo	AAA2	ענו	vii	vw	לבט	לגט	ow_	
14	nio	AAA3	لا	W	W	N	كد	W	AA9
15	ngo	AA88	vil	v16	vib	כמט	vis	916	
16	rigo	AA89	6	6	6	3	2	6	AA8
17	V0	AAAA	מיט	เพ	VID	016	vib	917	AAA
18-	VP	AAAB	2	2	3	6	6	3	AAA
19	to	AA94	m	m	M	m	m	no	AA9
20	10	AA95	n	u	n	n	n	r	AA9
21	Ko	AA80	И	n	n	2	6	n	AA8
12	Ko	AA81	· A	M	W	x	5	n	
2 3	Ho	AAAC	vī	vı	٧٦	Vi	t/I	n	AAA
24	110	AAAD	v	ы	63	N	vo	CS	AAA

Figure 1 Consonants in Tai Don-Tai Dam script (Bảng chữ Thái)

Số thứ tư	Tên chữ	Thống nhất	Thái đen	Mường Lay	Phong Thổ	Phù Yên	Mộc Châu	Jin Ping	
25	Jeho	AA84	N	al	4	8	8	1/8	AA84
26	Kho	AA85	3	A	y	A	y	ŋ	AA85
27	D0	AA92	0	10	VO	0	0	16	
28	30	AA93	u	u	M	М	un	Ŋ	AA93
19	Lo	AAA8	v	v	n	M	n	9)	AAA
30	Lo	AAA9	Y			Y	8		AAA
31	0	(AAAE)	A	y #	y	8	0	ŋ	AAA
32	ě	(AAAF)	र्व	of	d	断	19	9	AAAI
33	tho	AA96	2	1	7	Ž,	1	η	AA9
34	thio	AA97	y	y	N	3	2	B	AA9
35	aiho	AA90	vy	wy	vuz	vy	vy	SWS	
36	nitio	AA91	ŋ	ng	m	ŋ	7	W}	
37	Kh'	[AA82]	-	nl	in to	-	-	is	AA8
38	kh.	[AA83]	-	7	wy,	-,	-,	wy M	AA8
39	Pho	[0000]	d		d	d	d		AAA
40	Pho	[AA9F]	M	25	5	3	3	<u>n(</u> 1(
41	tro	[AA8C]	-	4	u	8-	-	17	AA8
42	£ 20	[AA8D]	-	7	nj.	-	-	7	AA8
43	The	AA8A	u	1	u	ıſ	u		AA8
44	Cho	AA8B	2	M	Tr	7	2	m	AA8I
45	ming	AADC	N	al	al	M	N		
46	Kon	AADB	AF	Al	26	Al	At		

Figure 2 Consonants in Tai Don-Tai Dam script (Bång chữ Thái)

The unification process, which is also a graphetic unification process, is based on Brase, 2008, and the result in this proposal is broadly similar to the reference. The differences come from the standardized glyphs from Jinping, stated in Dao *et al*, 2019, selected in the standardization meeting held in Jinping County, influencing the unification decision. All these differences are:

The characters \mathcal{N} and \mathcal{N} are uncertain whether to unify to x and \mathcal{N} in Brase, 2008, and disunified to x and \mathcal{N} in this proposal (see **Figure 3**). x comes from the x shape, \mathcal{N} comes from the bent \mathcal{N} shape, but \mathcal{N} and \mathcal{N} come from turned \mathcal{N} shape. So, their cognition is different from each other.

TAI VIET LETTER	LOW SO	x	χ	/s1/	W Glyph 16	/s1/	W Glyph 16	/s1/	W Glyph 16	/s1/	W Glyph 16	/s1/
TAI VIET LETTER	HIGH SO	al	N	/s4/	W Glyph 17	/s4/	W Glyph 17	/s4/	W Glyph 17	/s4/	W Glyph 17	/s4/
7.	s o s o	AA8E AA8F	× N	ng ng	·	of last	x N	w w		ne		

Figure 3 Consonants in Tai Don-Tai Dam script

The characters **W** is unified to **W** in Brase, 2008, but disunified to **W** in this proposal (see **Figure 4**). **W** comes from the gyrating **W** shape, but **W** comes from **W** shape, which is disunified from Ω in Brase, 2008, so their cognition is different from each other.

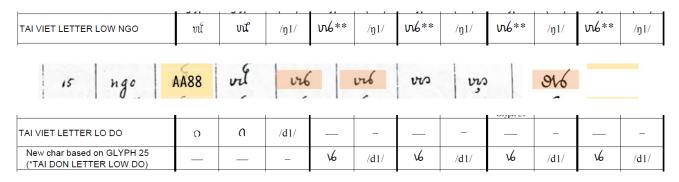


Figure 4 Consonants in Tai Don-Tai Dam script

The characters W₃ is disunified to W₃ in Brase, 2008, but unified to W₃ in this proposal (see **Figure 5**). Brase, 2008 shows W₃ shape for the character, which is actually different from the standardized shape determined by Jinping, so it is reasonable to unify them.

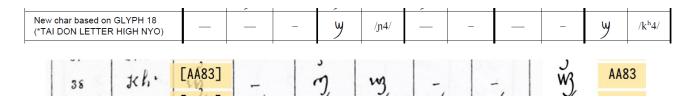


Figure 5 Consonants in Tai Don-Tai Dam script

• The characters n_y is unified to W in Brase, 2008, but disunified to W in this proposal (see **Figure 6**). W comes from a tailed W, while n_y comes from a tailed n_y , which is disunified to W in Brase, 2008, so their cognition is different from each other.

