

Negotiating Neographies in Unicode

Approaches for Encoding Newly-Invented Scripts

Anshuman Pandey

Deborah Anderson

Script Encoding Initiative, UC Berkeley





90 ¥apyaz

ភាសាលាខេ កា





What is a "neography"?

Neography:

- = Newly invented script: neo + orthography
- In this talk, refers to a script created in the 20th 21st centuries
- Most neographies are from Africa or South Asia





Script Encoding Initiative

Project working to help communities get eligible characters and scripts into the Unicode Standard Department of Linguistics
University of California, Berkeley

- Scripts to Encode
- Progress Overview

- News & Presentations
- Press

- How to Donat
- Donors

WELCOME TO THE SCRIPT ENCODING INITIATIVE

The Script Encoding Initiative (SEI), established in the <u>UC Berkeley</u> Department of <u>Linguistics</u> in April 2002, is a project devoted to the preparation of formal proposals for the encoding of scripts and script elements not yet currently supported in Unicode (ISO/IEC 10646).

<u>Unicode</u> is the universal computing standard specifying the representation of text in all modern software. To date, Unicode has largely focused on the major modern scripts, particularly those scripts most widely used in business. Some minority and historic scripts have already been encoded, as well as historic characters of the major modern scripts.



The goal of the SEI project is to fund the preparation of script proposals that will be successfully approved by the Unicode Technical Committee and WG2 (ISO/IEC 10646) without requiring extensive revision or involvement of the committee itself.



A secondary goal to encourage the creation of freely-available Unicode-conformant fonts. This will help to promote widespread adoption and implementation of the scripts.

By providing funding for proposal authors, drawn from faculty and graduate students as well as other experts, the Script Encoding Initiative represents a concerted effort to tackle the remaining scripts and remaining script issues. The project will be assisted by a Unicode Vice President to assure that the proposals meet requirements of the Unicode Technical Committee and of the international standards community. To date, the project has helped get over 70 scripts encoded.

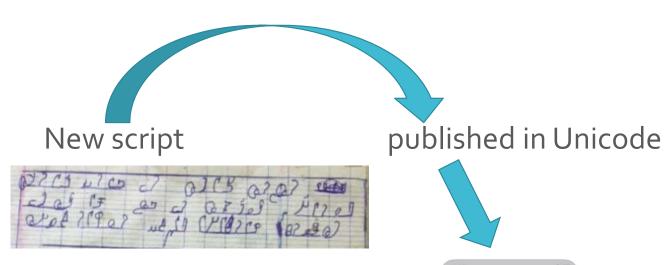
The Script Encoding Initiative project is of world-wide importance, for minority and historic scripts. For a minority language, having its script included in the universal character set will help to

https://linguistics.berkeley.edu/sei



Neographies (New Scripts) in Unicode

General impression of process



Facebook

ಡಿಗುರ

8 4 8 5 6 31 6 0 6 5





Neographies (New Scripts) in Unicode

More accurate view of process

[Long proposal review and approval process]



published in Unicode

[need CLDR data, fonts, keyboards, ...]



Facebook





Script Ad Hoc and Neographies

Script Ad Hoc

- meets monthly to review new script proposals.
- makes recommendations to the Unicode Technical Committee



 Note: Some new script requests come through other means: Unicode Feedback form or to Script Encoding Initiative



Script Ad Hoc Questions (for Neography Proposal Authors)

Users

• Number of people are using the script today? How many are using it daily to write the language?





Script Ad Hoc Questions (for Neography Proposal Authors)

Publications

- Are there publications not produced by the script's creator?
- Is it used for newspapers, pamphlets, and in books?
 How many books in the script have been produced?

First Book in Nsibidi





Script Ad Hoc Questions (for Neography Proposal Authors)

Schools / Usage

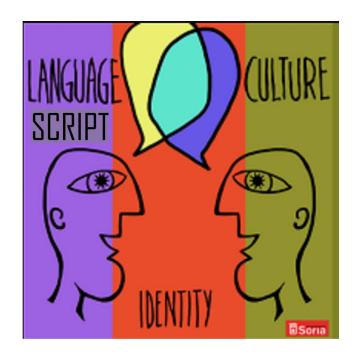
- Number of people learning the script in schools today? Any graduates of the school yet and, if so, how many?
- Evidence script's use is growing?





Reasons for creating new scripts (general)

- Can preserve a group's unique linguistic identity and cultural heritage, differentiating one group from others
- Considered a unique cultural contribution, often viewed with pride, since most scripts are created by a member of the community

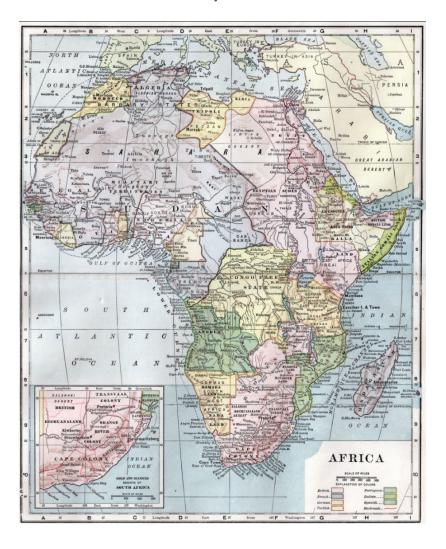


African Neographies



Reasons for creating new scripts (African scripts)

 Way to write indigenous languages of Africa, not tied to Africa's history of colonization



Map of Africa, 1910 (image: Wikipedia)



Reasons for creating new scripts (African scripts)

- Often considered by users to be better suited to represent the sounds of their language (over the Latin or Arabic scripts)
- Viewed as a way to improve literacy; not dependent upon knowing French, English (etc.)





