August 23, 2023 1:00PM EDT

DEVELOPING ALA-LC ROMANIZATION TABLES ALONGSIDE NEW TECHNOLOGIES FOR IMPROVED DISCOVERY

Sponsored by:

ALA Core Committee on Cataloging: African and Asian Materials

&

ALA-LC Romanization Table Review Board

INTRODUCTION



Beacher Wiggins



Director of the Acquisitions and Bibliographic Access Directorate, Library of Congress ACQUISITIONS & BIBLIOGRAPHIC ACCESS

	С	ONTENT
JamraPatel	01	INTRODUCTION - BEACHER WIGGINS
	02	CREATING THE ADLaM ROMANIZATION TABLE - CHARLES RILEY
	03	REVIEW BOARD SUBCOMMITTEE: COMPOSITION AND WORK – ERIN FREAS-SMITH
	04	TECHNOLOGICAL TOOLS: DEVELOPMENT AND DEMONSTRATIONS- NEIL PATEL
	05	ROMANIZATION: NECESSITY AND OPPORTUNITIES FOR TECHNOLOGY- JESSALYN ZOOM
	06	Q&A – BOUTSABA JANETVILAY

CREATING THE ADLAM ROMANIZATION TABLE

Charles L. Riley Catalog Librarian for African Languages, YUL Technical Services

Yale University Library



New York City workshop on ADLaM script encoding; met Abdoulaye and Ibrahima Barry, inventors of the script. First ADLaM book gifted to Yale and cataloged using provisional romanization.

Books+ Search Results

MAY 2014

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Services -

Winden jangen e hāla Pular : deftere tāli e tindi Pular

Title	Winden jangen e håla Pular : deftere tåli e tindi Pular.
Publication	Place of publication not identified : publisher not identified, [2010?]
Physical	56 pages ; 21 cm
Description	
Notes	In Fula language, Adlam script.
Format	2 Books
Language	Fula
Added to Catalog	May 13, 2014
Subjects	Fula language > Texts.
Genre/Form	Tales, Fula - Guinea.
Bookmark As	https://search.library.yale.edu/catalog/11967118
Citation	Cite

Available from:

Library Shelving Facility (LSF) PL8184.W56 2010 Request for pickup → Request scan of article / chapter →

Send to home address ->

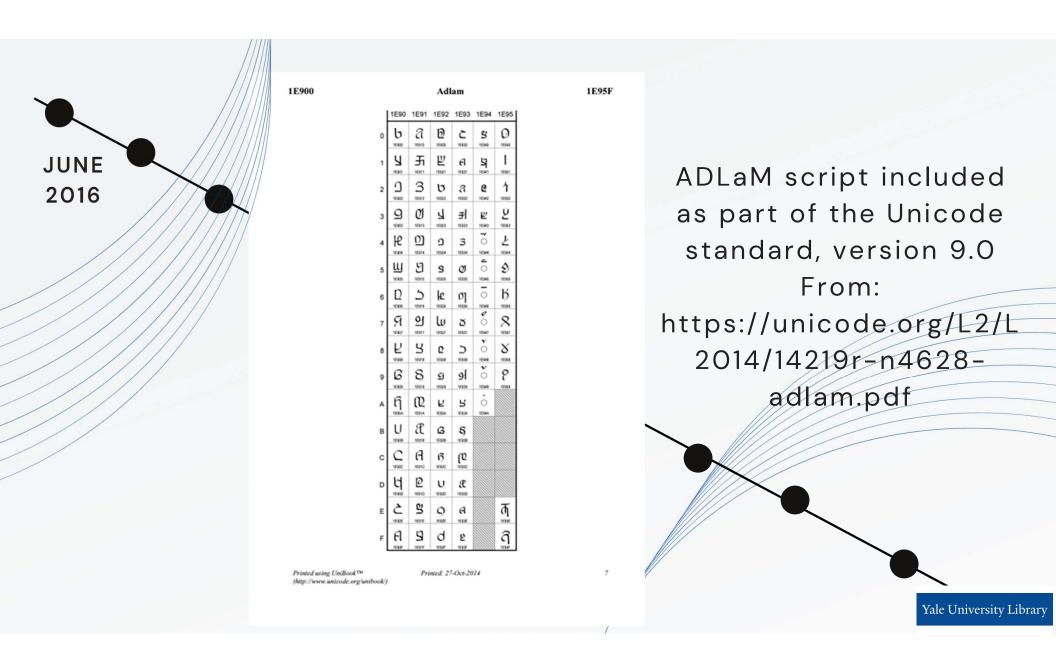
Notes: Gift of Ibrahima Barry

More info at Google books



Ibrahima Jogo Barry, co-inventor of the ADLaM script, and Riley, May 2014, New York City

