

Proposed

Code Point Repertoire

Neo-brahmi GP

Draft: Sanskrit

Preamble:

This document proposes the code-point repertoire for Sanskrit.

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 however all the characters added to the Indian Scripts blocks in Unicode 7.0 are barred by the Integration Panel as the IDNA tables currently are updated til Unicode 6.3 only. 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

	090	091	092	093	094	095	096	097
0	ॆ 0900	ऐ 0910	ठ 0920	र 0930	ी 0940	ॐ 0950	ॠ 0960	० 0970
1	ँ 0901	ऑ 0911	ड 0921	ॠ 0931	ँ 0941	ँ 0951	ॠ 0961	ँ 0971
2	ं 0902	ओ 0912	ढ 0922	ल 0932	ँ 0942	ँ 0952	ँ 0962	अँ 0972
3	ः 0903	ओ 0913	ण 0923	ळ 0933	ँ 0943	ँ 0953	ँ 0963	अं 0973
4	ऐ 0904	औ 0914	त 0924	ळ 0934	ँ 0944	ँ 0954	। 0964	आं 0974
5	अ 0905	क 0915	थ 0925	व 0935	ँ 0945	ँ 0955	॥ 0965	औं 0975
6	आ 0906	ख 0916	द 0926	श 0936	ँ 0946	ँ 0956	० 0966	अु 0976
7	इ 0907	ग 0917	ध 0927	ष 0937	ँ 0947	ँ 0957	१ 0967	अु 0977
8	ई 0908	घ 0918	न 0928	स 0938	ँ 0948	ॠ 0958	ॠ 0968	
9	उ 0909	ङ 0919	न 0929	ह 0939	ॉ 0949	ख 0959	३ 0969	ज़ 0979
A	ऊ 090A	च 091A	प 092A	ं 093A	ो 094A	ग 095A	४ 096A	ष 097A
B	ॠ 090B	छ 091B	फ 092B	ां 093B	ो 094B	ज़ 095B	५ 096B	गु 097B
C	ॠ 090C	ज 091C	ब 092C	ं 093C	ौ 094C	ड 095C	६ 096C	ज़ 097C
D	ँ 090D	झ 091D	भ 092D	ऽ 093D	ँ 094D	ढ 095D	७ 096D	१ 097D
E	ऐ 090E	ञ 091E	म 092E	ा 093E	ां 094E	फ़ 095E	८ 096E	ड 097E
F	ए 090F	ट 091F	य 092F	ि 093F	ौ 094F	य 095F	९ 096F	ब 097F

Various signs

0900	◌̎	DEVANAGARI SIGN INVERTED CANDRABINDU = vaidika adhomukha candrabindu
0901	◌̄	DEVANAGARI SIGN CANDRABINDU = anusasika → 0310 ◌̎ combining candrabindu
0902	◌̇	DEVANAGARI SIGN ANUSVARA = bindu
0903	◌̃	DEVANAGARI SIGN VISARGA

Independent vowels

0904	अ	DEVANAGARI LETTER SHORT A
0905	अ	DEVANAGARI LETTER A
0906	आ	DEVANAGARI LETTER AA
0907	इ	DEVANAGARI LETTER I
0908	ई	DEVANAGARI LETTER II
0909	उ	DEVANAGARI LETTER U
090A	ऊ	DEVANAGARI LETTER UU
090B	ऋ	DEVANAGARI LETTER VOCALIC R
090C	ॠ	DEVANAGARI LETTER VOCALIC L
090D	ऌ	DEVANAGARI LETTER CANDRA E
090E	ए	DEVANAGARI LETTER SHORT E • for transcribing Dravidian short e
090F	ए	DEVANAGARI LETTER E
0910	ऐ	DEVANAGARI LETTER AI
0911	औ	DEVANAGARI LETTER CANDRA O
0912	ओ	DEVANAGARI LETTER SHORT O • for transcribing Dravidian short o
0913	ओ	DEVANAGARI LETTER O
0914	औ	DEVANAGARI LETTER AU

Consonants

0915	क	DEVANAGARI LETTER KA
0916	ख	DEVANAGARI LETTER KHA
0917	ग	DEVANAGARI LETTER GA
0918	घ	DEVANAGARI LETTER GHA
0919	ङ	DEVANAGARI LETTER NGA
091A	च	DEVANAGARI LETTER CA
091B	छ	DEVANAGARI LETTER CHA
091C	ज	DEVANAGARI LETTER JA
091D	झ	DEVANAGARI LETTER JHA
091E	ञ	DEVANAGARI LETTER NYA
091F	ट	DEVANAGARI LETTER TTA
0920	ठ	DEVANAGARI LETTER TTHA
0921	ड	DEVANAGARI LETTER DDA
0922	ढ	DEVANAGARI LETTER DDHA
0923	ण	DEVANAGARI LETTER NNA
0924	त	DEVANAGARI LETTER TA
0925	थ	DEVANAGARI LETTER THA
0926	द	DEVANAGARI LETTER DA
0927	ध	DEVANAGARI LETTER DHA
0928	न	DEVANAGARI LETTER NA
0929	न्	DEVANAGARI LETTER NNNA • for transcribing Dravidian alveolar n ≡ 0928 न 093C ◌̄
092A	प	DEVANAGARI LETTER PA
092B	फ	DEVANAGARI LETTER PHA
092C	ब	DEVANAGARI LETTER BA
092D	भ	DEVANAGARI LETTER BHA
092E	म	DEVANAGARI LETTER MA
092F	य	DEVANAGARI LETTER YA
0930	र	DEVANAGARI LETTER RA

