

# Telugu Script



4.5 Telugu Code Chart

	0C0	0C1	0C2	0C3	0C4	0C5	0C6	0C7
0		ఐ 0C10	ఠ 0C20	డ 0C30	ఢ 0C40		ఝ 0C60	
1	ఠ 0C01		ఢ 0C21	డ 0C31	ఠ 0C41	ఠ 0C51	ఞ 0C61	
2	ఠ 0C02	ఠ 0C12	ఠ 0C22	ఠ 0C32	ఠ 0C42	ఠ 0C52		
3	ఠ 0C03	ఠ 0C13	ఠ 0C23	ఠ 0C33	ఠ 0C43	ఠ 0C53		
4		ఠ 0C14	ఠ 0C24		ఠ 0C44	ఠ 0C54	ఠ 0C64	
5	ఠ 0C05	ఠ 0C15	ఠ 0C25	ఠ 0C35		ఠ 0C55	ఠ 0C65	
6	ఠ 0C06	ఠ 0C16	ఠ 0C26	ఠ 0C36	ఠ 0C46	ఠ 0C56	ఠ 0C66	
7	ఠ 0C07	ఠ 0C17	ఠ 0C27	ఠ 0C37	ఠ 0C47		ఠ 0C67	
8	ఠ 0C08	ఠ 0C18	ఠ 0C28	ఠ 0C38	ఠ 0C48		ఠ 0C68	
9	ఠ 0C09	ఠ 0C19		ఠ 0C39			ఠ 0C69	
A	ఠ 0C0A	ఠ 0C1A	ఠ 0C2A	ఠ 0C3A	ఠ 0C4A		ఠ 0C6A	
B	ఠ 0C0B	ఠ 0C1B	ఠ 0C2B		ఠ 0C4B		ఠ 0C6B	
C	ఠ 0C0C	ఠ 0C1C	ఠ 0C2C	ఠ 0C3C	ఠ 0C4C		ఠ 0C6C	
D		ఠ 0C1D	ఠ 0C2D	ఠ 0C3D	ఠ 0C4D		ఠ 0C6D	
E	ఠ 0C0E	ఠ 0C1E	ఠ 0C2E	ఠ 0C3E			ఠ 0C6E	
F	ఠ 0C0F	ఠ 0C1F	ఠ 0C2F	ఠ 0C3F			ఠ 0C6F	



### 4.5.1 Telugu Code Chart Details

Code Point	Character	Description	Code Point	Character	Description
<b>Various signs</b>					
0C01	◌̣	TELUGU SIGN CANDRABINDU	0C22	ఢ	TELUGU LETTER DDHA
0C02	◌̇	TELUGU SIGN ANUSVARA	0C23	ణ	TELUGU LETTER NNA
0C03	◌̈́	TELUGU SIGN VISARGA	0C24	త	TELUGU LETTER TA
<b>Independent vowels</b>					
0C05	అ	TELUGU LETTER A	0C25	థ	TELUGU LETTER THA
0C06	ఆ	TELUGU LETTER AA	0C26	ద	TELUGU LETTER DA
0C07	ఇ	TELUGU LETTER I	0C27	ధ	TELUGU LETTER DHA
0C08	ఈ	TELUGU LETTER II	0C28	న	TELUGU LETTER NA
0C09	ఉ	TELUGU LETTER U	0C29		<reserved>
0C0A	ఊ	TELUGU LETTER UU	0C2A	ప	TELUGU LETTER PA
0C0B	ఋ	TELUGU LETTER VOCALIC R	0C2B	ఫ	TELUGU LETTER PHA
0C0C	ౠ	TELUGU LETTER VOCALIC L	0C2C	బ	TELUGU LETTER BA
0C0D		Reserved	0C2D	భ	TELUGU LETTER BHA
0C0E	ఎ	TELUGU LETTER E	0C2E	మ	TELUGU LETTER MA
0C0F	ఏ	TELUGU LETTER EE	0C2F	య	TELUGU LETTER YA
0C10	ఐ	TELUGU LETTER AI	0C30	ర	TELUGU LETTER RA
0C11		Reserved	0C31	ఱ	TELUGU LETTER RRA
0C12	ఒ	TELUGU LETTER O	0C32	ల	TELUGU LETTER LA
0C13	ఓ	TELUGU LETTER OO	0C33	ల్ల	TELUGU LETTER LLA
0C14	ఔ	TELUGU LETTER AU	0C34		Reserved
<b>Consonants</b>					
0C15	క	TELUGU LETTER KA	0C35	వ	TELUGU LETTER VA
0C16	ఖ	TELUGU LETTER KHA	0C36	శ	TELUGU LETTER SHA
0C17	గ	TELUGU LETTER GA	0C37	ష	TELUGU LETTER SSA
0C18	ఘ	TELUGU LETTER GHA	0C38	స	TELUGU LETTER SA
0C19	ఙ	TELUGU LETTER NGA	0C39	హ	TELUGU LETTER HA
0C1A	చ	TELUGU LETTER CA	0C3A	◌̣	TELUGU INVISIBLE LETTER
0C1B	ఛ	TELUGU LETTER CHA	0C3C	◌̣̇	TELUGU SIGN NUKTA • Placed at the bottom left corner of the letter
0C1C	జ	TELUGU LETTER JA	0C3D	ఽ	TELUGU SIGN AVAGRAHA
0C1D	ఝ	TELUGU LETTER JHA	<b>Dependent vowel signs</b>		
0C1E	ఞ	TELUGU LETTER NYA	0C3E	ౠ	TELUGU VOWEL SIGN AA
0C1F	ట	TELUGU LETTER TTA	0C3F	ౡ	TELUGU VOWEL SIGN I
0C20	థ	TELUGU LETTER TTHA	0C40	ౢ	TELUGU VOWEL SIGN II
0C21	డ	TELUGU LETTER DDA	0C41	ౣ	TELUGU VOWEL SIGN U
			0C42	౤	TELUGU VOWEL SIGN UU
			0C43	౥	TELUGU VOWEL SIGN VOCALIC R
			0C44	౦	TELUGU VOWEL SIGN VOCALIC RR
			0C45		<reserved>
			0C46	౧	TELUGU VOWEL SIGN E
			0C47	౨	TELUGU VOWEL SIGN EE



0C48	ఐ	TELUGU VOWEL SIGN AI = 0C46 ఱ 0C56 ఱ̇
0C49		<reserved>
0C4A	ఓ	TELUGU VOWEL SIGN O
0C4B	ఔ	TELUGU VOWEL SIGN OO
0C4C	ౌ	TELUGU VOWEL SIGN AU