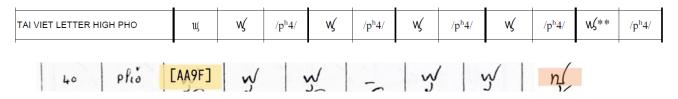


Figure 6 Consonants in Tai Don-Tai Dam script

Table 1 Unencoded consonant characters in Jinping Dai writing system

Codepoint	Glyph	Character Name	Value
AAC3	n	TAI DON LETTER HIGH KO	/k ₂ /
AAC4	916	TAI DON LETTER LOW NGO	/ŋ ₁ /
AAC5	n	TAI DON LETTER LOW SO	/s ₁ /
aac6	ne	TAI DON LETTER HIGH SO	/s ₂ /
AAC7	912	TAI DON LETTER LOW YO	/j ₁ /
AAC8	nl	TAI DON LETTER HIGH PO	/p ₂ /
AAC9	ns.	TAI DON LETTER HIGH PHO	/p ^h ₂ /
AACA	ow/	TAI DON LETTER LOW MO	/m ₁ /
AACB	16	TAI DON LETTER LOW DO	$/d_1/$
AACC	ows	TAI DON LETTER LOW NYO	$/n_1/$
AACD	w³	TAI DON LETTER HIGH NYO	$/n_{2}/$

2.5 Vowels

See **Figure 7** for a list of 18 finals (numbered 1 to 18) used in Tai Dam writing system and Tai Don writing system. The image is also from *Bång chữ Thái*. The fourth column contains the consonants in the Tai Dam writing system, with the corresponding codepoints marked yellow on the left. The fifth to eighth columns give the consonants in Tai Don writing systems used in Phong Thổ (Lai Châu), Mộc Châu (Sơn La), Yên Châu (Sơn La) and Jinping (Yunnan) respectively. For Jinping writing system, the unencoded characters are marked in red and the corresponding codepoints are marked in yellow on the right. The unification process is identical to that of Brase, 2008, that is, there are four unencoded characters. See **Table 2** for unencoded vowels in Jinping Dai writing system.

Table 2 Unencoded consonant characters in Jinping Dai writing system

Codepoint	Glyph	Character Name	Value
AACE	្ចុ	TAI DON MAAI KAA	/a/
AACF	़	TAI DON MAAI TSAM	/ə/
AADO	Vб	TAI DON MAAI KAT	/at/
AADI	ે	TAI DON MAAI KU	/u/

2.6 Tones

Jinping Dai writing system use U+AABF of for tone 2 and tone 5, and U+AAC1 of for tone 3 and tone 6. Dao et al, 2019 also mentions that, the /-k with rusheng tone becomes /-?/ and it is necessary to introduce text element to represent the glottal stopper, so of should be encoded as a Tai Don mark. See **Table 3** for the unencoded tone mark and **Figure 8(a)**, **Figure 9(d)** for the evidence.

Table 3 Unencoded consonant characters in Jinping Dai writing system

Codepoint	Glyph	Character Name	Value
AAD2	៍	TAI DON MAAI QAQ	21

Số thứ tư .	Tên may	Chữ Thống nhất	Vùng Thái đen	Lai Châu Phong thổ	Mộc Châu	Yên Châu	Jin Ping		· ·
1	Khit	AAB7	/	"Fray "	~(~	6	AAB7	
2	.ca	AAB1	1	2 hay :	1	2	•	AAB1	0
3	cay	AABC	4	5	٤,	8	{	AABC	"
1	Ke	AAB5	"	11	.11	11	"	AAB5	
5	- Cari	AABB	9	9	9 47	7 (47	9	AABB	
6	-cam	AABE	يت		1,	-	6	AABE	
7	.Cau	AAB9 AAB9	(1	11	11	11	6 -6	AAB9	AAB9
8	.can	AABD	17	UT	it	ut	υf	AABD	
9	-cua	AABA	8	8(4)	f.	86	W	AABA	
10	cong	AAB6		((cung)	(-	(.	(AAB6	े
11	. cu	AAB4	,	,			0	AAB4	
12	cua	AAB9	2	1(4)	7	2	6	AAB9	
13	- 03	(1		((
14	- Cir	AAB3					र्	AAB3	
15	Kia	AAB8	7	(KŽ)	*	7	8	AAB8	
16	Ky	AAB2	1	1	1	1	ੰ	AAB2	
17	cang	AAB0	-	/	1	/	č	AAB0	
18	cat			25			16		
11	guy	20	20	24	24	20			
20	que	111	u 24	(C)	1424	11 24			
21	-quò	15	7	Y	X	X			
22	greya	1	×	V	58	20			

Figure 7 Vowels in Tai Don-Tai Dam script (Bång chữ Thái)

2.7 Symbols and Punctuation

There are four symbols and six kinds of punctuation used in Jinping Dai writing system. See **Table 4** for all the symbols and punctuation used in Jinping Dai writing system.

