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# The locus of gender in Tashlhiyt Berber nouns

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## 1. Introduction

- Gender is a robust category in Afroasiatic languages; there is a binary distinction (masculine vs. feminine).
- Masculine generally has no overt marking, as opposed to feminine.
- Unlike in Semitic, where feminine gender is marked at the right edge of the noun (e.g. Arabic *tʕifl* ‘kid.MS’ / *tʕifl-a* ‘kid.FM’), Berber has this peculiar property of using what seems to be a “circumfix” (e.g. *afrux* ‘boy’ / *t-afrux-t* ‘girl’).
- Among feminine nouns, either part of this affix may not appear in certain nouns, giving rise to forms like:
  - *t-izi* ‘time’, *t-awda* ‘fear’, and *t-argʷa* ‘stream, brook’
  - *l-bhim-t* ‘animal’, *l-ħrf-t* ‘profession’, and *l-musʕib-t* ‘catastrophe’.
- The latter are borrowed nouns, mainly adapted from Arabic with their prefix /l-/ which does not denote definiteness.
- Interestingly, these loans may also exhibit a final vowel (usually [-a], feminine marker in Arabic) instead of suffix [-t] (e.g. *l-ħrf-a*, *l-musʕib-a*).
- The existence of feminine nouns with only prefixed [t-] may lead to the conclusion that the canonical locus of gender is at the left edge of the noun.
- However, a key fact: feminine nouns of this type all end with a vowel.
- More generally, feminine nouns systematically end either with a vowel or with [t].
- No feminine noun ends with a consonant other than [t] (as opposed to masculine nouns which may end with any type of consonant).
- Based on evidence from native and loanwords morphology, we will propose that:
  - The canonical locus of gender is suffixal.
  - Its alleged circumfixal nature results from a copy of a [+gen] feature to an obligatory affixal position to the left of the nominal stem.
  - That is, a prefixal [t-] appears whenever the noun is feminine and the prefixal position is available.
- The proposal also explains several otherwise unmotivated facts in the nominal morphology:
  - The lack of feminine nouns ending in a consonant other than [t].
  - The complementary distribution, *among feminine nouns*, of final [t] and a stem final vowel (in triconsonantal stems).
  - The ubiquity of the prefix [l] in borrowed nouns.

## 2. Setting the problem: Gender inflection at both edges

### 2.1. Gender and other markers at the left edge

- Almost all studies of Berber morphology focus on the inflectional position at the left edge of the noun, in which not only gender, but also state/case and number can be marked (see Guerssel 1992, Ouhalla 1996, Annaji 2001, Bendjaballah 2011, Bendjaballah & Haiden 2008, Lahrouchi 2011, 2013, Shlonsky 2014, Ben Si Said 2020, among others).

#### (1) Gender, number and state alternations at the left edge

	SG				PL			
	FS		CS		FS		CS	
	MS	FM	MS	FM	MS	FM	MS	FM
'boy/girl'	a-frux	ta-frux-t	u-frux	t-frux-t	i-frx-an	ti-frx-in	i-frx-an	t-frx-in
'ox/cow'	a-funas	ta-funas-t	u-funas	t-funas-t	i-funas-n	ti-funas-in	i-funas-n	t-funas-in
'mouse'	a-ɣrda	ta-ɣrda-t	u-ɣrda	t-ɣrda-t	i-ɣrda-jn	ti-ɣrda-tin	i-ɣrda-jn	t-ɣrda-tin
'pigeon'	a-tbir	ta-tbir-t	u-tbir	t-tbir-t	i-tbir-n	ti-tbir-in	i-tbir-n	t-tbir-in

- The initial (thematic) vowel [a-] in the SG alternates with [i-] in the PL (coupled with -n suffixation).
- In the FM.PL, only initial [t-] appears (suffix [-t] is replaced by a vowel -i-).
- FS [a-] alternates with CS [u-] in the M.SG forms, while the corresponding PL forms display an invariable vowel [i-].
- In the FM.SG, CS forms display only gender [t-] (without [u-]), similarly the corresponding PL forms lack the vowel [i-] in the CS.
- Table (2) summarizes the distribution of prefixes.

#### (2) The distribution of nominal prefixes

	SG		PL	
	MS	FM	MS	FM
FS	a-	ta-	i-	ti-
CS	u-	t-	i-	t-

- Some nouns show a stable initial vowel (3b), which remains unchanged in SG and PL, FS and CS: we shall refer to it as the “non-thematic” vowel.

