Neo-Brahmi Generation Panel Cross-Script Variant Analysis

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1. Cross-Script Variant Analysis Devanagari — Gurmukhi

1.1 Pending Issues

-None-

1.2 Variant code points

#	Devanagari	Gurmukhi	Resolution
1	் (0902)	ं (0A02)	Variants
2	इ (0907)	ছ (0A19)	Variants
3	3 (0909)	ਤ (0A24)	Variants
4	ग (0917)	ਗ (0A17)	Variants
5	घ (0918)	된 (0A2C)	Variants
6	て (091F)	ਟ (0A1F)	Variants
7	ਠ (0920)	ठ (0A20)	Variants
8	ढ (0922)	ਫ (0A2B)	Variants
9	त्त (0924 094D 0924)	ਜ (OA1C)	Variants
10	ਾਟ (092A 094D 091F 093F)	ਇ (OAO7)	Variants
11	다 (092A 094D 091F 0940)	ਈ (OAO8)	Variants
12	다 (092A 094D 091F 0947)	ਏ (OAOF)	Variants
13	भ (092D)	ਮ (0A2E)	Variants
14	म (092E)	ਸ (0A38)	Variants
15	य (092F)	ਧ (0A27)	Variants
16	व (0935)	ਕ (0A15)	Variants
17	ह (0939)	ਵ (0A35)	Variants
18	ি (093F)	ි (0A3F)	Variants
19	ी (0940)	ी (0A40)	Variants
20	് (0945)	് (OA71)	Variants
21	ੋ (0946)	े (0A47)	Variants
22	े (0947)	े (0A47)	Variants
23	ి (0948)	ै (0A48)	Variants
24	ੁ (0956)	ূ(OA41)	Variants
25	ੂ (0957)	្ខ (OA42)	Variants

1.3 Identical code points but not defined as variant code points -None-

1.4 Similar code points

#	Devanagari	Gurmukhi	Resolution
1	ਠ (0920)	ਨ (0A28)	Appendix - Similar
2	ਠ (0920)	ਰ (0A30)	Appendix - Similar
3	ਭ (0921)	ਡ (0A21)	Appendix - Similar
4	ਭ (0921)	ਡ (0A21)	Appendix - Similar
5	ਭ (0921)	ਤ (0A24)	Appendix – Similar
6	ਰ (0924)	ਜ (0A1C)	Appendix - Similar
7	प (092A)	ਧ (0A27)	Appendix - Similar

1.5 Non-confusable code points

#	Devanagari	Gurmukhi	Resolution	Note
1	उ (०९०९)	ਭ (OA2D)	Remove - no similar	
2	て (091F)	モ (0A26)	Remove - no similar	resolved during NBGP Meeting 19 Jan 18
3	て (091F)	ਫ (OA2B)	Remove - no similar	
4	ਭ (0921)	ਛ (OA1B)	Remove - no similar	resolved during NBGP Meeting 19 Jan 18
5	ढ (0922)	ਛ (OA1B)	Remove - no similar	resolved during NBGP Meeting 19 Jan 18
6	ढ (0922)	당 (0A22)	Remove - no similar	resolved during NBGP Meeting 19 Jan 18
7	प (092A)	각 (0A2A)	Remove - no similar	
8	म (092E)	ਮ (0A2E)	Remove - no similar	
9	य (092F)	각 (OA2A)	Remove - no similar	
10	₹ (0930)	ਕ (OA15)	Remove - no similar	Based on Akshat email to NBGP 31 Jan, agreed by Lehal and Jay
11	₹ (0930)	ਦ (0A26)	Remove - no similar	
12	₹ (0930)	0A15 (ਕ)	Remove - no similar	The GP agreed that 0930 (₹) and 0A15 (점)are not variant code points.
13	ष (0937)	ਖ (0A16)	Remove - no similar	
14	ष (0937)	펵 (0A25)	Remove - no similar	

