To: Unicode Technical Committee From: Roozbeh Pournader, Facebook

**Subject: Feedback on Properties** 

Date: 11 January 2019

Attached is feedback sent to Roozbeh Pournader on properties and ScriptExtensions.txt.

The following topics are covered:

Item #1 Vedic signs used in Indic various scripts

Item #2: DEVANAGARI GRAVE ACCENT (U+0953) and DEVANAGARI ACUTE ACCENT (U+0954)

have no Indic\_Syllabic\_Category

Item #4: Vedic accents in Kannada

Item #5: Khmer misc. signs in Syllable Modifier

Item #7: Indic\_Syllabic\_Category for U+0AFB GUJARATI SIGN SHADDA

Item #9: Category for U+11C44 BHAIKSUKI GAP FILLER-1 and U+11C45 BHAIKSUKI GAP FILLER-2

Item #10: Category for U+11046 BRAHMI VIRAMA

## Vedic signs are used in other scripts #1

① Open

Shreeshrii opened this issue on Feb 18, 2015 · 10 comments





Shreeshrii commented on Feb 18, 2015

Please see http://sanskritdocuments.org/doc\_veda/puruSukta.html?lang=sa as a sample of webpage for usage of vedic accents in sanskrit text transliterated in other Indian scripts.

Currently, not all language scripts fully support this. Even though it would be for a very niche audience, it would be helpful to have vedic swaras support for all Indian scripts.



roozbehp commented on Feb 18, 2015

Thanks. This is just my staging area for Unicode data files. The best way to make sure we track this properly is submitting photos or scans of published printed material in non-Devanagari scripts using the Vedic signs either here or directly to Unicode.