(3) Thematic vs. non-thematic vowel (see Dell & Jebbour 1991)

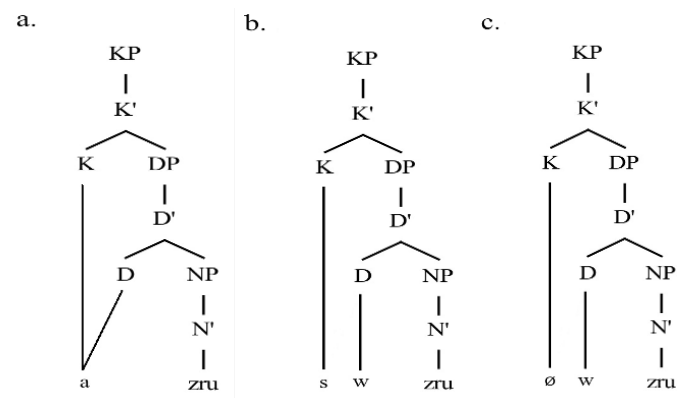
		SG	PL
a. ‘mountain’	FS	a-drar	i-drar-n
	CS	u-drar	i-drar-n
b. ‘widower’	FS	adgal	adgal-n
	CS	w-adgal	w-adgal-n

## 2.2. Previous analyses

### Guerssel (1992)

- In the FS, initial [a] is analyzed as a kind of "portmanteau" morpheme which realizes two functional heads D and K.
- In the CS, initial [w] stands for D.

(4) [azru] 'rock-FS', [s wzru] 'with the rock', [wzru] 'rock-CS'



- According to Guerssel, the initial site is complex: it realizes two distinct syntactic heads.
- This point of view is further developed in Bendjaballah & Haiden (2008): each head corresponds to a CV unit.

## Bendjaballah & Haiden (2008): Kabyle nouns

- In the FS, both CVs of the prefixal site (in bold) are filled (5a), in the CS only the inner CV is (5b).
- Following Lowenstamm (1991), peripheral vowels are analyzed as being underlyingly long.

### (5) M.SG

a. FS: [axxam] 'house'

b. CS: [wəxxam]

**CV** **CV** CV CV CV CV

**CV** **CV** CV CV CV CV

\ / \ / | |

| \ / \ / |

a x a m

w x a m

### (6) F.SG

a. FS: [θaxxamθ] 'room'

b. CS: [θəxxamθ]

**CV** **CV** CV CV CV CV CV

**CV** **CV** CV CV CV CV CV

| \ / \ / \ / | |

| \ / \ / | |

θ a x a m θ

θ x a m θ

- FM marker [θ-] is associated to the outer CV in the FS form (6a), but to the inner CV in the CS (6b).
- [w-] and [θ-] compete for the same position (inner CV) in the CS.



Summary From all of the above, it emerges that:

- Space in the initial site is limited: markers compete for realization in this site.
- Gender marking may be absent from the left edge (when there is an [l-])
- Gender marking is regular; it is always [t-].

- Not so at the right edge of the noun:

## 2.4 Gender at the right edge

- Less attention has been devoted in published work to gender inflection at the *right* edge of the noun (but see Idrissi 2000: 109).

(10) Gender marking at the right edge: C-final stems => form feminine with [-t]

M.SG		FM.SG	
afruχ	‘boy’	t-afruχ-t	‘girl’
afunas	‘ox’	t-afunas-t	‘cow’
azalim	‘onion (coll.)	t-azalim-t	‘onion (sing)’
agljaj	‘testicle’	t-agljaj-t	‘egg’
aʁalim	‘reed’	t-aʁalim-t	‘fishing rod’
iskr	‘fingernail’	t-iskr-t	‘garlic’

(11) Gender marking at the right edge, V-final stems: masculine+[-t] => feminine

M.SG		FM.SG	
isli	‘groom’	t-isli-t	‘bride’
aʃzri	‘teenager’	t-aʃzri-t	‘teenager’
ifili	‘string’	t-ifili-t	‘necklace’
azuknni	‘oregano’	t-azuknni-t	‘thyme’

FSG	t-urfa	‘alley’
	t-aguni	‘sleep’
	t-awda	‘fear’
	t-azzla	‘running’
	t-igmmi	‘house’

Summary:

	Stem C-final	Stem V-final
Masculine N	√	√
Feminine N	√ -t	√ <b>no -t</b>

- We will now show that the tools presented above predict the variability of gender marking at the right edge.

### 3.1. Basic cases

$$\begin{array}{ccccccc}
 \text{t} & & \text{a} & & \text{ʃ} & & \text{z} & & \text{r} & & \text{i} & & \text{t} \\
 | & & / \quad \backslash & & | & & | & & | & & / \quad \backslash & & | \\
 \text{C} & \text{V} & \text{C} & \text{V} & - & \text{C} & \text{V} & \text{C} & \text{V} & \text{C} & \text{V} & \text{C} & \text{V} & - & \text{C} & \text{V}
 \end{array}$$

