Bengali

Vowels and Diphthongs (see Note 1)

অ	а	熱	ŗ
আ	ā	ે	1
ই	1	٩	е
ঈ	ī	Ĩ	ai
উ	u	૭	0
ঊ	ū	③	au
ঋ	r		

Consonants (see Note 2)

Gutturals	Palatals		Cer	ebrals	Dentals		
ক ka	চ	ca	ট	ţa	ত	ta	
^খ kha	ছ	cha	ঠ	ţha	ς	<u>t</u>	
গ ga	জ	ja	ড	фа	থ	tha	
^ঘ gha	ঝ	jha	ড়	ŗa	দ	da	
ঙ ṅa	ত্ৰ	ña	ঢ	ḍha	ধ	dha	
			ঢ়	ŗha	ন	na	
			ન	ņa			
Labials	Semivowels		Sibilants		Aspirate		
^প pa	য	ya	×	śa	হ	ha	
^ফ pha	য়	у̀а	ষ	sha			
ba (see Note 3)	র	ra	স	sa			
ভ bha	ল	la					
ম ma	ব	ba (see Note 3)					
Anusvāra	Bisa	arga		drabindu (anunāsika)	Abag	graha (see Note 5)	
0	o	L	(see	Note 4)	_	2/ (1 2	
₹ ṁ	0	μ̈́		ň, m	2	'(apostrophe)	

Notes

1. Only the vowel forms that appear at the beginning of a syllable are listed; the forms used for vowels following a consonant can be found in grammars; no distinction between the two is made in transliteration.

- 2. The vowel *a* is implicit after all consonants and consonant clusters and is supplied in transliteration, with the following exceptions:
 - a) when another vowel is indicated by its appropriate sign; and
 - b) when the absence of any vowel is indicated by the subscript symbol () called *hasanta* or *birāma*.
- 3. ¬ is used both as a labial and as a semivowel. When it occurs as the second consonant of a consonant cluster, it is transliterated *va*. When ¬ is doubled, it is transliterated *bba*.
- 4. *Candrabindu* before guttural, palatal, cerebral, and dental occlusives is transliterated *ň*. Before labials, sibilants, semivowels, the aspirate, vowels, and in final position it is transliterated *m*.
- 5. When doubled, *abagraha* is transliterated by two apostrophes (").

Bengali alphabet

	Bengali alphabet					
ব	াংলা লিপি					
Туре	Abugida					
Languages	Bengali					
Time period	11th Century to the present ^[1]					
Parent systems	Proto-Sinaitic Phoenician Aramaic Brāhmī Gupta Siddham Assamese/Bengali Bengali alphabet					
ISO 15924	Beng, 325					
Direction	Left-to-right					
Unicode alias	Bengali					
Unicode range	U+0980-U+09FF ^[2]					

Brāhmī	
The Brahmic script and its	
descendants	

The Bengali alphabet (Bengali: বাংলা হরফ Bangla horof or Bengali: বাংলা লিপি Bangla lipi) is the writing system for the Bengali language. The script with variations is shared by Maithili (also called Mithilakshar/Tirhutiya), Assamese and is the basis for the Meitei, Bishnupriya Manipuri, Kokborok, Garo and Mundari alphabets. All these languages are spoken in the eastern region of South Asia. Historically, the script has also been used to write the Sanskrit language in the same region. From a classificatory point of view, the Bengali script is an abugida, i.e. its vowel graphemes are mainly realized not as independent letters, but as diacritics attached to its consonant letters. It is written from left to right and lacks distinct letter cases. It is recognizable by a distinctive horizontal line running along the tops of the letters that links them together, a property it shares with two other popular Indian scripts: Devanagari (used for Hindi, Marathi and Nepali) and Gurumukhi (used for Punjabi). The Bengali script is, however, less blocky and presents a more sinuous shape.

Because of the large population of literate Bengali speakers, Bengali script is one of the more widely used writing systems in the world.

History

The Bengali script evolved from the Siddham, which belongs to the Brahmic family of scripts, along with the Devanagari and other written systems of the Indian subcontinent. In addition to differences in how the letters are pronounced in the different languages, there are some typographical differences between the version of the script used for Assamese and Bishnupriya Manipuri as well as Maithili languages, and that used for Bengali and other languages.

Illustration:

- The character ক্ষ (Assamese khyô, Bengali khio) is considered a separate letter in Assamese script (ক্ষ <khyô>) but considered a conjunct (orthographically र्+र <kṣô>) in Bengali. In both languages, it functions as though it were orthographically খ্য <khy>.
- rô is represented as ব in Bengali, ৰ in Assamese, and either of the two variants in Bishnupriya Manipuri and Maithili.
- Assamese script has an additional character sounding $w\hat{o}$ represented as \mathbf{a} not found in Bengali script.

The Bengali script was originally not associated with any particular language, but was often used in the eastern regions of Medieval India. It was standardized into the modern Bengali script by Ishwar Chandra under the reign of the British East India Company. The script was originally used to write Sanskrit. Epics of Hindu scripture, including the Mahabharata or Ramayana, were written Mithilakshar/Tirhuta script in this region. After the medieval period, the use of Sanskrit as the sole written language gave way to Pali, and eventually to the vernacular languages we know now as Maithili, Bengali, and Assamese. There is a rich legacy of Indian literature written in this script, which is still occasionally used to write Sanskrit today.

Standardization

In the Bengali script, clusters of consonants are represented by different and sometimes quite irregular forms; thus, learning to read is complicated by the sheer size of the full set of letters and letter combinations, numbering about 350. While efforts at standardizing the alphabet for the Bengali language continue in such notable centres as



the Bangla Academies (unaffiliated) at Dhaka (Bangladesh) and Kolkata (West Bengal, India), it is still not quite uniform as yet, as many people continue to use various archaic forms of letters, resulting in concurrent forms for the same sounds. Among the various regional variations within this script, only the Assamese and Bengali variations exist today in the formalized system.

It seems likely that the standardization of the alphabet will be greatly influenced by the need to typeset it on computers. The large alphabet can be represented, with a great deal of ingenuity, within the ASCII character set, omitting certain irregular conjuncts. Work has been underway since around 2001 to develop Unicode fonts, and it seems likely that it will split into two variants, traditional and modern.

In this and other articles on Wikipedia dealing with the Bengali language, a Romanization scheme used by linguists specializing in Bengali phonology is included along with IPA transcription.

A recent effort by the government of West Bengal focused on simplifying Bengali orthography in primary school texts.

Description of Bengali glyphs

The glyphs of the Bengali script can be divided into vowel diacritics, consonant and vowel letters (including consonant conjuncts), modifiers, digits, and punctuation marks.

Vowels

The Bengali script has a total of 11 vowel graphemes, each of which is called a শ্বরবর্ণ shôrobôrno "vowel letter". These shôrobôrnos represent six of the seven main vowel sounds of Bengali, along with two vowel



diphthongs. All of these are used in both Bengali and Assamese, the two main languages using the script. There is no standard character in the script for the Bengali main vowel sound /æ/, and vowel length differences thought to be represented by different vowel graphemes (e.g., $hr\hat{o}shsho\ i$ vs. $dirgho\ i$) do not hold true for the spoken language. Also, the grapheme called ri does not really represent a vowel phoneme, rather the sound /ri/.

