Transliteration Map DEVNAC font

(Hindi, Marathi, Sanskrit)

itrans ©1991 Avinash Chopde

1 Fonts Available

1.1 T_EX Interface

The devanagari font is called *devnac*, and its PostScript description resides in the file *devnac.ps*. It is a user-defined type III PostScript font. Four fonts, variations on the basic devnac font, are bundled with the itrans package. Their names (in the T_FX interface) are dnh, dnho, dnhrc, and dnhre.

dnh This is the basic devanagari font. There are some other fonts available, derived by transforming this font.

dnho This is the slanted version of dnh.

dnhrc Both dnho and dnh look extremely heavy. A scaled down, compressed version (along the x-axis) of the basic font is available as dnhrc.

dnhre This is heavier than dnh, to be used as a bold version.

Since these are PostScript fonts, you can use them at any font size in your document. In fact, the font size must be specified when loading in the font. In this document (and in idoc.itx), the following line was used for loading the font:

$\mbox{newfont{\devnf}{dnh at 15pt}}.$

Even though this document has been typeset using a 11 point size, the devanagari font is loaded in at 15 point size. This is just to emphasize the devanagari characters. Normally, I would suggest loading in the font at 15-20% greater size than the other text in the document. So, if your document is being typeset at 11 point, load in the devanagari fonts using a 13 point size. Of course, this relation of size is important only if you wish to mix english and devanagari in the same document. In any case, go wild, experiment with various font sizes. Since the characters are described as outlines in bezier curve form, smaller point sizes do not look too good on a 300dpi output device, the larger the font size, the better the shapes look.

1.2 Dumb Textual Interface

This interface does not offer any wordprocessing capabilities other than that of checking when a page is complete, and then resetting the current point to the top of the next page. Thus, all spaces, lines, etc from the input text appear in the output too.

The user may also directly invoke PostScript commands to create various versions of the font, as required. Refer to PostScript language manuals for specific help regarding the PostScript font manipulation commands. If you decide to go this route, take a look at the file itrans.pro, it is the prologue that gets sent to the printer. It contains definitions of various commands such as normalfont, slantfont, compressedfont, etc, which may be used to change the font being used. These PostScript functions take a single argument: the font size to use. All this and more information can be obtained from the prologue file, itrans.pro, and PostScript users should take a look at it. For example usage, look through the sample input files provided. Files ending in .ips are the direct PostScript input files, itrans (with the -P option) directly produces PostScript output for these files.

The file devnac.ps may also be useful, it contains the PostScript language definitions of this devanagari font.

2 Sanskrit (or Hindi) and Marathi

Two IFM files are provided with with this font. (You can use either with any of the four font variations described above—dnh, dnho, dhnrc, and dnhre).

The first IFM file is called dvnc.ifm, and is meant to be used for text that has to be printed out in Sanskrit or Hindi.

The second IFM file is called *mdvnc.ifm*, and is meant to be used for text that has to be printed out in marathi.

The only difference between mdvnc.ifm and dvnc.ifm is in the treatment of ra-< consonant> ligatures. The marathi file uses the marathi form of ra-half, while the dvnc.ifm file uses the hindi form.

Note that both the IFM files may be referenced in one input file, as is done in theis file (devn.itx).

Examples using dvnc.ifm: rka-र्क, rki-र्कि, rgii-र्जी. Examples using mdvnc.ifm: rka-रक, rki-रिक, rgii-र्जी.

3 Known Problems

In the TeX interface, characters with any non-zero Y offset are not correctly printed in some cases, when the PostScript font Devnac is used. One such case is the da-ra ligature, words such as draaviiDa (द्रावीड). Note that it is only in certain cases that the word is printed incorrectly, in most cases it is handled correctly. Usually, when the word appears near the end of the line, TeX (or dvips, I'm inclined to think it is dvips) inserts a negative kern just before the character with a non-zero Y offset, and the word appears squashed up at that point. Have no remedy for this, only workaround is to force a line break before the problem word, it usually sets everything right.

I have never encountered this problem when using Frans Velthuis's Devnag font with the itrans package, therefore this problem is probably related to the use of PostScript fonts in T_FX.

4 Font Developer

This font has been created by Avinash Chopde.