Reasons for creating new scripts (African scripts)

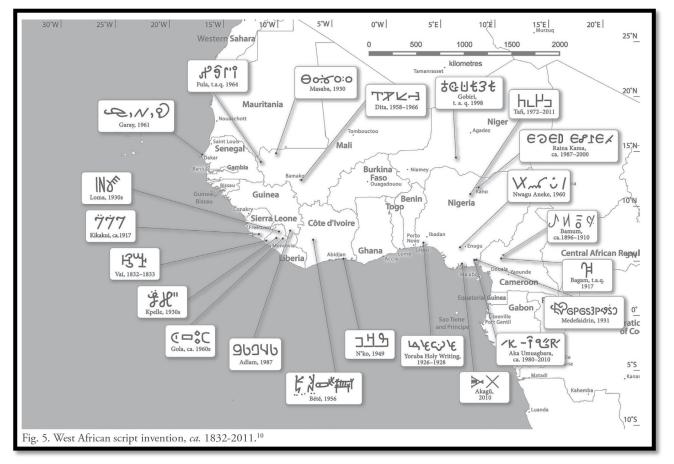
 In some cases, the script's creator may have a vision for the script to be extended to write all (or many of) languages of Africa







 Most African neographies are created to write languages in West Africa; a few scripts are connected with religious groups



 Some scripts (and their glyphs) may be tied to historical pictographs or objects associated with the group

> Origins of simplified nsibiri (nsibidi) characters. Woman in a fattening house 'A man locked in prison' Macgregor, 1909 with a mirror on the wall Dayrell, 1911 Mgbidi, wall Nkporo, prison



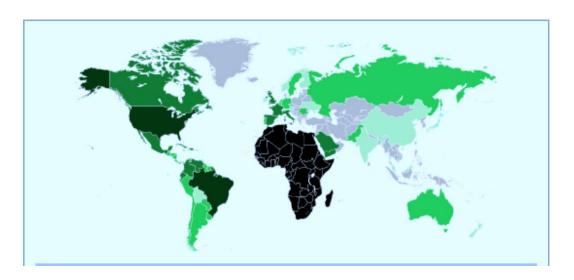
- Several recent neographies have adopted technology:
 - YouTube or Facebook videos online (often with tutorials); Facebook groups



Nsibidi for Igbo: Introduction https://www.youtube.com/watch?v=83DQD-GbDWo



- Online presence shows:
 - knowledge of Unicode (based on ADLaM and N'Ko?)
 - understanding of the importance of digitization for survival of the script (and its role in preserving the language)
 - interest in these scripts amongst those in the diaspora



Map of African diaspora (Image: Wikipedia)

African Neographies: Three Case Studies



I. Case Studies – Ditema Tsa Dinoko (=Isibheqe Sohlamvu)

Key traits:

- Created in 2010s by linguists, designers, software programmers
- Used for southern Bantu languages in South Africa and neighboring countries
- Inspired by Sesotho mural art / Zulu beadwork
- No Unicode proposal



https://isibheqe.org.za/

I. Case Studies – Ditema Tsa Dinoko (=Isibheqe Sohlamvu)

7 N DIKAKANYO/TSELE LE TSELE April 2016

ISIGODLO SEZIFUNDISWA: LUGCINWA ULWAZI EMAGCEKENI AKWANGQONDONKULU

THEKWANE NDABA isiZulu KwaNgqondonkulu thina kabafundi nezifundiswa sisendaweni lapho kukhona ixoxo elikhalayo emgodini,

asilalele isexwayiso salo. KwaNgqondonkulu emagcekeni onke thina abangaphakathi senziwa ukuba sikholwe ukuthi umsebenzi wethu muhle. Iqiniso lisababa nxa kubonwe isimo sezifundiswa ezahlukaniswa nemindeni yazo. Kule ndaba kuzobekwa phansi izindlela ezintathu ulwazi lakwaNgqondonkulu lwebiwa ngazo. Okokuqala kungukusetshenziswa kwesiNgisi nakwesiBhunu emagcekeni emfundo ephakeme. Okwesibili kuyizinhlobo ezi bi zocwaningo eziceliwe ngabaphathi bezigodlo afundiswa. Okwesithathu kuyizinhloso zokucindezela zalo cwaningo ezifihliwe.

de sasetshenziswa isilungu ukucindezela abaningi. Lokfiu kusenzeka emagcekeni ethu esimanje. Ikakhulu abantu ezweni lethu bakhuluma izilimi zabo njengesiBhaca, isiLala, Sepedi, Xiisonga, isiXhosa, Setswana, Sesotho, Tshivenda, isiBhunu, isiCamtho, SiSwati, isiNdebele, isiZulu nezinye eziningi, kodwa ke sisaduma isiNgisi nesiBhunu emnothweni, komabonwakude, ekuqashweni nangaphakathi kwezombusazwe. Isilungu sesithathile zonke zezikhundla zokuzwakala kuleli zwe

Yingakho ke kusondela kithi inkinga la Njengabafundi asifuni neze ukuzilondolozela lo lwazi esilutholayo khona. Cha, kufuze silufake ezandleni zabakithi ekhaya balumwampule. Kodwa pho kunganikezwa njani lo lwazi nxa lusesilungwini? Kuzobachazelwa njani nxa abazali nabomndeni wethu bangakazwile neze la magama athize enhlobo yesiNgisi esibondayo? "Intersectionality" kungathiwa kanjani ngesiZulu? Ne. "Decolonial project",

Those of us who are within the walls of the university often forget or do not

"Transgender" ne-"Modernism" futhi? Akungukuthi ingekho leyo miqondo ezilimini zethu, okuyinkinga kodwa kungukuswela kwemibhalo ezilimini zethu ezingasimela njengamaseko omlilo wengqondo. Ngakho ke kuzomane sicwaninge sicabange ngezilimi zethu ukuze ulwazi lwethu lungandiza emiphefumulweni kuze lufike emiphakathini yonke.