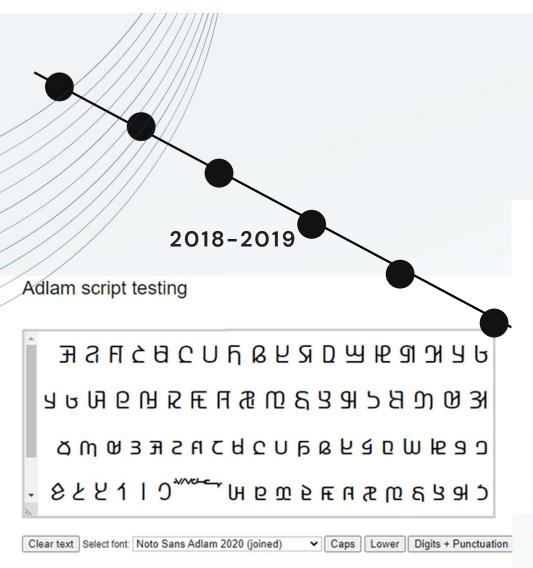




First work toward an ADLaM romanization table is started, with support of the Africana Librarians Council Cataloging Committee.

G A FI K Y D 3 Y O L U U 9 M D J K K K K M D J K K K Y K K Y K K Y K K M K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K K Y K K K K K K K K K K K K K K K K <			1.			Ful			m scri	pt)				4 9 9 4							
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2017



From: http://adlamtesting.appspot.com/

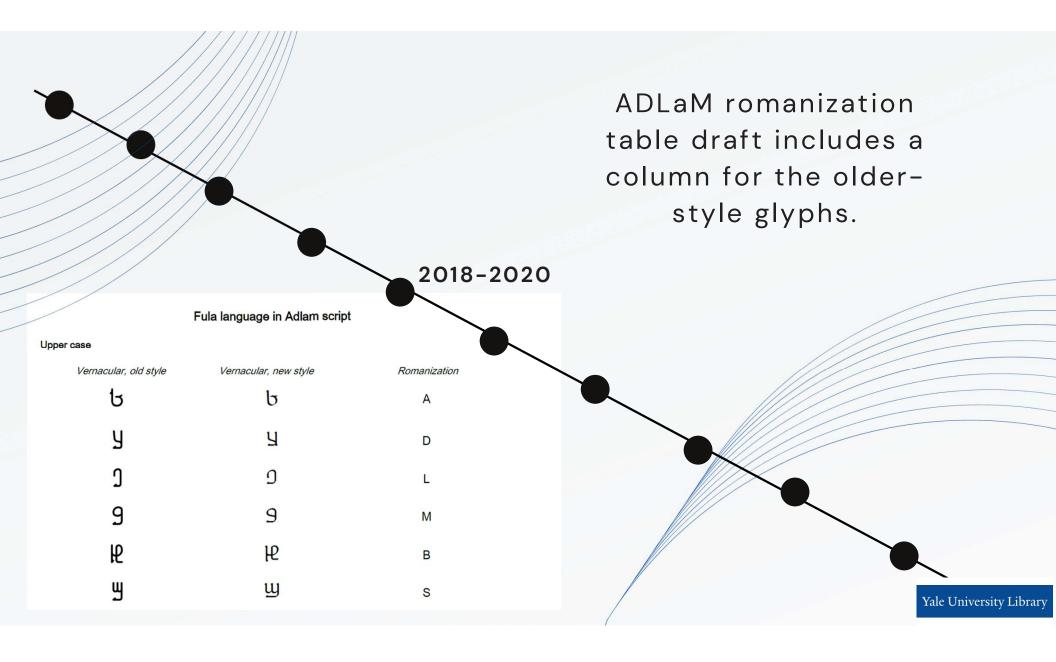
Fonts, keyboard implementations, and transliteration tools start to become available for ADLaM, easing production of further iterations of the table.

Kigelia Adlam

The Adlam alphabet was invented in Guinea in the 1980s by Abdoulaye Barry and Ibrahima Barry for the Pular (Fulfulde) language spoken by the Fulani people of West Africa. Adlam reads right-to-left and has upper- and lowercase letters in two variants: connected and unconnected. The designers received feedback from Abdoulaye and Ibrahima Barry throughout the design of this complement.

From: https://tearn.microsoft.com/en-us/typography/fontlist/kigelia

Yale University Library



L2/18-282R

Proposal to encode ADLAM NASALIZATION MARK for ADLaM script

Abdoulaye Barry, Ibrahima Barry, Peter Constable, Andrew Glass

September 17, 2018

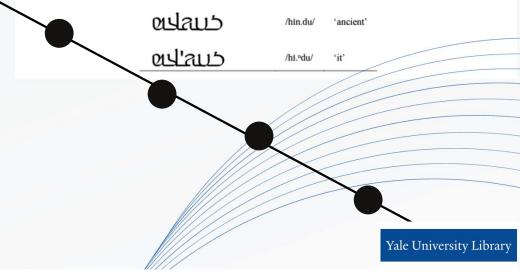
Summary

ADLaM script was added to Unicode in version 9.0 (2016) based on Michael Everson's proposal documents submitted in 2013 and 2014 (L2/13-191 & L2/14-219R). The present document addresses a gap in the ADLaM encoding by proposing a new mark character as an addition to the existing ADLaM block:

Glyph	Code	Character name
	1E94B	ADLAM NASALIZATION MARK

Usage requirements

ADLaM script uses an apostrophe-like sign called Nyondal to nasalize a succeeding consonant. For example:

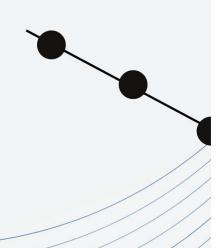


March 2019

ADLaM nasalization mark (U+1E94B) added in version 12 of the Unicode Standard.