Table 4 Symbols and punctuation characters in Jinping Dai writing system

Codepoint	Glyph	Character Name	Value
AADC	W [*]	TAI VIET SYMBOL NUENG	/nuŋ\/
AADB	n	TAI VIET SYMBOL KON	/kun\/
AAD3	ý	TAI DON SYMBOL BON	/bən+/
AAD4	w	TAI DON SYMBOL MAA	/ma√/
AADD	18	TAI VIET SYMBOL SAM	/săm√/
AAD7	8	TAI DON SYMBOL MAAI MEHT	/mai+ mɛt7/
AAD8		TAI DON SYMBOL MAAI SAM-I	/mai+săm\/
AAD9		TAI DON SYMBOL MAAI SAM-2	/mai+ săm\/
AADE	ybilly	TAI VIET SYMBOL HO HOI	/mai+ săm\/
AADA	VSÜÜ	TAI DON SYMBOL MAAI SAM-3	/mai∃ săm√/

2.8 Collation

The sort order for Jinping Dai writing system is as below with reference to the description in **Appendix A**.

$$0 < 9 < n < n < 6 < \sqrt{m} < 6 < \sqrt{$$

3 Character Properties

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AAC3; TAI DON LETTER HIGH KO; Lo; 0; L;;;;; N;;;;;
AAC4; TAI DON LETTER LOW NGO; Lo; 0; L;;;;; N;;;;;
AAC5; TAI DON LETTER LOW SO; Lo; 0; L;;;;; N;;;;;
AAC6; TAI DON LETTER HIGH SO; Lo; 0; L;;;;; N;;;;;
AAC7; TAI DON LETTER LOW YO; Lo; 0; L;;;;; N;;;;;
AAC8; TAI DON LETTER HIGH PO; Lo; 0; L;;;;; N;;;;;
AAC9; TAI DON LETTER HIGH PHO; Lo; 0; L;;;;; N;;;;
AACA; TAI DON LETTER LOW MO; Lo; 0; L;;;;; N;;;;
AACB; TAI DON LETTER LOW DO; Lo; 0; L;;;;; N;;;;;
AACC; TAI DON LETTER LOW NYO; Lo; 0; L;;;;; N;;;;;
AACD; TAI DON LETTER HIGH NYO; Lo; 0; L;;;;; N;;;;;
AACE; TAI DON MAAI KAA; Mn; 220; NSM;;;;; N;;;;;
AACF; TAI DON MAAI TSAM; Mn; 220; NSM; ;; ;; N; ;; ;;
AADO; TAI DON MAAI KAT; Lo; 0; L;;;;; N;;;;;
AAD1; TAI DON MAAI KU; Mn; 230; NSM; ; ; ; ; N; ; ; ;
AAD2; TAI DON MAAI QAQ; Mn; 230; NSM; ;; ;; N; ;; ;;
AAD3; TAI DON SYMBOL BON; Lo; 0; L; ;; ;; N; ;; ;;
AAD4; TAI DON SYMBOL MAA; Lo; 0; L; ;; ;; N; ;; ;;
AAD7; TAI DON SYMBOL MAAI MEHT; Po; 0; L;;;;; N;;;;;
AAD8; TAI DON SYMBOL MAAI SAM-1; Po; 0; L;;;;; N;;;;;
AAD9; TAI DON SYMBOL MAAI SAM-2; Po; 0; L;;;;; N;;;;;
AADA; TAI DON SYMBOL MAAI SAM-3; Po; 0; L;;;;; N;;;;;
```

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Appendix A Normalization of the Phonology of Jinping Dai writing system

Dao et al, 2019 describes the standardized Jinping Dai orthography, shown below.

A.1 Normalization of initials

There are 44 initials in Jinping Dai writing system, traditionally known as $\mathfrak{M} \mathcal{W}$ [to³³ mɛ⁵²] ("mother character"), divided into the high level group ($\mathfrak{M} \mathcal{W}$ [to³³ bau³³], "light character") and the low level group ($\mathfrak{M} \mathcal{W} \mathcal{W}$ [to³³ nak⁵⁵], "heavy character"). There are 22 phonemes, traditionally arranged in the following order:

9	[?ɔ³³]	9 ааае	ď	$[p^h \mathfrak{d}^{33}]$	M AAAO
9	[?ə⁴³]	9 ааағ	nl	$[p^h o^{43}]$	nd AAC9
n	[kə ⁴³]	n aa80	ow	$[mo^{33}]$	OW AACA
n	[kə ⁴³]	P AAC3	W	$[mo^{43}]$	W AA9D
18	$[xo^{33}]$	V8 AA84	M _z	[fɔ³³]	n aage
ŋ	$[xo^{43}]$	η AA85	ns	[fə ⁴³]	n AAAI
916	[ŋɔ³³]	Old AAC4	SVS.	$[vo^{33}]$	AAAA CVO
6	[ŋɔ ⁴³]	6 AA89	Э	[və ⁴³]	Э ааав
V	[tso ³³]	V _{AA8A}	ગ	$[lo^{33}]$	9 AAA8
m rr	[tsə ⁴³]	М АА8В	y	$[lo^{43}]$	J AAA9
n ^y	[sɔ ³³]	W AACS	ગ	[hə³³]	\mathfrak{R} aaac
ne	[sə ⁴³]	ne AAC6	S	[hə ⁴³]	CO AAAD
ञन्त	[jɔ³³]	on AAC7	16	$[do^{33}]$	V6 AACB
\forall	[jə ⁴³]	√ AAA5	19	$[da^{43}]$	MAA93
no	[tɔ³³]	MO AA94	VX _	[bɔ³³]	V AA9A
13	[tə ⁴³]	N AA95	W	[bə ⁴³]	W AA9B
η	$[t^h \mathfrak{d}^{33}]$	η aa96	1/8	$[k^h \mathfrak{d}^{33}]$	18 AA82
ro Ca	$[t^{h}\mathfrak{d}^{43}]$	10 AA97	W3	$[k^h \mathfrak{d}^{43}]$	W3 AA83
91	$[no^{33}]$	OL AA98	17	$[ts^h \mathfrak{d}^{33}]$	L AA8C
Ŋ	$[no^{43}]$	L AA99	<u> </u>	$[ts^h \mathfrak{d}^{43}]$	AA8D