Avinash Chopde

e-mail address: avinash@contex.com

postal address: 8 Kenmar Drive #55, Billerica, MA 01821.

phone: 508-663-0471

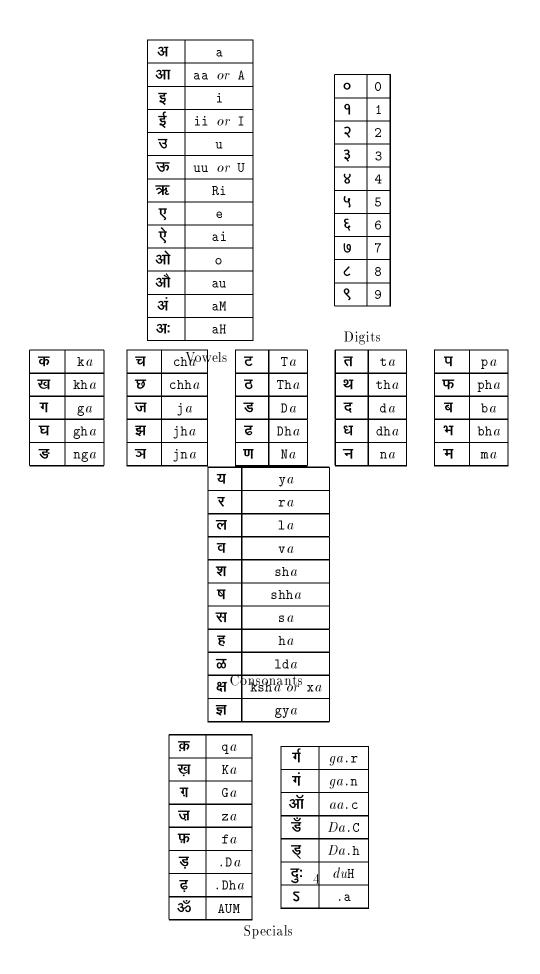


Figure 1: Marathi to English Transliteration Table.

क का कि की कु कू	ka kaa ki kii ku kuu
स सा सि सी सु सू	sa saa si sii su suu
खृ खे खै खं खः खॅ खॅ	khRi khe khai khaM khaH kha.c kha.C
डे डै डं डः डॅ डॅं	De Dai DaM DaH Da.c Da.C