1.6 Resolved Issues log

#	Code point/ Code point sequence pair	Detail	Resolution
1	त (0924) and ਜ (0A1C)	Originally, U+0A1C (ਜ) being variant with U+0924 (त) as well as U+0924 U+094D U+0924 (त). Since it has been decided that no same script homoglyph variants will be proposed for this case, one of the variants needs to be dropped. In this case U+0924 (त) is proposed to be dropped	Move to the appendix
2	प (092A) and ਧ (0A27)	Originally, U+0A27 (픽) being variant with U+092A (띡) as well as U+092F (괵) Since it has been decided that no same script homoglyph variants will be proposed for this case, one of the variants needs to be dropped. In this case U+092F (괵) is proposed to be dropped	Move to the appendix
3	ਾਟ (092A 094D 091F) and ੲ (0A72)	They were defined as Variant in Devanagari Proposal. However, it is not in the Gurmukhi Repertoire. Therefore, it will be removed from both proposal	Remove from the proposal
4	다 (092A 094D 091F 0946) 한 (0A0F) And 다 (092A 094D 091F	Where 0946 and 0947 are variant code points. The current proposal Devanagari and Gurmukhi agreed not defining 년 (092A 094D 091F 0946) and ਏ (0A0F) as variant code points. But it didn't define 년 (092A 094D 091F 0947) 환 (0A0F) as variant	Agree (by submitting proposal to the IP)
	0947) ਏ (0A0F)	code points	

2. Cross-Script Variant Analysis Devanagari – Gujarati

2.1 Pending Issues

-None-

2.2 Variant code points

-None-

2.3 Identical code points but not defined as variant code points

#	Devanagari	Gujarati
1	ः (0903)	ः (0A83)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

2.4 Similar code points

-None-

2.5 Non-confusable code points

-None-

2.6 Resolved Issues log

3. Cross-Script Variant Analysis Devanagari – Telugu

3.1 Pending Issues

-None-

3.2 Variant code points

-None-

3.3 Identical code points but not defined as variant code points

#	Devanagari	Telugu
1	ः (0903)	း (0C03)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

3.4 Similar code points

-None-

3.5 Non-confusable code points

-None-

3.6 Resolved Issues log

4. Cross-Script Variant Analysis Devanagari – Kannada

4.1 Pending Issues

-None-

4.2 Variant code points

-None-

4.3 Identical code points but not defined as variant code points

#	Devanagari	Kannada
1	ः (0903)	ះ (OC83)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

4.4 Similar code points

-None-

4.5 Non-confusable code points

-None-

4.6 Resolved Issues log

5. Cross-Script Variant Analysis Devanagari – Malayalam

5.1 Pending Issues

-None-

5.2 Variant code points

-None-

5.3 Identical code points but not defined as variant code points

#	Devanagari	Malayalam
1	ः (0903)	ം (oDo3)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

5.4 Similar code points

-None-

5.5 Non-confusable code points

-None-

5.6 Resolved Issues log

6. Cross-Script Variant Analysis Devanagari – Sinhala

6.1 Pending Issues

-None-

6.2 Variant code points

-None-

6.3 Identical code points but not defined as variant code points

#	Devanagari	Sinhala
1	ः (0903)	ះ (0D83)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

6.4 Similar code points

-None-

6.5 Non-confusable code points

-None-

6.6 Resolved Issues log

7. Cross-Script Variant Analysis Gujarati – Oriya

7.1 Pending Issues

-None-

7.2 Variant code points

-None-

7.3 Identical code points but not defined as variant code points

-None-

7.4 Similar code points

-None-

7.5 Non-confusable code points

#	Gujarati	Oriya	Resolution	Note
1	ધ (OA98)	ପ (OB2A)	Remove - no similar	resolved during NBGP Meeting 22 Feb 18
2	થ (OAA5)	ଥ (OB25)	Remove - no similar	resolved during NBGP Meeting 22 Feb 18
3	ः (OA83)	ଃ (0B03)	Remove - no similar	resolved during NBGP Meeting 22 Feb 18

7.6 Resolved Issues log

#	Code point/ Code point sequence pair	Detail	Resolution
1	েঃ (0B03) and ः (0A83)	They could be confusable in the small font size. However, the character of the glyph is different. Therefore, they are not defined as variant code points	Remove from the Proposal