$\sqrt{}$	[po ³³]	V _{AA9} C	om?	[no ³³]	9W3 AACC
ทไ	[pə ⁴³]	n AAC8	wš	$[n_0^{43}]$	W AACD

With the introduction of Chinese loanwords, round-labialized phonemes that had disappeared have reappeared, and a number of phonemes have been added that were not present in the original Jinping Dai language, including:

no	$[k^w \mathfrak{d}^{43}]$	П аа80 О ааав	Vo	[tswa ³³]	V AA8A	Э ааав
no	$[k^w \mathfrak{d}^{43}]$	7 AAC3 O AAAB	უ၁	[tswa ⁴³]	т аа8в	Э ааав
180	$[x^w \mathfrak{d}^{33}]$	<i>1</i> 8 аа84 О ааав	r§o	$[k^{hw} o^{33}]$	18 AA82	Э ааав
ŋo	$[x^w \mathfrak{d}^{43}]$	ŋ аа85 О ааав	wso	$[k^{hw} \mathfrak{d}^{43}]$	W AA83	Э ааав

A.2 Normalization of finals

There are 83 finals in Jinping Dai writing system, including 18 MDW (10³³ ma:i³³] ("symbols") and 65 MDW (10³³ phui⁵⁵] ("matching characters"), they are (Take n as the position of the consonant):

Mono	Monophthong (9 in 11 shapes)			[at]	П АА80	V AADO	
n.	[a]	П AA80 3 AABI	nv	[ap]	<i>n</i> AA80	б ааве	√ AA9A
er N	$[a^{(25)}]$	€ AAAC AACE	Match	ing Fina	l (65 in 67	shapes)	
	[i]	N AA80 С ААВ2	n₃√	[aːi]	N AA80	3 AABI	√ AAA5
ñ	[e]	N аа80 🌷 аав8	no√	[əi]	N AA80	9 ааае	√ AAA5
u n	[ε]	« AAB5 N AA80	n₩√	[oi]	N AA80	W AABA	√ AAA5
no	[ə]	<i>п</i> аа80 9 ааае	,	[ui]	N AA80	О ААВ4	V AAA5
nļ	$[\mathfrak{d}^{(43)}]$	n AAC8 AACF	ņ√ n√	[wi]	n aa80	S AAB3	V AAA5
nW	[o]	N AA80 W AABA	'n√	[əi]	n aa80	≤ ААВ7	V AAA5
n n	[u]	N AA80 _ AAB4	nos	[aːu]	n aa80	3 AABI	Э ааав
	[w]	N аа80 баав3	ĥo	[iu]	n AA80	AAB2	Э ааав
ń	[ə]	n аа80 баав7	ñо	[eu]	n AA80	баав8	Э ааав
Comp	osite Pho	oneme (9 in 9 shapes)	u no	[ɛu]	« AAB5	П АА80	Э ааав
ξn	[ai]	EAABC N AA80	ńo	[əu]	<i>n</i> AA80	о ́ аав7	Э ааав
9 N	[aul]	P AABB N AA80	n•6	[aːŋ]	<i>n</i> AA80	3 AABI	б аа89
ini	[au]	€ AAB9	noU	[aːn]	И АА80	3 AABI	L AA99
ň6		n ааво	now	[a:m]	N AA80	3 AABI	\sqrt{AAAB}
กป _ั	[aŋ]	/	non	[aːk]	<i>n</i> AA80	3 AABI	П аа80
'nW	[an]		no16	[aːt]	N AA80	3 AABI	V6 AACB
ňn	[am] [ak]	№ № № № № № № № №№ № № № № № № № № № № № № № №№ № № № № № № № № № №№ № № № № № № №№ № № № № № №№ № № № № №№ № № № № №№ № № № №№ № № № №№ №№ № №№ №<!--</th--><th>$n \circ \sqrt{}$</th><th>[aːp]</th><th>П АА80</th><th>3 AABI</th><th>V_{AA9A}</th>	$n \circ \sqrt{}$	[aːp]	П АА80	3 AABI	V _{AA9A}

ĥб	[iŋ]	N AA80	் AAB2	б аа89	กษป	[on]	N AA80	W aaba	
ñЦ	[in]	П АА80	் AAB2	IJ AA99	nww	[om]	П АА80	W aaba	WAAAB
ĥ₩	[im]	П АА80	் AAB2	WAAAB	nwn	[ok]	П АА80	W aaba	П аа80
п̂п	[ik]	П АА80	் AAB2	П аа80	nw16	[ot]	П АА80	W aaba	VO AACB
ñъ	[it]	N AA80	் AAB2	V6 AACB	nW $$	[op]	N AA80	W aaba	V _{AA9A}
ĥ√	[ip]	N AA80	AAB2	V AA9A	<u>n</u> 6	[uŋ]	N AA80	S AAB4	б аа89
ñ6	[eŋ]	N AA80	о ́ аав8	б аа89	(n/6	[uŋ]	(AAB6	M AAC5	б аа89
ñЦ	[en]	N AA80	б аав8	MA99	ņЦ	[un]	n aa80	ў аав4	L AA99
ñw	[em]	N AA80	о ́ аав8	WAAAB	nw	[um]	N AA80	ې AAB4	WAAAB
ñn	[ek]	N AA80	о ́ аав8	П аа80	3 VW	[um]	V AA8A	S AADI	WAAAB
ñvo	[et]	N AA80	баав8	V6 AACB	ņn	[uk]	n aa80	, AAB4	И аа80
ñV	[ep]	N AA80	б аав8	V AA9A	ŋv6	[ut]	n aa80	ў аав4	W AACB
un6	[εŋ]	₩ AAB5	N AA80	б аа89	n√	[up]	n aa80	, аав4	V AA9A
แทป	$[\epsilon n]$	« AAB5	И АА80	AA99 كا	n6	[ພŋ]	n aa80	S AAB3	б аа89
unw	[ɛm]	₩ AAB5	N AA80	WAAAB	'nЦ	[wn]	n aa80	б аавз	AA99
unn	[ɛk]	₩ AAB5	N AA80	П аа80	ńw	[wm]	n aa80	آ AAB3	WAAAB
unv 6	[ɛt]	₩ AAB5	N AA80	V6 AACB	ńn	[wk]	n aa80	́ аавз	И аа80
un√	[εp]	₩ AAB5	N AA80	V AA9A	nv6	[ut]	n aa80	S AAB3	W AACB
n96	[əŋ]	N AA80	\mathfrak{G} aaae	б да89	'nν	[mp]	n aa80	S AAB3	V AA9A
nou	[ən]	N AA80	\mathfrak{G} aaae	1 AA99	n6	[əŋ]	n aa80		б аа89
