Universal Multiple-Octet Coded Character Set
International Organization for Standardization
Organisation internationale de normalisation
Международная организация по стандартизации

Doc Type: **Working Group Document**
Title: **Proposal to encode the Hniakeng Puachue Hmong script in the UCS**
Source: **UC Berkeley Script Encoding Initiative (Universal Scripts Project)**
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Action: **For consideration by JTC1/SC2/WG2 and UTC**
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1.0 Introduction. The Hniakeng Puachue Hmong script (in RPA transcription (*Ntawv Nyiaj Keeb Puaj Txwm Hmoob*; *ntawv* means 'letter'; *nyiaj keeb* means 'genesis' and *puaj txwm* means 'complete') is used for writing the White Hmong and Green Hmong languages. It has also been called the *Ntawv Txawj Vaag*, named after its inventor, the Reverend Chervang Kong (*Txawj Vaag Koo*), who devised it in the 1980s for use within his church. This script has been used by members of the United Christians Liberty Evangelical church in America for more than 25 years, in printed material and videos. The script is also called Hmong Kong Hmong (*Ntawv Hmoob Koob Hmoob*), and Pa Dao Hmong (*Ntawv Paj Ntaub*, translating as "flower-cloth writing system"; *paj* means 'flower' and *ntaub* means 'cloth' and the two together mean 'embroidery'). Another unrelated Flower Hmong script devised in 1959 is also called *Paj Ntaub*. Several of the consonant letters appear to have been derived from the shapes of Hebrew characters.

In this document, the Romanized Popular Alphabet orthography (widely used by the Hmong in North America) is given alongside example text in Hniakeng Puachue Hmong. Two features of the RPA are of note. Double vowels *ee* and *oo* indicate [ɛŋ] and [oŋ] respectively; final letters indicate tones thus:

RPA		Diacritic tones		Nhiakeng Puachue tones
-b	⌐	*v́*	high-level	◌̍
-m	⌐	*v̤*	low-glottalized	◌̤
-j	↘	*v̂*	high-falling	◌̆
-v	⌐	*v̌*	mid-rising	◌̊
-Ø	⌐	*v*	mid-level	—
-s	⌐	*v̀*	low-level	◌̄
-g	↘	*v̰*	falling-breathy	◌̂
-d	↓	*v̬*	low-rising	◌̥

2.0 Processing. Hniakeng Puachue Hmong is an alphabetic script comprised of 36 consonant characters, 9 vowel characters, and 7 combining tone characters. Diphthongs are written as sequences ꞗ *ai*, ꞗ *aw*, ꞗ *au*, ꞗ *ia*, ꞗ *ua*, ꞗ *uo*. There are seven symbols used to indicate syntactic or semantic content. The combining tone marks are usually used on the vowels, but there are exceptions. Preaspirated and devoiced consonants are written by following a base consonant with ꞗ *h*. This letter can bear the tone mark, as in ꞗ *mħoo*, that is, *mhoob* (RPA *hmoob*) 'Hmong'.

Two of the consonants can be read as vowels; ꄇ RRA *ra* [ra]~[ɹa] can also be read as *ai* [ai] and ꄉ HAH ʔ can also be read as *o*. Thus ꄇꄉꄤꄟꄧ 'very very short' which could be transliterated as *př př táo* is read *păi păi táo* (RPA *paiv paiv taob*) which can also be written ꄇꄉꄤꄟꄧ *păi păi táo* with the full vowels); in transcriptions of English "what" can be written ꄤꄟ which could be transliterated *huât* (perhaps RPA *huaj t*), and "Fresno" ꄤꄟꄧ which could be transliterated as *frĕxnḥ* is read *frĕxnọ* (perhaps RPA *frev xnom*). Note that ꄉ RA RPA *ra* is [ʈa], ꄘ HA RPA *ha* is [ha].

3.0 Non-alphabetic characters are used in Hniakeng Puachue Hmong. Ordinary generic punctuation marks like COMMA and FULL STOP are used in Hniakeng Puachue Hmong and can be represented by existing UCS characters.