0931	ऱ	DEVANAGARI LETTER RRA • for transcribing Dravidian alveolar r • half form is represented as Eyelash RA ≡ 0930 र 093C ◌̄
0932	ल	DEVANAGARI LETTER LA
0933	ळ	DEVANAGARI LETTER LLA
0934	ळ	DEVANAGARI LETTER LLLA • for transcribing Dravidian l ≡ 0933 ळ 093C ◌̄
0935	व	DEVANAGARI LETTER VA
0936	श	DEVANAGARI LETTER SHA
0937	ष	DEVANAGARI LETTER SSA
0938	स	DEVANAGARI LETTER SA
0939	ह	DEVANAGARI LETTER HA

Dependent vowel signs for Kashmiri

093A	◌̇	DEVANAGARI VOWEL SIGN OE
093B	◌̈	DEVANAGARI VOWEL SIGN OOE

Various signs

093C	◌̄	DEVANAGARI SIGN NUKTA • for extending the alphabet to new letters
093D	ॡ	DEVANAGARI SIGN AVAGRAHA

Dependent vowel signs

093E	◌̆	DEVANAGARI VOWEL SIGN AA
093F	◌̇	DEVANAGARI VOWEL SIGN I • stands to the left of the consonant
0940	◌̈	DEVANAGARI VOWEL SIGN II
0941	◌̉	DEVANAGARI VOWEL SIGN U
0942	◌̊	DEVANAGARI VOWEL SIGN UU
0943	◌̋	DEVANAGARI VOWEL SIGN VOCALIC R
0944	◌̌	DEVANAGARI VOWEL SIGN VOCALIC RR
0945	◌̍	DEVANAGARI VOWEL SIGN CANDRA E = candra
0946	◌̎	DEVANAGARI VOWEL SIGN SHORT E • for transcribing Dravidian vowels
0947	◌̏	DEVANAGARI VOWEL SIGN E
0948	◌̐	DEVANAGARI VOWEL SIGN AI
0949	◌̑	DEVANAGARI VOWEL SIGN CANDRA O
094A	◌̒	DEVANAGARI VOWEL SIGN SHORT O • for transcribing Dravidian vowels
094B	◌̓	DEVANAGARI VOWEL SIGN O
094C	◌̔	DEVANAGARI VOWEL SIGN AU

Virama

094D	◌̽	DEVANAGARI SIGN VIRAMA = halant (the preferred Hindi name) • suppresses inherent vowel
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Dependent vowel signs

094E	◌̅	DEVANAGARI VOWEL SIGN PRISHTHAMATRA E • character has historic use only • combines with E to form AI, with AA to form O, and with O to form AU
094F	◌̆	DEVANAGARI VOWEL SIGN AW • Kashmiri

Sign

0950	ॐ	DEVANAGARI OM
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Vedic tone marks

0951	◌̎	DEVANAGARI STRESS SIGN UDATTA = Vedic tone svarita • mostly used for svarita, with rare use for udatta • used also in Vedic texts written in other scripts → 1CDA ◌̎ vedic tone double svarita
0952	◌̄	DEVANAGARI STRESS SIGN ANUDATTA = Vedic tone anudatta • used also in Vedic texts written in other scripts → 1CDC ◌̄ vedic tone kathaka anudatta

Accent marks

0953	◌̑	DEVANAGARI GRAVE ACCENT → 0300 ◌̑ combining grave accent
0954	◌̐	DEVANAGARI ACUTE ACCENT → 0301 ◌̐ combining acute accent

Dependent vowel sign

0955	◌̅	DEVANAGARI VOWEL SIGN CANDRA LONG E • used in transliteration of Avestan
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Dependent vowel signs for Kashmiri

0956	◌̆	DEVANAGARI VOWEL SIGN UE
0957	◌̇	DEVANAGARI VOWEL SIGN UUE

Additional consonants

0958	𑂠	DEVANAGARI LETTER QA ≡ 0915 क 093C ◌̣
0959	𑂡	DEVANAGARI LETTER KHHA ≡ 0916 ख 093C ◌̣
095A	𑂢	DEVANAGARI LETTER GHHA ≡ 0917 ग 093C ◌̣
095B	𑂣	DEVANAGARI LETTER ZA ≡ 091C ज 093C ◌̣
095C	𑂤	DEVANAGARI LETTER DDDHA ≡ 0921 ड 093C ◌̣
095D	𑂥	DEVANAGARI LETTER RHA ≡ 0922 ढ 093C ◌̣
095E	𑂦	DEVANAGARI LETTER FA ≡ 092B फ 093C ◌̣
095F	𑂧	DEVANAGARI LETTER YYA ≡ 092F य 093C ◌̣

Additional vowels for Sanskrit

0960	𑂨	DEVANAGARI LETTER VOCALIC RR
0961	𑂩	DEVANAGARI LETTER VOCALIC LL
0962	◌̈̄	DEVANAGARI VOWEL SIGN VOCALIC L
0963	◌̈̅	DEVANAGARI VOWEL SIGN VOCALIC LL

Generic punctuation for scripts of India

These punctuation marks are for common use for the scripts of India despite being named "DEVANAGARI". They also occur as abbreviation signs in some South Indian scripts.