///////

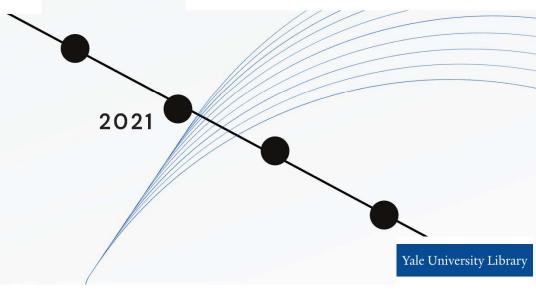


Nukta (placed above the character when there is no other diacritic above; as a *hoortobbere*, but below the character when a lengthener or gemination mark is above, as a *lestobbere*; examples with capital S, E, O, and J)

Additional consonants using the *nukta*

Nukta (placed above the character when there is no other diacritic above, but below the character when a lengthener or gemination mark is above; examples with capital 凹, ይ, C and ①)

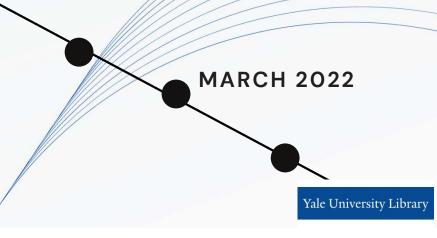
Received feedback from Artem Davydov, Maria Kosogorova, and Robert Rendall, mostly on diacritics and table structure, and Diacritics section modified, part 3

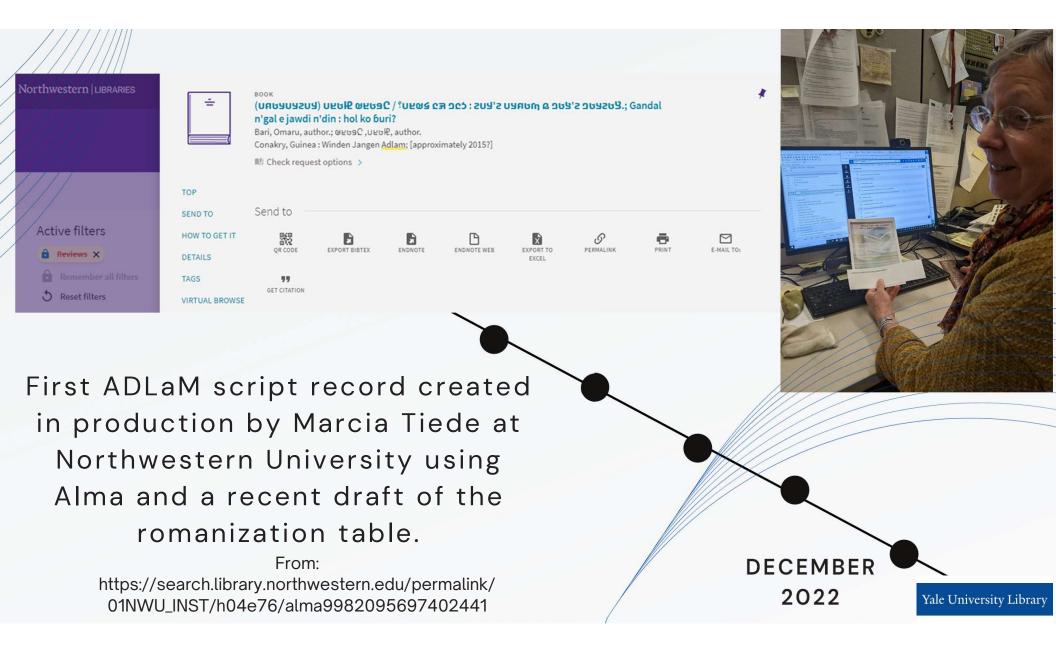


	Upper case letters ar, new style Romanization	Vernac	Lower case letters ular, new style Romanization
Ե	A	ច	а
Ч	D	Ч	d
Ы	L	C	1
ទា	Μ	9	m
Ю	В	ю	b
Щ	S	W	s
D	Р	D	р
Я	'B or BH	9	ɓ or bh

Fula language in Adlam script

Romanization Table Review Board accepted proposal for review of the table. A group formed and has been meeting ever since. Received feedback from Thierno Diallo, Aysha Sow, and Robert Rendall, largely on character values.