When a vowel sound occurs at the beginning of a syllable or when it follows another vowel, it is written using a distinct letter. But when a vowel sound follows a consonant (or a consonant cluster), it is written with a diacritic which, depending on the vowel, can appear above, below, before or after the consonant. The diacritic cannot appear without a consonant. A diacritic form is named by adding a "-kar" to the end of the name of the corresponding vowel letter (see table below).

An exception to the above system is the vowel $/\Im$. This has no diacritic form, but is considered inherent in every consonant letter. To specifically denote the absence of this inherent vowel $[\Im]$ following a consonant, a diacritic called the $h\hat{o}shonto$ () may be written underneath the consonant.

Although there are only two diphthongs in the inventory of the script, the Bengali sound system has in fact many diphthongs. [3] Most of these diphthongs are represented by juxtaposing the graphemes of their forming vowels, as in **ACB** keu/keu/.

The table below shows the vowels present in the modern (i.e., since late nineteenth century) inventory of the Bengali alphabet, which has abandoned three historical vowels, *rri*, *li*, and *lli*, traditionally placed between *ri* and *e*.

Full form	Name of full form	IPA transcription	Diacritic form, used with the consonant [kɔ] (季)	Name of diacritic form	Transliteration	IPA
অ	shôro ô (shôre ô) "vowel ô"	/ɔ/ and /o/ ^[4]	▼ (none)	(none)	kô and ko	/kɔ/ and /ko/
আ	shôro a (shôre a) "vowel a"	/a/	কা	akar	ka	/ka/
ଧିବ	hrôshsho i (hrôshsho i) "short i"	/i/	ক	hrôshsho ikar (roshshikar)	ki	/ki/
त्रे	dirgho i "long i"	/i/	কী	dirgho ikar (dirghikar)	kee	/ki/
উ	hrôshsho u (rôshsho u) "short u"	/u/	কু	hrôshsho ukar (roshshukar)	ku	/ku/

উ	dirgho u "long u"	/u/	क्	dirgho ukar (dirghukar)	koo	/ku/
ঋ	ri	/ri/	কৃ	rikar/rifôla	kri	/kri/
	e	/e/ and /æ/	ক্ত	ekar	kê and ke	/ke/ and /kæ/
ঐ	oi	/oj/	ক	oikar	koi	/koj/
ઉ	0	/o/	ক ।ে	okar	ko	/ko/
<u>જે</u>	ou	/ow/	ক ৌ	oukar	kou	/kow/

I+ Bengali vowels (স্বরবর্ণ shôrobôrno)

Consonants

In the earlier inventories of the Bengali alphabet, one can find a second $b\hat{o}$ (called $\hat{o}ntostho\ b\hat{o}$) following $l\hat{o}$. This $\hat{o}ntostho\ b\hat{o}$ originally represented a /v/ or /w/ sound, but later merged with the *borgio* $b\hat{o}$ in the Bengali language. The two $b\hat{o}$'s were represented with identically but occurred in two different places in the inventory. In the orthography of Bangladesh, only *borgio* $b\hat{o}$ is retained. The $\hat{o}ntostho\ b\hat{o}$ continues to be used in the Indian state of West Bengal.

The table below presents the Bengali consonant letters in their traditional order.

Letter	Name of consonant	Transliteration	IPA
ক	kô	k	/k/
খ	khô	kh	/k ^h /
গ	gô	g	/g/
ঘ	ghô	gh	/g ^h /
ঙ	ungô, umô	ņ	/ŋ/
D	chô	ch	/tʃ/
ছ	chhô	chh	/tʃ ^h /
জ	borgio jô (burgijjô)	j	/d3/
ঝ	jhô	jh	/dʒ ^h /
വദ	ingô, niô	n	/n/

5	tâ		/+/
ট	ţô	ţ	/t/
ঠ	ţhô	ţh	/t ^h /
ড	đô	đ	/d/
ঢ	đhô	đh	/d ^h /
ণ	murdhonno nô (moddhennô)	n	/n/
ত	tô	t	/ <u>t</u> /
থ	thô	th	/ <u>t</u> ^h /
দ	dô	d	/d̯/
ধ	dhô	dh	/ď _þ /
ন	donto nô (dontennô)	n	/n/
প	pô	p	/p/
ফ	phô	ph	/p ^h /
ব	bô (the so-called borgio bô)	b	/b/
ভ	bhô	bh	/b ^h /
ম	mô	m	/m/
য	ôntostho jô (ontostejô)	j	/dʒ/
র	(bôe bindu/shunno) rô	r	/r/
ল	lô	1	/1/
भ	talobbo shô (taleboshshô)	sh and s	/ʃ/ / /s/
ষ	murdhonno shô (muddhennoshshô) (peţ kaţa shô)	sh	/ʃ/
স	donto shô (donteshshô)	sh and s	/ʃ/ / /s/
<u>হ</u>	hô	h	/h/
য.	ôntostho ô (ontosteô)	e and –	/e̯/ /-
ড.	đôe shunno/bindu çô	ţ	/ŗ/
ᠮ.	đhôe shunno/bindu çô	ŗh	/ŗ/

l+ Bengali consonants (ব্যঞ্জনবর্ণ bênjonbôrno)

Consonant conjuncts

Up to four consecutive consonants not separated by vowels can be orthographically represented as a ligature called a "consonant conjunct" (Bengali: যুক্তাক্ষর juktakkhor or যুক্তবর্গ juktobôrno). Typically, the first consonant in the conjunct is shown above and/or to the left of the following consonants. Many consonants appear in an abbreviated or compressed form when serving as part of a conjunct. Others simply take exceptional forms in conjuncts, bearing little or no resemblance to the base character.

Often, consonant conjuncts are not actually pronounced as would be implied by the pronunciation of the individual components. For example, adding \overline{r} $l\hat{o}$ underneath \overline{r} $sh\hat{o}$ in Bengali creates the conjunct \overline{r} which is not pronounced $shl\hat{o}$ but $sl\hat{o}$ in Bengali. Many conjuncts represent Sanskrit sounds that were lost centuries before modern Bengali was ever spoken, as in \overline{r} , which is a combination of \overline{r} \hat{o} and \overline{r} $ni\hat{o}$, but is not pronounced $ni\hat{o}$. Instead, it is pronounced $ni\hat{o}$ in Bengali. Thus, as conjuncts often represent (combinations of) sounds that cannot be easily understood from the components, the following descriptions are concerned only with the construction of the conjunct, and not the resulting pronunciation. Thus, a variant of the IAST romanization scheme is used instead of the phonemic romanization.

Fused forms

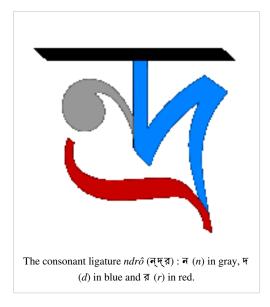
Some consonants fuse in such a way that one stroke of the first consonant also serves as a stroke of the next.