0964		DEVANAGARI DANDA = purna viram • phrase separator
0965		DEVANAGARI DOUBLE DANDA = deergh viram

Digits

0966	०	DEVANAGARI DIGIT ZERO
0967	१	DEVANAGARI DIGIT ONE
0968	२	DEVANAGARI DIGIT TWO
0969	३	DEVANAGARI DIGIT THREE
096A	४	DEVANAGARI DIGIT FOUR
096B	५	DEVANAGARI DIGIT FIVE
096C	६	DEVANAGARI DIGIT SIX
096D	७	DEVANAGARI DIGIT SEVEN
096E	८	DEVANAGARI DIGIT EIGHT
096F	९	DEVANAGARI DIGIT NINE

Abbreviation sign

0970	◌̇	DEVANAGARI ABBREVIATION SIGN • intended for Devanagari-specific abbreviations
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0971	˙	DEVANAGARI SIGN HIGH SPACING DOT
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Independent vowel for Marathi

0972	अँ	DEVANAGARI LETTER CANDRA A
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Independent vowels for Kashmiri

0973	अँ	DEVANAGARI LETTER OE
0974	आँ	DEVANAGARI LETTER OOE
0975	अुँ	DEVANAGARI LETTER AW
0976	आुँ	DEVANAGARI LETTER UE
0977	अुँ	DEVANAGARI LETTER UUE

Additional consonants

0979	𑂧	DEVANAGARI LETTER ZHA • used in transliteration of Avestan
097A	𑂨	DEVANAGARI LETTER HEAVY YA • used for an affricated glide JJYA

Sindhi implosives

097B	𑂩	DEVANAGARI LETTER GGA
097C	𑂪	DEVANAGARI LETTER JJA

Glottal stop

097D	𑂫	DEVANAGARI LETTER GLOTTAL STOP • used for writing Limbu in Devanagari • a glyph variant has the connecting top bar
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Sindhi implosives

097E	𑂬	DEVANAGARI LETTER DDDA
097F	𑂭	DEVANAGARI LETTER BBA

Rationale:

Sanskrit:		
Code Point	Name	Rationale for exclusion
U+0904	DEVANAGARI LETTER SHORT A	Not part of language character set
U+090C	DEVANAGARI LETTER VOCALIC L	Not part of language character set
U+090D	DEVANAGARI LETTER CANDRA E	Not part of language character set
U+090E	DEVANAGARI LETTER SHORT E	Not part of language character set
U+0911	DEVANAGARI LETTER CANDRA O	Not part of language character set
U+0912	DEVANAGARI LETTER SHORT O	Not part of language character set
U+0929	DEVANAGARI LETTER NNNA	Not part of language character set
U+0931	DEVANAGARI LETTER RRA	Not part of language character set
U+0934	DEVANAGARI LETTER LLLA	Not part of language character set
U+093A	DEVANAGARI VOWEL SIGN OE	Not part of language character set
U+093B	DEVANAGARI VOWEL SIGN OOE	Not part of language character set
U+093C	DEVANAGARI SIGN NUKTA	Not part of language character set
U+0945	DEVANAGARI VOWEL SIGN CANDRA E	Not part of language character set
U+0946	DEVANAGARI VOWEL SIGN SHORT E	Not part of language character set
U+0949	DEVANAGARI VOWEL SIGN CANDRA O	Not part of language character set
U+094A	DEVANAGARI VOWEL SIGN SHORT O	Not part of language character set
U+094F	DEVANAGARI VOWEL SIGN AW	Not part of language character set
U+0956	DEVANAGARI VOWEL SIGN UE	Not part of language character set
U+0957	DEVANAGARI VOWEL SIGN UUE	Not part of language character set
U+0972	DEVANAGARI LETTER CANDRA A	Not part of language character set
U+0973	DEVANAGARI LETTER OE	Not part of language character set
U+0974	DEVANAGARI LETTER OOE	Not part of language character set
U+0975	DEVANAGARI LETTER AW	Not part of language character set
U+0976	DEVANAGARI LETTER UE	Not part of language character set
U+0977	DEVANAGARI LETTER UUE	Not part of language character set
U+0979	DEVANAGARI LETTER ZHA	Not part of language character set
U+097A	DEVANAGARI LETTER HEAVY YA	Not part of language character set
U+097B	DEVANAGARI LETTER GGA	Not part of language character set
U+097C	DEVANAGARI LETTER JJA	Not part of language character set
U+097E	DEVANAGARI LETTER DDDA	Not part of language character set
U+097F	DEVANAGARI LETTER BBA	Not part of language character set