REVIEW BOARD SUBCOMMITTEE

charge and process

Erin Freas-Smith



1990

E AP Y B 3 3 H G

TAR ES 26 C U 15 aB2

SCRIPT CREATED

Developed over 6 months, the 2 brothers (aged 10 and 14) took turns drawing letters and assigning sounds.

CLASSES

B

1999

Breakthrough with a radio interview in Conakry, Guinea in 1993; knowledge and usage of ADLaM spreads; creation of student groups (Winden Jangen)

UNICODE

2014

Recognizing the need for technology, the brothers developed the first ADLaM keyboard and font (2008), culminating in Unicode 9.0 inclusion

ADOPTION

2019

Spreading through 10 countries in W. Africa; taught in educational courses; grammar book; Fulani dictionary; Independent apps for smartphones

TECHNOLOGY

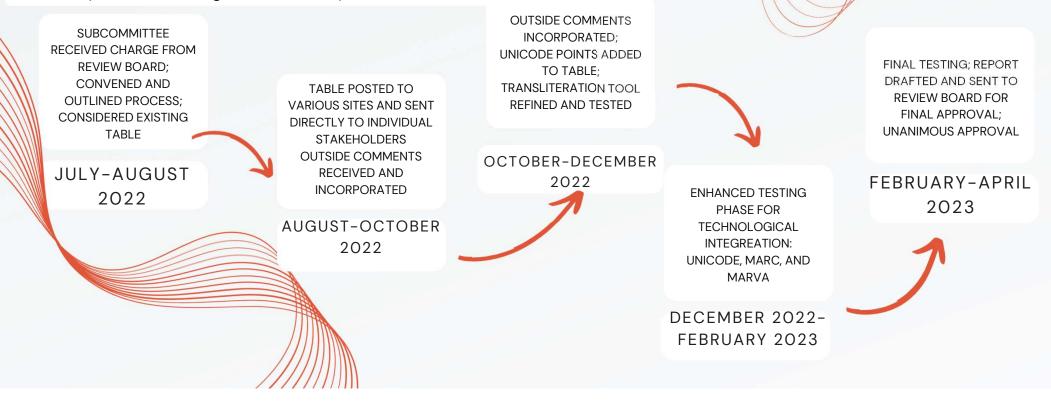
2023

Recognizing small adoption by Big Tech, independent tools, small publishing houses, and the approval of the Romanization Table ensure growth supported by a community of users



PROCESS

The charge of the subcommittee from the ALA-LC Romanization Table Review Board was in response to the creation of an ADLaM Romanization Table by Charles Riley, a senior cataloger of African languages and materials at Yale University, as well as an uptick in the volume of materials published utilizing the ADLaM script.



TECHNOLOGICAL TOOLS: DEVELOPMENT AND DEMONSTRATIONS

Neil Patel JP_{JamraPatel}

FULA LATIN ORTHOGRAPHIES

Known Latin orthographies for Fula vary and don't have a standard approach for transcribing loan words.

Senegal	а	b	6	С	d		e	f	g			h	i	j	k	l	m	mb		n	nd	nj		ŋ		ŋg	ñ	0	р	q	r	s	t	u	w	у	Ý	1
Guinea	а	b	6	с	d		е	f	g		g	h	i	j	k	l	m		nb	n	nd	nj		ŋ				0	р		r	s	t	u	w	у	Ý	1
Burkina Faso	а	b	6	с	d	ɗ	e	f	g	ng		h	i	j	k	l	m			n	nd		ny	ŋ				0	р		r	s	t	u	w	У	Ý	1
Cameroon	а	b	6	с	d	ɗ	е	f	g			h	i	j	k	l	m			n			ny	ŋ				0	р		r	s	t	u	w	У	Ý	1
Niger	а	b	6	с	d	ɗ	e	f	g			h	i	j	k	l	m	mb		n	nd	nj	ny	ŋ	ng			0	р		r	s	t	u	w	у	Ý	1

Historical Guinean Ortho: bh = b nh = ndh = d yh = yq = g ty = cny = n/gn dy = j

JamraPatel

ADLAM ROMANIZATION

- The Romanization table is agnostic to region and dialect.
- Digraph usage is limited to loan sounds and pre-nasalization.

Romanization d ñ а V b 6 k t s u h m D 0 d w ٧ C a

Я	V	Ą	v	Adlam, new style	Romanization	Adlam, new style	Romanization
U+1E91C		U+1E93E		B'A	ND	SF	nnd
				U+1E910, U+1E94B, U+1	E901	U+1E932, U+1E	923
Æ	KH	Æ	kh	s'e	nd	20	mmb
U+1E91D		U+1E93F		U+1E932, U+1E94B, U+1	E923	U+1E932, U+1E	926
				Ю'Я	MB	MZ	nnj
R	GB	Б	gb	U+1E910, U+1E94B, U+1	E904	U+1E932, U+1E	936
U+1E91E		U+1E940		ନ'S	mb	<u></u> <u></u>	nng
				U+1E932, U+1E94B, U+1	E926	U+1E932, U+1E	93A
Я	Z	ወ	Z	ה'ם	NJ		
U+1E91F		U+1E941		U+1E910, U+1E94B, U+1	E914		
				n'z	nj		
Ð	KP	6	kp	U+1E932, U+1E94B, U+1	E936		
11-15000		11/27042		5'2	NG		
U+1E920		U+1E942		U+1E910, U+1E94B, U+1	E918		
FU	SH	មា	sh	צ'צ	ng		
				U+1E932, U+1E94B, U+1			
U+1E921		U+1E943					