Owner

Milestone

Assignees No one assigned

Labels None yet

Projects None yet

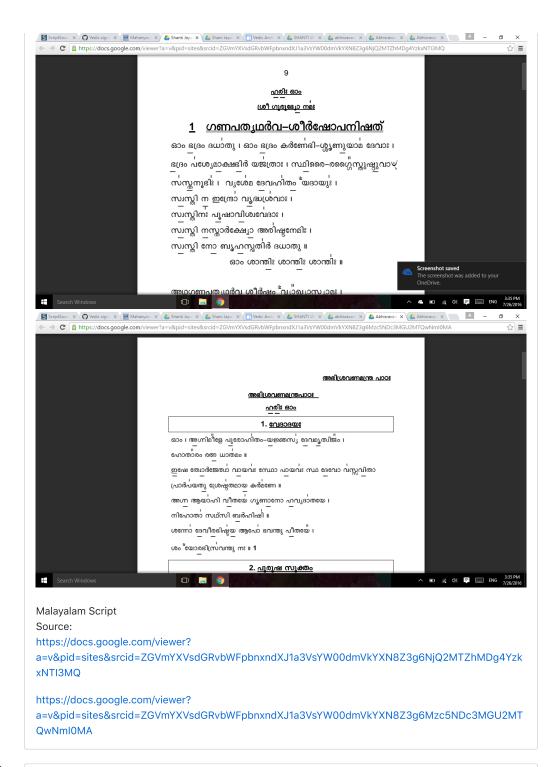
No milestone

3 participants



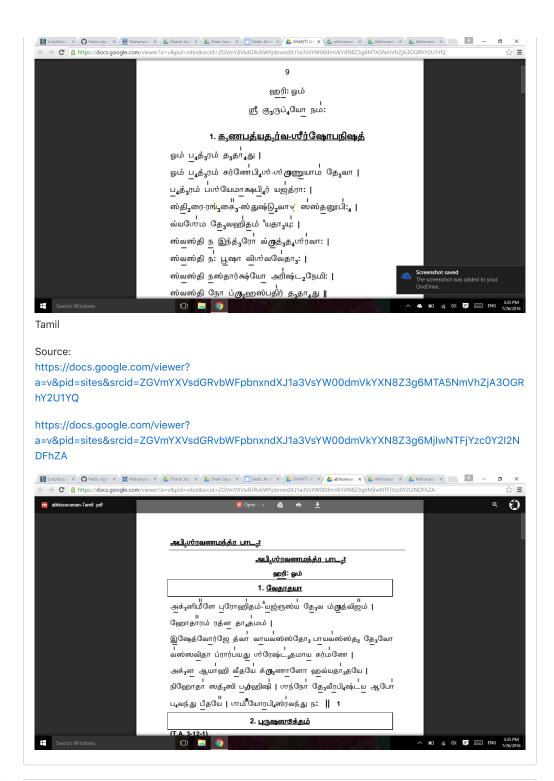


Shreeshrii commented on Jul 26, 2016





Shreeshrii commented on Jul 26, 2016 • edited ▼



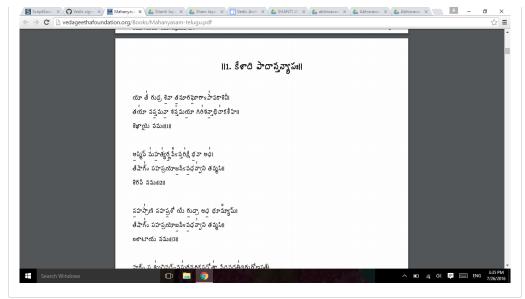


Shreeshrii commented on Jul 26, 2016

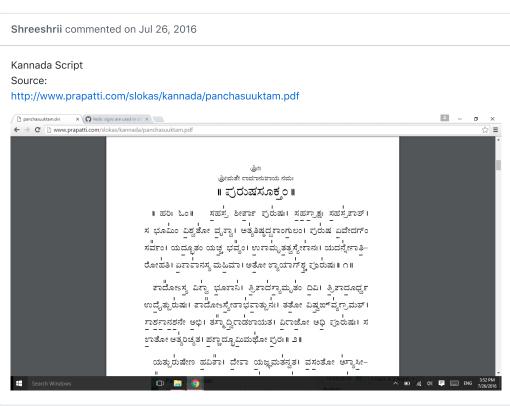
Telugu Script

Source:

http://vedageethafoundation.org/Books/Mahanyasam-telugu.pdf







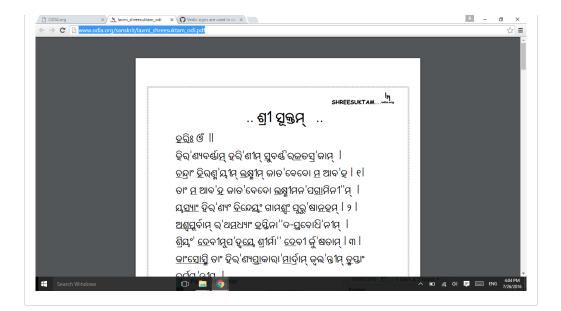


Shreeshrii commented on Jul 26, 2016

Oriya/Odia Script

Source:

http://www.odia.org/sanskrit/laxmi\_shreesuktam\_odi.pdf





sridatta1 commented on Feb 17, 2017

Shukla-yajurvedic characters in bengali script

Here is attestation for 1CD5 VEDIC TONE YAJURVEDIC AGGRAVATED INDEPENDENT SVARITA, 1CD6 VEDIC TONE YAJURVEDIC INDEPENDENT SVARITA, 1CD8 VEDIC TONE CANDRA BELOW

ছাবিংশী ক'শুকা।

(১), উপ বাষ্ঠ্যতোহনী প্রায় আ বহৰতে বর্ষত উক্থাবাং সৃষ্ট্যনি।

(১) যত ইফ্রে মুহ্বমুপ্তবৈ আ বিফাবে আ। (০) এব তে ঘোণিফ্রক্থেছাআ।

(৪) বেবেছাভা দেবাবাং সৃষ্টামি স্ক্রভায়্বে সৃষ্ট্যমি। ২২ ৪

একোনচখারিংশী কণ্ডিকা।

(৽) মহাদ্ধ । ইলো নুন্না চর্পিপ্রা উত বি বহা অবিনঃ নহোভিঃ।

অসল্যথাব্বে বীলাগেকঃ পুথঃ হক্তঃ কণ্ডিভূব।

(২) উপ বানগৃহীতোহিদি সহবজার খা। এব তে বোনির্থহেজার খা। ৩৯।

From

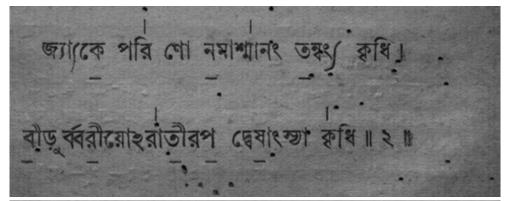
here latin w,L are used due to lack of proper glyphs

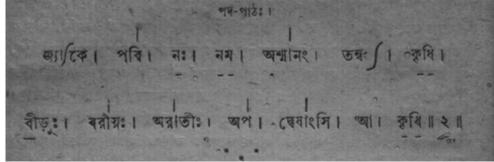
Similar characters are used in other scripts, but materials aren't available online.