Sample Letters

भाग्य bhaa{g}ya राज्य raajya विद्या vidyaa शिष्य shishhya मुख्य mukhya गाड्या gaaDyaa त्याग tyaaga ध्यान dhyaana न्याय nyaaya श्याम shyaama ज्योत jyota मनुष्य manushhya चांदण्या chaa.ndaNyaa अभ्यास abhyaasa कत्याण kalyaaNa घड्याळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पत्रास pannaasa सफ्जन sajjana प्रत्तक pustaka		
विद्या vidyaa शिष्य shishhya मुख्य mukhya गाड्या gaaDyaa त्याग tyaaga ध्यान dhyaana न्याय nyaaya श्याम shyaama ज्योत jyota मनुष्य manushhya वांदण्या chaa.ndaNyaa अभ्यास abhyaasa कल्याण kalyaaNa घड्याळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सण्जन sajjana	भाग्य	bhaa{g}ya
शिष्य shishhya मुख्य mukhya गाड्या gaaDyaa त्याग tyaaga ध्यान dhyaana न्याय nyaaya श्याम shyaama ज्योत jyota मनुष्य manushhya वांदण्या chaa.ndaNyaa अभ्यास abhyaasa कल्याण kalyaaNa घड्याळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	राज्य	raajya
मुख्य mukhya गाड्या gaaDyaa त्याग tyaaga ध्यान dhyaana न्याय nyaaya श्याम shyaama ज्योत jyota मनुष्य manushhya वांदण्या chaa.ndaNyaa अभ्यास abhyaasa कल्याण kalyaaNa घड्याळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सण्जन sajjana	विद्या	vidyaa
गाड्या gaaDyaa त्याग tyaaga ध्यान dhyaana न्याय nyaaya श्याम shyaama ज्योत jyota मनुष्य manushhya वांदण्या chaa.ndaNyaa अभ्यास abhyaasa कत्याण kalyaaNa घड्याळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	शिष्य	shishhya
त्याग tyaaga ध्यान dhyaana न्याय nyaaya श्याम shyaama ज्योत jyota मनुष्य manushhya चांदण्या chaa.ndaNyaa अभ्यास abhyaasa कल्याण kalyaaNa घडाळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	मुख्य	mukhya
ध्यान dhyaana न्याय nyaaya श्याम shyaama ज्योत jyota मनुष्य manushhya चांदण्या chaa.ndaNyaa अभ्यास abhyaasa कल्याण kalyaaNa घड्याळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सण्जन sajjana	गाङ्या	gaaDyaa
न्याय nyaaya श्याम shyaama ज्योत jyota मनुष्य manushhya चांदण्या chaa.ndaNyaa अभ्यास abhyaasa कत्याण kalyaaNa घड्याळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	त्याग	tyaaga
श्याम shyaama ज्योत jyota मनुष्य manushhya चांदण्या chaa.ndaNyaa अभ्यास abhyaasa कल्याण kalyaaNa घड्याळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	ध्यान	dhyaana
ज्योत jyota मनुष्य manushhya चांदण्या chaa.ndaNyaa अभ्यास abhyaasa कल्याण kalyaaNa घड्याळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	न्याय	nyaaya
मनुष्य manushhya चांदण्या chaa.ndaNyaa अभ्यास abhyaasa कत्याण kalyaaNa घडाळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	श्याम	shyaama
चांदण्या chaa.ndaNyaa अभ्यास abhyaasa कल्याण kalyaaNa घडाळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa ग्रहा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सण्जन sajjana	ज्योत	jyota
अभ्यास abhyaasa कल्याण kalyaaNa घड़ाळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	मनुष्य	manushhya
कल्याण kalyaaNa घड्डाळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	चांदण्या	chaa.ndaNyaa
घड्राळ ghaDyaalda कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	अभ्यास	abhyaasa
कच्चा kachchaa खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	कल्याण	kalyaaNa
खड्डा khaDa.hDaa गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	घड्याळ	ghaDyaalda
गठ्ठा gaTha.hThaa धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	कच्चा	kachchaa
धक्का dhakkaa पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	खड्डा	khaDa.hDaa
पत्ता pattaa तिप्पत tippata पन्नास pannaasa सज्जन sajjana	गठ्ठा	gaTha.hThaa
तिप्पत tippata पन्नास pannaasa सज्जन sajjana	धक्का	dhakkaa
पन्नास pannaasa सज्जन sajjana	पत्ता	pattaa
सज्जन sajjana	तिप्पत	tippata
- 33	पन्नास	pannaasa
पुरतक pustaka	सज्जन	sajjana
3 1	पुस्तक	pustaka

कस्तुरी	kasturii
नारितक	naastika
प्राप्त	praapta
स्वतंत्र	svata.ntra
स्वातंर्त्य	svaata.ntrya
ध्वनी	dhvanii
गोष्ट	goshhTa
युद्ध	yuda.hdha
युद्ध	yuddha
पश्चिम	pashchima
फक्त	phakta
तर्हा	tarhaa
अर्थ	atha.r
कर्ता	kataa.r
गर्दी	gadii.r
निर्णय	niNa.rya
पत्र	patra
त्रिकोण	trikoNa
श्रावण	shraavaNa
आश्रम	aashrama
शुश्रूषा	shushruushhaa
ग्रंथ	gra.ntha
प्रजा	prajaa
द्राक्षे	draakshe
गृहस्थ	gRihastha
प्रकृती	prakRitii

Sample Words

Figure 2: Examples

नैर्ऋत्य	naiRi{\kern-0.25em}.r{\kern0.25em}tya
शुभ	shubhra
सहस्त्र	sahastra
क्रीडा	kriiDaa
स्वच्छ	svachchha
स्वरूप	
ट्रक	svaruupa Traka
्रप ⁷ आम्ही	
7	aamhii
चतुर्थी	chatuthii.r
ऋतू	Rituu
ऑक्तोबर	aa.cktobara
नोव्हेंबर	novhe.nbara
ग्रॅम	gra.cma
ऊँचा	uu.Cchaa
बैलगाडी	bailagaaDii
गुरुद्वारा	guruda.hvaaraa
गुरुद्वारा	gurudvaaraa
निराळ्या	niraaldyaa
ज्ञान	gyaana
मेकॅनिक	meka.cnika
म्हैस	mhaisa
देणार्या	deNaaryaa
प्रतिष्ठा	pratishhThaa
इतिहास	itihaasa
आस्थाबद्ध	aasthaabaddha
अंतर्राष्ट्रीय	a.ntaraa.rshhTriiya

Figure 3: Examples