Ziningi izinhlobo zalo lwazi olukwazi ukufuna ukuphapha 'maphiko. Lo lwazi nalo cwaningo olwenziwa yizifundiswa luyinhlobonhlobo njengempuphu ebigaywa kamnandi. Ezinye zalezo zinhlobo zibalulekile zimi phezulu nokho zisakhona ezinye zazo ezingudaka ngenxa yokusetshenziselwa kwazo ngobukoloni. Esigabeni esizayo kuzokhonjiswa isibonelo salokho. Okunye kungucwaningo lolo olungakwazi ukusiza abantu bomhlaba ekukhuphukeni kwabo, njengokuchaza izitho zezilwanyane ezithi "thorax", "abdomen" nezinye njalo. Angithi sidinga ukuluchitha lo lwazi kodwa ngenkathi iyakhula indlala yabakithi pho ngabe sishayane ngenduku ngezitho zezilwanyane? Sinemithwalo yabazali nayokhokho bethu esidinge siyithwale.

Njengoba ngishilo ngenhla, kade kwaqanjwe ucwaningo

olwalubasiza abelungu bohulumeni wobandlululo ukuba baqhube nokwazi ukubacindezela abantu kanjani. Esinye isibonelo salona silona luka-A.T. Bryant olwalucwaninga ngombuso wesifundazwe saKwaZulu. Lona lwabonwa yizikhulu zaseKoloni yase-'Natali'. Abelungu bona babefuna ukwazi ukuthi umbuso wakhiwe njani KwaZulu ukuze bethole indlela ethile ukuhlasela ngayo abantu bomdabu. Lolu cwaningo lungaphakathi kwenhlobo yolwazi ethiwa ngesilungu i-'Anthropology', kumbe ngesiZulu ethi ukucwaninga mayelana namasiko, umnotho, ubukhosi, umbuso, inkolo nezinye izinto zonke ezenziwa ngabantu bonke bomhlaba. Luyingozi lo cwaningo ngoba lusaceliwa yizinkampani ezifuna ukudamuka ezweni labantu.

Ngakho ke kungathiwa ukuthi amagceka akwaNgqondonkulu ayizigodlo zezifundiswa ngoba lo lwazi lwazo lungavunyelwe ukuphuma kuleso sigodlo ukuba luhambe kuze lufike ezandleni zabakithi abangenayo imithuba yokufunda. Ngaphezu kwalokho kwaNgqondonkulu kufunekile ucwaningo oluyokhombisa izindlela ezintsha ukweba umhlaba wabantu ngazo.

ALADO ABAN PAN VAN VANDO GOAA

VENERAL AV VIXÁ «LAXÁV
ADVÁČ VA ADV ADD DAVVO

COPAĂ, VAVIO ADVAD PO

VENERAL AVELO ACELO

VENERAL AVELO

VENERAL AVELO

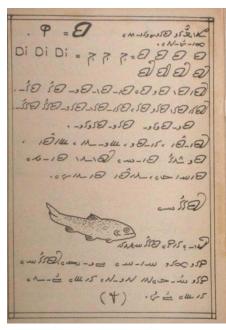
ANO COMO

ANO C



II. Case Studies– Garay





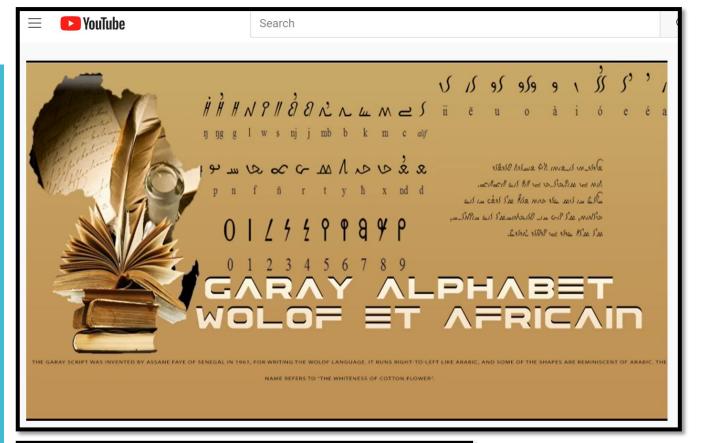


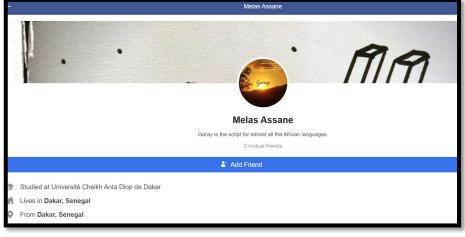
Key traits:

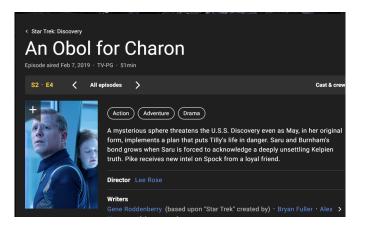
- Created in 1961 by Assane Faye
- Used for Wolof in Senegal and environs
- Some written materials, including Koran
- Taught informally
- Proposal still under review