8. Cross-Script Variant Analysis Gujarati – Telugu

8.1 Pending Issues

-None-

8.2 Variant code points

-None-

8.3 Identical code points but not defined as variant code points

#	Gujarati	Telugu
1	ः (0A83)	း (0c03)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

8.4 Similar code points

-None-

8.5 Non-confusable code points

-None-

8.6 Resolved Issues log

9. Cross-Script Variant Analysis Gujarati – Kannada

9.1 Pending Issues

-None-

9.2 Variant code points

-None-

9.3 Identical code points but not defined as variant code points

#	Gujarati	Kannada
1	∷ (0A83)	ះ (0C83)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

9.4 Similar code points

-None-

9.5 Non-confusable code points

-None-

9.6 Resolved Issues log

10. Cross-Script Variant Analysis Gujarati – Malayalam

10.1 Pending Issues

-None-

10.2 Variant code points

-None-

10.3 Identical code points but not defined as variant code points

#	Gujarati	Malayalam
1	∴ (0A83)	ះ (0D03)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

10.4 Similar code points

-None-

10.5 Non-confusable code points

-None-

10.6 Resolved Issues log

11. Cross-Script Variant Analysis Gujarati – Sinhala

11.1 Pending Issues

-None-

11.2 Variant code points

-None-

11.3 Identical code points but not defined as variant code points

#	Gujarati	Sinhala
1	ः (0A83)	း (0D83)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

11.4 Similar code points

-None-

11.5 Non-confusable code points

-None-

11.6 Resolved Issues log

12. Cross-Script Variant Analysis Oriya - Telugu

12.1 Pending Issues

-None-

12.2 Variant code points

-None-

12.3 Identical code points but not defined as variant code points

-None-

12.4 Similar code points

-None-

12.5 Non-confusable code points

#	Oriya	Telugu	Resolution	Note
1	а	(OC30)	Remove - no similar	resolved during NBGP Meeting 22 Feb 18

12.6 Resolved Issues log

13. Cross-Script Variant Analysis Oriya - Kannada

13.1 Pending Issues

-None-

13.2 Variant code points

-None-

13.3 Identical code points but not defined as variant code points

-None-

13.4 Similar code points

-None-

13.5 Non-confusable code points

i	#	Oriya	Kannada	Resolution	Note
	1	O (OB2O)	ರ (OCBO)	Remove - no similar	resolved during NBGP Meeting 22 Feb 18

13.6 Resolved Issues log

14. Cross-Script Variant Analysis Tamil – Malayalam

14.1 Pending Issues

-None-

14.2 Variant code points

#	Tamil	Malayalam	Resolution
1	ஜ (OB9C)	ஜ (0D1C)	Variants
2	ഖ (OBB5)	ഖ (0D16)	Variants
3	ம (OBAE)	ഥ (0D25)	Variants
4	ി (OBBF)	ി (0D3F)	Variants
5	െ (0BC6)	െ (0D46)	Variants
6	ෙ (0BC7)	ෙ (0D47)	Variants

14.3 Identical code points but not defined as variant code points

-None-

14.4 Similar code points

-None-

14.5 Non-confusable code points

#	Tamil	Malayalam	Resolution	Note
1	സ (OBB8)	സ (0D38)	Remove - no similar	resolved to Yellow during NBGP Meeting 19 Jan 18

14.6 Resolved Issues log

#	Code point/ Code point sequence pair	Detail	Resolution
1	ਂ (0BCD) and ੰ⊡ (0D4E)	0D4E is not permitted in MSR	Remove from the Proposal