**Various signs**

0C4D	ఱ	TELUGU SIGN HALANT To take out hidden vowel sound of consonant.
0C4E		<reserved>
0C4F		<reserved>
0C50		<reserved>
0C51	ౠ	TELUGU STRESS SIGN UDATTA
0C52	ౡ	TELUGU STRESS SIGN ANUDATTA
0C53	ౢ	TELUGU GRAVE ACCENT
0C54	ౣ	TELUGU ACUTE ACCENT
0C55	౤	TELUGU LENGTH MARK
0C56	౥	TELUGU AI LENGTH MARK

**Generic additions**

0C60	ఱఱ	TELUGU LETTER VOCALIC RR
0C61	ఱఱ	TELUGU LETTER VOCALIC LL
0C64		TELUGU SIGN PURN VIRAMA
0C65		TELUGU SIGN DEERGH VIRAMA

**Digits**

0C66	౦	TELUGU DIGIT ZERO
0C67	౧	TELUGU DIGIT ONE
0C68	౨	TELUGU DIGIT TWO
0C69	౩	TELUGU DIGIT THREE
0C6A	౪	TELUGU DIGIT FOUR
0C6B	౫	TELUGU DIGIT FIVE
0C6C	౬	TELUGU DIGIT SIX
0C6D	౭	TELUGU DIGIT SEVEN
0C6E	౮	TELUGU DIGIT EIGHT
0C6F	౯	TELUGU DIGIT NINE

**4.5.2 Telugu Script Details**

**Introduction**

**The Telugu language:** Historically the Telugu language is also known by the names, āṁdhraṁ, tenu(ṁ)gu, and Gento.

**Demographic information:** Telugu is one of the major Scheduled languages of India. It has the second largest number of speakers mainly concentrated in South India. It is the official language of Andhra Pradesh and second widely spoken language in Tamilnadu, Karnataka. Considerable number of Telugu speaking minorities live in Maharashtra, Orissa, Madhya Pradesh and West Bengal. Considerable number of Telugu language speakers have migrated to Mauritius, South Africa, and recently to USA, UK, and Australia.

**Genetic affiliation and History:** Telugu belongs to the South-Central branch of the Dravidian family of languages. It is most widely spoken Dravidian language. It is the only literary language outside the South-Dravidian Branch. Its literature goes back to 11th century A.D. Its ancient forms were attested through inscriptions dating back to 200 A.D.

In the early days of 20th century there was a controversy over the use of a particular variety of Telugu as a medium of instruction. There were two varieties, one the literary or grānthika style, and the other the spoken or colloquial style popularly known as vyāvahārika style. Finally the controversy ended in favour of the colloquial standard and the government of Andhra Pradesh has issued a G.O. to use only the colloquial standard as medium of education at all levels.

**The domains of use:** The Telugu language is formally taught in Schools, Colleges and Universities. It is the popular medium of instruction at primary, Secondary and Higher-Secondary and early University education. The Telugu Academy on behalf of the Government of Andhra Pradesh regularly publishes text books in Telugu medium in various subjects for use at Intermediate and graduate levels. It is not used as medium of education in



Technical and Professional courses. In lower levels of administration it is popularly used but in higher levels of administration it is sparingly used. It is the common language in the transactions of the assembly of Andhra Pradesh. As a medium of journalism, it flourishes in Telugu language newspapers, radio-broadcasts, and TV-telecasts. It is also one of the popular medium of feature films produced in the South India.

### The Telugu Script

**Origin & Development:** Telugu is written in Telugu script which is derived from Ashokan Brahmi used in the South India circa 2nd A.D. The Southern Brahmi also known as drāviḍi-brāhmi of 2nd c. A.D. gave rise to vēṅgi-cālukyan script also known as Telugu-Kannada script. By the end of 13th Century A.D., the Telugu and Kannada scripts got separated. In the early combined Telugu-Kannada script, no orthographic distinction was made between the short mid [e, o] /ఎ, ఓ/ and long mid [ē, ō] /ఏ, ఓ/. However, distinct signs were employed to denote the special consonants viz. the trill [ra] /ఱ/ the retroflex lateral [ɭa] /ళ/ and the retroflex palatal [ʒa] /ఱ/ found only in South Indian languages, by 5th c.

**Telugu Alphabet:** The Primary units of Telugu alphabet are syllables, therefore, it should be rightly called a syllabary and most appropriately a mixed alphabetic-syllabic script. Unlike in the Roman alphabet used for English, in the Telugu alphabet the correspondence between the symbols (graphemes) and sounds (phonemes) is more or less exact. However, there exist some differences between the alphabet and the phonemic inventory of Telugu. Since writing habits change slowly and speech changes faster, the script has preserved some symbols which have become otherwise obsolete now in speech. Telugu script is written from left to right and consists of sequences of simple and/or complex characters.

**Common Core and Overall pattern:** The Telugu alphabet can be viewed as consisting of more commonly used inventory, a common core, and an overall pattern comprising all those symbols that are used in all domains. The overall pattern consists of

60 symbols, of which 16 are vowels, 3 vowel modifiers, and 41 consonants.

### Vowels

అ ఆ ఇ ఈ ఉ ఊ ఎ ఏ ఐ ఒ ఓ ఔ  
a ā i ī u ū ṛ e ē ai o ō au

### Vowel Modifiers

అఱ అఱ అఱ  
aṁ aṁ aṁ

### Consonants

క	ఖ	గ	ఘ	ఙ
ka	kha	ga	gha	ṅa
చ	ఛ	జ	ఝ	ఞ
ca	cha	ja	jha	ña
ట	ఠ	డ	ఢ	ణ
ṭa	ṭha	ḍa	ḍha	ṇa
త	థ	ద	ధ	న
ta	tha	da	dha	na
ప	ఫ	బ	భ	మ
pa	pha	ba	bha	ma
య	ర	ల	ళ	వ
ya	ra	la	ḷa	va
శ	ష	స	హ	
śa	ṣa	sa	ha	

### Special/obsolete graphemes

obsolete:

ఱ	ఱ	ఱ	ఱ	ఱ
ṛ	ḷ	ḷ	ṛa	ḷa

deprecated :

క్ష	ఱ	ఱ	ఱ	ఱ
kṣa	ča	ĵa	ṇa	ra

Chart-1: The Telugu alphabet- overall pattern

### Technical Characteristics-Vowels

**Primaries:** There are thirteen vowel signs which occur as stand alone characters viz. [a ā i ī u ū ṛ e ē ai o ō au] /అ ఆ ఇ ఈ ఉ ఊ ఎ ఏ ఐ ఒ ఓ ఔ/ in the common core. Each of these is assigned a Hexa decimal code point in ISCII Standard (BIS 1993), from A4 164 to B1 177 (except for AD 173 and B0 176) or 0C05-0C14 and 0C0A-0C0F in UNICODE Standard 3.0. An additional vocalic/ృ/ occurs in the UNICODE Standard with a code point 0C0C. These vowels are also referred to as primaries or independent vowel signs.