II. Case Studies– Garay





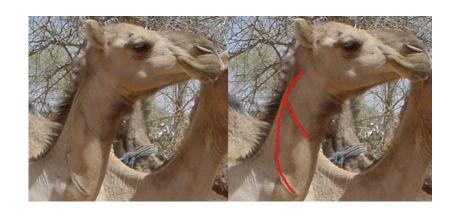




III. Case Studies – Beria

Key traits:

- Created in 1950s by Adam Tajir for writing the Zaghawa language of Sudan (Darfur) and Chad; in 2000, Siddick Adam Issa modified the script
- Glyphs derive from camel brands
- Unicode preliminary proposal
- Groups use script differently; need community to reach consensus









Siddick Adam Issa

Search

III. Case Studies – Beria

Alsadik Sadik (Israel)



South Asian Neographies

South Asian Neographies in Unicode

In Unicode

- Ol Chiki
- Warang Citi
- Sora Sompeng
- Mro
- Pau Cin Hau alphabet
- Masaram Gondi
- Toto
- Wancho
- Hanifi Rohingya

Approved for inclusion

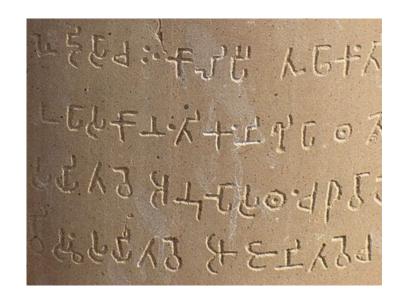
- Tangsa
- Nag Mundari

Pending

- Sunuwar
- Tolong Siki
- Gurung Khema

Neographies in South Asia -Historical context

- Script development in South Asia
 - continuous phenomenon since at least 5th century BCE (... or perhaps 24th century BCE?)



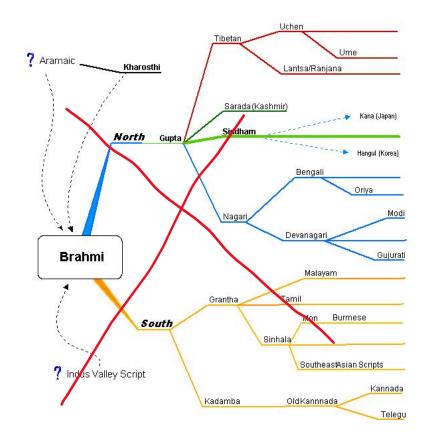
Excerpt of edict of Ashoka in Brahmi on a pillar at Girnar, 2nd century BCE



'Unicorn' seal from Harappa, 24to – 2250 BCE

Neographies in South Asia - Definitions

- South Asian 'neography':
 - Genetically unrelated to other scripts
 - Not organically derived from Brahmi, Latin, etc.
 - Indigenous creation



Motivations for script creation

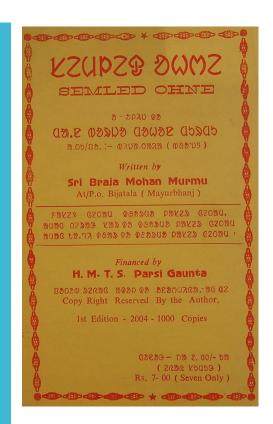
 Distinctive visual marker for language and community

Parity with other written languages

Separation from other languages

 Development of an orthography that is more suited to phonology of language

'Classic' South Asian Neographies



Ol Chiki ap Baba



\$2,6% JEOS

1830 3608

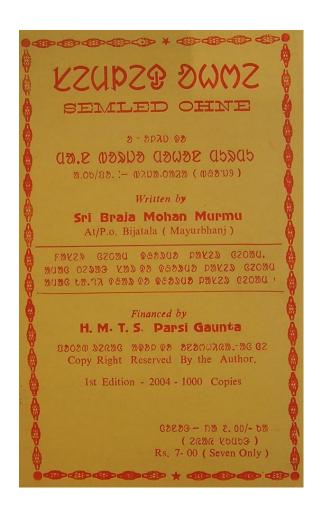
3636 033338

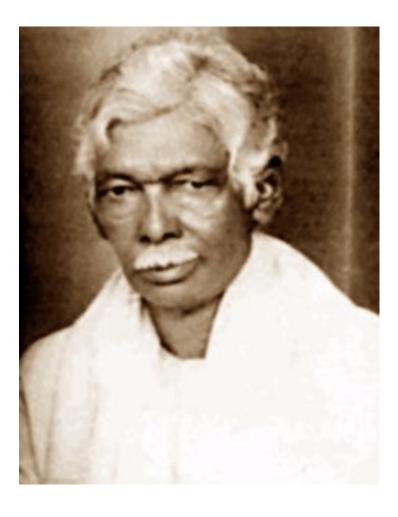
8336623 3626

37893663

Warang Citi

Ol Chiki





- Developed by Raghunath Murmu in 1925 for Santali, a Munda language
- Provide distinctive script that is tied to Santali relationship to nature

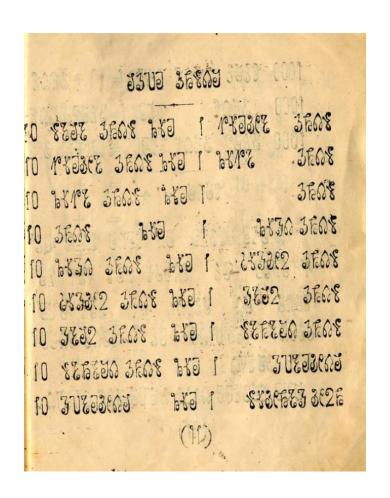
Warang Citi

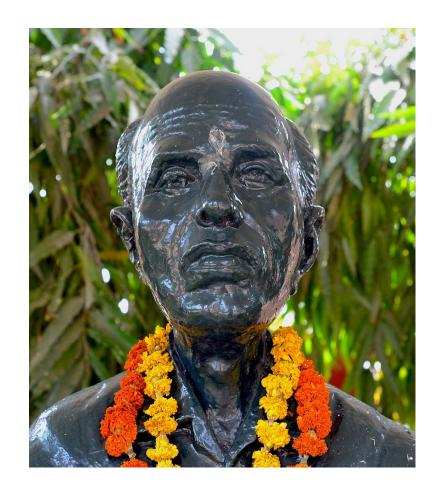




- Developed by Lako Bodra for writing Ho, a Munda language, in 1950
- Alternative script to orthographies used by Christian missionaries