sridatta1 commented on Feb 17, 2017

#### 1CE1 VEDIC TONE ATHARVAVEDIC INDEPENDENT SVARITA





source

http://eap.bl.uk/database/overview\_item.a4d?catld=186923;r=17465



sridatta1 commented on Feb 17, 2017 • edited ▼

### Samavedic characters in Bengali

attestations for 1CD0 and 1CD2

हाउदाहै। बाहरेका सार ७८४ । हाउदाउ । उत्तर स्थान । व्याद्य । व्याद्य । सन्का न जिर्थ । हाउदाउ । व्याद्य । निर्थ । व्याद्य ।

#### source

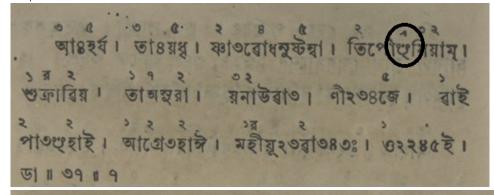
http://eap.bl.uk/database/overview\_item.a4d?catId=187038;r=21411

Combining digits and letters have not yet been encoded in Bengali (also Kannada, Telugu etc.) scripts.

No attestation is provided for 1CD1 VEDIC TONE SHARA which indicates  $d\bar{\imath}pta$   $\acute{s}ruti$ , since  $d\bar{\imath}pta$   $\acute{s}ruti$  is indicated by VEDIC TONE ATHARVAVEDIC INDEPENDENT SVARITA see L2/15-164



sridatta1 commented on Feb 18, 2017



source

http://eap.bl.uk/database/overview\_item.a4d?catld=187038;r=21411

## Devanagari grave and acute have no SyllabicCategory #2

New issue

① Open | behdad opened this issue on Dec 18, 2015 · 4 comments



behdad commented on Dec 18, 2015

It has Position, but not Category. Behaves like Matras.

Also, perhaps add code that checks that all characters with a position have a category? Better yet, all assigned characters in the represented blocks have a category...



behdad commented on Dec 18, 2015

Same thing about (deprecated) U+0953..0954. We handle them the same way as Bindu and Gemination\_Mark and Visagra. Or maybe we don't care about these.



roozbehp commented on Dec 18, 2015

Thanks for the report. I'll look and see if I can find a good category for them.

BTW, please note that there's absolutely no guarantee that something with a position will have a category, or something with certain categories will have a position. I don't think there will ever be such a guarantee in the future either.



roozbehp commented on May 12, 2016

I'll put U+17DD into Syllable\_Modifier, based on the information in the Unicode chart: "indicates that the base character is the final consonant of a word with its inherent vowel sound".



roozbehp commented on May 12, 2016

U+17DD fixed by f404a9b. Will keep open for the Devanagari grave and acute.

Toozbehp changed the title from U+17DD has no SyllabicCategory to Devanagari grave and acute have no SyllabicCategory on May 12, 2016

Assignees

No one assigned

Labels

None yet

**Projects** 

None yet

Milestone

No milestone

2 participants



Owner

Owner

Owner

### proozbehp / unicode-data

## Kannada, Vedic Accents, symbols #4

① Open | MayuraVerma opened this issue on Apr 24, 2017 · 0 comments



MayuraVerma commented on Apr 24, 2017

http://www.unicode.org/L2/L2001/01304-feedback.pdf http://www.unicode.org/L2/L2003/03068-kannada.pdf http://www.unicode.org/L2/L2003/03101-indic-dir/Kannada.pdf

In the above proposals, below seven vedic accents and symbols were proposed to UTC. But looks like only 5 of them exist but they are in different set, they are not referenced in the Kannada unicode block notes.

Laghu and Guru are not included in the Kannada unicode block at all.

Could you please check.

- 1. udatta (Swarita) (vertical stroke above all characters) " "(U+0951) Devanagari - confirmed
- 2. Anudatta (dash below all characters) "\_" (U+0952) Devanagari - confirmed
- 3. Deergha Swarita (double vertical strokes above all characters) "  $\square$  " (U+1CDA) Vedic Extension - confirmed
- 4. Danda and Double Danda U+0964, U+0965 (I) (II)

(Still missing in the Unicode standards)

5. Guru (dash Above) (U+1CD1) maybe vedic extension, Vedic tone Prenkha

(Not Confirmed)

6. Laghu (U sign above all characters) (U+1CF5) maybe vedic extension, Vedic tone candra above Assignees

No one assigned

New issue

Labels

None yet

**Projects** 

None yet

Milestone

No milestone

1 participant



### proozbehp / unicode-data

# Khmer misc signs in Syllable\_Modifier #5

① Open | behdad opened this issue on Jul 14, 2017 · 1 comment



behdad commented on Jul 14, 2017

Hi,

Currently the following Khmer misc signs are marked Syllable\_Modifier:

17CB ; Syllable\_Modifier # Mn KHMER SIGN BANTOC

; Syllable\_Modifier # Mn [3] KHMER SIGN KAKABAT..KHMER SIGN SAMYOK 17CE..17D0

SANNYA

; Syllable\_Modifier # Mn 17D3 KHMER SIGN BATHAMASAT 17DD ; Syllable\_Modifier # Mn KHMER SIGN ATTHACAN

In our experience with Uniscribe and Wikipedia data, these are allowed in the middle of syllable, eg. after consonant before matra. So, in HarfBuzz, we recategorize them as top-matras. Would be nice to resolve this.