3.1 Classifiers. The characters from U+1E137-U+1E13B indicate various classes of noun; these do not have pronunciation, but are used in a fashion similar to determinatives in Ancient Egyptian, to help distinguish homophones.

3.2.1 Replication mark. The character U+1E13C ꄼ HNIAKENG PUACHUE HMONG SIGN XW XW indicates that what precedes is to be repeated, like "ditto" is in English. It can be used more than once sequentially (to indicate the number of repeats) and is not separated by a space from what is to be repeated. (A reduplication mark repeats only a syllable; it remains to be determined which function this mark has.) There maybe a reading rule that specifies that a line of text should be repeated in its entirely if there is a space between it and what precedes. This is an orthographic matter, but the usage remains to be determined.

3.2.2 Creaky voice mark. The character U+1E13D ꄽ HNIAKENG PUACHUE HMONG SIGN KHU SAIM indicates creaky voice (described as "vibrato" by James and Persson). It remains to be determined whether this is similar to U+16B40 PAHAWH HMONG SIGN VOS SEEV in function or not. The name KHU SAIM needs to be verified.

3.2.3 Money sign. The character U+1E14E ꅎ HNIAKENG PUACHUE HMONG MONEY SIGN is used to represent the word for 'money'. This remains to be determined what the actual reading is. The glyph is similar to a turned ꅎ NTA.

3.2.4 Circled ca. The character U+1E14F ꅏ HNIAKENG PUACHUE HMONG SIGN CIRCLED CA is used to indicate copyright or trademark. It remains to be determined whether this character is genuinely required; in particular, if ꅏ CA is representing Latin C, it would seem unlikely.

4.0 Digits. U+1E140-U+1E149 are the decimal digits 0–9.

4.0 Ordering. The ordering of the consonant onsets and tone marks follows that of the code chart.

5.0 Unicode Linebreaking Properties. The consonant onsets and vowel rimes behave like letters. The digits behave like digits. The punctuation marks 1E137..1E13D behave like 00B6 ¶.