Sora Sompeng



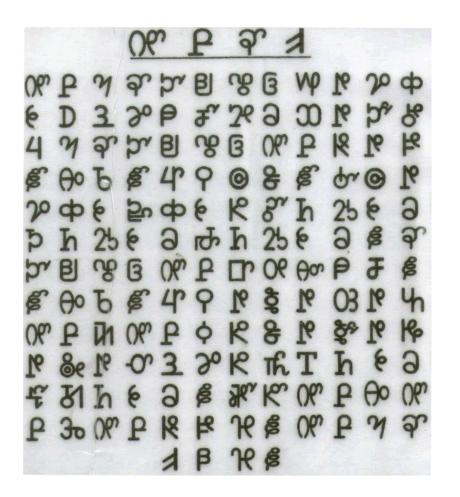


- Developed by Mangei Gomango for writing, a Munda language, in 1936
- Liturgial script for Sora religious practices

Other Neographies:

Laipian lai – Pau Cin Hau





- Developed by Pau Cin Hau in 1902
- Syllabary for writing Tedim, Tibeto-Burman language
- Representation of tones

Other Neographies:

Laipian lai – Pau Cin Hau

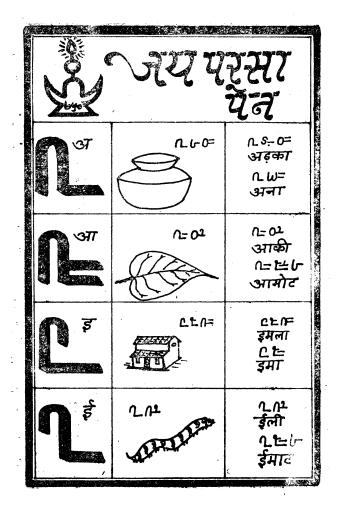
```
Ldal ar bul lul case bul bach nul a a[...]
     (L) 47 | CAL 44 | CAL 644 
11. I 174 1173 1679 185 1671 1684 16 1671 1671 16
[?]du: ar arou alo alo tale da interpretation (see [...]
IOXO 12X1 1XD ITA3 XD ITA3 10VO 1XD 1XD
[?]YO· ZAHI: 100 Li CYI d CYI CYP LAI: CYF
[?]; NAPI 10. EATI CY CY; GAI B1PI 25
     DUE XVIII OU ON LAE CAAL OU AR OAF
     LYTI 10. YI OY! LAL YL OYUL CYTI 10. D1L
         191 UYG 18 153 1050 116 18 FJ 1181 1FSG
[?] OXF G91 X50. OX[3] FVX 121 XV1 X[3] 9891 @[...]
              1VPX IEVE IX 1EPD 1EVD 16VD 1
     310 9711. 26 KH (CHH (CHP) 1881...]
```

- Developed by Pau Cin Hau by modifying his original syllabary
- Alphabet for writing Tedim, including standalone tone marks

Other Neographies:

Gondi





- Developed by Mangal Singh Masaram for Gondi, a Dravidian language, in 1928
- Modelled on Brahmi, with unique view towards the inherent vowel

Other Neographies:

Rohingya

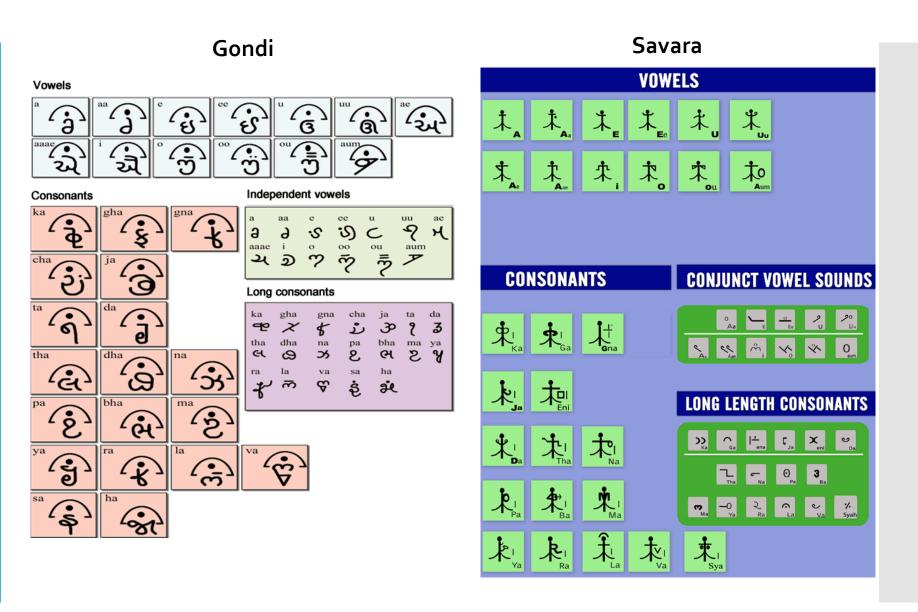


المدّ المالا المالا المالا المالية ال

nablal wall natul eien But

- Developed by Mohammed Hanif in the 1980s for Rohingya, an Indo-Aryan language
- Inspired by Arabic script

External Neographies



Prasanna Sree has designed scripts for at least 19 indigenous languages of India

External Neographies





Home > States > Andhra Pradesh

Andhra University professor enters World Atlas of **Endangered Alphabets**

S Prasanna Sree's name, as the first Asian and Indian, has been incorporated in the World Atlas of Endangered Alphabets, the US, 2019, which was inaugurated recently.