now	[əm]	N AA80	\mathfrak{G} aaae	WAAAB	กป	[ən]	n aa80	(AAB7	AA99
non	[ək]	N AA80	\mathfrak{G} aaae	И аа80	ńw	[əm]	n aa80	€ AAB7	WAAAB
novo	[ət]	N AA80	\mathfrak{G} aaae	V6 AACB	'nп	[ək]	n aa80	(AAB7	И аа80
nov	[əp]	N AA80	\mathfrak{g} aaae	V _{AA9A}	nv6	[ət]	N AA80	(AAB7	W AACB
пиб	[oŋ]	N AA80	W aaba	б аа89	'n√	[əp]	N AA80		V AA9A

A.3 Normalization of tones

For a considerable period of time after its creation, there was no symbol for the tones in Jinping Dai writing system. According to the sources, it was only after the 1940s that tonal symbols were introduced for precise pronunciation, and they were derived from the Kinh language. There are eight tones in Jinping Dai writing system, divided into six relaxed tones and two abrupt tones, borrowing two tone symbols of the Kinh language (in Latin script), [ma:i³¹ sak⁵⁵] and [ma:i³¹ hoi²⁵]. The final [-k¬] variant have a change in pronunciation, but the tone value remains the same. This situation cannot be represented in writing, so a

symbol should be introduce to indicate a syllable with a variation in the final consonant, which is read as [ma:i³³ ?a?⁵⁵]. The tones are:

$$n_3$$
 $[ka^{33}]$
 n_{AA80}
 a_{AB1}
 n_3
 n_3

A.4 Special symbols

There are 12 special symbols, neither initials nor finals. 6 fixed characters and 6 end-of-sentence symbols are included.

A fixed character is a specific symbol used to represent a particular word of a fixed written form that constitutes a monogram for independent use. Such fixed characters are few and far between, appearing in traditional texts only in the words "one", "person", "moon" and "horse". The computer font adds two similar monograms, "child" and "late", as required. [Note: The typeface designer joining in DAO et al, 2019 failed to handle GPOS, so these two monograms will not be submitted.] These monograms can also be written in a non–independent way. The fixed characters are:

Jinping Dai writing system does not generally use punctuation, but ends each sentence with an end-of-sentence symbol. There is no fixed character to be used, and most of them vary from person to person. There are six end-of-sentence symbols. The first five of these are collectively known as [ma:i³³ sam³¹], meaning "ending symbols", and are often used in long stories or poems. The last one is called [ma:i³³ mɛt⁵⁵], which means "completion sign" and is used after a sentence to indicate that a sentence has been completed. The end-of-sentence symbols are:



Appendix B Multi-column Tai Don-Tai Dam character set

A reference forms table for two columns is given in this appendix. The first column shows the reference forms for Vietnamese use, in which *Tai Heritage Pro* was chosen as the typeface. The second column is the reference forms for Chinese use, which contains characters from the Jinping Dai writing system.

The codepoints marked in brown are those for which the allocation of characters is requested in the proposal, and the codepoints marked in grey are reserved.

		Table 5	Multi-colun	nn Tai Do	on–Tai Dam	character set		
AA80	n	n	AA90	w		AAA0	ď	n
AA81	a		AA91	ŋ		AAA1	W	ns
AA82	ns	18	AA92	a		AAA2	W	
AA83	w3	W}	AA93	uq	У	AAA3	ป	
AA84	nl	18	AA94	M	no	AAA4	\checkmark	
AA85	3	η	AA95	N	12	AAA5	\checkmark	\forall
AA86	9		AA96	9	η	AAA6	n	
AA87	9		AA97	y	120	AAA7	ກ	
AA88	vil		AA98	vil	91	AAA8	ທຸ	97
AA89	6	6	AA99	U	Ц	AAA9	γ	Ŋ
AA8A	u	V	AA9A	\checkmark	V	AAAA	wo	eve.
AA8B	7	η_{\perp}	AA9B	W	W	AAAB	0	3
AA8C	u	17	AA9C		V	AAAC	v	N
