Tifinagh and consonantal writing systems

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Linguistic setting



Afro-Asiatic

- · A large family of languages across
- North Africa and the Middle East.
- · Consonantal-root morphology. famous especially from Semitic.

Berber

- · One branch of Afro-Asiatic.
- · Multiple languages across the Maghreb (western North Africa).
- . Tuareg in a large region of the Sahara and Sahel
- Tamazinht Tashelhiyt Tamashen Chenous Kabyle Chaouia Saharan Berber

Tarifit

Tuarea

- · A semi-nomadic people of the western Sahara and neighboring Sahel.
- · Local names reflect historical sound changes.
 - · Tamahaq, Tahaggart Algeria, Libya, Niger — 62,000 speakers
 - Tamaiag, Tawallammat
 - Niger, Mali 640,000 speakers · Tamajeq, Tayart
 - Niger 250,000 speakers Tamashen
 - Mali. Burkina Faso 281,200 speakers
- · The language is sometimes collectively called Tamashek / Tamasheq.
- · The point of interest here is the use of the traditional Tifinagh script by the Tuareg to write their language.

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Scripts

Libvco-Berber (Numidian)

- · An ancient script of disputed origin.
- Most likely from Phoenician, perhaps via Iberia.
- · Mainly attested in Algeria and Tunisia.
- · Rock inscriptions often difficult to date.
- May have originated by the 6th century BCE, or even earlier.
- · Only consonants are represented, to the extent the texts are understood.
 - E.g., Punic names ?nkn, ?švn, ?rš = V-initial Libyco-Berber nkn, švn, rš.



awytt · mdn · bwm?mt · z · vm hyhz2rt·z2bmn

(written from the bottom un)

Oukaïmeden, Morocco <lbi-project.org>

Traditional Tifinagh

- Descended from Libyco-Berber, through long period of minimal attestation. · Some letters differ graphically or in their phonetic value.
- In Niger, also called Shifinagh. · Used today by the Tuaregs mainly for
- symbolic or playful purposes.
- · Only consonants are written, except for many word-final vowels.

In this photo, the city name Kidal (in Mali) is written kdl from left to right.



Neo-Tifinagh

- · A recently proposed, standardized version of the script with vowel letters. . Structurally a simple alphabet, not an abiad.
- · Limited use in Morocco and Algeria for Northern Berber.

At right, Tifinay written in this alphabet. with vowel letters i and a.



Typology

The Semitic abjad

- · An abjad is a writing system that represents just (or mainly) consonants.
- . The West Semitic script family, ultimately inspired by Egyptian. . Phoenician is a pure form, representing only consonants.
- katti "I was" written + X = kt.
- . Hebrew, like most abiads, writes some vowels.
 - . The otherwise consonantal letters y w h as matres lectionis.
 - Iūhōt "tablets" historically חום לוחת ושאו לוחות ושאנ לוחות ושאנ לוחות ושאנ לוחות ושאנ לוחות ושאנ לוחות ושאנ

A syllabary?

- Gelb (1963): writing systems evolve unidirectionally over time.
 - · Logographic > syllabic > alphabetic.
 - · Cannot skip a step, or go in reverse.
- West Semitic is derived from Egyptian consonantal signs.
- Egyptian phonograms < logograms, therefore must be syllabic.
- · Semitic yielded the Greek alphabet (syllabic > alphabetic).
- · Under this view, the West Semitic script is a syllabary.
- CV signs in which the vowel is indeterminate, and can be zero. Hebrew שלש = šālōš "three"
 - · As a consonantal alphabet (abjad): šIš
- As a syllabary with unmarked vowels: š×Iך× (→ š×Iošø)
- · Matres have to be treated as phonetic complement to syllabic sign.

Syllable structure

- · Partly this works because (ancient) Semitic syllables all begin with C.
- · Every syllable therefore has at least one consonant, and letter.
- · Many have rejected the syllabic analysis (Daniels 2000).
 - · Complications such as this needed to resolve contradictions.
- But a compromise position (Swiggers 1984):
- . The letter DENOTES a consonant, but STANDS FOR a syllable. . True even in borrowings of a script to languages with V-initial syllables.
 - · Adaptations of Arabic: initial alif occurs in vowel-initial words.
 - Persian ædæb "custom" written ادب = ?db.
 - Malay əmas "gold" written مسر = ?ms.
 - · A letter therefore still STANDS FOR that syllable.
- · But in Tifinagh no such marker exists.
 - · An important proof of the abjad as a true segmental system.

Tifinagh writing

: I: TAA: +I+ w nk fddw tnt

awa nək fədudu tənnat this (is) me Fedudu saving

hlyn šf swy hd lyšba



Lareet,there the,chief send,me here the,clothing

- · Initial, internal, and some final vowels are omitted.
 - · This results in unrepresented initial syllables: note w for awa "this".
 - · Same is true in Lybico-Berber.
 - · In more limited way, also found in Orkhon (Old Turkish) runes,
- · Many final vowels are written by special a sign, or v w for i u.
 - . Notably, these do not function to represent a syllable, just the V of CV.

Complex linquistic structure

- . Tifinagh mainly represents consonants, but also some vowels word-finally. · Already the constituents C. V. and Word are implicated.
- · Syllables are not directly represented. More examples of unwritten initial V:
 - Singular ehakit "tent" as ⊕+ hkt : plural ihaktan as ⊕+1 hktn
 - . Infinitive əsəl "to hear" as ⊙ | sl; impf. hab. salləy "I hear" as ⊙ | sly
- · But syllabification does matter in whether a segment is C or V.
 - Vowel in inya "he killed" is not written: | nya (Hanoteau 1896)
- Glide in aləs wa vnya "the man he killed" is: IO : ΣI:. Is w vnya
- · Word-internal vowels are not directly written, but they play another role.
 - · Ligatures are used for certain adjacent consonants. (Priest, et al. 2008)
 - inbal "he buried" as ⊕ || nbl ; tastəq "song" as +⊕:: tstq · Loanword fanta "Fanta" as II. frita (Aghali-Zakara 1994)
 - · Unwritten V prevents the use of a ligature in CVC.
 - anabal "burial" as |⊕|| nbl ; tasetəq "infection" as +⊕+:: tstq
 - · Loanword limonat "lemonade" as ||□|+ Imnt
 - Some writers may not strictly observe this practice. (Prasse 1972)
- · The rich constituent structure of spoken language provides many categories that can play a role in writing systems.
 - · The syllable is decidedly less important in Tifinagh.
 - Swiggers' compromise reflects a fact of Semitic syllables.
 - · Not an inherent property of an abjad.

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