Published: 29th January 2019 09:05 AM | Last Updated: 29th January 2019 09:09 AM 🕒 | A+ A A-



Unclear motivations?...

Competing Neographies



रांची विवि के आर्यभटट सभागार में आयोजित सम्मेलन को संबोधित करते छत्तीसगढ़ से आये सीपी बाखला.

चक्रधरपुर के बासुदेव राम खलखो का दावा है कि उनके द्वारा विकसित कुडुख बन्ना अधिक सरल, सुंदर है व तेजी से लिखी जा सकती है. कहा: कुडुख कई राज्यों में बोली जाती है और कोई एक राज्य इसकी लिपि पर अंतिम निर्णय नहीं ले सकता. यह केंद्र सरकार का मसला है. सोसाइटी के प्रदेश अध्यक्ष प्रो महेश भगत ने कहा कि इस मुद्दे पर कार्यकारिणी

समिति सोमवार को निर्णय लेगी.

सिकि व कुडुख बन्ना ने अपनी सशक्त

दावेदारी पेश की. डॉ नारायण उरांव

'सैंदा' रचित तोलोंग सिकि लिपि को

झारखंड सरकार ने मान्यता दे दी है, वहीं

रियोजना, खंटी

Phone & Fax No.: 06528-221709

के खंगालक हैत

खंटी - 835210

आठवीं अनुसूची के लिए लिपि जरूरी: किसी भाषा को आठवीं अनुसूची में शामिल करने के लिए उस भाषा की अपनी लिपि जरूरी है. राज्य में झारखंड अधिविद्य परिषद की अनुमित से सिसई व डुंबारी के कुछ स्कूल के विद्यार्थी तोलोंग सिकि लिपि से मैट्रिक की परीक्षा दे रहे हैं. डॉ नारायण उरांव ने 1993 में तोलोंग सिकि लिपि तैयार की, जिसे वर्ष 2009 में जैक की मान्यता मिल

गयी. उधर, बासुदेव राम खलखो के अनुसार उन्होंने वर्ष 1991 में ही अपनी लिपि विकसित कर ली थी. कुडुख के विद्वानों को दोनों लिपियों की निष्पक्ष समीक्षा करनी चाहिए. सम्मेलन के आयोजन में प्रो हिर उरांव, प्रो महेश भगत, अशोक कुमार बाखला, डॉ सेसिल खाखा, संजय टोप्पो, सुखराम मिंज, मनीलाल उरांव, विदंद उरांव व शशि विनय भगत ने महत्वपूर्ण योगदान दिया.

समापन संत्र वेना सम्मलन के समापन संत्र ने मुख्य अतिथि डीआइज शीतल उरांव ने कहा कि भाषा किसी भ समाज की पूंजी है. समी कुडुख भाषियं को अपनी मातृभाषा का प्रयोग करना वाहिए. अपनी भाषा, संस्कृति के पति जागरुकता जरूरी है. नेपाल के सांसद शिवनारायण उरांव ने प्रस्ताव दिया कि अत्राते अंतरराष्ट्रीय कुडुख सम्मेलन का आयोजन नेपाल में किया जाये. फादर अत्रातीजुस मिज ने कहा कि कुडुख के शिक्षा का माध्यम बनाने व सेक्स

टोप्पों ने कहा कि दुनिया भर के कुड़स

भाषी एक दूसरे के साथ लगातार

संपर्क में रहें. पो चौठी उराव ने कहा

कि हर दस कदम पर बोली बदलती है

पर साहित्यिक दृष्टिकोण से लेखन ने

एकरूपता होनी चाहिए.

Two different scripts for writing Kurukh

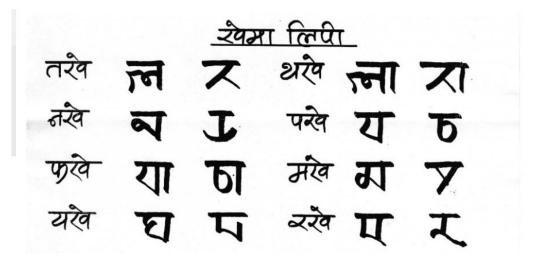
Competing Neographies

THE KATHMANDU POST

CULTURE & ARTS

The Gurung language once had no written script. Now it has five

In an effort to preserve its oral language, the Gurung community came up with its own scripts, but it is now divided over which to use.



Five different scripts for writing Gurung

Features of South Asian Neographies

- Typology
 - Alphasyllabic, on the pattern of Brahmi
 - Alphabetic, LTR, including cursive-joining RTL
 - Syllabic
- Origins
 - Internal development
- Motivations
 - Dream or vision: Pau Cin Hau, Warang Citi
 - First written form for language: Ol Chiki
 - Visible and distinctive identity: all
- Status
 - Script creation is active and scripts are proliferating

Navigating Neographies:

Some metrics

- Standardized usage?
 - Is there a standard form of the script
 - Is the script the primary writing system?
- Institutional support?
 - Is there an officially-recognized standard?
 - Is the script routinely used in education?
- Publication?
 - Is the script used in publications? Digital media?
- Literary tradition?
 - Is literary religious material written in the script?
- Community sentiment?
 - Does the target community view the script positively?
 - Are there competing scripts?
- Technological resources?
 - Is the user community developing fonts, keyboards
- Requester?
 - Who is requesting the inclusion of the script in Unicode?