**Secondary vowel signs (guNiMtaM gurtulu):** When a vowel occurs immediately after a consonant it is always represented by a dependent or secondary sign i.e. as a corresponding diacritic on the consonant. In the case of the vowels /r̄, r̄̄, l̄, l̄̄ / the corresponding secondary vowel signs [̄, ̄̄, ̄̄̄, ̄̄̄̄] are placed on the right side of the consonant. Since, the Telugu alphabet is a syllabary the primary consonant always has an inherent vowel [a] /~/. The secondary vowel sign is attached to the consonant after removing the vowel /a/. In Telugu, normally (some exceptions exist) the secondary vowel signs are attached to consonants in the place where the vowel sign for /a/ would occur as /~/ (talakattu) in unmodified primary consonants. This is unlike in Devanagari where the consonant does not drop or lose explicitly the vowel sign /a/ (the top bar or lakir?) but simply get attached with a secondary vowel sign. Therefore the phenomenon in Telugu and Kannada allows us to interpret secondary vowel signs as not just contextually determined vowel allographs but functionally distinct and complex ones from those of the primary or stand-alone vowel characters. This distinction between the primary vowel signs and secondary vowels signs can be expressed in the following illustrations:

ki=k+i — 1 (where [k] is pure consonant /k/ and [i] /ɪ/ is primary vowel) or

ki=ka+\_i — 2 (where [ka] /kə/ is consonant plus the inherent vowel [a] /~/, and

[\_i] /ɪ/ is secondary vowel)

The right hand part of the equation (2) can be rewritten as in (3)

ki=ka+\_i — 3

By combining 3 and 2 we get (4)

ka+\_i=ka+\_i — 4

The difference between the two vowel signs can be made explicit by effecting a transformation of the deletion of the common element /ka/ from the equation (4):

+\_i=\_i — 5

These transformational relationships between the two vowel signs in the context of consonants indicate that

there is an inherent vowel omission sign in the secondary vowel. Similar interpretation may be made with respect to secondary consonantal signs since they occur always a pure consonant, in other words, a secondary consonantal sign removes an inherent vowel from the preceding consonant sign.

ś + ḥ → śḥ  
ka+ka → kka

**Vowel Modifiers:** Though, phonetically they share the properties of both Vowels and consonants are known as ambivalents (ubhayākṣaras). Since they follow always a vowel in their usage, traditionally they are treated as part of Vowel inventory. They are three in number. Unlike in Devanagari, where these Vowel modifiers always occur as diacritics or dependent character signs, in Telugu they occur linearly as independent signs facilitating their use independent of vowels or vowel signs. pūrṇānusvāra [ṁ] / o/, the only archiphoneme in the language has one of the highest frequencies in usage. The ardhānusvāra [ṁ̄] / c/ as a character does not represent a phoneme but has a phonetic function in the language. It is often used to transcribe certain nasalized expressions, as in a delayed yes, exclamation, o.k. etc. Though, tradition proscribes these from writing in word initial positions they can be used independent of vowel signs as in the case of word initial pre-consonantal nasal, ex. Mkhrumo / ॐṁṁṁ / 'Mr. Nkhrumo, a leader of an African country', / Mpala/ 'Impala, a brand name of a car, but a Swahili word, originally pronounced as /mpālā/. The character sign visarga / ḥ/ is used only to transcribe Sanskrit words, and it is the least frequently used character representing an array of allophones of various phonemes. Unlike vowels and consonants they are invariants i.e. they do not have contextually dependent character realization.

**Consonants:** There are 41 consonants in the common core inventory (excluding (kṣa)/kṣ/, (a) /ā/, (a) /ā̄/, (ṅ) /ṅ/, (ṛ) /ṛ/ and including [z a] /ɛa/. Currently they occupy in ISCII Hexa Decimal coding the points beginning with B3 179 and ending D8 216, where as in Unicode Standard 3.0 they begin with 0C15 to 0C39 and 0C1A to 0C2F. The





**Special/ancient Characters:** Out of the 16 symbols for vowels, the vowel signs for long vocalic /r̄/ [ఱు] and short and long vocalic /l, l/ [IV, LV] are almost obsolete or occur rarely in Sanskrit writings in Telugu script. Of the 41 consonants the post-dental affricates [ča] /ఱ /, [ja] /ఱ and the trill /ra/ [ఱ] do not occur in Modern Standard Telugu and the palatal retroflex lateral [z a] /ఱ/ have become obsolete long ago. In other words, these are characters no longer in current use, but which have been used historically. Their use is dependent on domain. For the purpose of inter-transliteration across Indian languages, some of these may be assigned code points. The signs /kṣa/, /Ca/ and /j̄a/ are distinct from other characters, in the nomenclature of UNICODE they may be termed as deprecated i.e. coded characters whose use is strongly discouraged. Such characters are retained in the standard, but should not be used. The sign for /kṣa/ was inherited as part of the inventory as a default allographic representation which is phonologically equivalent to the composite symbol /ka+ṣa/. The signs for [Ca] and [ja] are allographs of /ca/ and /ja/ when followed by back vowels hence need not have character encoding as in the case of other consonants. The most essential signs that occur in common core alphabet are 51.

**Number signs:** Telugu has inherited number signs as part of the Brahmi script. As in the case of characters, Telugu and Kannada share maximum number of similarities and have derived from the same common branch. Unlike in Devanagari using languages where compound numbers from 11 to 19 and the components involving them in higher numbers are written from left to right but their number names are counted or read from right to left, of course as in other Indo European languages. However, in Telugu as in other Dravidian languages, number signs are arranged in the same order as their corresponding number names, ex. paxihedu 'seventeen' lit. 'ten and seven'. Numbers [0-9] were given code points beginning from F1 241 to FA 250 in ISCII coding, and 0C66 to 0C6F in Unicode standards 3.0. Number signs are not very commonly used in Modern Telugu except for regularly in Telugu Calendar, astronomical guides and in non-secular

literature. Recently the Road Transport Corporation of Andhra Pradesh has started using Telugu numbers signs on the number plates of their vehicles.

o n → 3 4 5 6 7 8 9  
0 1 2 3 4 5 6 7 8 9

**Punctuation marks:** Modern Telugu uses punctuation marks which are borrowed from English. However, in the domain of religious texts Telugu may use single and double vertical bars to indicate a comma and a fullstop. Any Telugu font today must make available symbols for various punctuation marks as part of the Telugu font only and not leave them to be obtained from roman since these punctuation symbols must conform to the Telugu font style.