6.0. Unicode Character Properties.

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1E100;HNIAKENG PUACHUE HMONG LETTER MA;Lo;0;L;;;;;N;;;;;
1E101;HNIAKENG PUACHUE HMONG LETTER TSA;Lo;0;L;;;;;N;;;;;
1E102;HNIAKENG PUACHUE HMONG LETTER NTA;Lo;0;L;;;;;N;;;;;
1E103;HNIAKENG PUACHUE HMONG LETTER TA;Lo;0;L;;;;;N;;;;;
1E104;HNIAKENG PUACHUE HMONG LETTER HA;Lo;0;L;;;;;N;;;;;
1E105;HNIAKENG PUACHUE HMONG LETTER NA;Lo;0;L;;;;;N;;;;;
1E106;HNIAKENG PUACHUE HMONG LETTER XA;Lo;0;L;;;;;N;;;;;
1E107;HNIAKENG PUACHUE HMONG LETTER NKA;Lo;0;L;;;;;N;;;;;
1E108;HNIAKENG PUACHUE HMONG LETTER CA;Lo;0;L;;;;;N;;;;;
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1E109;HNIAKENG PUACHUE HMONG LETTER LA;Lo;0;L;;;;;N;;;;;
1E10A;HNIAKENG PUACHUE HMONG LETTER SA;Lo;0;L;;;;;N;;;;;
1E10B;HNIAKENG PUACHUE HMONG LETTER ZA;Lo;0;L;;;;;N;;;;;
1E10C;HNIAKENG PUACHUE HMONG LETTER NCA;Lo;0;L;;;;;N;;;;;
1E10D;HNIAKENG PUACHUE HMONG LETTER NTSA;Lo;0;L;;;;;N;;;;;
1E10E;HNIAKENG PUACHUE HMONG LETTER KA;Lo;0;L;;;;;N;;;;;
1E10F;HNIAKENG PUACHUE HMONG LETTER DA;Lo;0;L;;;;;N;;;;;
1E110;HNIAKENG PUACHUE HMONG LETTER NYA;Lo;0;L;;;;;N;;;;;
1E111;HNIAKENG PUACHUE HMONG LETTER NRA;Lo;0;L;;;;;N;;;;;
1E112;HNIAKENG PUACHUE HMONG LETTER VA;Lo;0;L;;;;;N;;;;;
1E113;HNIAKENG PUACHUE HMONG LETTER NTXA;Lo;0;L;;;;;N;;;;;
1E114;HNIAKENG PUACHUE HMONG LETTER TXA;Lo;0;L;;;;;N;;;;;
1E115;HNIAKENG PUACHUE HMONG LETTER FA;Lo;0;L;;;;;N;;;;;
1E116;HNIAKENG PUACHUE HMONG LETTER RA;Lo;0;L;;;;;N;;;;;
1E117;HNIAKENG PUACHUE HMONG LETTER QA;Lo;0;L;;;;;N;;;;;
1E118;HNIAKENG PUACHUE HMONG LETTER YA;Lo;0;L;;;;;N;;;;;
1E119;HNIAKENG PUACHUE HMONG LETTER NQA;Lo;0;L;;;;;N;;;;;
1E11A;HNIAKENG PUACHUE HMONG LETTER PA;Lo;0;L;;;;;N;;;;;
1E11B;HNIAKENG PUACHUE HMONG LETTER XYA;Lo;0;L;;;;;N;;;;;
1E11C;HNIAKENG PUACHUE HMONG LETTER NPA;Lo;0;L;;;;;N;;;;;
1E11D;HNIAKENG PUACHUE HMONG LETTER DLA;Lo;0;L;;;;;N;;;;;
1E11E;HNIAKENG PUACHUE HMONG LETTER NPLA;Lo;0;L;;;;;N;;;;;
1E11F;HNIAKENG PUACHUE HMONG LETTER HAH;Lo;0;L;;;;;N;;;;;
1E120;HNIAKENG PUACHUE HMONG LETTER MLA;Lo;0;L;;;;;N;;;;;
1E121;HNIAKENG PUACHUE HMONG LETTER PLA;Lo;0;L;;;;;N;;;;;
1E122;HNIAKENG PUACHUE HMONG LETTER GA;Lo;0;L;;;;;N;;;;;
1E123;HNIAKENG PUACHUE HMONG LETTER RRA;Lo;0;L;;;;;N;;;;;