BIBFRAME TESTING

Validate that BIBFRAME can handle Adlam text

Ì grave accent i Ò grave accent o Ù grave accent o Ù grave accent u Romanization / Non-LC/ALA compliant Manual language settings here Toolbox • No auto-suggest, use manual What are common text editing Capcol				 circumflex a circumflex e circumflex i circumflex o circumflex u 	
Manual Select	compliant ▹ No auto-suggest, use manual below	Manual language settings here	What are common text editing actions that could go here? Add	grave accent i grave accent o	

BIBFRAME TESTING

Validate that BIBFRAME can handle Adlam text

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Parallel Title	Person	(4b)	Admin Metadata Neil S Patel
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Classification numbers			Neil S Patel DLC
Library of Congress Classification			pcc
Dewey Decimal Classification	Form/Genre		rda
National Library of Medicine Classification	Search LCGFT		English Ic:RT:bf2:MonographNR:Instance
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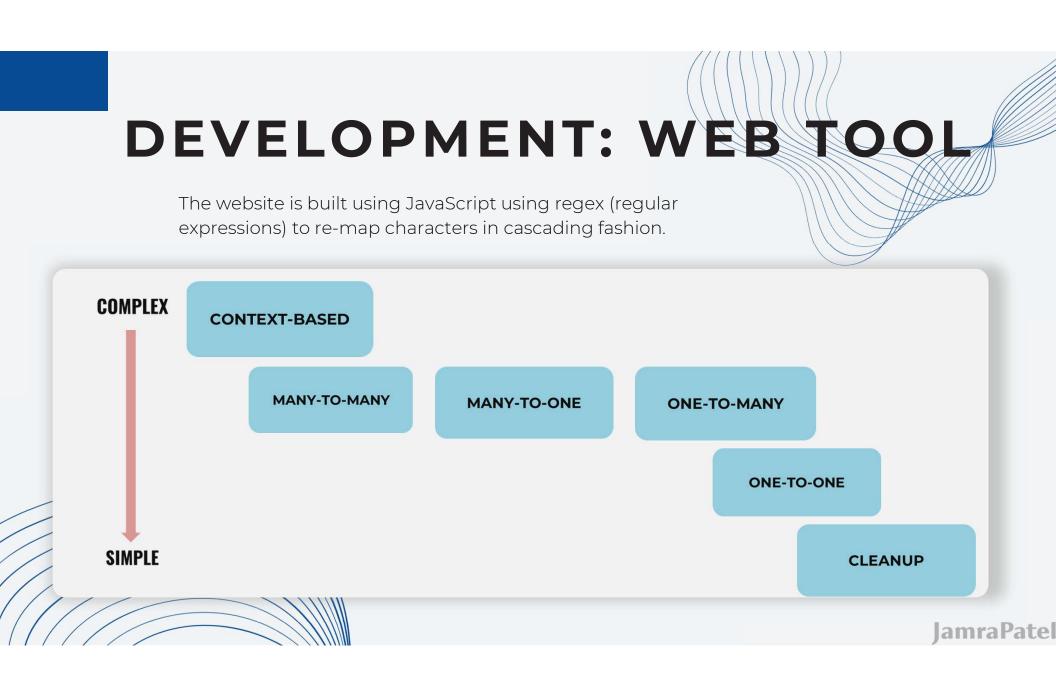
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TRANSLITERATION TOOLS