**Hyphenation:** As mentioned in section 2.2.0, Telugu uses syllabary whose constituents are primitive units like vowels, consonants with inherent vowels, and vowel or consonant modifiers, used in the formation of larger units of text. In English, hyphenation is sensitive to graphemic syllables constituted by independent alphabetic-characters. Since, in Telugu, graphemic syllables do not always constitute independent characters there is the difference between English and Telugu graphic syllable constituency. In Telugu hyphens when need to be inserted they are inserted only at the end of a graphemic syllable. A graphemic syllable is the one which ends in a vowel optionally followed by a vowel modifier and may be preceded optionally by one or more consonants as in C0-3V(M). In a sequence of graphemic syllables hyphens are inserted as in #C\*V(M)-C\*V(M)-C\*V(M)# where a C\* indicates null to any number of consonants.

For example the word śāstrīyata /శాస్త్రీయత/ can be hyphenated as shown below:

- |      |            |              |
|------|------------|--------------|
| i.   | śā-        | not śās-     |
|      | #strīyata. | trīyata.     |
| or   |            |              |
| ii.  | śāstrī-    | not śāst-    |
|      | #yata.     | rīyata.      |
| or   |            |              |
| iii. | śāstrīya-  | not śāstrīy- |
|      | #ta.       | ata.         |





a wide range of genre viz. modern fiction, short stories, novels, science writing, childrens stories, and journalese in Telugu forms the basis for the analysis of character frequencies. Word frequencies are dropped in order to avoid their skewing effect on the results of character frequencies. There are a little over 5 lakh distinct wordforms involved. Information regarding Phonemic frequencies are relevant particularly in keyboard layout, in designing roman notation, and even making decisions in assigning code points to certain characters (similar and comparable studies on Phonemes and Character frequencies of Telugu may be found in Kostic, Mitter, and Krishnamurti, 1977; Narasimham, et al 1981).

cumulative percentage	character frequency coverage	
16.19	a	16.19
23.57	u	07.38
30.37	i	06.80
36.57	ā	06.27
42.32	n	06.25
46.95	r	04.63
51.49	l	04.54
55.54	k	04.05
59.32	ṁ	03.78
62.38	v	03.06
65.42	t	03.04
68.37	m	02.95
71.31	p	02.94
73.69	d	02.38
75.93	s	02.24
78.09	y	02.16
80.14	c	02.05
82.18	ē	02.04
84.26	ṭ	01.98
86.13	g	01.97
88.07	ḍ	01.94
89.96	ō	01.89
91.13	e	01.17
92.13	ī	01.00
92.95	ū	00.82
93.72	b	00.77
94.37	j	00.65
95.01	ś	00.64
95.62	o	00.61
96.17	ai	00.55
96.70	ṣ	00.53

97.19	dh	00.49
97.64	ṇ	00.45
98.06	h	00.42
98.49	bh	00.43
98.86	ḷ	00.37
99.09	th	00.23
99.27	ṛ	00.18
99.43	Z	00.16
99.55	ph	00.13
99.68	kh	00.13
99.76	au	00.08
99.81	gh	00.05
99.85	ṭh	00.04
99.89	ñ	00.04
99.92	ṙ	00.03
99.95	ch	00.03
99.97	ḥ	00.02
99.99	ḍh	00.02
100.00	ṁ	00.01
100.00	jh	00.00
100.00	ṅ	00.00
100.00	—	00.00
100.00	ṙ	00.00

**Coverage of Vowel characters:** Vowels alone have a coverage of 43.16% i.e. a considerably higher percentage when compared to those in other languages.

16.19%	a	16.19%
23.57%	u	07.38%
30.37%	i	06.80%
36.64%	ā	06.27%
38.68%	ē	02.04%
40.57%	ō	01.89%
41.74%	e	01.17%
42.35%	o	00.61%
42.90%	ai	00.55%
43.08%	ṛ	00.18%
43.16%	au	00.08%

Vowel modifiers have a coverage of 3.81%. The addition of the coverage of vowel modifiers to the total coverage of vowels raise the total to 46.97%.

Coverage of consonants based on their frequencies amount to little more than fifty per cent i.e. 53.07%. The sonorants /n, r, l/ constitute more than 15% of



the total coverage. The next set of consonants /k,v, t, m, p/ has the coverage of 15%. The remaining 28 consonant characters have only a coverage of 23%. The contribution of character signs of aspirate phonemes account only for 1.51%.

**Keyboard**

**Layout:** If one looks at the way the existing keyboard layouts for Telugu are presented, they reveal that they are not ergonomically planned, since the distribution of characters are not balanced according to the well known keyboard layout recommendations. Government of Andhra Pradesh has approved (vide. G.O. 391, GA.OL-2, 1987) a Standard keyboard for Telugu/English for use in Electronic typewriters, wordprocessors, Teleprinters, Phototype setters, and in computers. Though, the designers of the keyboard claim to combine phonetic order and frequency of use of characters, the actual recommended keying-in operation sequence itself is not in phonetic order instead follows the idiosyncratic convention practiced in writing Telugu orthography.

Ministry of Information Technology (then DoE), Government of India has brought out a keyboard standard for keying in of Indian characters known as Inscript keyboard (report of the Committee, SKLISBC, DOE 1986) Later it was revized in 1988 for the consideration of proper sorting of 'nukta' characters and certain special set of front and back mid vowels. It allows the funtioning of an Inscript overlay on any Querty keyboard by pressing caps-lock key. The inscript overlay combines to a certain extent the logical order of Indian alphabets and the frequency of use of these characters.

Besides these a considerable number of keyboard layouts for Telugu are in use in the market, many of them are adopted from "typewriter" keyboard-layouts (Ramington, Facit etc.) and they do not match one another. One such keyboard developed under the joint project of CMC, Secunderabad and RIND, Madras (Narasimham, Ramakrishna Rao, 1981) for Telugu is claimed to be based purely on frequency of occurrence of characters in written texts without regard to their logical order. However it has never become popular.

Recently, a sub-committee, appointed by The Government of Andhra Pradesh has recommended Inscript Keyboard layout for Telugu as it is popularly used in most Indian languages, since it also incorporates both the logical order of the Indian characters plus certain amount of optimization with respect to frequency of use of the characters, and the phonetic order of keying. It also envisages that the use of Telugu keying-in method will evolve and settle in favour of inscript keyboard layout with minimum modifications, since the users are expected to use the same for multilingual purposes.