AA8D	15	بإ	AA9D	W	W	AAAD	W	S
AA8E	x		AA9E	á	n	AAAE	Θ	9
AA8F	nl		AA9F	Ŋ		AAAF	9	9

AAB0	ं	<u>`</u>	AAC0	е		AAD0		Vő
AAB1	1	3	AAC1	ア ○	ু	AAD1		े
AAB2	্	ੰ	AAC2)		AAD2		~
AAB3	ি	र्	AAC3	•	n	AAD3		$\sqrt{}$
AAB4	়	়	AAC4		916	AAD4		W
AAB5	11	"	AAC5		m	AAD5		
AAB6			AAC6		ne	AAD6		
AAB7	<u></u>	<u></u>	AAC7		9 ¹	AAD7		8
AAB8	<u>></u>	ॅ	AAC8		nl	AAD8		
AAB9	1	6	AAC9		ní	AAD9		
AABA	9	W	AACA		ow/	AADA		VOUV
AABB	9	q	AACB		16	AADB	N	n
AABC	4	E	AACC		9W{	AADC	N	W
AABD	ц	Ц	AACD		wş	AADD	Á	18
AABE	ं	<i>(</i>	AACE		ૢ	AADE		VOUV
AABF	<i>'</i>	<u>′</u>	AACF		۪	AADF	€	

Appendix C Figures

(续表)

变异前	变异后	汉义
nək ⁴³	no ⁴³	外面
lok ⁴³	lo ⁴³	烫一下
luk ⁴³	lu ⁴³	儿女
lək ⁴³	lə ⁴³	挑选

(三) 声调的规范化

金平傣文在创制后相当一段历史时期内,都没有标记声调的符号。根据有关资料分析,在 20 世纪 40 年代后,为了精确表达读音才有了声调符号,其声调符号来自京语(越南语)。如前所述,金平傣文使用的最大领域在越南,由于长期的语言接触导致语言间的相互借用,这是语言演变的直接表现。京语有 6 个声调,5 个声调符号。金平傣文有 8 个声调,其中分

为 6 个舒声调和 2 个入声调,但只借用了京语其中的两个声调符号 [mai³¹sak⁵5] ""和 [mai³¹hoi²⁵] "",即有效解决了声调的区分问题。这两个声调只用于舒声字里,第 1 调和第 4 调以及入声字都不用声调调号,只有第 2 调和第 5 调用声调符号 [mai³¹sak⁵5] "",第 3 调和第 6 调用声调符号 [mai³¹hoi²⁵] ""。详见表 7。

(a)

表 7 金平傣文声调

				**	
调	调类		调值	声调符号	例词
	阴平	1	33		", [ka ³³] 乌鸦
阴调类	阴去	2	55	,	n, [ka ⁵⁵] 跑了
	阴上	3	25	,	". [ka ²⁵] 秧苗
	阳平	4	43		", [ka ⁴³] 枷锁
阳调类	阳去	5	52	,	, , [ka ⁵²] 价格
	阳上	6	31	,	", [ka ³¹] 生意
) 吉米	阴入	7	55		Žⁿ [lak ⁵⁵] 聪明 ; Ž [laʔ ⁵⁵] 陌生
人声类	阳入	8	43		ǧⁿ [lak ⁴³] 小偷

上述尾音一k 变异的字,音变调不变。但文字上无法表示出来,我们采取在辅音上增加符号 "~"来表示尾音变异的音节,此符号暂读为 [ma: i³³?aʔ⁵⁵]。例如"水果" **94.7** [ma: k⁵⁵] 变异为**94.** [maʔ⁵⁵],

"陌生"**ๆ**" [la: k⁵⁵] 变异为**ๆ**, [la?⁵⁵]。

从表7来看,金平傣文第2调和第7调的调值相同,都是55调;第4调和第8调的调值相同,都是43调。因此,可以归纳为6个声调调位,即/33/、

/55/、/25/、/43/、/52/、/31/。其中调位/55/包含了舒声调第 2 调的调值 [55] 和入声调第 7 调的调值 [55];调位/43/包含了舒声调第 4 调的调值 [43] 和入声调第 8 调的调值 [43]。

四、特殊符号

金平傣文有一些符号较为特殊,既不是声母,也不是韵母,而是一种固定的特殊符号,专门用来书写某个词或表示句末停顿的符号。这样的符号不多,可分两类:一种是固定字符;另一种是句末符号。

(一) 固定字符

固定字符是指用一个特定的符号来表示某一个词的固定书写形式,构成独立使用的独体字。这种固定字符不多,传统文字中只出现在"一、人、月亮、马"4个词中。即

计算机字体根据需要增加了 2 个类似的独体字。即

(二) 句末符号

金平傣文一般不使用标点符号,每一句话结束时就在后面标注一个句末符号。但并没有固定用哪一个字符,大多因人而异。有的字符与其说是字,不如说是图画,有的字形类似象形文字。句末符号有如下6个。即



其中,前5个均统称为[ma: i³³ sam³¹],有"结束符号"之意,通常用在长篇的故事或诗歌里。最后1个称为[ma: i³³ mɛt⁵⁵],有"完成符号"之意,用在句子之后,表示一句话的完成。

五、结语

综上所述,金平傣文是一种源于印度梵文字母系统的拼音文字,也是跨境自称"傣端"或"傣皓"的傣族白傣支系使用的民族文字。该文字由于创制的年代久远,与现行口语在声母、韵母、声调等方面都出现了一定的差异。加之长期以来均通过手抄方式流传于民间,字体形式因人而异,既没有规范的字体,也没有计算机字体,这对跨境傣族语言文化的传承和发展带来了不利的影响。文字是一个民族进步的标志性特征之一,它对推动民族文化的发展起到积极的作用。尤其是当今数字化、信息化的时代,文字所发挥的作用更加具有不可替代性。为了能更好保护与传承优秀的民族文化,本文通过对金平傣文的实地调查,并根据现行口语的语音特征,对其语音的规范化问题进行了探讨,并提出金平傣文语音规范化的基本原则和标准。具体归纳总结表8。

1. 金平傣文规范字体

以金平县融媒体中心罗文斌同志所设计的金平傣 文计算机字体小睿体作为金平傣文数字化、信息化的 规范字体。该字体包含了在传统文字符号基础上所设 计的字体和为完整记录现行语言而新增的文字符号 字体。

2. 金平傣文标准音

以金平县勐拉镇旧勐村的白傣语语音作为金平傣 文的标准音。该村落的历史文化、地理位置、语音特 点,符合标准选择的一般原则。

3. 金平傣文规范声母

以 22 个辅音音位 44 个傣文字母作为金平傣文的 规范声母。列表 8。

表 8 规范声母

	高音组		低音组				
	9		g				
n	16	916	n	7	6		
5	m	98	m	n	✓		
m	r	su/	n	ю	ı.		
√	ы	on/	nl	nf	N		
ek.	90	2	ns	ə	I		
SI	16	✓	0	r	w		
ń	ı£	જાર	<i>"</i>	¥	g		

4. 金平傣文规范韵母

以83个韵母作为金平傣文的规范韵母。包含9个单元音、14个双元音、60个带辅音韵尾的韵母(简称"辅音尾韵母")。列表9。

表 9 规范韵母

	单元音		0,	ć	ox	u o	୍ର	or	٥,	6	6
(c)		1 0									
(0)	双元音	િ	0,√				્ક\	ાની	\$ √	ર્જ	ố √
		101	ு	்ச	ేం	u Oə					60
		ઁ 6	ಾರ	ô 6	06	u06	<i>96</i>	ାର୍ମ	96	ેં6	66
		ு	0.1	06	ूर्ग	u u	ூப	ાના	्रेप	ह⊿	б Д
	婦立艮幼母	6W	o.₩	ô₩	~M	แาฟ	<i></i>	ાન મ	SM.	5M	6 W
	辅音尾韵母	o n	on	ôп	ćп	o.16	∘ <i>9n</i>	orln	9n	бn	6 n
		ार्ह	o.16	ĉ₁6	TO NO	u016	916	ା ଧ	Ş16	E16	6 16
		ó√	'nſ	ô√	∛	u√	ુક√	OH/	u0n	ઈ√	0.1

5. 金平傣文规范声调

符号作为规范调符。列表 10。

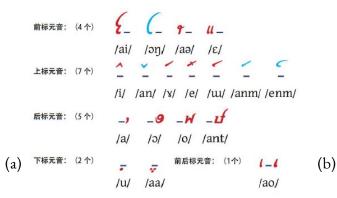
以六个调位作为金平傣文的6个声调,3个声调

表 10 规范声调

调位	—/33/	二/55/	三/25/	四/43/	五/52/	六/31/