Motivations for encoding neographies

Case 1:

- I am an inventor and I have designed a brand new writing system for my community or for a specific linguistic community
- I would like for it to be in Unicode so that it will be standardized.
- Once it is in the Standard I will have something to point to, which might help me persuade my people to use it.

Case 2:

- We have developed a new writing system for our people.
- We are using this new writing system to publish books and periodicals.
- Our new writing system is being taught in our schools and our people have embraced the writing system wholeheartedly."

Sunuwar

ISO/IEC JTC1/SC2/WG2 N4028 L2/11-218 2011-05-31

Proposal to Encode the Jenticha Script in ISO/IEC 10646

Anshuman Pandey University of Michigan Department of History Ann Arbor, Michigan, U.S.A. pandey@umich.edu

May 31, 2011

1 Introduction

This is a preliminary proposal to encode the Jenticha script in the Universal Character Set (ISO/IEC 10646). It replaces the preliminary proposal submitted for encoding the script (N3962 L2/10-466R). Changes made to the proposal include the use of English names for signs, the addition of a new combining sign, and more general detail about the proposed characters. Code points have been revised to reflect changes to the allocation for the script in the Unicode Roadmap.

2 Background

2.1 Overview

Jenticha is a script used for writing Sunuwar (ISO 639-3: suz), a Kiranti language of the Tibeto-Burman family that is spoken in Sikkim, India and eastern Nepal. Sunuwar is spoken by 40,000 persons in Nepal. The number of speakers of the language in Sikkim is unknown because data for Sunuwar is absent from the 2001 Census of India. However, Sunuwar was recognized as an official language of Sikkim in 1996. Jenticha is a recognized script in Sikkim. Devanagari is also used for writing Sunuwar and is the most commonly used script for the language.

Sunuwar (सुनुवार sunuvāra), alternately spelled 'Sunwar', is also known by the name 'Mukhiya' (सुविया mukhiyā). Both are Nepali exonyms for the language and its speakers. The autonym is काँड्व köica, which is normalized as 'Kōits'. The language is called काँड्व लो kōica lo 'Kōits Lo' or किराँती-काँड्व kirātī-kōica 'Kirantī-Kōits'. The name 'Kōits' is also romanized as 'Koinch', 'Koincha', 'Koinch', 'tec.

The script was developed by Krishna Bahadur Jenticha (1926–1991) in 1942. It is known indigenously as केंत्रिन क्रेसे jētica brese, 'Jenticha Brese'. The script is also called काइन क्रेसे kõica brese 'Kõits Brese', or the 'Kõits script'; 'brese', or script, is also romanized as 'brehs' or 'blehs', ie. 'Koinch Brehs'. The script is referred to here as 'Jenticha'. It has no genetic relationship to other writing systems. However, some of its letters resemble those of other scripts, such as Limbu and Latin.

L2/21-157 2021-09-10

Proposal to encode the Sunuwar script in Unicode

Anshuman Pandev

pandey@umich.edu pandey.github.io/unicode

September 10, 2021

1 Introduction

The last proposal to encode the Sunuwar script in Unicode was submitted over a decade ago (L2/11-218). Since then, I have intermittently monitored the script and have seen evidence of its ongoing usage by Sunuwar communities in both Nepal and Sikkim. However, the encoding effort has been on hold due to inconsistent contact with the user community. A renewal of the project began in June 2020, when Jeannette Stewart of Translation Commons initiated a collboration between Dev Kumar Sunuwar (Indigenous Media Foundation, Nepal), Deborah Anderson (Script Encoding Initiative), Craig Cornelius, Craig Cummings, Gerry Leonidas, Tex Texin, myself, and others. This group has met at least once a month through video calls to discuss the usage and development of the script. Dev Kumar Sunuwar has facilitated discussions and exchange of documents between the group and the Sunuwar Welfare Society. Lal-Shyakarelu Rapaca, who provided me with information on the script in 2010, is involved in these discussions as part of the Society's team. This collaboration has confirmed that the script has been in continuous usage since its creation by K. B. Jentich in the 1940s. It has been enhanced by users to better represent the Sunuwar language and is actively used, taught, and promoted today. Given the stability and usage of the script, it is suitable for inclusion in Unicode.

The current proposal supersedes the following documents:

- · L2/10-466R: "Preliminary Proposal to Encode the Jenticha Script"
- L2/11-218: "Proposal to Encode the Jenticha Script"

The major changes between it and L2/11-218 are as follows:

- · Change of the Unicode designation for the script from 'Jenticha' to 'Sunuwar'
- · Usage of Sunuwar names for the letters instead of Latin transliterations
- · Ordering of letters according to Jentich's arrangement
- · Addition of letters to complete the repertoire
- · Recommendation to use existing combining signs for various diacritics instead of script-specific signs
- · Expanded description of nasalization sign, vowel length mark, tone marks, and legacy discritics
- · Addition of an auspicious sign representing a mystical sound in Sunuwar culture

A request has been submitted to register the code "sunu" for the script in ISO 15924.