1E124;HNIAKENG PUACHUE HMONG LETTER A;Lo;0;L;;;;;N;;;;;
1E125;HNIAKENG PUACHUE HMONG LETTER AA;Lo;0;L;;;;;N;;;;;
1E126;HNIAKENG PUACHUE HMONG LETTER I;Lo;0;L;;;;;N;;;;;
1E127;HNIAKENG PUACHUE HMONG LETTER U;Lo;0;L;;;;;N;;;;;
1E128;HNIAKENG PUACHUE HMONG LETTER O;Lo;0;L;;;;;N;;;;;
1E129;HNIAKENG PUACHUE HMONG LETTER OO;Lo;0;L;;;;;N;;;;;
1E12A;HNIAKENG PUACHUE HMONG LETTER E;Lo;0;L;;;;;N;;;;;
1E12B;HNIAKENG PUACHUE HMONG LETTER EE;Lo;0;L;;;;;N;;;;;
1E12C;HNIAKENG PUACHUE HMONG LETTER W;Lo;0;L;;;;;N;;;;;
1E130;HNIAKENG PUACHUE HMONG SOM THWB;Mn;230;NSM;;;;;N;;;;;
1E131;HNIAKENG PUACHUE HMONG SOM THWM;Mn;230;NSM;;;;;N;;;;;
1E132;HNIAKENG PUACHUE HMONG SOM THWJ;Mn;230;NSM;;;;;N;;;;;
1E133;HNIAKENG PUACHUE HMONG SOM THWV;Mn;230;NSM;;;;;N;;;;;
1E134;HNIAKENG PUACHUE HMONG SOM THWS;Mn;230;NSM;;;;;N;;;;;
1E135;HNIAKENG PUACHUE HMONG SOM THWG;Mn;230;NSM;;;;;N;;;;;
1E136;HNIAKENG PUACHUE HMONG SOM THWD;Mn;230;NSM;;;;;N;;;;;
1E137;HNIAKENG PUACHUE HMONG SIGN OOV;So;0;L;;;;;N;;;;;
1E138;HNIAKENG PUACHUE HMONG SIGN PES;So;0;L;;;;;N;;;;;
1E139;HNIAKENG PUACHUE HMONG SIGN KHAB THEEB;So;0;L;;;;;N;;;;;
1E13A;HNIAKENG PUACHUE HMONG SIGN KHUAM LUAS;So;0;L;;;;;N;;;;;
1E13B;HNIAKENG PUACHUE HMONG SIGN POOS;So;0;L;;;;;N;;;;;
1E13C;HNIAKENG PUACHUE HMONG SIGN XW XW;So;0;L;;;;;N;;;;;
1E13D;HNIAKENG PUACHUE HMONG SIGN KHU SAIM;So;0;L;;;;;N;;;;;
1E240;HNIAKENG PUACHUE HMONG DIGIT ZERO;Nd;0;L;;0;0;0;N;;;;;
1E241;HNIAKENG PUACHUE HMONG DIGIT ONE;Nd;0;L;;1;1;1;N;;;;;
1E242;HNIAKENG PUACHUE HMONG DIGIT TWO;Nd;0;L;;2;2;2;N;;;;;
1E243;HNIAKENG PUACHUE HMONG DIGIT THREE;Nd;0;L;;3;3;3;N;;;;;
1E244;HNIAKENG PUACHUE HMONG DIGIT FOUR;Nd;0;L;;4;4;4;N;;;;;
1E245;HNIAKENG PUACHUE HMONG DIGIT FIVE;Nd;0;L;;5;5;5;N;;;;;
1E246;HNIAKENG PUACHUE HMONG DIGIT SIX;Nd;0;L;;6;6;6;N;;;;;
1E247;HNIAKENG PUACHUE HMONG DIGIT SEVEN;Nd;0;L;;7;7;7;N;;;;;
1E248;HNIAKENG PUACHUE HMONG DIGIT EIGHT;Nd;0;L;;8;8;8;N;;;;;
1E249;HNIAKENG PUACHUE HMONG DIGIT NINE;Nd;0;L;;9;9;9;N;;;;;
1E14E;HNIAKENG PUACHUE HMONG MONEY SIGN;So;0;L;;;;;N;;;;;
1E14F;HNIAKENG PUACHUE HMONG CIRCLED CA;So;0;L;;;;;N;;;;;
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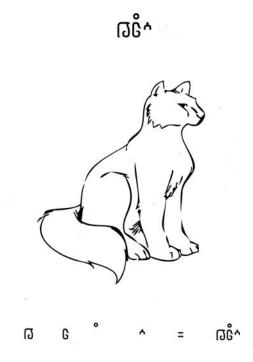
7.0 References