**Transliteration:** Wide spread bilingualism among Indian language mother tongue speakers, and English being the most popular among the literates, justifies the demand that Indian languages are often transcribed in roman. A roman transliteration has also evolved one representing the South and the other the North. Examples can be drawn from one of the major industry the film production which transliterates the titles from the respective languages into roman for the benefit of other Indian language speakers. Particularly for the creation of corpora, where a particular Indian language fonts are not available, having a recognized standard roman transliteration is of great help. There are already a couple of roman transliteration schemes employed by Telugu linguists, Technology Resource Centre for Telugu, and Anusaraka Machine Translation group. The latter group has used a roman transliteration scheme popularly known as WX-notation where in /t, d/ are used to transcribe retroflexes [ʈa, ɖa] and /w, x/ to denote dental stops [t, d]. The other group follows a more commonly used notation which uses T and D for voiceles and voiced retroflex stops and t and d for dentals.

**WX-notation:**

a A i I u U q Q eV e E oV oO z M H  
అ ఆ ఇ ఈ ఉ ఊ ఋ ౠ ఎ ఏ ఐ ఒ ఓ ఔ ఠ డ  
k K g G f c C j J F t T d D N w W x X n p P b B m  
క ఖ గ ఘ ఙ చ ఛ డ ఢ ట ఠ డ ఢ ట ఠ డ ఢ ట ఠ డ ఢ ట  
y r rY l lY lYY v S R s h \_  
యే ర్ ట్ ల్ ళ్ ళ్ వ శ్ ష్ న్ హ్ ి



**TD-notation:**

a aa i ii u uu r' r" e ee eY o oo oW z M H  
 అ ఆ ఇ ఈ ఉ ఊ ఋ ఌ ఎ ఏ ఐ ఒ ఓ ఔ ం ః

k kh g gh ng c ch j jh nY T Th D Dh N t th d dh  
 క ఖ గ ఘ గ ఙ చ చ్చ జ జ్జ ణ ట ఠ డ ఢ ణ డ ణ డ ణ డ ణ  
 n p ph b bh m  
 న ప ఫ బ భ మ

y r R l L LY v S Sh s h \_  
 యే ర్ ల్ ల్

There are added advantages and disadvantages with both the notations but the WX-notation has minimum number of successive strokes for the same character, and same letter is never used again to represent another one even as a component stroke.

**Character composition:** Telugu text like in any script of Brahmi origin, is composed of a series of syllables composed of stand alone characters listed in the alphabet and the corresponding secondary symbols. Telugu (like Kannada) and unlike any other Indian script of Brahmi origin, composes compound graphic syllables consisting of two or more consonants and followed by a vowel modifier in a very idiosyncratic manner. Compound syllables involving conjunct consonants of two or more have a vowel modifier which is always attached to the first (primary) consonant symbol of the conjunct cluster as shown in the examples here: strī /sītr/ (స్త్రీ), pāruku /pAruk/ (పారుకు), pārk /pArk/ (పార్క), pārtṣ /pArts/ (పార్ట్స్), pārtṣu /pāruts/ (పార్టు), kārl mārks /kārl mārks/ (కార్ల మార్క్స్), harṣ /harṣ/ (హర్స్), klēśam /klēśam/ (క్లేశం), spriṅg /spriṅg/ (స్ప్రింగ్) etc. (the words spelled in roman within the slashes display Telugu character sequence ).

**Character values and sequence validation:** Syllable composition assumes four distinct approaches with respect to character-key relationship and keyboarding as following: i) Both primary and secondary symbols of vowels and consonants have separate keys on the keyboard; ii) Primary and secondary symbols vowels and only the primary symbols are assigned keys and the secondary symbols of consonants are obtained contextually; iii) Only primary symbols of vowels and consonants are assigned keys and secondary symbols are obtained

through context; and iv) primary and secondary symbols of consonants and only primary symbols of vowels are assigned keys. Besides the above key assignments, there are certain sequencing generalizations that are assumed in actual implementation scheme: a) Every consonant character has an inherent vowel /a/ and it is retained only before a space or a punctuation symbol, in otherwords, it is always deleted before a vowel or a consonant, which is statable as rule1.

Rule1. a → 0 /C\_ +{V,C}

Alternatively, scheme b. involves the keying in of consonant which introduces only pure consonant with an explicit halanta sign hence does not require the operation of rule 1. The following exemplifies the implementation in terms of number of keys and the resulting display.

**Scheme a.**

క+ఇ -> కి	ka+i → ki
క+అ+ఇ -> కఇ	ka+a+i → kai
క+క -> క్క	ka+ka → kka
క+అ+క -> కక	ka+a+ka → kaka

**Scheme b.**

స+ఇ -> కి	k+i → ki
స+అ+ఇ -> కఇ	k+a+i → kai
స+స+అ -> క్క	k+k+a → kka
స+అ+స+అ -> కక	K+a+k+a → kaka

Obviously, the implementation of sheme a. has an advantage over scheme b. in removing the redundancy in keying by 20% utilizing the distributional generalizations among vowels and consonants particularly in Telugu and in all Indian languages in general. Midway to the schemes a. and b. there is another scheme of implementation which assumes keying in of consonant with an inherent vowel /a/ but that is not automatically deleted by a following vowel or a consonant, but it has to be removed by pressing a halant key.

**Scheme c.**

క+అ+ఇ -> కి	ka+i → ki
క+ఇ -> కఇ	ka+a+i → kai
క+అ+క -> క్క	ka+ka → kka
క+క -> కక	ka+a+ka → kaka



**Schemed.**

క+ ి → కి                      ka+ \_i → ki  
 క+ఇ → కఇ                      ka+ l → kai  
 క+ం+క → క్క                      ka+\_+ka → kka  
 క+క → కక                      ka+ka → kaka

The schemes are generally implemented in combination with the assumed character values and sequence validation. Scheme a. is currently implemented in ILEAP with phonetic keyboard, scheme d. is implemented in Ilep using inscript kb which assumes different keys for primary and secondary vowels. In the last scheme the number of key strokes are same as in scheme a. Scheme c. which is implemented in a Telugu editor called Telugu-Lekha (a product of BCT Ltd.) is a mirror image of scheme a. Scheme b. is implemented in an editor called Telugu-Lipi (Srinivas, S and Anuradha, K.). Of all the four implementations, the scheme a. (Ilep with phonetic keying) optimally utilizes the best possible features for keyboarding.