- The consonants can be placed on top of one another, sharing their vertical line: ক্ক kkô গ্ন gnô গ্ল glô ন্ন nnô প্ন pnô প্প ppô লল llô etc.
- As the last member of a conjunct, ব wô and ব bô can hang on
 the vertical line under the preceding consonants, taking the shape
 of ব bô (here referred to as বফলা bôfôla): গ্ব gwô/gbô গ্ব
 nwô,nbô দ্ব dwô/dbô ল্ব lwô/lbo শ্ব śwô/śbô.
- The consonants can also be placed side-by-side, sharing their vertical line: দৃদ ddô ন্দ ndô ব্দ bdô ব্জ bjô প্ট pţô শ্চ ścô
 শছ śchô etc.

Approximated forms

Some consonants are simply written closer to one another to indicate that they are in a conjunct together.

- As the last member of a conjunct, গ gô can appear unaltered, with the preceding consonant simply written closer to it: দ্গ dgô.
- As the last member of a conjunct, ৰ wô and ব bô can appear immediately to the right of the preceding consonant, taking the shape of ব bô (here referred to as বফলা bôfôla): ধ্ব dhwô/dhbô ব্ব bbô/bwô হ্ব hbô/hwô.



```
क क हैं हैं क क क का का क़िक
  ক্ষ ক্ষ ক্ষাক্ষাকাৰ
খ খা গ্ৰ
গিশা সং সাং স্থায় য় যা গা এ গা প্ল
ঘ ঘ্বাঘ
😮 इक्र अञ्च इक्षा अफ्र उप अप अप अप अप अप अप
ति वृं ध्यत्र कु कु कर वस त
জ জ জ্ব ত্ব জ জ্ব জা জ্ৰ
ଏ ଓ ଏହି ଓଡ଼ିଆ ଏହି
र्छ कि कि कि कि
ভ ডভ ভু ভা ভু ভা
ए छ छ छ
न के के का ख खा ख क श वा ना
ত ৎক ত্ত ত্ব ত্তা খ ত্ন ত্ব ত্বা ত্মা তা ত্র ত্রা ত্ন ৎস
থ থ থা থ
थ श्रद्ध भाषा श
ন উ টু ঠ ভ ভু ভ ভু ভা ভ ভা ভ ভু ন্
  न्गुन्द ख क का का ब ब व ना ना
প শ ভি প্লেপ্লেপ্লেপ্লেপ
ব জ ব্দ ব্ব ব্য ব্ৰ ব্ল
ভ অ, ভা ভ
ম ন্ন ম্প ম্প্ৰ ম্প্ৰ স্ব স্ব স্ত স্তুমাম্য মুল
त र्क की भी घी ठी की भी ठी थी दी भी भी घी टी थी
  र्गर्घ हं इं किं वि हैं वि वे वे वे वे वे वे वे वे वे वे
 नं পं कं ভ মं यं नं भं श्वं मं दं जं
न क का हा ने ए हा क व न ना ना हा
শ শ শ শ শ শ শ শ শ শ শ শ
य क कुष्ठे हैं। हैं। के की स्थ ष्टा पट व या सा
স ক কু ৠ স্ট স্টু ত তু তা লু স্থ স্থা ন
  স্পস্পুক সম্স্তন
হ হু হু হব কা হা হু হু
 List of all Bengali consonant conjuncts.
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Compressed forms

Some consonants are compressed (and often simplified) when appearing as the first member of a conjunct.

• As the first member of a conjunct, the consonants ৬ ŋô চ cô ড ḍô ব bô and ব wô are often compressed and placed at the top-left of the following consonant, with little or no change to the basic shape: ৬ক্ষ ŋkṣô ৬খ ŋkhô ৬ঘ ŋghô ৬ম ŋmô চ্চ ccô চ্ছ cchô চ্ঞ cñô ড্ড ḍḍô ব্ব bbô/bwô ব্ব wbô/wwo.

- As the first member of a conjunct, ত tô is compressed and placed above the following consonant, with little or no change to the basic shape: ত্ৰ thô ত্ম tmô ত্ব twô/tbô.
- As the first member of a conjunct, ম mô is compressed and simplified to a curved shape. It is placed above or to the top-left of the following consonant: মূন mnô মূপ mpô ম্ফ mfô ম্ব mbô/mwô ম্ভ mbhô ম্ম mmô মূল mlô.
- As the first member of a conjunct, ষ sô is compressed and simplified to an oval shape with a diagonal stroke through it. It is placed to the top-left of the following consonants: ষ্ক skô ষ্ট stô ষ্ঠ sthô ষ্প spô ষ্ফ sfô ষ্ম smô.
- As the first member of a conjunct, স sô is compressed and simplified to a ribbon shape. It is placed above or to the top-left of the following consonant: স্ক skô স্থ skhô স্ট sţô স্ত stô স্থ sthô স্ন snô স্প spô স্ফ sfô স্ব swô/sbô স্ম smô স্ল slô.

Abbreviated forms

Some consonants are abbreviated when appearing in conjuncts, losing part of their basic shape.

- As the first member of a conjunct, জ jô can lose its final downstroke: জ্জ jjô জ্ঞ jñô জ্ব jwô/jbô.
- As the first member of a conjunct, এ ñô can lose its bottom half: এই ñcô এছ ñchô এজ ñjô এবা ñjhô.
- As the last member of a conjunct, $\mathfrak m$ no can lose its left half (the $\mathfrak m$ part): $\mathfrak m$ $\mathfrak m$ jno.
- As the first member of a conjunct, গ nô and প pô can lose their downstroke: প্ঠ nthô প্ড ndô প্ত ptô প্স psô.
- As the first member of a conjunct, ত tô and ত bhô can lose their final upward tail: ত্ত ttô ত্থ tthô ত্র trô ভ্র bhrô.
- As the last member of a conjunct, থ thô can lose its final upstroke, taking the form of ই hô instead (this form is called খণ্ড-থ khôndo thô or "broken thô"(২)) : ন্থ nthô স্থ sthô. An exception is ম্থ mthô (see on the compressed forms part)
- As the last member of a conjunct, ম mô can lose its initial downstroke: ক্ম kmô গ্ম gmô ঙ্ম ŋmô ট্ম ṭmô গ্ম
 ŋmô জ্ম tmô দ্ম dmô ন্ম nmô ম্ম mmô শ্ম śmô শ্ম ṣmô শ্ম smô.
- As the last member of a conjunct, স sô can lose its top half: ক্স ksô ন্স nsô.
- As the last member of a conjuct ፱ tô, ፱ dô and ፱ dhô can lose their matra: প্ট ptô ଏହ ndô ч፱ ntô ч፱ ndhô
- As the last member of a conjuct ড dô can change its shape: প্ড ndô

Variant forms

Some consonants have forms that are used regularly, but only within conjuncts.

- As the first member of a conjunct, ৬ ŋô can appear as a loop and curl: ৬্ক ŋkô ৬্গ ŋgô.
- As the last member of a conjunct, the curled top of ধ dhô is replaced by a straight downstroke to the right, taking the form of ঝ jhô instead: গ্ধ gdhô দ্ধ ddhô ন্ধ ndhô ব্ধ bdhô.
- As the first member of a conjunct, র rô appears as a diagonal stroke (called রফে *ref*) above the following member: রক rkô র্খ rkhô র্গ rgô র্ঘ rghô etc.
- As the last member of a conjunct, র rô appears as a wavy horizontal line (called রফলা *rôfôla*) under the previous member: খ্র khrô গ্র grô ঘ্র ghrô ব্র brô etc.
 - In some fonts, certain conjuncts with রফলা rôfôla appear using the compressed (and often simplified) form of
 the previous consonant: জ্র jrô ট্র trô ঠ্র thrô ড্র drô ম্র mrô স্র srô.
 - In some fonts, certain conjuncts with রফলা *rôfôla* appear using the abbreviated form of the previous consonant: ক্র krô ত্র trô ভ্র bhrô