Case Study:

Sunuwar

सुनुवार आषाको मासिक पत्रिका

 उक्षा : Bexi.
 htbkt : I.
 [[2] कृष्ठ : Bexi

 श्वारम्भ : २०७८ । अङ्क : १ । साउन २०७८

काठमाण्डौ जि.प्र.का.इ.मं. ४८६-७७८/०७९

अधिप्रीधिष्ठ [Publisher (प्रकाशक)]
१९४४/८/८११८ (लक्ष्मीराम सुनुवार)

२±१गाशा±ैर्[Editor (सम्पादक)] ॥±±1र2गाशाः **३२**१२४१४ (देवकुमार सुनुवार)

स्थिते विश्वासी श्रिक्ते (Sub-Editor (सह-सम्पादक)) स्वित् १२ स्थः ३२८ (कोईचबु कातिच) उग्रासस्त ग्राथा १८९ (समिर मुख्या) ४०११ व ३२१२४७॥ (शोषा सुनुवार)

90k8र्(व्यवस्थापक)

२१ अ. १८ १८ विषय सुनुवार)

४०५क±/४०:५±ँउ+(आवरण/लेआउट) कादम्बरी क्रियशन) अनामनगर, काठमाण्डौ

> उध्र±स±स (मुद्रण) रौता प्रिन्टिङ सपोर्ट

ॻ2ग्राग् (कार्यालय) का.म.न.पा-१०, काठमाण्डौ ९८४१३५२४३५, ९८४१६६६८३१ इमेल: hamso2078@gmail.com

मुल्यः ४०/-

उध्र1953+ (प्रकाशकीय)

90 ₹३५३३२ (हामी आयौं)

ВИМИВЕ ВЪТОИ ВИЙНОЛОЕМВН
 †1ВИМНИВЕМЕТИ № МЕНЬІЕМ
 †1ВИМНИ ТИТЕТЕ ЗВ ВЪЪТВИ
 †1ВИМ ОИВУ ВЕ ТІМВЯНІЕМ

हाम्सोमार्फत् कोईंच सुनुवार सामू हामी एउटा सदस्यका रूपमा जोडिएका छौं। नाम कमाउने अभिलासा होइन, मनगे धन कमाउने लोभ पनि होइन। कोईंच समक्ष केही सिकाउन र सिक्ने जोशमा जोडिएका हौं। कोईंच समुदायको आवाजलाई बुलन्द गर्न थोरै भएपनि हाम्सोले योगदान अवश्य पुऱ्याउने छ। हाम्रो यस प्रयासमा तपाईंहरू पनि जोडिनु आवश्यक छ।

अरूलें कसो गर्छन् भन्नेतिर हैन, हामीचाहिं कोईंचसाम् शब्द र अक्षरको प्रतिबद्धता लिएर आएका हौँ। यो मैदानमा आफैँले उठाएका प्रत्येक मुद्दा, विषय र त्यसका पुष्टिकरणमा केन्द्रित रहनेछौँ। यो आफैँसँगको निरन्तरको स्पर्धा हनेछ।

अवस्था र परिवेश जोखिमपूर्ण छ। यो जोखिमलाई नजरअन्दाज नगरी थोरै भए पिन जानकारी दिन सिकन्छ भन्ने धेयले नै हामी आएका हौँ। हामी हाम्सोमार्फत् कोइँचको संस्कार, संस्कृति र परम्परालाई जगेर्ना गर्ने उद्देश्यले मैदानमा औपचारिक रुपमा आएका छौँ। हामी कामका माध्यमले असली 'बधाई'को लोभमा छौँ, कोइँचभाषी पाठकको मायाका लागि 'लालची' छौँ।

In my

Koîts Script (कोइँच लिपीको वर्णमाला)

(ways of pronunciation with alphabetical order)

Alphabet	Name	pronouns	
A. Segmental Alphabet			
	a. Primary		
п	Dewi	/d/	
a	Tasla	/t/	
t	Eko	/e/	
+	Imar	/i/	
K	Reu	/r/	
2	Utthi	/u/	
	b. Secondary		
tt	Kiki	/k/	
π	Mama	/m/	
9	Appho	/a/	
P	Pipi	/p/	
y	Gil/Gas	/g/	
ħ	Hamso	/h/	
7	Charmi	/ʧ/	
ગ	Na	/n/	
t	Bur	/b/	
٧	Jurmi/juljal	/j/	
Ţ	Ioacha	/١/	
0	Otthi	/o/	
3	Secha/selel	/s/	
k	Warchi	/w/	
Ø	Yat	/y/	
Ą	Awa	/b/	
	c. Temshyo Apo	hi	
g	Aal	/a/	
5	Donga	/d/	

Alphabet	Name	pronouns
ъ	Thari	/tʰ/
α	Phar	/f/
3	Ngar	/ŋ/
П	Kha	/kʰ/
ľ	shyer	/ʃ/
ц	Chhelap	/c ^h /
Z	Tentu	/t/
Z	Thele	/tʰ/
b	Kloko	/2/
ш	Pwopwo	/þ/
B. No	n-Segmental A	lphabet
~	Nesante	nasal
•	Sotte?si	stress
•	Ta Renmaresi	high tone
•	Di Renmaresi	low tone
:	Laissi	length
	C. Digit	
0	Sum	/sum/
ı	Kaa	/ka/
*	Niashi	/ni?si/
*	San	/sã/
	Le	/le/
В	Nga	/ŋa/
Δ	Raku	/raku/
Ш	Chani	/ʧani/
Х	Sasi	/sasi/
h	Yan	/yaı̃/

T | 1117730

Discussion

What factors should be taken into consideration when evaluating proposals for encoding neographies?

Thank you

Email: pandey@umich.edu

Website: https://pandey.github.io/unicode/

Email: dwanders@berkeley.edu

Website: http://linguistics.berkeley.edu/sei

Support from NEH grant PR-268710-20 and donations