**Keying in Sequence:** There are two orders of composing or keying in the components of the graphic syllables in Telugu as described below:

**Conventional Method:** As handed down to us in traditional practice of writing saMyuktAksharas (graphic syllables consisting of conjuncts - type the first consonant of the conjunct cluster as a primary sign with the relevant vowel modifier and the rest of the consonants in their secondary form, placed one after another in sequence to the bottom right of the primary consonant. In this method one need to conceptualize the correct formation of the syllable and then write it on the paper or compose it or key in on the machine. Typing frequently occurring syllables may not require any time but syllables of less frequently occurring ones may take more than a moment of thinking, compare:

ex. స్త్రీ = స - సీ - సీత - సీత్ర  
 strī = sa - sī - sīt - sītr

keying sequence	→	display sequence	::	phonetic equivalence
స	→	స		[స]
sa	→	sa		[sa]
స + ఈ	→	సీ		[సీ]

sa + ī	→	sī	[sī]
సీ + త	→	సీత'	[సీత]
sī + ta	→	sīt	[sīt]
సీత' + ర	→	సీత'ర'	[సీత్ర]
sīt' + ra	→	sīt'r'	[sīt'r]

స్కూర్ = స - సూ - స్కూ - స్కూర్  
 sūkr = sa - sū - sūk' - sūkr  
 [skrū] = [sa] - [sū] - [skū] - [skrū]

2.6.5.2 Phonetic Method: The composition of saMyuktAksharas follow from linear order of utterance or pronunciation. Here one need not learn or put a special effort in composing of conjunct clusters. There is naturalness involved here and one need only pay attention to one's pronunciation.

@ex. స్త్రీ = స - స్త - స్త్ర - స్త్రీ  
 strī = sa - sta - stra - strī

keying sequence	→	display sequence	=	phonetic equivalence
స	→	స		[స]
sa	→	sa		[sa]
స + త	→	స్త		[స్త]
sa + ta	→	sta		[sta]
స్త + ర	→	స్త్ర		[స్త్ర]
sta+ ra	→	stra		[stra]
స్త్ర + ఈ	→	స్త్రీ		[స్త్రీ]
stra + ī	→	strī		[strī]

స్కూర్ = స - స్క - స్కూ - స్కూర్  
 skrū = sa - ska - skra - skrū

Following method 1) results in the reduction of speed, since composers/writers have to recall from their memory for a moment. It also results in wrong sorting of words, and create problems for spell checking and searching operations. Therefore method 2) which is based on phonetic order is preferred.

**Glyphs:** There have been a number of attempts at reforming Telugu script (Andhra Pradesh Government, G.O.194:1961), particularly to suit to the needs of the letter press printing. Telugu script composers and typists are expected to memorize hundreds of glyphs and scores of their combinations to form meaningful graphic syllables. The attempts



to reform the Telugu script were basically aimed at reducing the burden on the part of the composers and typists by reducing the variation in the number of glyphs and eliminating the combinations which are considered to be illogical.

**Variation in glyph combinations:** In Telugu, certain compound graphic syllables beginning with [మ, య, ఘ, ఝ] and modified by a vowel mātrā [ఱ or ఱ] are alternatively written as [మె, యె, ఘె, ఝె or as మా, యా, ఘా, ఝా] and [మె, యె, ఘె, ఝె or మో, యో, ఘో, ఝో]. This variation shall be resolved by preferring to write in the second alternate way since it involves the same glyph [ఱ or ఱ] = secondary symbols for short /o/ and long /ō / used with all other consonants. It has one immediate advantage besides regularity. The use of first alternate combination are interpretable glyptographically as combinations of [ఱ+ఱ] /e+u/ [ఱ+ఱ] /e+ū/ and may create problems in sorting and searching operations.

**Glyphs in Character Composition:** The Telugu script is distinct from the other scripts of Brahmi origin not only by the rounded shape of the letters but also by the sheer number of glyphs used in Character formation. To illustrate, the mātrā for long [A] /అ/ i.s. [ఱ] is represented at least in five distinct ways due to the difference in size, shape of the consonant and its placement as shown below:

Consonant class	Glyph composition	Glyph placement
1. [గ ర డ ఢ త ఢ ద ఢ న ర వ శ]	కా	Represents a regular substitution of [ఱ] of the anchor consonant by the mAttrA [ఱ].
2. [ఘ ఝ మ య ]	ఘా	The placement of [ఱ] mAttrA does not replace the [ఱ] of the anchor consonant.
3. [ఖ ఇ జ జ ట ణ బ ల అ]	ఖా	The [ఱ] mAttrA is placed on the top right half of the anchor consonant.

4. [చ ఛ భ] భా The mAttrA [ఱ] is placed on the top right edge of the anchor substituting [ఱ].
5. [ప ఫ స ష] పా A change in the shape of the anchor consonant and the [ఱ] mAttrA runs across the consonant.
6. [హ] హా A change in the shape of the mAttrA [ఱ] and its placement does not substitute [ఱ].

More or less such variation in mātrā size may be found with all other vowels (except in case of /a/ ) and the associated idiosyncracies dependent on the anchor consonant are a common phenomenon in Telugu (and also in Kannada) but not commonly attested in other Indian scripts. The outcome of this phenomenon is the glyph chart for Telugu will be more complex than that of any other Brahmi derived script. Traditionally the composers or typists of Telugu script are expected to memorize these mātrā variants (which roughly range on an average five per each vowel mātrā amounting to sixty glyphs) besides scores of the associated consonant variants and their combinations. The average number of glyphs for each consonant character is not less than 3. The total number of glyphs for all characters would be well beyond 150, which is much higher than for any other Indian language. Because of this reason it is not easy to achieve glyph standard for Telugu. The mechanical constraints of the type-writers which lack glyph matching and composition management facility have forced us to live with the poor quality of mechanical type faces in Telugu.

However, with the advent of Computers and their appropriate adaption for Telugu Script, the composing of Telugu writing and printing have become much easier. The entire burden of dealing with the complexity of glyph selection, matching and composition has now shifted from man to machine.



The entire scenario i.e. the number of glyphs and their idiosyncratic combinations that the Telugu composers/writers had to remember, now has transformed into keying in the relevant characters representing the sounds in the phonetic sequence (linear) in a word. The computer (driven by the relevant

print/display rendering routines) puts the relevant glyphs together and renders them into an appropriate graphic display on the screen. This is one of the best examples of the application of computer technology in eliminating the complex problems associated with nonlinear scripts as in the case of Telugu script.

**Fonts:** Characters are represented visually as glyphs accompanied by a set of parameters viz. size, posture, thickness etc. One of the major differences between roman and Indic alphabets is that the latter has glyphs whose size is highly variable and characters are compositional. In roman fonts we see often one to one association between a character from the alphabet and the corresponding glyph. Not only it is hard to find such an association between a character and a glyph but in actual practice, as in Telugu, glyphs are often reduced to fewer number of primitive geometric shapes from which characters can be composed. So the size of the glyph inventory of Telugu from one font to another is so vast that it is often fruitless to accomplish.

**Storage considerations:** Among the available systems that are in the market for rendering Telugu characters on Computers, only one i.e. ISCII (@BIS 1991, its earlier version was ISSCII-1983) has been somewhat widely used both in Unix and MS-DOS world. All others are based on commonly available methods employed commercially for working with Telugu language fonts and DOS based graphics programs. No other Character coding scheme than ISCII is known to exist. Most of the commercially available Telugu software program store their own table of glyph/character pictures or by installing characters in the computer's video memory. The lack of common standard in glyph/character coding of Telugu is a potential source of frustration in Telugu computing due to mismatch between the glyphs/characters and print handlers when accessed on screen

and printed using other than the one used in the creating the document.