• As the last member of a conjunct, য yô appears as a wavy vertical line (called যফলা jôfôla) to the right of the previous member: ক্য kyô খ্য khyô গ্য gyô ঘ্য ghyô etc.

In some fonts, certain conjuncts with যফলা jôfôla appear using special fused forms: দ্য dyô ন্য nyô শ্য śyô
ষ্য syô স্য syô হ্য hyô.

Exceptions

- When followed by র rô, ক kô takes on the abbreviated form of ত tô with the addition of a curl to the right: ক্র
 krô.
- When preceded by the abbreviated form of \(\Omega \) \(\cdot \) \(\cdo \) \(\cdot \) \(\cdo \) \(\cdot \) \(\cdot \)
- When preceded by another b tô, b tô is reduced to a leftward curl: b b ttô.
- When preceded by ষ sô, গ nô appears as two loops to the right: ষ্ণ snô.
- As the first member of a conjunct, or when word-final and followed by no vowel, ত tô can appear as \(\) (called খণ্ড-ত khôndo tô or "broken tô"): \(\) স tsô \(\) প tpô \(\) ক tkô etc.
- When preceded by ই hô, ন nô appears as a curl to the right: হ্ন hnô.
- Certain combinations simply must be memorized: ক্ষ kṣô হুম hmô.
- When followed by ত tô, ক kô takes on the shape of তৃত ttô with the addition of a curl to the right: ক্ত ktô.

Exceptional consonant-vowel combinations

When serving as a vowel sign, ⊌ u, ⊎ ū, and ♥ ṛ take on many exceptional forms.

- Ծ ս
 - When following গ gô or শ śô, it takes on a variant form resembling the final tail of ও o: গু gu শু śu.
 - When following a ত tô that is already part of a conjunct with প pô, ন nô or স sô, it is fused with the ত tô to resemble ও o: ন্তু ntu শ্তু stu প্তু ptu.
 - When following র rô, and in many fonts also following the variant রফলা *rôfôla*, it appears as an upward curl to the right of the preceding consonant as opposed to a downward loop below: রু ru গ্রু gru ত্রু tru থ্রু thru দ্রু dru ধ্রু dhru ব্রু bru ভ্রু bhru শ্রু śru.
 - When following ₹ hô, it appears as an extra curl: ₹ hu.
- উū
 - When following র rô, and in many fonts also following the variant রফলা *rôfôla*, it appears as a downstroke to the right of the preceding consonant as opposed to a downward hook below: রু rū গ্রু grū থ্রু thrū দ্রু drū ধ্রু dhrū ভ্রু bhrū শ্রু śrū.
- ঋr
 - When following ই hô, it takes the variant shape of উ ū: ই hṛ.

Conjuncts of three consonants also exist, and follow the same rules as above. Examples include স sô + ত tô +র rô = স্ত্র strô, ম mô + প pô + র rô = ম্প্র mprô, ও ŋô + ক kô + ষ ṣô = ঙ্ক্ষ ŋkṣô, জ jô + জ jô + ৱ wô = জ্জ্ব jjwô, ক kô + ষ ṣô + ম mô = ক্ষ্ম kṣmô. Theoretically, four-consonant conjuncts can also be created, as in র rô + স sô + চ tô + র rô = র্স্ট্র rstrô, but these are not found in real words.

Modifiers and others

Symbol with [kɔ]	Name	Function	Transliteration	IPA
<u>क्</u>	hôshonto "final hôsh"	Suppresses the inherent vowel [0]	k	/k/
<u>ক</u> [khônđo tô "broken tô"	Final unaspirated dental [t] (v)	kôt	/kot/
কং	ônushshôr	Final velar nasal	kông	/koŋ/
কঃ	bishôrgo	1. pronounced as syllable-final voiceless breath, as in উঃ 2. isn't pronounced, but geminates the following consonant, as in দুঃসময় 3. isn't pronounced at all, as in দুঃস্থ	-	 [uh] [du∫:omoj] [dustho]
কঁ	chôndrobindu "moon-dot"	Vowel nasalization	kôñ	/kő/

|+ Modifier and other graphemes in Bengali

ঃ -h and ং -ng are also often used as abbreviation marks in Bengali, with ং -ng used when the next sound following the abbreviation would be a nasal sound, and ঃ -h otherwise. For example ডঃ dôh stands for ডক্টর dôktor "doctor" and নং nông stands for নম্বর nômbor "number". Some abbreviations have no marking at all, as in ঢাবা dhabi for ঢাকা বিশ্ববিদ্যালয়. Dhaka Bishshobiddalôe "Dhaka University". The full stop can also be used when writing out English letters as initials, such as ই.ইউ. i iu "E.U.".

The $j\hat{o}ph\hat{o}la$ is sometimes used as a diacritic to indicate non-Bengali vowels of various kinds in transliterated foreign words. For example, the schwa is indicated by a $j\hat{o}ph\hat{o}la$, the French u and the German umlaut ü as ঙ্য, the German umlaut ö as ঙ্য or এয, etc.

The apostrophe, known in Bengali as উর্ধ্বক্ষা *urdhokôma* "upper comma", is sometimes used to distinguish between homographs, as in পাটা *paţa* "plank" and পাটা *paţa* "the leg". Sometimes a hyphen is used for the same purpose (as in পা-টা, an alternative of পাটা).

Digits and numerals

The Bengali script has ten digits (graphemes or symbols indicating the numbers from 0 to 9), which are variants of Indian numerals (known as Arabic numerals in the West). Bengali digits have no horizontal headstroke or "matra".

English digits	0	1	2	3	4	5	6	7	8	9
Bengali digits	0	۵	2	৩	8	¢	৬	٩	ь	\$
Bengali names	shunno	êk	dui	tin	char	pãch	chhôe	shat	aţ	nôe
of digits	শূন্য	এক	দুই	তনি	চার	পাঁচ	ছ্য.	সাত	আট	नय.

|+ Bengali digits

Numbers larger than 9 are written in Bengali using a positional base 10 numeral system (the decimal system), just as in English. A period or dot is used to denote the decimal separator, which separates the integral and the fractional parts of a decimal number. When writing large numbers with many digits, commas are used as delimiters to group digits, indicating the thousand (হাজার hajar), the hundred thousand or lakh (লাখ lakh or লক্ষ lokkho), and the ten million or hundred lakh or crore (কলেটি koți or ক্রন্ডে kror) units. In other words, going leftwards from the decimal separator, the first grouping consists of three digits, and the subsequent groupings always consist of 2 digits.

For example, the English number 17,557,345 will be written in traditional Bengali as \$,9¢,৫৭,৩৪৫ (এক কটে), পঁচাত্তর লাখ, সাতান্ন হাজার, তনি শ প্য তাল্লশি êk koţi põchattor lakh, shatanno hajar, tin sho põetallish, "one crore, seventy-five lakhs, fifty-seven thousand, three hundred forty-five").

The matra