Standalone web-based tool

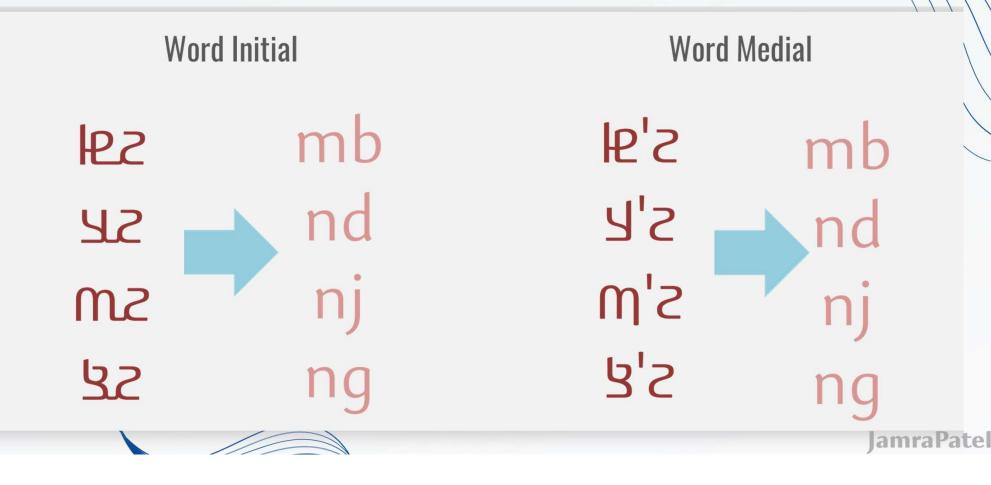
Scriptshifter

Patel LOC Text Conversion Uti	Home Adlam Transliteration	Input text	
Adlam Translite	ration		
onversion utility is intended for library cataloging purposes. Transliteration is based on the standa of generate text using standard Fulah orthographies in Latin.	d developed by the Library of Congress and as a result this conversion	Language [Pulaar (Adiam) Roman to Script 🔯	
tin to Adlam O Adlam to Latin r text to be converted		Capitalize No change ® First word O All words O	
		Transliteratel	
		Results will appear here.	
erted text	O Convert		
	Сору		



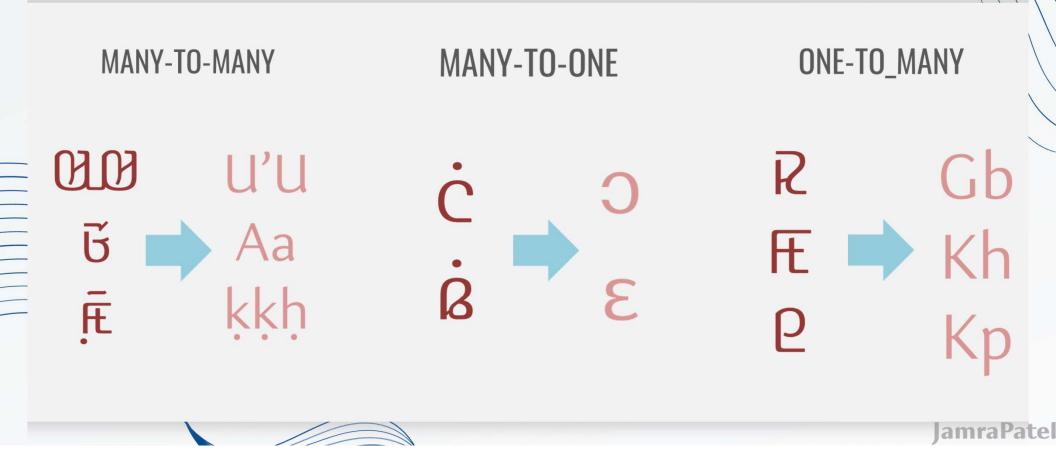
CONTEXT-BASED

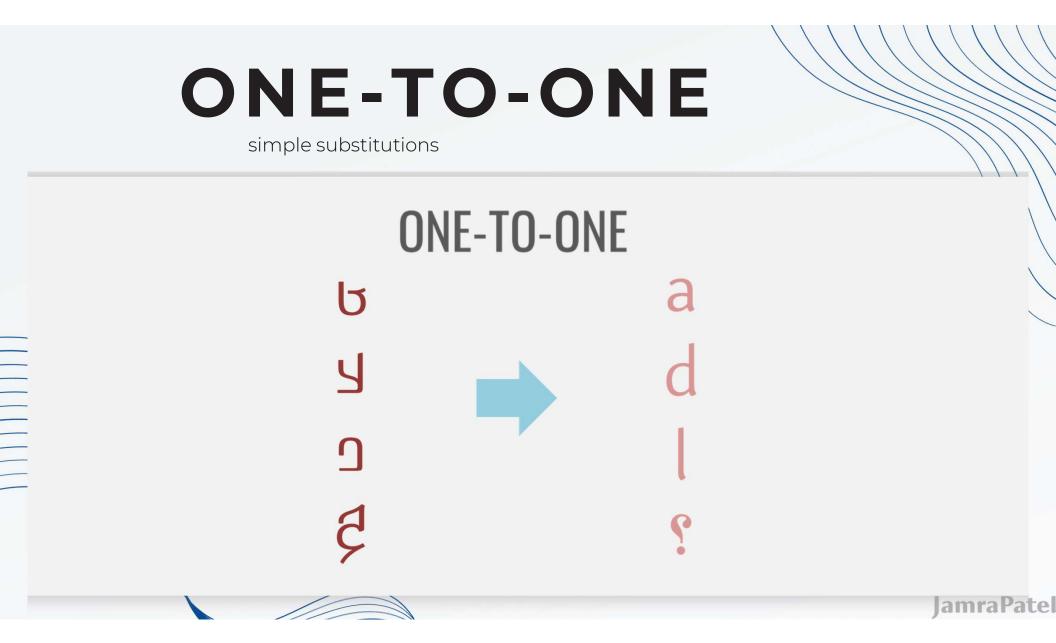
word initial vs word medial pre-nasalization