调值	33	55	25	43	52	31
调符		′ ~	,		,	,
例词	જારી,	જા ર્ષ. જા ર્ષે .	ow.	w.	w.	w.

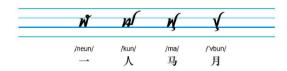
Figure 8 Jinping Dai orthography shown in DAO et al, 2019

9₩√ 18 元音字母表





二、固定字符



在金平傣文中有四个字符是固定的,相当于中文中的独体字可以单独使用。对等于中文的"一、人、马、月(亮)。 当然我们也可以单独拼读出以上的四个独体字,拼读出的字与 上面的发音相同用法一样没有其它的用意。两者都能使用。

(c) 三、俚语、敬语



第四课 声调、符号

金平傣文共有六个声调值,两个声调符号,需要说明的是, 声调随低、高辅音字母的使用而产生不同的调值。在日常的 傣语发音中通常分为低音组轻声、一声、二声和高音组轻声、 一声、二声。以 N、16、√作为韵尾的复合元音在拼读时不 再标注声调符号,发音时根据辅音字母所在组决定平声调值。

	-	0		-	9
n	n	n	V4)	14)	Ph
อฟเ√ ท์ไ6	owh√ i√i	อฟะ√ อปก	อฟเ√ ก็ไ6	อฟาฟ ทฟฟ	om√orov
33 调	35 调	25 调	43 调	52 调	31 调
平声	一声	二声	平声	一声	二声
乌鸦	逃跑	秧苗	卡住	玩	生意

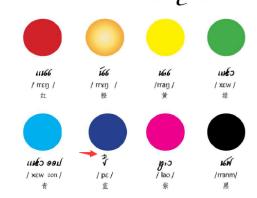
一、常用符号

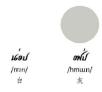


/may 'sanm/ /may 'sanm/ /may 'sanm/ /may 'sanm/ /may 'may /may 'sanm/ /may 'sanm/ /may 'tanm/ 省略号 省略号 省略号 省略号 旬号 省略号 重音号

金平俸文俸文符号形式多样,归类整理后共有以上几种,符号多见于文章、歌曲的开头及结尾。其用意多为省略及沿长。符号 ❷、 ∞ 4 × 4 多用于文章的标题修作或内容的省略,符号 ❷ 、 4 则用于记录歌曲的演唱延音的标注,如:0y.....0y.......。符号 ❷ 则是白傣文的标点符号,代表着一句话的表述完成。即是互号也是句号,同时也代表叹号,符号,成则为重音符号通常在无法标注声调的词语中使用,代表声音的轻重。

第十三课 颜色 €√ 柳₩ 13





练习题: 根据所学颜色写出下面的句子

Figure 9 Jinping Dai orthography shown in Luo, 2017

(d)

ISO/IEC JTC 1/SC 2/WG 2

PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646 1

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P&P) from

http://std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html for guidelines and details before filling this form.

Please ensure you are using the latest Form from http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.

See also http://std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html for latest Roadmaps.

A. Administrative

A. Administrative	
1. Title: Final proposal to add 22 characte	rs for Tai Don writing system
	n Jiang
Requester type (Member body/Liaison/Individual contribution):	Individual contribution
4. Submission date:	July 3, 2022
5. Requester's reference (if applicable):	
6. Choose one of the following:	
This is a complete proposal:	<u>yes</u>
(or) More information will be provided later:	
B. Technical – General	
Choose one of the following:	
a. This proposal is for a new script (set of characters):	
Proposed name of script:	
b. The proposal is for addition of character(s) to an existing block	
	(block name requested to update)
2. Number of characters in proposal:	22
3. Proposed category (select one from below - see section 2.2 of P&P	document):
A-Contemporary X B.1-Specialized (small collection)	B.2-Specialized (large collection)
C-Major extinct D-Attested extinct	E-Minor extinct
F-Archaic Hieroglyphic or Ideographic G-Ob	scure or questionable usage symbols
4. Is a repertoire including character names provided?	yes
a. If YES, are the names in accordance with the "character namin	
in Annex L of P&P document?	yes
b. Are the character shapes attached in a legible form suitable fo	r review? yes
5. Fonts related:	
a. Who will provide the appropriate computerized font to the Proje	ct Editor of 10646 for publishing the standard?
Kushim JIANG	·
b. Identify the party granting a license for use of the font by the e	
Kushim JIANG, kushim_jiang@	outlook.com
6. References:	
a. Are references (to other character sets, dictionaries, descriptive	ve texts etc.) provided? yes
b. Are published examples of use (such as samples from newspa	apers, magazines, or other sources)
of proposed characters attached?	yes
7. Special encoding issues:	