Whereas in western scripts (Latin, Cyrillic, etc.) the letter-forms stand on an invisible baseline, the Bengali letter-forms hang from a visible horizontal left-to-right headstroke called NIOAI matra (not to be confused with its Hindi cognate matra, which denotes the dependent forms of Hindi vowels). The presence and absence of this matra can be important. For example, the letter \mathfrak{D} [to] and the numeral \mathfrak{D} "3" are distinguishable only by the presence or absence of the matra, as is the case between the consonant cluster \mathfrak{D} [tro] and the independent vowel \mathfrak{D} [e]. The letter-forms also employ the concepts of letter-width and letter-height (the vertical space between the visible matra and an invisible baseline).

Punctuation marks

Bengali punctuation marks, apart from the downstroke dați (l), the Bengali equivalent of a full stop, have been adopted from western scripts and their usage is similar. Commas, semicolons, colons, quotation marks, etc. are the same as in English. The concept of using capital letters is absent in the Bengali script, hence proper names are unmarked.

Characteristics of the Bengali text

Direction

Bengali text is written and read horizontally, from left to right.

Size

The consonant graphemes and the full form of vowel graphemes fit into an imaginary rectangle of uniform size (i.e. uniform width and height). The size of a consonant conjunct, regardless of its complexity, is deliberately maintained the same as that of a single consonant grapheme, so that diacritic vowel forms can be attached to it without any distortion.

Spacing

In a typical Bengali text, orthographic words, i.e., words as they are written, can be seen as being separated from each other by an even spacing. Graphemes within a word are also evenly spaced, but this spacing is much narrower than the spacing between words.

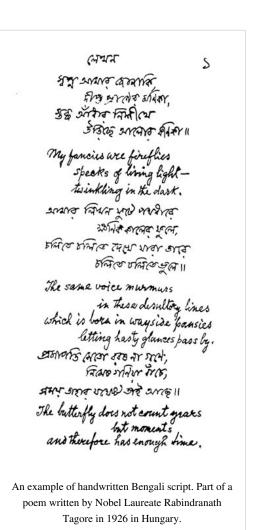
Punctuation marks

As discussed earlier, the Bengali punctuation marks are often the same as their English counterparts, both in form and function.

Characteristics of the orthographic word

In every Bengali orthographic word, one can find different kinds of graphemes and their combinations, and they are as follows:

 Independent form of vowel graphemes, which can be found at the beginning of a word or after another vowel sound.



• Consonant graphemes (or consonant conjuncts) with no diacritic vowel form attached to them. An inherent vowel (either /ɔ/ or /o/, depending on context) is nevertheless assumed to be attached to them.

- Consonant graphemes (or consonant conjuncts) with a diacritic vowel form attached to them.
- · Other modifier symbols indicating nasalization of vowels, suppression of the inherent vowel, etc.

The "matra"

The *matra* or the horizontal headstroke on each grapheme usually add up and often form a continuous single headstroke over the entire orthographic word, with different graphemes hanging down from it. This gives Bengali text a distinct look. Among other modern Indic scripts, Devanagari also has this characteristic, as does the Gurmukhi alphabet used to write Punjabi.

Inconsistencies

The following inconsistencies are inherent in the Bengali script and orthography. They often put additional burden on the person learning the script. The inconsistencies manifest themselves in various ways. Sometimes there are multiple different letters or symbols for the same sound (over-production). Sometimes a letter loses its original sound value. In other instances, the coverage of phonological information by the script is incomplete, inconsistent and/or ambiguous. Most of these inconsistencies can be attributed to the fact that the script was originally conceived to represent Sanskrit sounds.

Redundant graphemes for the vowel sounds [i] and [u]

The Bengali script has two symbols for the vowel sound [i] and two symbols for the vowel sound [u]. This redundancy stems from the time when this script was used to write Sanskrit, a language that had a short [i] and a long [i:], and a short [u] and a long [u:]. These letters are preserved in the Bengali script with their traditional names of *hrôshsho i/u* (lit. "short i/u") and *dirgho i/u* (lit. "long i/u") despite the fact that they are no longer pronounced differently in ordinary speech. These graphemes do serve an etymological function, however, in preserving the original Sanskrit spelling in *tôtshomo* Bengali words (i.e., words that were borrowed from Sanskrit).

The vowel grapheme ri

The grapheme called *ri* does not really represent a vowel phoneme in Bengali, rather the consonant-vowel combination /ri/. Nevertheless, it is included in the vowel section of the inventory of the Bengali script. This inconsistency is also a remnant from Sanskrit, where the grapheme represents a retroflex approximant, a sound considered a vowel in Sanskrit.

The vowel sound [æ]

Even though the near-open front unrounded vowel [æ] is one of the seven main vowel sounds in the standard Bengali language, no distinct vowel symbol has been allotted for it in the script, since there is no [æ] sound in Sanskrit, the primary written language when the script was conceived. As a result, this sound is orthographically realized by multiple means in modern Bengali orthography, usually using some combination of a, a, and the jôfôla (diacritic form of the consonant grapheme a a a0 as seen in the following examples:

- word-initially: এত [æt̪o] "so much", এ্যাকাডমৌ [ækademi] "academy", অ্যামবা [æmiba] "amoeba"
- word-medially and following a consonant: দখো [dækha] "to see", ব্যস্ত [bæst̪o] "busy", ব্যাকরণ [bækɔron] "grammar".

\overline{ullet} and lacksquare

