Review of Kawi code chart of Unicode 15 Alpha (PRI 442)

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This document reviews several things that we think need to be improved in Kawi code chart of Unicode 15 Alpha.

KAWI CONJOINER (U+11F42)

This character—that intended to produce conjunct forms—we think it doesn't need to be encoded. Like other Indic scripts, conjunct forms are produced by virama or vowel killer. To avoid the formation of conjunct form, ZWNJ can be inserted after virama. Applying the same scenario in Kawi like other Indic scripts in this case, can ease to convert Kawi to other Indic scripts or vice versa.

Text	Sequences	Explanation
CHICHE TURE	According to the proposal:	An example uses of forming-
	เรา+บ+8+応+ก+[<u>+</u>]+ก+ <mark>๓+</mark> +	conjunct virama and not- forming-conjunct virama in KERN E59-vz inscription.
នារ្យួយ <mark>២២២</mark>	្]+៧+៩+ត+្]	Rendered as a digital font "Arma Kawya" by Rikza F. Sh.
äsiḍaktan, <mark>la</mark> wan,	Suggested sequences:	, ,
	ช+บ+८+╙+ป+น+ป	
	្នា+zwnj+៧+ᡖ+ត+្ន	
នេះប្រែកក្រុមក្រ	According to the proposal:	
	31+11+8+C+U+[+]+U++++	
	្នា+៧+๒+๓+៝	
لے ۱۱۱۵ /äsiḍaktan lawan	Suggested sequences:	
asiyaktaiilawaii/	ส+ฦ+ ⁸ +応+ก+_ +ก+ <mark>๓+</mark>	
]+n+e+a+]	

If the reason of encoding forming-conjunct virama and non-forming-conjunct virama is to avoid the use of ZWNJ as in internet domain name, we don't think that necessary. Remember that non-forming-conjunct virama in Kawi script is usually only appear in the end of sentence, and the internet domain name is usually consisting of several words and not more than one sentence, we think that non-forming-conjunct virama is not needed in the middle of internet domain name.

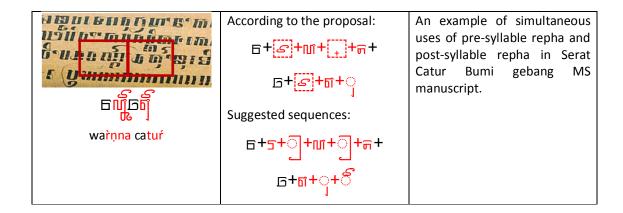
We also suggest for virama that typed after letter ra to automatically change into repha. We will discuss about it in the next section.

KAWI SIGN REPHA (U+11F02)

As in other Indic scripts, Kawi also has repha or r dead consonant. Normally, repha in Kawi is presyllable, unlike in modern Javanese or Balinese which has post-syllable repha. Although post-syllable repha forms are also attested in some Kawi manuscript.

As mentioned in Kawi Proposal (L2/20-284R), pre-syllable and post-syllable repha are seem to be unified as U+11F02 with a "different" typing sequences with other combining marks which are typed before the letter that has repha above it.

Text	Sequences	Explanation
មាន នេះ នេះ នេះ នេះ នេះ នេះ នេះ នេះ នេះ នេ	According to the proposal: E1+E+II+E+I+I+I+I+I+I+I+I+I+I+I+I+I+I+I+	An example uses of pre-syllable repha from KERN E59-vz inscription. Rendered as a digital font "Arma Kawya" by Rikza F. Sh.
ក្សិត្តាដូ នៃក្រុក kṛta waìdđana	According to the proposal: $\Pi^+ = + \Pi^+ = + + + + + + + + + + + + + + + + + +$	An example uses of pre-syllable repha from Trenggalek inscription KERN E35-a
តាហ៊ីកាឃឹ nahuŕ bayaŕ	According to the proposal: எ+ப+ + + + + + + ப + ம Suggested sequences: எ+ய+ + + + + + ப + + 6	An example uses of post- syllable repha (or final-r) in Mariñci inscription.



To avoid the formation of repha, so the letter ra doesn't changed into repha, and the next letter changed to conjunct form below the letter ra, the sequences ra+zwnj+virama+next letter could be used. These cases are rarely found in a Kawi manuscript. Usually it's only found in the word "rwa". So, we think that these cases should be considered as an exception.

Text	Sequences	Explanation
	According to the proposal:	An example of letter ra with
	5+(<u>+</u>)+6	conjunct form of letter wa in
	Suggested sequences:	Pura Gunung Kawi, Bali. The
	5+i + 1+=	letter ra doesn't changed in to
2	5+ zwnj +	pre-syllable repha (ਿੰ) but
rwa		remain as letter ra (5)

POSSIBILITY OF OTHER UNPROPOSED CHARACTERS

We found some possibility of other Kawi character that not yet proposed to Unicode standard. One of those are combining nukta which has similar shape and function with JAVANESE SIGN CECAK TELU (U+A9B3) and BALINESE REREKAN (U+1B34). The use of this combining mark is to marking the foreign phoneme that doesn't exist in the original Kawi phonology. For example, if this nukta combining mark is placed above the letter pa (U+11F26), that letter should be pronounced as /fa/.

Text	Sequences	Explanation
SIZLIDAINA	According to the proposal:	An example of the letter pa
3275230	-	with combining nukta above it
		in "Seh Ba Yajid" (206 II.3 L 32)
0.6	Suggested sequences:	Manuscript written in Buda
មហទិ <mark>ប</mark> ិធា	៸ ៲ ៲៸៹៳៹៹៹៳៹៳៹៳៹៳៹៳៹៳៹៳៹៳៹៳៹៳៹៳៹៳៹៳៹៳៹៳៹៳៹៳	script (one of the Kawi styles
maharifate		used in Merapi-Merbabu).

However, the use of combining nukta is still under study. We hope this character will be encoded on the future version of Unicode standard.

CONCLUSION

Based on the description above, we suggest Unicode to to:

- 1. Delete and unencode KAWI CONJOINER (U+11F42)
- 2. Change the name of U+11F41 from KAWI SIGN KILLER to KAWI VIRAMA
- 3. Change the description of U+11F42 to "●vowel killer, does form below-base and post-base conjunct forms"
- 4. Change the name of U+11F02 form KAWI SIGN REPHA to KAWI FINAL R
- 5. Change the representative glyph of U+11F02 from solution to S
- 6. Change the description of U+11F02 to " \bullet only used for final r \bullet for pre-syllable repha use sequence 11F2C ⋾ 11F41 ৃ"

End of the document.