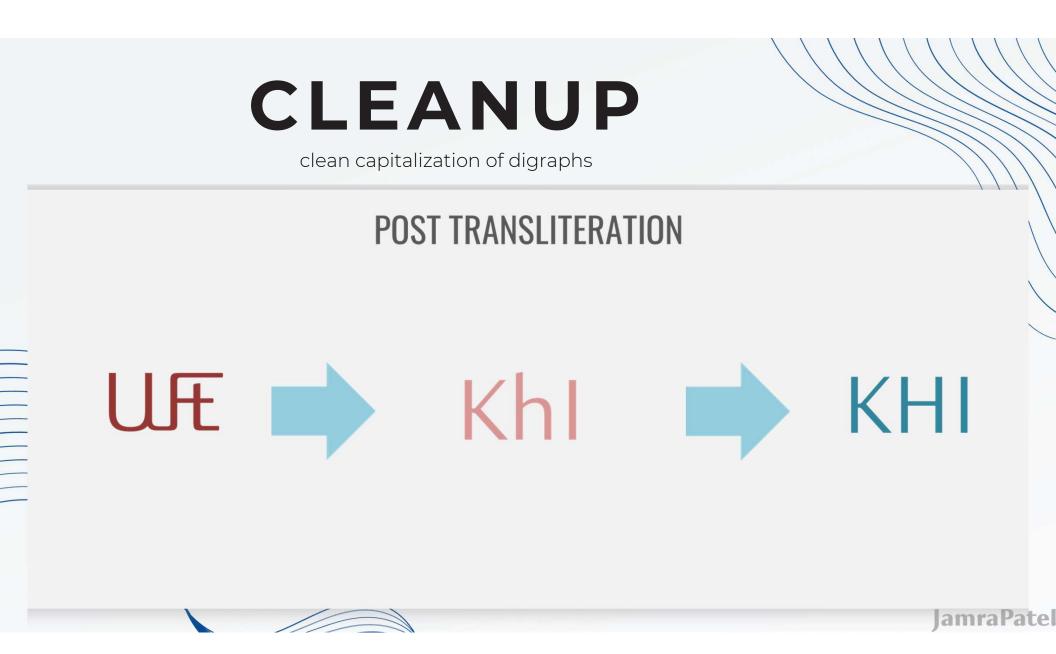


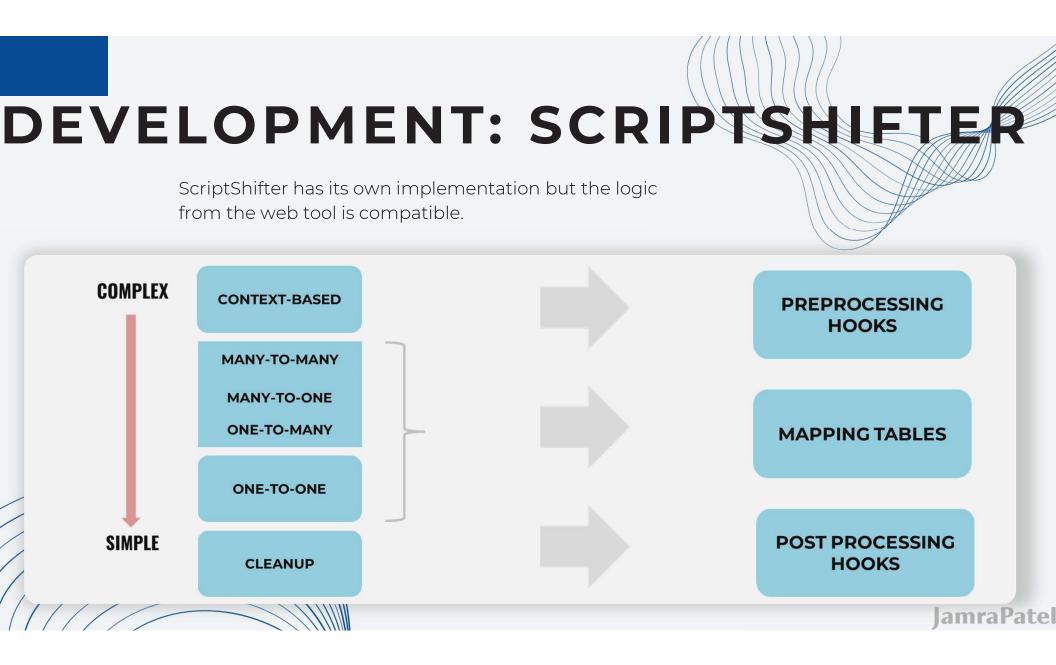
MANY COMBINATIONS

non-geminated vowels, diacritic combinations, digraphs







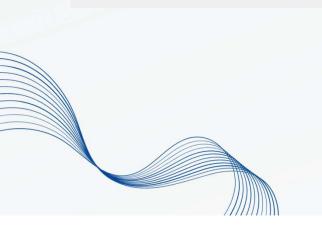


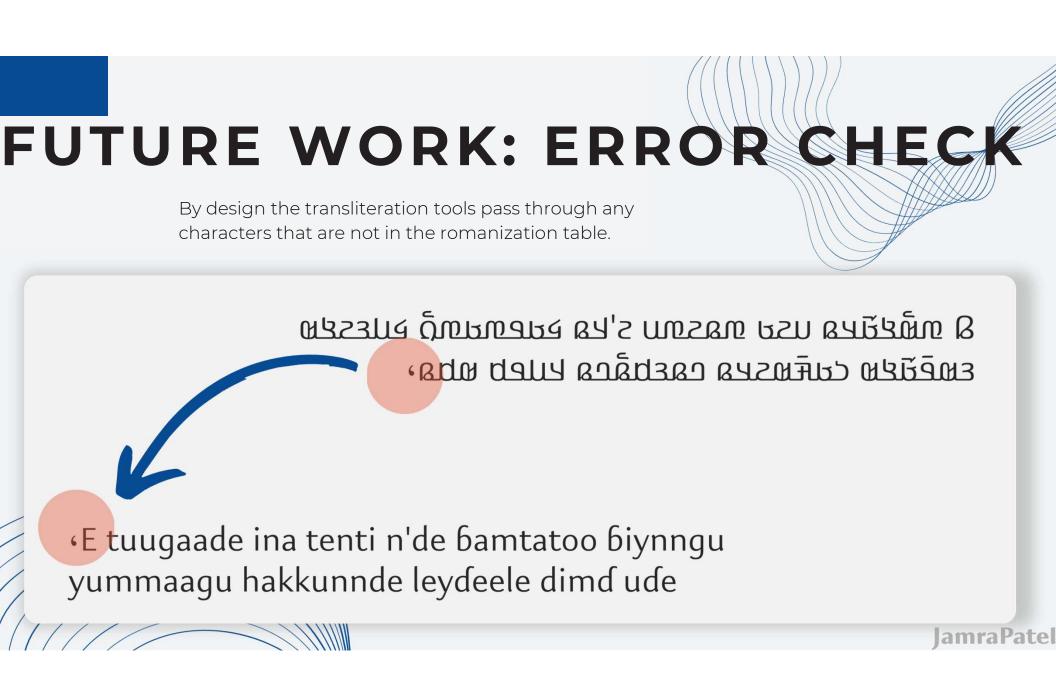
DEMO

https://sites.google.com/jamra-patel.com/loc-textconversion-utilities/adlam-transliteration

<u>Transliterate string – LoC Transliterator (bibframe.org)</u>

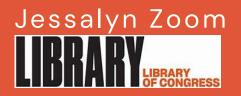
amraPatel





ROMANIZATION:

NECESSITY AND OPPORTUNITIES FOR TECHNOLOGY





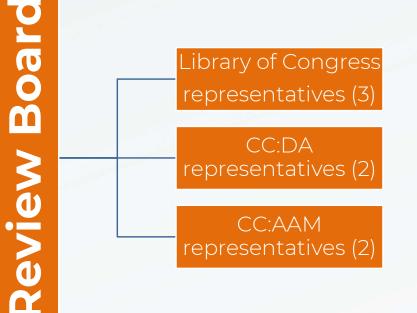