**The theoretical basis for the analysis of Telugu script:** Words in Telugu script are composed of one or more graphic syllables of either (a) simple or (b) compound type. The graphic syllables are unlike phonetic/phonological syllable may not have a vowel as a compulsory component but will have a secondary vowel/halant symbol as a necessary component. This assumption is necessitated by the occurrence of the graphic representations of halantākṣaras as /ś/ [𑌖] in [āṃdhrapradēś] /Andhra Pradesh/, /d/ [𑌔] in [prasād] 'Prasad', /r/ [𑌒] and /rks/ [𑌔𑌕𑌖] in /kārī mārks/[కార్ల మార్క్స్] 'Karl Marx'. a.) A simple graphic syllable is always comprised of one of the signs for primary vowels /a ā ī i ī u ū ṛ ṛ e ē ai o o au/ [అ ఆ ఇ ఈ ఊ ఋ ౠ ఎ ఏ ఐ ఒ ఓ ఔ] or one of the three primary symbols: the pūrṇānusvāra [𑌐], the ardhānusvāra [𑌑] and the visarga [𑌔] or one of the symbols for primary consonants with implicit vowel /a/ [𑌖]. Also recall that the traditional varṇamāla groups these three signs along with vowels. As stated above a graphic syllable here may be composed of non-vocalic signs but which have independent and linear representation in Telugu writing. All other graphic syllable representations are interpreted as compounds. b) A compound graphic syllable may be interpreted as one or more consonant signs (there is no upper limit) plus an inherent or covert (implicit) vowel [Ā] or an overt (explicit) secondary vowel symbol /ā ī i ī u ū e ē ai o o au and \_/ [కా కి కీ య యా ర రే రై వో వో రా and 𑌐].

**Differentiating Script from Language:** Script is not coterminous with language. It is only a means for visual representation of a spoken language. Since a script is associated with a given language for over a millennium the grammar of a script is often measured with the same yardstick as that is used for the language. It is true that the historical development of Telugu language (the writing conventions and the tools used for writing) has reflections on the Telugu script. However developing languages change faster than the script that is being used for that language. Therefore phonological rules that are proper to a language shall not be imposed upon the script.



The computer technology has rendered all earlier arguments for reforming Telugu script into vacuous and needless. The standard argument now remaining is the maintenance of strict correspondence between the phonetic order and the keying-in order, thus breaking the requirement of the correspondence between the language(script) dependent displays and the order of the keying-in. This one particular feature has a great significance allowing us to view all Indian scripts as mere 'font' variants. Far from reducing the level of script to a font, it shows the grand unification among all Indian scripts. The computer technology has also one interesting aspect. Unlike the reformists who would like to drop certain infrequent and obsolete characters in order to save manual labour, the current technology not only makes allowances for such characters but also makes available new representations in the Indian scripts particularly to represent those special sounds borrowed frequently from Perso-Arabic and European languages hence the extended alphabet.

### Localization of Data

**Calendar :** There are standard ways of expressing units of temporal space. The date is usually expressed in the order of month date, year i.e. month precedes date, and date precedes years, as in August 15, 1947 the Indian Independence day. However, the same when stated in the form of numbers the order is dd-mm-yy i.e. 15-08-1947.

**Months :** The names of months borrowed from English are commonly employed in Telugu in all purposes. These names are often abbreviated and prefixed to the date:

janavari	ja.	January
phibravari	phi.	February
mārci	mā.	March
ēpril	ē.	April
mē	mē.	May
jūn	jū.	June
julai	ju.	July
āgaṣṭu	ā.	August
seṭṭembaru	se.	September
akṭōbaru	a.	October

navambaru	na.	November
ḍisembaru	ḍi.	December

ex. ā. 15 12:15:15 bhā.kā. 1947 'August 15th 12:15:15 IST.'

**Week :** Usually week days are abbreviated in date expressions and precede the month as in ādi. āgaṣṭu 15, 1947.

ādi.	for	ādivāraṃ	'Sunday'
sō.	for	sōmavāraṃ	'Monday'
maṃ.	for	mangaḷavāraṃ	'Tuesday'
bu.	for	budhavāraṃ	'Wednesday'
gu.	for	guruvāraṃ	'Thursday'
śu.	for	śukravāraṃ	'Friday'
śa.	for	śanivāraṃ	'Saturday'

**Time :** English expressions AM/PM do not have equivalent expressions in Telugu. In the expressions of time, generally, the hours are usually prefixed with abbreviations standing for different time periods in a day. A day of 24 hours is divided into five divisions (pUtalū) as shown below with a roughly corresponding english equivalent.

udayaṃ:	u.	Morning	06:00:01-11:59:59
madhyāhnaṃ:	ma.	Noon	12:00:01- 03:59:59
sāyantraṃ:	sā.	Evening	04:00:01- 06:59:59
rātri:	rā.	Night	07:00:01-12:59:59
tellavārujāmu:	te.	midnight	01:00:01- 05:59:59

The date Sat Nov 17 14:44:05 IST 2001 may be expressed in Telugu as śa. na. 17 14:44:05 bhā.kā. (bhārata kālamānaṃ) 2001.

**Currency :** There is no specific currency symbol current in Telugu. However, the word రూపాయి is prefixed to the amount in an abbreviated form 'rū. as below:

rū. 5,431.12  
Rs. 5,431.12

### Appendices

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### 4.5.3 Typical Colloquial Sentences in Telugu

#### GREETING

- ▶ Hello  
హలో  
हलो  
halō
- ▶ Good Morning  
సమస్కారం  
नमस्कारं  
namaskāraṃ
- ▶ Good Afternoon  
సమస్కారం  
नमस्कार  
namaskāraṃ
- ▶ Good Night  
సమస్తే  
नमस्ते  
namastē
- ▶ Good Bye  
సమస్తే  
नमस्ते  
namastē
- ▶ Thanks  
కృతజ్ఞతలు  
कृतज्ञतलु  
kr̥tajñatalu
- ▶ How are you  
ఎలా ఉన్నారు?  
ऐलाउन्नारु?  
elāunnāru?
- ▶ I am fine thank you  
బాగానే ఉన్నాను, కృతజ్ఞాణ్ణి.  
बागाने उन्नानु, कृतज्ञुणि.  
bāgānē unnānu, kr̥tajñuṇi.
- ▶ Sorry  
క్షమించండి  
क्षमिंचंदि  
kṣamiñcaṇḍi



### WEATHER

- ▶ It is cold  
చల్లగా ఉంది  
चल्लगा उंदि  
callagā uṁdi
- ▶ It is cool outside  
బయట చల్లగా ఉంది.  
बयट चल्लगा उंदि.  
bayaṭa callagā uṁdi.
- ▶ It is hot  
వేడిగా ఉంది.  
वेडिगा उंदि.  
vēḍigā uṁdi.
- ▶ It is raining  
వర్షం కురుస్తోంది.  
वर्ष कुरुस्तोदि.  
varṣaṁ kurustōndi.

