

Proposed

Code Point Repertoire

Neo-brahmi GP

Draft: Panjabi

Preamble:

This document proposes the code-point repertoire for Panjabi.

The color code convention followed is as follows:

Color	Disposition
	Disallowed - As per IDNA protocol
	Disallowed - As per Maximal Starting Repertoire
	Disallowed - As per Neo-brahmi GP recommendation (Proposed)
	Allowed

The document is based on the MSR-2 ([link](#)) released by the Integration Panel. For more elaborate documentation on the MSR-2 you refer the below links.

1. Maximal Starting Repertoire - MSR-2-Overview and Rationale-20150414 ([Link](#))
2. MSR-2-Annotated-non-CJK-Tables-20150413 ([Link](#))
3. MSR-2-Repertoire+WLE-Rules-20150413 ([Link](#))

For the current work-at hand, visiting the links 1 and 2 should be sufficient.

The MSR-2 is based on Unicode 7.0. The color coding conventions followed are similar to the ones used in the MSR-2 with the addition of blue marking to the characters barred by the Neo-brahmi GP.

The document is structured as,

1. Code-point repertoire
2. Rationale for exclusion

	0A0	0A1	0A2	0A3	0A4	0A5	0A6	0A7
0		ਐ 0A10	ਠ 0A20	ਰ 0A30	ੀ 0A40			ੰ 0A70
1			ਡ 0A21		ਿ 0A41			ੁ 0A71
2	ੰ 0A02		ਢ 0A22	ਲ 0A32	ਿ 0A42			ੲ 0A72
3		ਓ 0A13	ਣ 0A23	ਲ 0A33				ੳ 0A73
4		ਔ 0A14	ਤ 0A24					ੴ 0A74
5	ਅ 0A05	ਕ 0A15	ਬ 0A25	ਵ 0A35				
6	ਆ 0A06	ਖ 0A16	ਦ 0A26	ਸ਼ 0A36			ੱ 0A66	
7	ਇ 0A07	ਗ 0A17	ਧ 0A27		ੇ 0A47		ੲ 0A67	
8	ਈ 0A08	ਘ 0A18	ਨ 0A28	ਸ਼ 0A38	ੈ 0A48		ੳ 0A68	
9	ਉ 0A09	ਙ 0A19		ਹ 0A39		ਖ਼ 0A59	ੴ 0A69	
A	ਊ 0A0A	ਚ 0A1A	ਪ 0A2A			ਗ਼ 0A5A	ੵ 0A6A	
B		ਛ 0A1B	ਫ 0A2B		ੌ 0A4B	ਜ਼ 0A5B	ਪ਼ 0A6B	
C		ਜ਼ 0A1C	ਬ਼ 0A2C	਼ 0A3C	ੌ 0A4C	ੜ 0A5C	ਞ 0A6C	
D		ਝ 0A1D	ਭ 0A2D		ੌ 0A4D		ੱ 0A6D	
E		ਞ 0A1E	ਮ 0A2E	ਾ 0A3E		ਰ਼ 0A5E	ਟ 0A6E	
F	ਏ 0A0F	ਟ 0A1F	ਯ 0A2F	ੀ 0A3F			ੲ 0A6F	

Various signs

0A01	◌	GURMUKHI SIGN ADAK BINDI
0A02	◌	GURMUKHI SIGN BINDI
0A03	◌	GURMUKHI SIGN VISARGA

Independent vowels

0A05	ਅ	GURMUKHI LETTER A = aira
0A06	ਆ	GURMUKHI LETTER AA
0A07	ਇ	GURMUKHI LETTER I
0A08	ਈ	GURMUKHI LETTER II
0A09	ਉ	GURMUKHI LETTER U
0A0A	ਊ	GURMUKHI LETTER UU
0A0B	◌	<reserved>
0A0C	◌	<reserved>
0A0D	◌	<reserved>
0A0E	◌	<reserved>
0A0F	ਏ	GURMUKHI LETTER EE
0A10	ਐ	GURMUKHI LETTER AI
0A11	◌	<reserved>
0A12	◌	<reserved>
0A13	ਓ	GURMUKHI LETTER OO
0A14	ਔ	GURMUKHI LETTER AU

