

Towards an electronic dictionary of Tamajaq language in Niger

School editorial dictionary:

Dictionnaire Tamajaq-français destiné à l'enseignement du cycle de base 1

5,390 entries:
- 3,648 nouns
- 1,450 verbs
- 137 complex nouns
- others

ăbada *sn. flanc* Tasăga meŷ daw ădăg ăyyăn. Imewwewza eklăn dăy ăbada n ekařwar. **Anammelu.:** azador. **təmust.:** yy. **Esəfses.:** ă. **Iget:** ibadan.

ayru *nml. lire étudiant* Exerdi n ăkatab. Ÿusman yenn-as muře-net ayru telemet-năk kellu. **Anammelu.:** xardăt.

Awey-əhuđ *snzwn. cerf-volant* Addăl yegăn dăy alkađ tегgez tenalle medăy azərki imi-net yebet-tu ađu. Imăyran eřsănăn ekenni n away-əhuđ. **təmust.:** yy. **Esəfses.:** a **Iget:** imawayăn-n-əhuđ.

Tamajaq linguistic terminology

anamal (nml.): verb
anammelu: synonym
awdekki (wdk): singular
esəfses (sfss): annexation state
iget (gt.): plural
isən (sn.): noun
isən izzewen (snzwn.): complex noun
təmust:gender
yey (yy): masculin

Verbs

Classification according to the number of consonants of the lexical root and in different types.

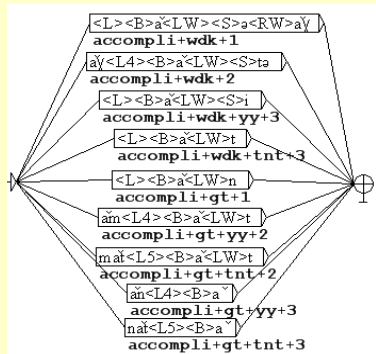
Three moods:

- imperative;
- simple injunctive;
- intense injunctive.

Three aspects:

- accomplished: intense or negative;
- non accomplished: simple, intense or negative;
- aorist future: simple or negative.

əktəb (to write): trilateral verb, type 1
əməl (to say): biliteral verb, type 1
akər (to steal): biliteral verb, type 2
away (to carry): biliteral verb, type 3
ăru (to love): monoliteral verb, type 2
ăru (to open): monoliteral verb, type 3



Nouns

Irregular plural forms

telmust (secret marriage) → telmusen [rule 7]
ađađ (finger) → iđeđwan [rule 13]
alămăyya (intestine) → ilămăyyan [rule 14]
teŷăre (phone call) → tiŷerra [rule 89]

126 flexional rules calculate the plural forms of 2932 nouns

[rule 7]	en/Iget
[rule 14]	an<LW><S>i/Iget
[rule 13]	wan<L4>ə<LW><S>i/Iget
[rule 89]	a<L><D><L2>ə<L2>i/Iget

Annexation state is determined by the modification of the first vowel

ajaŷalŷol (lamb) → ăjaŷalŷol [rule A1ă]
təməjirt (cicatrix) → təməjirt [rule 13]

13 flexional rules are enough for all the 987 nouns with an annexation state

[rule A1ă]	<LW><S>ă/sfss
[rule A2ə]	<LW><R><S>ə/sfss

Complex nouns

Several lexical units (nouns, determiners, prepositions, verbs) connected together by hyphens.

Results

6,378 entries in the Nooj dictionary
11,223 entries in the inflected dictionary

Nooj Software

Linguistic development environment: tools to create and maintain large-coverage lexical resources, morphological and syntactic grammars, fully compatible with Unicode.

Future work

Conversion into XML format
Automatic search of flectional rules
Completion, enrichment and correction of the lexical resource

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