James, Ian, & Mattias Persson. 2014. "New Flower Script for Mong by Cher Vang Kong".
http://www.skyknowledge.com/mong-ntaub3.htm

Kong, Chervang. s.d. ꤫ꤣꤢ꤬ ꤫ꤢꤨ꤬ꤍ꤭ꤝ꤬ (*Kawm ntawv mhoob*): Learning Hmong. [Fresno]: s.l.

Figures.

ຕຮິຣຕິໆຈ໌ຂຄຣ໌ ຂຂບຂຕແຈໆຈ ຂຶບຕ
Xyum nyeem ntawv Hmoob nrug rua ntawv las tees

ma	tsa	nta	ta	ha	na	xa	nka
ca	la	sa	za	nca	ntsa	ka	da
Nya	nra	va	ntxa	txa	fa	ra	qa
ya	nqa	pa	xya	npa	dla	npla	hah
mla	pla	nka	ra				

a	aa	l	u	o	oo	e	ee	w	hoh	ai

' somthwb	somthwm	somthwj	somthwv	somthw	somthws	somthwg	somthwd

Oov	pes	khabtheeb	khuamluas	poos	xwxw	khoushaim

ib	ob	peb	plaub	tsib	rau	xya	yim	cuaj	xuam

Figure 1a. Chart of Hniakeng Puachue Hmong characters. At the end of the consonants ะ *nka* is named GA in this proposal, and ໆ *ra* is named RRA in this proposal. Both ຈ *hoh* and ໆ *ai* are listed, but these are not proposed for encoding as they are identical to ຈ HAH and ໆ RRA.

4

Figure 2. From the primer *Learning Hmong*. The reading is *miv* 'cat' with the animal determinative.

Figure 3. Text from a Hmong hymnal.

	1E10	1E11	1E12	1E13	1E14
0	ᄃ 1E100	ᄄ 1E110	ᄅ 1E120	◌̇ 1E130	0 1E140
1	ᄆ 1E101	ᄇ 1E111	ᄈ 1E121	◌̤ 1E131	1 1E141
2	ᄊ 1E102	ᄒ 1E112	ᄋ 1E122	◌̆ 1E132	2 1E142
3	ᄌ 1E103	ᄎ 1E113	ᄑ 1E123	◌̊ 1E133	3 1E143
4	ᄍ 1E104	ᄏ 1E114	ᄐ 1E124	◌̄ 1E134	4 1E144
5	ᄎ 1E105	ᄐ 1E115	ᄓ 1E125	◌̂ 1E135	5 1E145
6	ᄔ 1E106	ᄕ 1E116	ᄖ 1E126	◌̐ 1E136	6 1E146
7	ᄗ 1E107	ᄘ 1E117	ᄙ 1E127	◌̕ 1E137	7 1E147
8	ᄚ 1E108	ᄛ 1E118	ᄜ 1E128	◌̛ 1E138	8 1E148
9	ᄝ 1E109	ᄞ 1E119	ᄟ 1E129	◌̖ 1E139	9 1E149
A	ᄠ 1E10A	ᄡ 1E11A	ᄢ 1E12A	◌̗ 1E13A	
B	ᄣ 1E10B	ᄤ 1E11B	ᄥ 1E12B	◌̘ 1E13B	
C	ᄦ 1E10C	ᄧ 1E11C	ᄨ 1E12C	◌̙ 1E13C	
D	ᄩ 1E10D	ᄪ 1E11D		ᄫ 1E13D	
E	ᄬ 1E10E	ᄭ 1E11E			ᄮ 1E14E
F	ᄯ 1E10F	ᄰ 1E11F			ᄱ 1E14F

The Hniakeng Puachue Hmong script (Nyiaj Keeb Puaj Txwm in RPA orthography) is also known as Pa Dao (Paj Ntaub in RPA orthography) and Cher Vang script (Txawj Vaag in RPA orthography).