In native or *tôdbhôbo* Bengali words, syllable-final ত *tô* is pronounced /t̪/, as in নাতন /nat̪ni/ "grand daughter", করাত /kɔrat̪/ "saw", etc.

This is an over-production inconsistency, where the sound /t/ is realized by both \odot and \square . This creates confusion among inexperienced writers of Bengali. There is no simple way of telling which symbol should be used. Usually, the contexts where \square is used need to be memorized, as these are less frequent.

শ, ষ and স

Three graphemes—শ talobbo shô "palatal s", ষ murdhonno shô "cerebral s", and স donto shô "dental s"—are used to represent the voiceless palato-alveolar fricative [ʃ], as seen in their word-final pronunciations in ফসিফসি [pʰiʃpʰiʃ] "whisper", বিশ [biʃ] "twenty" and বিষ [biʃ] "poison". The grapheme স donto shô "dental s", however, does retain the voiceless alveolar fricative [s] sound when used as the first component in certain consonant conjuncts as in স্খলন [skʰɔlon] "fall", স্পন্দন [spɔndon] "beat", etc.

জ and য

There are two letters (জ and য) for the voiced postalveolar affricate [dʒ]. Compare জাল [dʒal] "net" and যাও [dʒao] "Go!".

9

What was once pronounced and written as a retroflex nasal $\P[\eta]$ is now pronounced as an alveolar [n] (unless conjoined with another retroflex consonant such as $\overline{\mathfrak{b}}$, $\overline{\mathfrak{b}}$, $\overline{\mathfrak{b}}$ and $\overline{\mathfrak{b}}$), although the spelling does not reflect this change.

Comparison

Oŗiyā	ଅ	ଆ	ଇ	ଈ	ଉ	ଊ	ୠ	থ	ঐ	Ġ	ଔ
Devanāgarī	अ	आ	इ	ई	उ	ক	ऋ	ए	ऐ	ओ	औ
Bengali	অ	আ	ঐ	ঈ	উ	উ	ঋ	ঘ	ঐ	ও	ঔ
Telugu	ಅ	હ	ಇ	ఈ	ය	ఊ	ಬು	٦	ສ	ಒ	ఔ
Translit.	a	ā	i	ī	u	ū	ŗ	e	ai	0	au

Oŗiyā
Devanāga
Bengali
Telugu
Translit.

Oriyā

Oriyā

Devanāgai Bengali Telugu Translit.

Devanāgar Bengali Telugu Translit.

Romanization

The romanization of Bengali is the representation of the Bengali language in the Latin script. While different standards for romanization have been proposed for Bengali, these have not been adopted with the degree of uniformity seen in languages such as Japanese or Sanskrit. [5] Most standardized Bengali romanizations are adapted from standards proposed for Indic languages, and these models are compared below.

History

The Portuguese missionaries stationed in Bengal in the 16th century were the first people to employ the Latin alphabet in writing Bengali books, the most famous of which are the *Crepar Xaxtrer Orth, Bhed* and the *Vocabolario em idioma Bengalla, e Portuguez dividido em duas partes*, both written by Manuel da Assumpção. But the Portuguese-based romanization did not take root. In the late 18th century Augustin Aussant used a romanization scheme based on the French alphabet. At the same time, Nathaniel Brassey Halhed used a romanization scheme based on English for his Bengali grammar book. After Halhed, the renowned English philologist and oriental scholar Sir William Jones devised a romanization scheme for Bengali and for Indian languages in general, and published it

in the *Asiatick Researches* journal in 1801.^[6] This scheme came to be known as the "Jonesian System" of romanization, and served as a model for the next century and a half.

Transliteration vs transcription

The Romanization of a language written in a non-Roman script can be based on transliteration (orthographically accurate, i.e. the original spelling can be recovered) or transcription (phonetically accurate, i.e. the pronunciation can be reproduced). This distinction is important in Bengali as its orthography was adopted from Sanskrit, and ignores sound change processes of several millennia. To some degree, all writing systems differ from the way the language is pronounced, but this may be more extreme for languages like Bengali. For example, the three letters \P , \P , and \P had distinct pronunciations in Sanskrit, but over several centuries, the standard pronunciation of Bengali (usually modeled on the Nadia dialect), has lost these phonetic distinctions (all three are usually pronounced as IPA [ʃ]) while the spelling distinction nevertheless persists in orthography.

In written texts, it is easy to distinguish between homophones such as MT9 shap "curse" and MT9 shap "snake". Such a distinction could be particularly relevant in searching for the term in an encyclopedia, for example. However, the fact that the words sound identical means that they would be transcribed identically; thus, some important meaning distinctions cannot be rendered in a transcription model. Another issue with transcription systems is that cross-dialectal and cross-register differences are widespread, and thus the same word or lexeme may have many different transcriptions. Even simple words like NA "mind" may be pronounced "mon", "môn", or (in poetry) "mônô" (e.g. the Indian national anthem, Jana Gana Mana).

Often, different phonemes (meaningfully different sounds) are represented by the same symbol or grapheme. Thus, the vowel $\mathfrak A$ can represent both [e] (এল elo [elo] "came"), or [$\mathfrak E$] (এক $\hat ek$ [$\mathfrak E k$] "one"). Occasionally, words written in the same way (homographs) may have different pronunciations for differing meanings: মত can mean "opinion" (pronounced $m\hat ot$), or "similar to" ($m\hat oto$). Thus, some important phonemic distinctions cannot be rendered in a transliteration model. In addition, when representing a Bengali word to allow speakers of other languages to pronounce it easily, it may be better to use a transcription, which does not include the silent letters and other idiosyncrasies (e.g. স্বাস্থ্য shastho, spelled shastho, spelled shastho, or shastho of shastho or shasth

Comparison of romanizations