Owner roozbehp commented 7 minutes ago



Please use https://www.unicode.org/reporting.html for reporting issues.

No one assigned Labels None yet

New issue

**Projects** None yet

Assignees

Milestone No milestone

2 participants



## Category of U+0AFB GUJARATI SIGN SHADDA #7

New issue

① Open

dscorbett opened this issue on Sep 15, 2017 · 4 comments



dscorbett commented on Sep 15, 2017

The Indic\_Syllabic\_Category of U+0AFB GUJARATI SIGN SHADDA should be Gemination\_Mark instead of Cantillation\_Mark. First, it is a gemination mark. Second, the USE only allows Cantillation\_Marks at the end of a cluster, but the second example in section 4.2 of L2/15-103R shows that it may occur in the middle of cluster. (I know Gujarati doesn't use the USE; I assume it should do the same thing as the USE for this character.)

Assignees

No one assigned

Labels

None yet

**Projects** 

None yet

Milestone

No milestone



roozbehp commented on Sep 18, 2017

behdad commented on Sep 18, 2017

Owner





Please report issues in Unicode data files here: http://www.unicode.org/reporting.html. Issues in this

If this also needs update in HarfBuzz, please file an issue there too, so we don't forget.



dscorbett commented on Sep 18, 2017

I reported it both here and to Unicode directly.

issue tracker are not really seen by anybody but me.

Since HarfBuzz doesn't support Unicode 10 yet and the Indic and USE shapers are subtly different, I am not actually sure whether this will be a problem in HarfBuzz.



corbett referenced this issue on Oct 2, 2017

Incorrect shaping around U+OAFB GUJARATI SIGN SHADDA #552

(l) Closed



jfkthame commented on Oct 3, 2017

It looks to me like Gemination\_Mark should probably be split. Currently, there are three characters with this property in IndicSyllabicCategory.txt:

0A71; Gemination Mark # Mn GURMUKHI ADDAK

11237; Gemination\_Mark # Mn KHOJKI SIGN SHADDA

11A98; Gemination\_Mark # Mn SOYOMBO GEMINATION MARK

However, AIUI the Gurmukhi mark is different from the other two, in that it indicates gemination of the following consonant, whereas the others indicate gemination of the preceding consonant. This suggests that GURMUKHI ADDAK would follow any matras etc on the preceding consonant and appear at the very end of a cluster, whereas the Khojki and Soyombo marks (and the Gujarati one that should be treated similarly) belongs immediately after the consonant it modifies, and precedes vowel matras. They're functionally quite different, and fit into the syllable structure in different places.

## 📮 roozbehp / unicode-data

# Category of U+11C44 BHAIKSUKI GAP FILLER-1 and U+11C45 BHAIKSUKI GAP FILLER-2 #9

New issue

① Open

punchcutter opened this issue on Jun 24 · 1 comment

4	punchcutter commented on Jun 24	Assignees
	As explained in harfbuzz/harfbuzz#1035 both of these gap fillers should act like a Consonant so they can hold a visarga.	No one assigned  Labels  None yet
	roozbehp commented 6 minutes ago  Owner  Please use https://www.unicode.org/reporting.html for reporting issues.	Projects None yet
	Trease use https://www.anicode.org/reporting.html for reporting issues.	Milestone No milestone
		2 participants

### proozbehp / unicode-data

## Category of U+11046 BRAHMI VIRAMA #10

New issue

① Open

punchcutter opened this issue on Jul 19 · 2 comments



punchcutter commented on Jul 19

As explained in harfbuzz/harfbuzz#1102 the USE category derived for the Brahmi Virama causes USE shaping to fail for Old Tamil Brahmi. I don't know if there's anything to do on the Unicode end, but I'm logging this here in case.

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

roozbehp commented on Jul 22

behdad commented on Jul 22

data or not. cc @PeterCon

Owner

3 participants



I still maintain this for Unicode, but I don't look here regularly. If you have bug reports or requests on Unicode data, you should send them to https://www.unicode.org/reporting.html

We should find out if @roozbehp is still interested and have time resources to continue curating this