### GENERAL

- ▶ What is your name?  
మీ పేరు ఏమిటి?  
मी पेरु एमिदि?  
mī pēru ēmiṭi?
- ▶ My name is Ranjan  
నా పేరు రంజన్  
ना पेरु रंजन्  
nā pēru rañjan
- ▶ Where do you live?  
మీరు ఎక్కడ ఉంటున్నారు?  
मीरु ऐक्कड उंटुन्नारु?  
mīru ekkāḍa uṁṭunnāru?
- ▶ I live near Ghantaghar  
వేను ఘంటఘర్ దగ్గర ఉంటున్నాను.  
नेनु घंटघर् दग्गर उंटुन्नानु.  
nēnu ghaṅṭaghar daggara uṁṭunnānu.
- ▶ How old are you?  
మీకు ఎన్ని ఏళ్ళు?  
मीकु ऐन्नि एळ्ळु?  
mīku enni ēḷḷu?

- ▶ That building is tall  
ఆ కట్టడం ఎత్తు.  
आ कट्टडं ऐत्तु.  
ā kaṭṭaḍaṁ ettu.
- ▶ She is beautiful  
ఆమె అందగత్తె.  
आमे अंदगत्ते.  
āme aṁdagatte.
- ▶ I like Bengali sweets  
వేను బెంగాలీ మిఠాయిలు ఇష్టపడతాను.  
नेनु बँगालि मिठायिलु इष्टपडतानु.  
nēnu beṅgālī miṭhāyilu iṣṭapaḍatānu.
- ▶ I love birds  
వేను పక్షుల్ని ప్రేమిస్తాను.  
नेनु पक्षुलि प्रेमिस्तानु.  
nēnu pakṣulni prēmistānu.
- ▶ Where is Railway station?  
రైల్వే స్టేషన్ ఎక్కడ ఉంది.  
रैल्वे स्टेशन ऐक्कड उंदि.  
railvē sṭēṣaṅ ekkāḍa uṁdi.
- ▶ How far is the Bus Terminal from here?  
ఇక్కడికి బస్ స్టాండు ఎంత దూరం?  
इक्कडिकि बस् स्टान्डु ऐत दूरं?  
ikkāḍiki bas sṭāṅḍu eṁta dūraṁ?
- ▶ How long will it take to reach the Airport?  
విమానాశ్రయానికి వెళ్ళడానికి ఎంతసేపు పడుతుంది?  
विमानाश्रयानिकि वेळ्ळडानिकि ऐतसेपु पडुतुंदि?  
vimānāśrayānikī vēḷḷāḍānikī eṁtasēpu paḍutundi?
- ▶ Is Mr. Raghunath there?  
శ్రీ రఘునాథ్ అక్కడ ఉన్నారా?  
श्री रघुनाथ् अक्कड उन्नारा?  
śrī raghunāth akkaḍa unnārā?
- ▶ Please tell him to call back as soon as he is free  
అతను ఖాళీ అవ్వగానే నన్ను పిలవమని చెప్పు.  
अतनु खाळी अव्वगाने ननु पिलवमनि चेषु.  
atanu khāḷī avvagānē nannu pilavamani ceppu.



► How much will it cost?

ఇది ఎంత ధర ఉంటుంది?  
इदि ऐत धर चंढुंदि?  
idi emta dhara umṭundi?

► Excuse me

క్షమించండి.  
क्षमिंचंदि.  
kṣamiñcaṇḍi.

► From which Platform can I get the train for Chandigarh?

ఛండీఘర్ కు ఏ ప్లాట్‌ఫామ్ నుండి ట్రెయిన్ దొరకతుంది?  
छंडीघर् कु ए प्लाट्फाम् नुंदि त्रेयिन् दोरुकुतुंदि?  
chaṇḍīghar ku ē plāṭṭhām nuṇḍi ṭreyin  
dorukutundi?

► Does this train stop at Aligarh?

ఈ ట్రెయిన్ ఆలీఘర్ లో ఆగుతుందా?  
ई त्रेयिन् आलीघर्लो आगुतुंदा?  
ī ṭreyin ālīgharlō āgutundā?

► How many kids do you have?

నీకు/మీకు ఎంతమంది పిల్లలు?  
नीकु/मीकु ऐतमदि पिल्ललु?  
nīku/mīku emtamandi pillalu?

► This gift is wonderful

ఈ బహుమతి చాలా బాగుంది.  
ई बहुमति चाला बागुंदि.  
ī bahumati cālā bāgundi.

► It is really pretty

ఇది నిజంగా అందంగా ఉంది.  
इदि निजंगा अंदंगा उंदि.  
idi nijaṅgā aṇḍaṅgā uṇḍi.

► Food is delicious

ఆహారం పసండుగా ఉంది.  
आहारं पसंदुगा उंदि.  
āhāraṇ pasandugā uṇḍi.

► Congratulations

అభినందనలు.  
अभिनंदनलु.  
abhinandanalu.

► You look lovely

నువ్వు చక్కగా ఉన్నావు.  
नुव्नु चक्कगा उन्नावु.  
nuvvu cakkagā unnāvu.

► Wish you happy new year

మీకు నూతన సంవత్సర శుభాకాంక్షలు.  
मीकु नूतन संवत्सर शुभाकांक्षलु.  
mīku nūtana saṁvatsara śubhākāṅkṣalu.

► I wish you all the happiness

మీకు అంతా సంతోషం కలగాలని ఆశిస్తున్నాను.  
मीकु अंता संतोषं कलगालनि आशिस्तुन्नां.  
mīku aṁtā santōṣaṇ kalagālani  
āśistunnānu.

► Congratulations on your marriage

మీకు వివాహ శుభాకాంక్షలు.  
मीकु विवाह शुभाकंक्षलु.  
mīku vivāha śubhākāṅkṣalu.

► Keep your eyes wide open before marriage and half- shut afterwards

పెళ్ళికి ముందు కళ్ళు తెరవండి ఆ తరువాత సగం మూయండి.  
पेळिकि मुंदु कळ्ळु तेरवंदि आ तरवात सगं मूयंदि.  
pelliki mundu kaḷḷu teravaṇḍi ā taravāta  
sagaṇ mūyaṇḍi.

(Courtesy : Dr . G. thamaheshwaraR

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