Comparisons of standard romanization schemes for Bengali are given in the table below. Two standards are commonly used for transliteration of Indic languages including Bengali. Many standards (e.g. NLK / ISO), use diacritic marks and permit case markings for proper nouns. Newer forms (e.g. Harvard-Kyoto) are more suited for ASCII-derivative keyboards, and use upper- and lower-case letters contrastively and forgo normal standards for English capitalization.

- "NLK" stands for the diacritic-based letter-to-letter transliteration schemes, best represented by the National Library at Kolkata romanization or the ISO 15919, or IAST. This is the ISO standard, and it uses diacritic marks (e.g. ā) to reflect the additional characters and sounds of Bengali letters.
- ITRANS is an ASCII representation for Sanskrit; it is one-to-many, i.e. there may be more than one way of transliterating characters, which can make internet searching more complicated. ITRANS representations forgo capitalization norms of English so as to be able to represent the characters using a normal ASCII keyboard.
- "HK" stands for two other case-sensitive letter-to-letter transliteration schemes: Harvard-Kyoto and XIAST ^[7] scheme. These are similar to the ITRANS scheme, and use only one form for each character.
- XHK or Extended Harvard-Kyoto (XHK ^[8]) stands for the case-sensitive letter-to-letter Extended Harvard-Kyoto transliteration. This adds some specific characters for handling Bengali text to IAST.

"Wiki" stands for a phonemic transcription-based romanization. It is a sound-preserving transcription based on
what is perceived to be the standard pronunciation of the Bengali words, with no reference to how it is written in
Bengali script. It uses diacritics often used by linguists specializing in Bengali (other than IPA), and is the
transcription system used to represent Bengali sounds in Wikipedia articles.

Examples

The following table includes examples of Bengali words Romanized using the various systems mentioned above.

Example words

In orthography	Meaning	NLK	хнк [8]	ITRANS	нк	Wiki	IPA
มค	mind	mana	mana	mana	mana	mon	[mon]
সাপ	snake	sāpa	sApa	saapa	sApa	shap	[ʃap]
শাপ	curse	śāpa	zApa	shaapa	zApa	shap	[ʃap]
মত	opinion	mata	mata	mata	mata	môt	[tcm]
মত	like	mata	mata	mata	mata	môto	[ojcm]
তলে	oil	tēla	tela	tela	tela	tel	[tel]
গলে	went	gēla	gela	gela	gela	gêlo	[gɛlo]
জ্বর	fever	jvara	jvara	jvara	jvara	jôr	[dʒɔr]
স্বাস্থ্য	health	svāsthya	svAsthya	svaasthya	svAsthya	shastho	[ʃast̪ʰo]
বাংলাদশে	Bangladesh	bāṃlādēśa	bAMlAdeza	baa.mlaadesha	bAMlAdeza	Bangladesh	[baŋlad̞eʃ]
ব্যঞ্জনধ্বন	consonant	byañjanadhvani	byaJjanadhvani	bya~njanadhvani	byaJjanadhvani	bênjondhoni	[bɛndʒond̥ʰoni]
আত্মহত্যা	suicide	ātmahatyā	AtmahatyA	aatmahatyaa	AtmahatyA	attõhotta	[at̞ːõhot̞ːa]

Romanization reference

The IPA (International Phonetic Alphabet) transcription is provided in the rightmost column, representing the most common pronunciation of the glyph in Standard Colloquial Bengali, alongside the various romanizations described above.

Vowels

Symbol	NLK	хнк [8]	ITRANS	нк	Wiki	IPA
অ	a	a	a	a	ô/o	[o]/[o]
আ	ā	ā	A~aa	A	a	[a]
<i>স</i>	i	i	i	i	i	[i]
त्रे	ī	ī	I~ii	I	i	[i]
উ	u	u	u	u	u	[u]
উ	ū	ū	U~uu	U	u	[u]
ঋ	ŗ	ŗ	RRi~R^i	R	ri	[ri]
9	ē	e	e	e	ê/e	[ε]/[e]
ప్ర	ai	ai	ai	ai	oi	[oj]
છ	ō	О	o	0	0	[o]

🕏 au au	au	au	ou	[ow]	
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Consonants

Symbol	NLK	хнк [8]	ITRANS	HK	Wiki	IPA
ক	k	k	k	k	k	[k]
খ	kh	kh	kh	kh	kh	[k ^h]
গ	g	g	g	g	g	[g]
ঘ	gh	gh	gh	gh	gh	[g ^h]
ঙ	ń	ń	~N	G	ng	[ŋ]
Б	с	с	ch	с	ch	[tʃ]
ছ	ch	ch	Ch	ch	chh	[tʃʰ]
জ	j	j	j	j	j	[dʒ]
ঝ	jh	jh	jh	jh	jh	[d3 ^h]
යා	ñ	ñ	~n	J	n	[n]
ট	ţ	ţ	T	Т	ţ	[t]
र्ठ	ţh	ţh	Th	Th	ţh	[th]
ড	d	d	D	D	đ	[d]
ড.	d	₫	.D	P	ŗ	[٢]
চ	фh	фh	Dh	Dh	đh	[d _p]
᠍.	фh	dh	.Dh	Ph	ŗ	[٢]
ণ	ņ	ņ	N	N	n	[n]
ত	t	t	t	t	t	[<u>t</u>]
থ	th	th	th	th	th	[t̪ʰ]
দ	d	d	d	d	d	[d̪]
ধ	dh	dh	dh	dh	dh	[ď _þ]
ন	n	n	n	n	n	[n]
প	p	р	p	p	p	[p]
ফ	ph	ph	ph	ph	ph	[p ^h]
ব	b	b	b	b	b	[b]
<u>⊌</u>	bh	bh	bh	bh	bh	[b ^h]
ম	m	m	m	m	m	[m]
য	ý	у	у	у	j	[dʒ]
য.	у	ý	Y	Y	e/-	[e]/ -
র	r	r	r	r	r	[r]
ল	1	1	1	1	1	[1]
भा	ś	ś	sh	Z	sh/s	[ʃ]/[s]
ষ	Ş	Ş	Sh	S	sh	()]
স	s	S	S	s	sh/s	[ʃ]/[s]
र	h	h	h	h	h	[ħ]

Miscellaneous

Symbol	NLK	хнк [8]	ITRANS	нк	Wiki	IPA
8	ķ	ķ	Н	Н	varies	varies
ং	m	ṁ	.m	M	ng	[ŋ]
v	m	m	.N	~	~	[~] (nasalization)
্য	у	у	у	у	varies	varies
্ব	v	v	V	v	varies	varies
ক্ষ	kș	kş	Х	kS	kkh/kh	[k ^h ː]/[k ^h]
জ্ঞ	jñ	jñ	GY	jJ	gg/g	[g:]/[g]
শ্র	śr	śr	shr	zr	sr	[sr]

Unicode

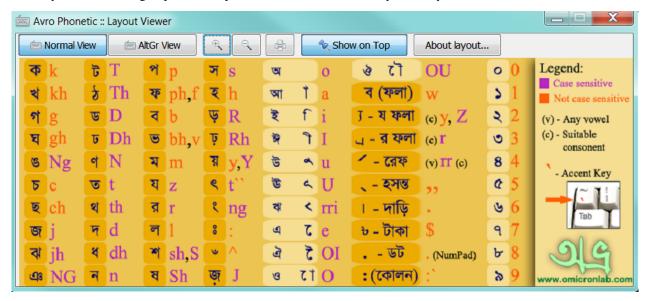
Bengali script was added to the Unicode Standard in October, 1991 with the release of version 1.0. The Unicode block for Bengali is U+0980 ... U+09FF:

	Bengali ^[1] Unicode.org chart ^[2] (PDF)															
	0	1	2	3	4	5	6	7	8	9	A	В	C	D	Е	F
U+098x		\circ	ৎ	8		অ	আ	ই	त्र	উ	উ	ঋ	\$			ଘ
U+099x	ক্র			ઉ	જ	ক	খ	গ	ঘ	ঙ	Б	ছ	জ	ঝ	යා	ট
U+09Ax	ঠ	ড	ঢ	ণ	ত	থ	দ	ধ	ন		প	ফ	ব	ভ	ম	য
U+09Bx	র		ল				भ	ষ	স	হ				ঽ	T	f
U+09Cx	7	6	م	<	٤			ζ	ξ			CI	ÇÌ			
U+09Dx								f					ড়	ঢ়		য়
U+09Ex	ৠ	રૂ	\$	\$ \$			0	5	2	৩	8	¢	৬	٩	٢	১
U+09Fx	ৰ	ৱ	`	ᡠ	7	ש	シ	1	h	0	۰					
Notes 1.^ As of Unicode version 6.3																

Bengali keyboard layouts

Avro Phonetic Keyboard

This keyboard is an integral part of an open source initiative, Avro Keyboard, by Omicron Lab

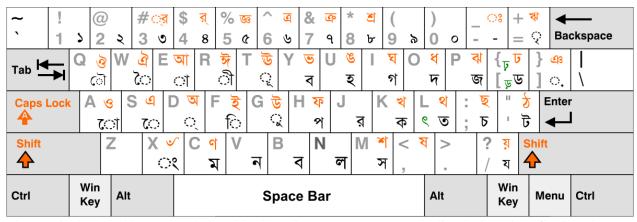


Bijoy keyboard layout

The Bijoy keyboard layout was commercialized by Mostafa Jabbar as part of the Bengali software package Bijoy Ekushe.



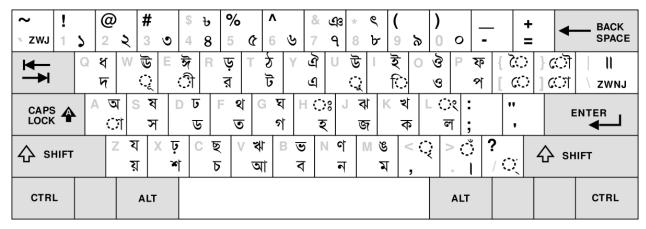
Inscript keyboard layout



The InScript keyboard layout was designed by the Indian government to standardize the inputting of Indic scripts.

Probhat keyboard layout

People used to typing Romanized forms of Bengali will find it easier to use a more phonetic layout such as the Probhat layout shown below, which is one of several Bengali input methods available.