Consonants

0A15	ਕ	GURMUKHI LETTER KA
0A16	ਖ	GURMUKHI LETTER KHA
0A17	ਗ	GURMUKHI LETTER GA
0A18	ਘ	GURMUKHI LETTER GHA
0A19	ਙ	GURMUKHI LETTER NGA
0A1A	ਚ	GURMUKHI LETTER CA
0A1B	ਛ	GURMUKHI LETTER CHA
0A1C	ਜ	GURMUKHI LETTER JA
0A1D	ਝ	GURMUKHI LETTER JHA
0A1E	ਞ	GURMUKHI LETTER NYA
0A1F	ਟ	GURMUKHI LETTER TTA
0A20	ਠ	GURMUKHI LETTER TTHA
0A21	ਡ	GURMUKHI LETTER DDA
0A22	ਢ	GURMUKHI LETTER DDHA
0A23	ਣ	GURMUKHI LETTER NNA
0A24	ਤ	GURMUKHI LETTER TA
0A25	ਥ	GURMUKHI LETTER THA
0A26	ਦ	GURMUKHI LETTER DA
0A27	ਧ	GURMUKHI LETTER DHA
0A28	ਨ	GURMUKHI LETTER NA
0A29	◌	<reserved>
0A2A	ਪ	GURMUKHI LETTER PA
0A2B	ਫ	GURMUKHI LETTER PHA
0A2C	ਬ	GURMUKHI LETTER BA
0A2D	ਭ	GURMUKHI LETTER BHA
0A2E	ਮ	GURMUKHI LETTER MA
0A2F	ਯ	GURMUKHI LETTER YA
0A30	ਰ	GURMUKHI LETTER RA
0A31	◌	<reserved>
0A32	ਲ	GURMUKHI LETTER LA
0A33	ਲ਼	GURMUKHI LETTER LLA ≡ 0A32 ਲ਼ 0A3C ੜ
0A34	◌	<reserved>
0A35	ਵ	GURMUKHI LETTER VA
0A36	ਸ਼	GURMUKHI LETTER SHA ≡ 0A38 ਸ਼ 0A3C ੜ
0A37	◌	<reserved>
0A38	ਸ	GURMUKHI LETTER SA
0A39	ਹ	GURMUKHI LETTER HA

Various signs

0A3C	◌	GURMUKHI SIGN NUKTA = pairin bindi • for extending the alphabet to new letters
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Dependent vowel signs

0A3E	◌	GURMUKHI VOWEL SIGN AA = kanna
0A3F	◌	GURMUKHI VOWEL SIGN I = sihari • stands to the left of the consonant
0A40	◌	GURMUKHI VOWEL SIGN II = bihari
0A41	◌	GURMUKHI VOWEL SIGN U = aunkar
0A42	◌	GURMUKHI VOWEL SIGN UU = dulainkar
0A43	◌	<reserved>
0A44	◌	<reserved>
0A45	◌	<reserved>
0A46	◌	<reserved>
0A47	◌	GURMUKHI VOWEL SIGN EE = lanvan
0A48	◌	GURMUKHI VOWEL SIGN AI = dulanvan
0A49	◌	<reserved>
0A4A	◌	<reserved>
0A4B	◌	GURMUKHI VOWEL SIGN OO = hora
0A4C	◌	GURMUKHI VOWEL SIGN AU = kanaura

Virama

0A4D	◌	GURMUKHI SIGN VIRAMA
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Sign

0A51	◌	GURMUKHI SIGN UDAAT
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Additional consonants

0A59	ਖ਼	GURMUKHI LETTER KHHA ≡ 0A16 ਖ 0A3C ੜ
0A5A	ਗ਼	GURMUKHI LETTER GHHA ≡ 0A17 ਗ 0A3C ੜ
0A5B	ਜ਼	GURMUKHI LETTER ZA ≡ 0A1C ਜ 0A3C ੜ
0A5C	ੜ	GURMUKHI LETTER RRA
0A5D	◌	<reserved>
0A5E	ਫ਼	GURMUKHI LETTER FA ≡ 0A2B ਫ 0A3C ੜ

Reserved

For viram punctuation, use the generic Indic 0964 and 0965.

0A64	◌	<reserved> → 0964 devanagari danda
0A65	◌	<reserved> → 0965 devanagari double danda

Digits

0A66	੦	GURMUKHI DIGIT ZERO
0A67	੧	GURMUKHI DIGIT ONE
0A68	੨	GURMUKHI DIGIT TWO
0A69	੩	GURMUKHI DIGIT THREE

0A6A	੪	GURMUKHI DIGIT FOUR
0A6B	੫	GURMUKHI DIGIT FIVE
0A6C	੬	GURMUKHI DIGIT SIX
0A6D	੭	GURMUKHI DIGIT SEVEN
0A6E	੮	GURMUKHI DIGIT EIGHT
0A6F	੯	GURMUKHI DIGIT NINE

Gurmukhi-specific additions

0A70	◌ੰ	GURMUKHI TIPPI • nasalization
0A71	◌ੳ	GURMUKHI ADDAK • doubles following consonant
0A72	ੲ	GURMUKHI IRI • base for vowels
0A73	ੳ	GURMUKHI URA • base for vowels
0A74	ੴ	GURMUKHI EK ONKAR • God is One
0A75		GURMUKHI SIGN YAKASH

Rationale:

Panjabi:		
Code Point	Name	Rationale for exclusion
U+0A72	GURMUKHI IRI	Is not part of written character set of language
U+0A73	GURMUKHI URA	Is not part of written character set of language
U+0A75	GURMUKHI SIGN YAKASH	Is not part of written character set of language