

# सन्त (Sanskrit)

Romanized: Samskrta

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#### SANSKRIT

- A language of <u>ancient India</u> with a 3,500-year history
- Primary sacred language of <u>Hinduism</u>
- Sanskrit is written in Bramhi, Gupta and Devanāgarī scripts. Most of the literature is written in Devanāgarī script.
- Devanāgarī is part of the <u>Brahmic family</u> of scripts of <u>India</u>, <u>Nepal</u>, <u>Tibet</u>, and <u>Southeast Asia</u>.

### DEVANAGARI SCRIPT

- Devanagari is a compound of "deva" देव and "nāgarī" नागरी.
  - Deva means "heavenly or divine"
  - Nagari comes from नगर (nagar), which means abode or city.
  - Hence, Devanagari denotes from the abode of divinity or deities.
- Is written left-to-right
- Composed of 47 primary characters = 14 vowels + 33 consonants + 2 extra vowels ( $3\dot{1}$ , 31:) are only used in the Sanskrit
- Used for over 120 languages

#### RIGVEDA MANUSCRIPT IN DEVANAGARI,

र्श्वीतिकर्मे भाषाः अर्द्धस्ताः । तर्षाः पाष्ट्रिः सुष्विक् र्वाश्वीव्यक्तिः उद्येशकाः अर्थाः । तर्षाः अर्थाः । अर्थाः

## EVOLUTION FROM BRAHMI TO GUPTA, AND TO DEVANAGARI

#### consonants

																-																	
	k-	kh-	g-	gh-	ń-	c-	ch-	j-	jh-	ñ-	ţ-	ţh-	ḍ-	ḍh-	ņ-	t-	th-	d-	dh-	n-	p-	ph-	b-	bh-	m-	у-	r-	<i>I</i> -	V-	ś-	ş-	s-	h-
Brahmi	+	3	٨	l <sub>u</sub>	С	ď	P	Е	h	ħ	C	О	4	G	I	Y	0	>	D	1	l	b		ц	8	1	ł	ժ	Ŷ	<b>1</b>	ե	γ	<sub></sub>
Gupta	1	Ω	ብ	ш	Ę	J	ф	E	y	ጉ	(	0	7	Ø	ઝ	^	0	ح	0	ጝ	и	U	0	ব	и	ଶା	T	аJ	Δ	Ą	ผ	Ж	3
Devanagari	क	ख	ग	घ	ङ	च	छ	ज	झ	ञ	ट	ठ	ड	ढ	ण	त	थ	द	ध	न	प	फ	ब	મ	म	य	र	ল	व	श	ष	स	ह

#### SANSKRIT VOWELS (16) IN THE DEVANAGARI SCRIPT

	Independent form	IAST/ ISO	Independent form	IAST/ ISO
kaṇṭhya (Guttural)	अ	а	आ	ā
tālavya (Palatal)	इ	i	ई	Ī
oṣṭhya (Labial)	ਤ	и	ऊ	ū
mūrdhanya (Retroflex)	羽	<i>i</i> .lů	茏	<i>ṛ</i> /r̥
dantya (Dental)	ऌ	<u>i</u> /ľ	(ॡ)	( <u>[</u> /[]) <sup>[197]</sup>
<i>kaṇṭhatālavya</i> (Palatoguttural)	ए	e/ē	ऐ	ai
kaṇṭhoṣṭhya (Labioguttural)	ओ	o/ō	औ	au
(consonantal allophones)	अं	<i>аṃ</i> /аṁ <sup>[198]</sup>	अ:	аḥ <sup>[199]</sup>



#### SANSKRIT CONSONANTS (33) IN THE DEVANAGARI SCRIPT

	sparśa (Plosive)													ınāsil Vasal)		antastha (Approximant)			ūşman/saṃgharṣhī (Fricative)				
Voicing →			ag	hoṣa			gho							oșa						aghoṣa			
Aspiration →	alpaprāṇa mahāprāṇa				ņa	alp	paprā	ņa	mahāprāṇa					alpaj	aprāṇa			mahāprāṇa		9			
kaṇṭhya (Guttural)	क	ka	/k/	ख	kha	/kʰ/	ग	ga	/g/	घ	gha	/g <sup>fi</sup> /	ङ	'nа	/ŋ/	ह	ha	/ħ/					
tālavya (Palatal)	च	ca	/c/ /t͡ɕ/	छ	cha	/ch/ /t͡ɕʰ/	ज	ja	/ı̯/ /d͡ʑ/	झ	jha	/Jħ/ /d͡ʑħ/	ञ	ña	/ɲ/	य	ya	/j/	য়	śa	/6/		
mūrdhanya (Retroflex)	ਟ	ţa	/ <del>t</del> /	ਰ	ţha	/th/	ड	ḍа	/d/	ढ	ḍha	/d <sup>fi</sup> /	ण	ņа	/η/	र	ra	/ʈ/	ঘ	șa	/ʂ/		
dantya (Dental)	त	ta	/t/	थ	tha	/th/	द	da	/d/	ध	dha	/d <sup>fi</sup> /	न	na	/n/	ल	la	/1/	स	sa	/s/		
oș <i>țhya</i> (Labial)	प	pa	/p/	फ	pha	/p <sup>h</sup> /	ৰ	ba	/b/	भ	bha	/b <sup>h</sup> /	म	ma	/m/	व	va	/u/					



### DEVANAGARI DIGITS (10)

О	१	5	3	8	4	દ્દ	6	L	ς
0	1	2	3	4	5	6	7	8	9

#### DATASET FOR MACHINE LEARNING

- https://www.kaggle.com/rishianand/devanagari-character-set
- It comprises of 92000 images [32x32 px] corresponding to 46 characters, consonants "ka" to "gya", and the digits 0 to 9.
- 33 original Devanagari alphabets + 3 Nepali alphabets + 10 digits = 46 characters
- The vowels are missing.

#### REFERENCES

- https://en.wikipedia.org/wiki/Sanskrit
- https://en.wikipedia.org/wiki/Devanagari
- Sanskrit for Beginners by Ashok (<a href="https://www.youtube.com/playlist?list=PL0KqNDJdHBichDeImagb5T4G11c0XMZj3">https://www.youtube.com/playlist?list=PL0KqNDJdHBichDeImagb5T4G11c0XMZj3</a>
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- <a href="https://www.quora.com/What-is-the-difference-between-Devanagari-script-and-bankrit-script">https://www.quora.com/What-is-the-difference-between-Devanagari-script-and-bankrit-script</a>
- https://www.kaggle.com/rishianand/devanagari-character-set