Grapheme frequency

According to Bengali linguist Munier Chowdhury, the following 9 graphemes are the most frequent in Bengali texts: [9]

Grapheme	Percentage
আ	11.32
ඛ	8.96
র	7.01
অ	6.63
ব	4.44
ক	4.15
ল	4.14
ত	3.83
ম	2.78

Collating sequence

There is yet to be a uniform standard collating sequence (sorting order of graphemes to be used in dictionaries, indices, computer sorting programs, etc.) of Bengali graphemes. Experts in both India and Bangladesh are currently working towards a common solution for this problem.

Sample texts

Article 1 of the Universal Declaration of Human Rights

Bengali in Bengali alphabet

ধারা ১: সমস্ত মানুষ স্বাধীনভাবে সমান মর্যাদা এবং অধকাির নযি়ে জন্মগ্রহণ কর।ে তাঁদরে ববিকে এবং বুদ্ধি আছে;ে সুতরাং সকলরেই এক অেপররে প্রতভি্রাতৃত্বসুলভ মনাভাব নযি়ে আচরণ করা উচতি।

Bengali in Romanization

Dhara êk: Shômosto manush shadhinbhabe shôman môrjada ebong odhikar nie jônmogrohon kôre. Tãder bibek ebong buddhi achhe; shutorang shôkoleri êke ôporer proti bhrattrittoshulôbh monobhab nie achoron kôra uchit.

Bengali in IPA

d^hara æk ʃɔmosto manuʃ ʃadhinbhabe ʃɔman mɔrdʒada eboŋ odhikar nie dʒɔnmogrohon kɔre. tãder bibek eboŋ budhi atʃhe; ʃutoraŋ ʃɔkoleri æke ɔporer proti bhratːritːoʃulɔbh monobhab nie atʃoron kɔra utʃit.

Gloss

Clause 1: All human free-manner-in equal dignity and right taken birth-take do. Their reason and intelligence exist; therefore everyone-indeed one another's towards brotherhood-ly attitude taken conduct do should.

Translation

Article 1: All human beings are born free and equal in dignity and rights. They are endowed with reason and conscience. Therefore, they should act towards one another in a spirit of brotherhood.

Amar Shonar Bangla

The following is a sample text of script, from the song *Amar Shonar Bangla* (আমার সনোর বাংলা) written by Rabindranath Tagore (রবীন্দ্রনাথ ঠাকুর *Robindronath Thakur*). The song was later adopted as the National anthem of Bangladesh.

Bangla (Bengali) script	Romanization	Literal translation
মা, তবের মুখরে বাণী	Ma, tor mukher bani	Oh mother mine, words from your
আঁমার কান েলাগ	Amar kane lage	lips
	Sudhar môto-	Are like nectar to my ears.
সুধার মত্ে₋	Ma tor bôdonkhani molin	Ah, what a thrill!
মা ত্রার বদন খানি মলনি হলে	hole	If sadness, O mother mine,
আমনিয ় ন	ami nôyon	Casts a gloom on your face,
ও মায় আমনিয়ন জলভোসা	o may ami nôyonjôle bhashi	My eyes are filled with tears!
	shonar bangla,	My Bengal of Gold,
স োনা র বাংলা,	ami tomay bhalobashi!	I love you.
আমতিলমায় ভালবাস		

Jana Gana Mana

The following is a sample text of script, from the song Jana Gana Mana (জন গণ মন Jôno Gôno Mono). The selection is a Bengali song, written in Shadhubhasha (সাধুভাষা) style. The song was later adopted as the national anthem of India. It was written by Rabindranath Tagore (রবীন্দ্রনাথ ঠাকুর Robindronath Thakur) who is acknowledgedWikipedia:Manual of Style/Words to watch#Unsupported attributions as the single most important and defining figure of Bengali literature.

জনগণমন-অধনিায় ক জয় হ েভারতভাগ্যবধিাতা!
পঞ্জাব সন্ধু গুজরাট মরাঠা দ্রাবিডি উ বিল বঙ্গ
বিন্ধ্য হিমাচল যমুনা গঙ্গা উচ্ছলজলধিতরঙ্গ
তব শুভ নাম েজাগ,ে তব শুভ আশসি মাগ,ে
গাহতেব জয় গাথা।
জনগণমঙ্গলদায় ক জয় হ েভারতভাগ্যবধিাতা!
জয় হ, জয় হ, জয় জয় জয়, জয় , জয় হ ।।

In Romanization:

Jônogônomono-odhinaeoko jôeô he Bharotobhaggobidhata! Pônjabo Shindhu Gujoraţo Môraţha Drabiţo Utkôlo Bônggo, Bindho Himachôlo Jomuna Gôngga Uchchhôlojôlodhitoronggo, Tôbo shubho name jage, tôbo shubho ashish mage, Gahe tôbo jôeogatha.

Jônogônomonggolodaeoko jôeô he Bharotobhaggobidhata!

Jôeo he, jôeo he, jôeo he, jôeo jôeo, jôeo he!

Footnotes and references

- [1] Ancient Scripts (http://www.ancientscripts.com/bengali.html)
- [2] http://www.unicode.org/charts/PDF/U0980.pdf
- [3] Different Bengali linguists give different numbers of Bengali diphthongs in their works depending on methodology, e.g. 25 (Chatterji 1939: 40), 31 (Hai 1964), 45 (Ashraf and Ashraf 1966: 49), 28 (Kostic and Das 1972:6-7) and 17 (Sarkar 1987).
- [4] The natural pronunciation of the grapheme **অ**, whether in its independent (visible) form or in its "inherent" (invisible) form in a consonant grapheme, is . But its pronunciation changes to in the following contexts:
 - আ is in the first syllable and there is a ই or উ in the next syllable, as in আত oti "much", বলছ bolcchi "(I am) speaking"
 - if the অ is the inherent vowel in a word-initial consonant cluster ending in *rôfôla* "rô ending" , as in প্রথম *prothom* "first"
 - if the next consonant cluster contains a jôfôla "jô ending", as in অন্য onno "other", জন্য jonno "for"
- [5] In Japanese there exists some debate as to whether to accent certain distinctions, such as Tōhoku vs Tohoku. Sanskrit is well standardized, because the speaking community is relatively small, and sound change is not a large concern
- [6] Jones 1801
- [7] http://wiki.gaudiyakutir.com/XIAST
- [8] http://wiki.gaudiyakutir.com/XHK
- [9] See Chowdhury 1963

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External links

- Omniglot Bengali Alphabet (http://www.omniglot.com/writing/bengali.htm) digital encoding and rendering
- Free Unicode Compliant Bangla Typing Software (http://www.omicronlab.com/avro-keyboard.html)
- Ekushey Free Unicode Bangla Computing Solutions (http://www.ekushey.org)
- Free Bangla Unicode Fonts (http://www.nongnu.org/freebangfont/)
- Ankur Supporting Bangla (Bengali) on GNU/Linux (http://www.bengalinux.org/)
- Open source Bangla Transliteration Library (http://sourceforge.net/projects/openbangsee/)

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