Consonant onsets

1E100   HNIAKENG PUACHUE HMONG LETTER MA
     → 05DE ‎מ‎ hebrew letter mem
1E101   HNIAKENG PUACHUE HMONG LETTER TSA
1E102   HNIAKENG PUACHUE HMONG LETTER NTA
1E103   HNIAKENG PUACHUE HMONG LETTER TA
     → 05D8 ‎ט‎ hebrew letter tet
1E104   HNIAKENG PUACHUE HMONG LETTER HA
1E105   HNIAKENG PUACHUE HMONG LETTER NA
1E106   HNIAKENG PUACHUE HMONG LETTER XA
1E107   HNIAKENG PUACHUE HMONG LETTER NKA
1E108   HNIAKENG PUACHUE HMONG LETTER CA
     → 1E14F ⓢ hniakeng puachue hmong circled ca
1E109   HNIAKENG PUACHUE HMONG LETTER LA
1E10A   HNIAKENG PUACHUE HMONG LETTER SA
     → 05E9 ‎ש‎ hebrew letter shin
1E10B   HNIAKENG PUACHUE HMONG LETTER ZA
1E10C   HNIAKENG PUACHUE HMONG LETTER NCA
1E10D   HNIAKENG PUACHUE HMONG LETTER NTSA
1E10E   HNIAKENG PUACHUE HMONG LETTER KA
     → 05DB ‎כ‎ hebrew letter kaf
1E10F   HNIAKENG PUACHUE HMONG LETTER DA
1E110   HNIAKENG PUACHUE HMONG LETTER NYA
1E111   HNIAKENG PUACHUE HMONG LETTER NRA
1E112   HNIAKENG PUACHUE HMONG LETTER VA
1E113   HNIAKENG PUACHUE HMONG LETTER NTXA
1E114   HNIAKENG PUACHUE HMONG LETTER TXA
1E115   HNIAKENG PUACHUE HMONG LETTER FA
1E116   HNIAKENG PUACHUE HMONG LETTER RA
1E117   HNIAKENG PUACHUE HMONG LETTER QA
     → 05E7 ‎ק‎ hebrew letter qof
1E118   HNIAKENG PUACHUE HMONG LETTER YA
1E119   HNIAKENG PUACHUE HMONG LETTER NQA
1E11A   HNIAKENG PUACHUE HMONG LETTER PA
     → 05E4 ‎פ‎ hebrew letter pe
1E11B   HNIAKENG PUACHUE HMONG LETTER XYA
1E11C   HNIAKENG PUACHUE HMONG LETTER NPA
1E11D   HNIAKENG PUACHUE HMONG LETTER DLA
1E11E   HNIAKENG PUACHUE HMONG LETTER NPLA
1E11F   HNIAKENG PUACHUE HMONG LETTER HAH
     • also used for a vowel o
1E120   HNIAKENG PUACHUE HMONG LETTER MLA
1E121   HNIAKENG PUACHUE HMONG LETTER PLA
1E122   HNIAKENG PUACHUE HMONG LETTER GA
1E123   HNIAKENG PUACHUE HMONG LETTER RRA
     • also used for a diphthong ai

Vowel rimes

1E124   HNIAKENG PUACHUE HMONG LETTER A
1E125   HNIAKENG PUACHUE HMONG LETTER AA
1E126   HNIAKENG PUACHUE HMONG LETTER I
1E127   HNIAKENG PUACHUE HMONG LETTER U
1E128   HNIAKENG PUACHUE HMONG LETTER O
1E129   HNIAKENG PUACHUE HMONG LETTER OO
1E12A   HNIAKENG PUACHUE HMONG LETTER E
1E12B   HNIAKENG PUACHUE HMONG LETTER EE
1E12C   HNIAKENG PUACHUE HMONG LETTER W

Tone marks

1E130   HNIAKENG PUACHUE HMONG SOM THWB
     = RPA -b high-level tone
1E131   HNIAKENG PUACHUE HMONG SOM THWM
     = RPA -m low-glottalized tone
1E132   HNIAKENG PUACHUE HMONG SOM THWJ
     = RPA -j high-falling tone
1E133   HNIAKENG PUACHUE HMONG SOM THWV
     = RPA -v mid-rising tone
1E134   HNIAKENG PUACHUE HMONG SOM THWS
     = RPA -s low-level tone
1E135   HNIAKENG PUACHUE HMONG SOM THWG
     = RPA -g falling-breathy tone
1E136   HNIAKENG PUACHUE HMONG SOM THWD
     = RPA -d low-rising tone