NEED FOR ROMANIZATION



REVISED PROCEDURAL GUIDELINES FOR PROPOSED NEW OR REVISED ROMANIZATION GUIDELINES

https://www.loc.gov/catdir/cpso/romguid_2010.html

ALA-LC ROMANIZATION REVIEW BOARD

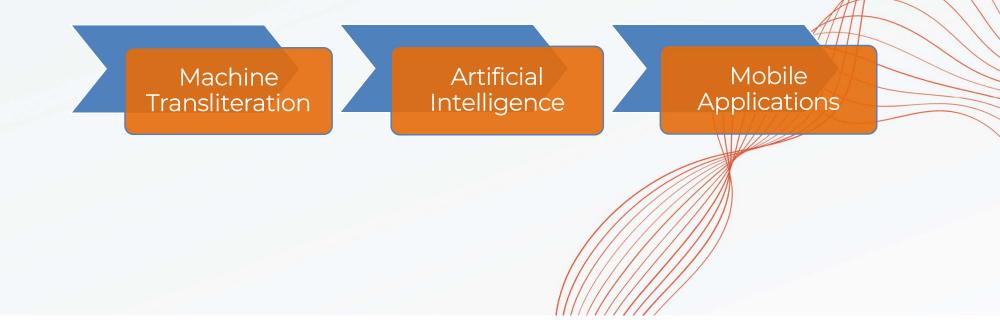


- Oversees the review and approves or disapproves proposals
- Responsible for appointing the Review Subcommittee to conduct the review of the proposal

WORK ACCOMPLISHED



OPPORTUNITIES OF TECHNOLOGY



THANK YOU!

Jessalyn Zoom: jiwu@loc.gov Erin Freas-Smith: efre@loc.gov Charles Riley: charles.riley@yale.edu Neil Patel: neil@jamra-patel.com