Does the proposal address other aspects of character data proce	essing (if applicable) such as input,
presentation, sorting, searching, indexing, transliteration etc. (if y	ves please enclose information)? yes
A sorting order for the writing systematical experience of the	em is provided.
8. Additional Information:	
Submitters are invited to provide any additional information about Prop	erties of the proposed Character(s) or Script that
will assist in correct understanding of and correct linguistic processing	
of such properties are: Casing information, Numeric information, Cur	
such as line breaks, widths etc., Combining behavior, Spacing behavior	
relevance in Mark Up contexts, Compatibility equivalence and other Ur	nicode normalization related information. See the
Unicode standard at http://www.unicode.org for such information on oth	
(http://www.unicode.org/reports/tr44/) and associated Unicode Te	
consideration by the Unicode Technical Committee for inclusion in the	Unicode Standard.

¹ Form number: N4502-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)

C. Technical - Justification

Has this proposal for addition of character(s) been submitted before?	no
If YES explain	
2. Has contact been made to members of the user community (for example: National Body,	
user groups of the script or characters, other experts, etc.)?	no
If YES, with whom?	
If YES, available relevant documents:	
3. Information on the user community for the proposed characters (for example:	
size, demographics, information technology use, or publishing use) is included?	yes
Reference: Luo Wenbin. 2017. Tai Don script Tutorial. Binge Design Studio. [Luc), <i>2017]</i>
4. The context of use for the proposed characters (type of use; common or rare)	common
Reference:	
5. Are the proposed characters in current use by the user community?	yes
If YES, where? Reference: Jinping County, Yunnan Province, PRC	
6. After giving due considerations to the principles in the P&P document must the proposed characte	rs be entirely
in the BMP?	yes
If YES, is a rationale provided?	yes
If YES, reference: The existing block is in BMP.	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)	ed)? yes
8. Can any of the proposed characters be considered a presentation form of an existing	,
character or character sequence?	no
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
9. Can any of the proposed characters be encoded using a composed character sequence of either	
existing characters or other proposed characters?	no
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
10. Can any of the proposed character(s) be considered to be similar (in appearance or function)	
to, or could be confused with, an existing character?	no
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
11. Does the proposal include use of combining characters and/or use of composite sequences?	yes
If YES, is a rationale for such use provided?	yes
If YES, reference: Combining characters are an inherent part of the writing	ng system.
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provi	ded? Yes
If YES, reference: Appendix A of this proposal.	
12. Does the proposal contain characters with any special properties such as	
control function or similar semantics?	no
If YES, describe in detail (include attachment if necessary)	
13. Does the proposal contain any Ideographic compatibility characters?	no
If YES, are the equivalent corresponding unified ideographic characters identified?	
If YES, reference:	