Determinatives

1E137   HNIAKENG PUACHUE HMONG SIGN OOV
     = person, name
1E138   HNIAKENG PUACHUE HMONG SIGN PES
     = item, thing
1E139   HNIAKENG PUACHUE HMONG SIGN KHAB THEEB
     = location
1E13A   HNIAKENG PUACHUE HMONG SIGN KHUAM LUAS
     = animal
1E13B   HNIAKENG PUACHUE HMONG SIGN POOS
     = invertebrate

Punctuation

1E13C   HNIAKENG PUACHUE HMONG SIGN XW XW
     = reduplication
1E13D   HNIAKENG PUACHUE HMONG SIGN KHUS HAIM
     = creaky voice

Digits

1E140   HNIAKENG PUACHUE HMONG DIGIT ZERO
1E141   HNIAKENG PUACHUE HMONG DIGIT ONE
1E142   HNIAKENG PUACHUE HMONG DIGIT TWO
1E143   HNIAKENG PUACHUE HMONG DIGIT THREE
1E144   HNIAKENG PUACHUE HMONG DIGIT FOUR
1E145   HNIAKENG PUACHUE HMONG DIGIT FIVE
1E146   HNIAKENG PUACHUE HMONG DIGIT SIX
1E147   HNIAKENG PUACHUE HMONG DIGIT SEVEN
1E148   HNIAKENG PUACHUE HMONG DIGIT EIGHT
1E149   HNIAKENG PUACHUE HMONG DIGIT NINE

Symbols

1E14E   HNIAKENG PUACHUE HMONG MONEY SIGN
     → 1E102 hniakeng puachue hmong letter nta
     • looks like a turned nta "da"
1E14F   HNIAKENG PUACHUE HMONG CIRCLED CA
     → 1E108 hniakeng puachue hmong letter ca
     • used as a trademark or copyright sign

A. Administrative

1. Title
Preliminary proposal for encoding the Hniakeng Puachue Hmong script in the UCS
2. Requester's name
UC Berkeley Script Encoding Initiative (Universal Scripts Project)
3. Requester type (Member body/Liaison/Individual contribution)
Liaison contribution.
4. Submission date
2016-01-03
5. Requester's reference (if applicable)
6. Choose one of the following:
6a. This is a complete proposal
No.
6b. More information will be provided later
Yes.

B. Technical – General

1. Choose one of the following:
1a. This proposal is for a new script (set of characters)
Yes.
1b. Proposed name of script
Hniakeng Puachue Hmong.
1c. The proposal is for addition of character(s) to an existing block
No.
1d. Name of the existing block
2. Number of characters in proposal
71.
3. Proposed category (A-Contemporary; 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-Obscure or questionable usage symbols)
Category A.
4a. Is a repertoire including character names provided?
Yes.
4b. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?
Yes.
4c. Are the character shapes attached in a legible form suitable for review?
Yes.
5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?
Michael Everson via the Rev. Chervang Kong
5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:
Michael Everson, Fontographer.
6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?
Yes.
6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?
No.
7. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?
Yes.
8. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script.
See above.

C. Technical – Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.
No.
2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?
Yes.
2b. If YES, with whom?
To be provided
2c. 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?
Contemporary cultural use by Hmongs and historians of Hmong culture.
4a. The context of use for the proposed characters (type of use; common or rare)
Somewhat rare.
4b. Reference
5a. Are the proposed characters in current use by the user community?
Yes.

5b. If YES, where?

In the US.

6a. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?

No.

6b. If YES, is a rationale provided?

6c. If YES, reference

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

Yes.

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

No.

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

No.

9b. If YES, is a rationale for its inclusion provided?

9c. If YES, reference

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

No.

10b. If YES, is a rationale for its inclusion provided?

10c. If YES, reference

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

No.

11b. If YES, is a rationale for such use provided?

11c. If YES, reference

11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No.

11e. If YES, reference

12a. Does the proposal contain characters with any special properties such as control function or similar semantics?

No.

12b. If YES, describe in detail (include attachment if necessary)

13a. Does the proposal contain any Ideographic compatibility character(s)?

No.

13b. If YES, is the equivalent corresponding unified ideographic character(s) identified?