15. Cross-Script Variant Analysis Telugu – Kannada

15.1 Pending Issues

-None-

15.2 Variant code points

#	Telugu	Kannada	Resolution
1	ഠ (0C02)	o (0C82)	Variants
2	ះ (0C03)	း (0C83)	Variants
3	ಅ (0C05)	ಅ (0C85)	Variants
4	ଓ (0C06)	ಆ (0C86)	Variants
5	ශ (0C07)	ଷ (0C87)	Variants
6	ఈ (0C08)	ಈ (0C88)	Variants
7	ත (OC10)	ස (0C90)	Variants
8	ఓ (0C12)	ಒ (0C92)	Variants
9	ఓ (0C13)	ఓ (0C93)	Variants
10	ಔ (0C14)	캾 (0C94)	Variants
11	ಖ (0C16)	ఖ (0C96)	Variants
12	റ് (0C17)	러 (0С97)	Variants
13	ස (0C1C)	ಜ (0C9C)	Variants
14	လုံာ (0C1D)	ಝ (0C9D)	Variants
15	ූ (0C1E)	ಞ (0C9E)	Variants
16	ట (0C1F)	ಟ (0C9F)	Variants
17	ŏ (0C20)	ಠ (0CA0)	Variants
18	ර් (0C21)	ಡ (0CA1)	Variants
19	ఢ (0C22)	ಢ (0CA2)	Variants
20	ස (0C23)	ສ (0CA3)	Variants
21	థ (0C25)	ಥ (0CA5)	Variants
22	ద (0C26)	ದ (0CA6)	Variants
23	ధ (0C27)	ಧ (0CA7)	Variants
24	న (0C28)	ನ (0CA8)	Variants
25	ಬ (0C2C)	ಬ (0CAC)	Variants
26	భ (OC2D)	ಭ (0CAD)	Variants

#	Telugu	Kannada	Resolution
27	మ (OC2E)	ಮ (0CAE)	Variants
28	ಯ (OC2F)	ಯ (0CAF)	Variants
29	ර (0C30)	ರ (0CB0)	Variants
30	ව (0C32)	ပ (0CB2)	Variants
31	ళ (0C33)	ಳ (OCB3)	Variants
32	ి (0C3F)	ೆ (OCBF)	Variants
33	ാ (0C41)	ು (0CC1)	Variants
34	ു (0C43)	ൂ (0CC3)	Variants

- 15.3 Identical code points but not defined as variant code points
 -None-
- 15.4 Similar code points

-None-

15.5 Non-confusable code points

-None-

15.6 Resolved Issues log

16. Cross-Script Variant Analysis Telugu – Malayalam

16.1 Pending Issues

-None-

16.2 Variant code points

-None-

16.3 Identical code points but not defined as variant code points

#	Telugu	Malayalam
1	ം (0C02)	ം (0D02)
2	း (0C03)	ះ (0D03)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

16.4 Similar code points

-None-

16.5 Non-confusable code points

-None-

16.6 Resolved Issues log

17. Cross-Script Variant Analysis Telugu – Sinhala

17.1 Pending Issues

-None-

17.2 Variant code points

-None-

17.3 Identical code points but not defined as variant code points

#	Telugu	Sinhala
1	ഠ (0C02)	ം (0D82)
2	ះ (0C03)	း (0D83)
3	ŏ (0C30)	ర (ODBB+ODCA)

The pair OCO2-OD82 and OCO3-OD83 are almost identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. In Sinhala draft proposal, OD82 and OD83 cannot follow OD88+ODCA. Therefore, these are not defined as variant code points.

17.4 Similar code points

-None-

17.5 Non-confusable code points

-None-

17.6 Resolved Issues log

18. Cross-Script Variant Analysis Kannada – Malayalam

18.1 Pending Issues

-None-

18.2 Variant code points

-None-

18.3 Identical code points but not defined as variant code points

#	Kannada	Malayalam
1	o (0C82)	o (0D02)
2	ះ (0C83)	ះ (0D03)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

18.4 Similar code points

-None-

18.5 Non-confusable code points

-None-

18.6 Resolved Issues log

19. Cross-Script Variant Analysis Kannada – Sinhala

19.1 Pending Issues

-None-

19.2 Variant code points

-None-

19.3 Identical code points but not defined as variant code points

#	Kannada	Sinhala
1	o (0C82)	∘ (0D82)
2	ះ (0C83)	ះ (0D83)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

19.4 Similar code points

-None-

19.5 Non-confusable code points

-None-

19.6 Resolved Issues log

20. Cross-Script Variant Analysis Malayalam – Sinhala

20.1 Pending Issues

-None-

20.2 Variant code points

-None-

20.3 Identical code points but not defined as variant code points

#	Malayalam	Sinhala
1	ာ (0D02)	ം (0D82)
2	ះ (0D03)	ះ (0D83)

They are identical but as there is not enough number of other variant codes point to form two labels with each script that look the same. Therefore, these are not defined as variant code points.

20.4 Similar code points

-None-

20.5 Non-confusable code points

-None-

20.6 Resolved Issues log