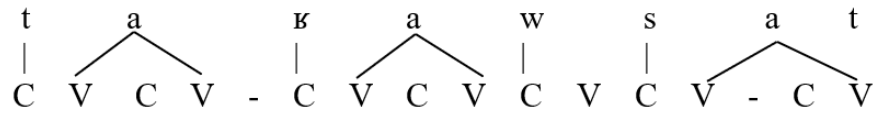
		SG	PL
a. 'mountain'	FS	a-drar	i-drar-n
	CS	u-drar	i-drar-n
b. 'widower'	FS	adgal	adgal-n
	CS	w-adgal	w-adgal-n

$$\begin{array}{cccccccccccccccc}
 & & & & & & a & & d & & g & & a & & l \\
 & & & & & & / & \backslash & | & & | & & / & \backslash & | \\
 C & V & C & V & - & C & V & C & V & C & V & C & V & C & V & C & V
 \end{array}$$



- Prediction: at the right edge, too, a final vowel can spread to occupy the final site, thereby blocking gender inflection [-t].

(16) Non-thematic vowel invading final site, blocking [-t]



- This derives vowel-final feminine nouns.

=> A feminine noun can be either vowel-final or [t]-final.

### 3.2. Support form loans

- The obligatoriness of gender marking at the right edge is also true of loanwords, where - as will be recalled - [l] blocks all inflection at the *left* edge.

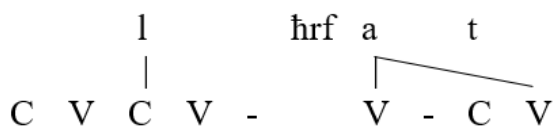
- Again, one finds either a final vowel *or* a final [t], and *sometimes variation* between the two.

(17) V-final feminine loanwords

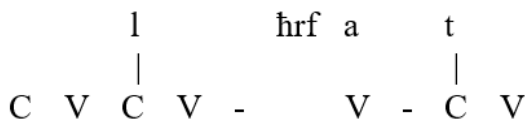
lkuzina	‘kitchen’ (Sp. [kosina])
lmus <sup>s</sup> ibt~lmus <sup>s</sup> iba	‘catastrophe’ (Ar. [mus <sup>s</sup> iba])
lhrft~lhrfa	‘profession’ (Ar. [hrfa])
lbakit <sub>F</sub>	‘package’ (Fr. [pake] <sub>M</sub> )
loqt <sub>F</sub>	‘time’ (Ar. [wəqt] <sub>M</sub> )
lʿanba	‘lamp’ (Sp. [lampa])

- Sometimes, loans with original masculine gender become feminine because they are vowel final: [lɔpɑ̃]F ‘apartment’ [lmaɡaza]F ‘store’(both M in French).

(18) Vowel-final feminine loan



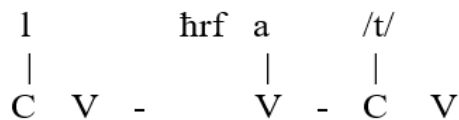
(19) Same noun, [t]-final: /a/ cannot associate, only one position



▪ We do not know *why* [t-] is blocked from the *left* edge in these cases, only that [l] blocks it as it does all other inflection.

▪ Possibly, since loans are not inflected for state, they simply lack the first of the two prefixal CVs:

(20) No place for gender-marking prefix [t-] in loans



To summarize, loans show that

- Final vowels and [t] alternate in gender marking.

- Assuming [l] occupies the only initial CV, [t-] is blocked from appearing at the left edge.

=> appears only in its canonical position, at the right edge.

#### 4. Thematization

▪ loans carrying [l-] *can* undergo a process of thematization in evaluative morphology; and the blocking of regular inflection by [l] is undone:

(21) Thematized loans

<i>Loan</i>	<i>Augmentative</i>	<i>Diminutive</i>	
l-muss	a-l-muss	t-a-l-muss-t	‘knife’
l-kamjun	a-l-kamjun	t-a-l-kamjun-t	‘truck’
l-gar <sup>ʕ</sup> aʒ <sup>ʕ</sup>	a-l-gar <sup>ʕ</sup> aʒ <sup>ʕ</sup>	t-a-l-gar <sup>ʕ</sup> aʒ <sup>ʕ</sup> -t	‘garage’
l-brmil	a-l-brmil	t-a-l-brmil-t	‘barrel’

▪ We interpret this as the addition of another inflectional site on top of the lower one; as well as the final site in diminutives.

(22) A thematized loan



## 5. Concluding remarks

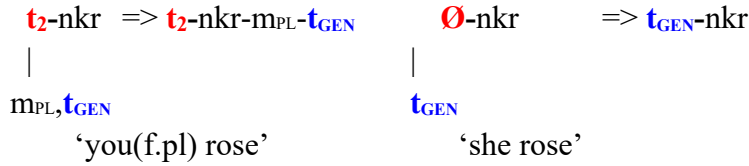
- All feminine nouns are marked on the right edge either by [t] or by the occupation of the gender position by the stem final vowel.
- This position is *always* realized.
- Its realization by the vowel or [t] is an unpredictable, idiosyncratic property of the feminine noun, (as opposed to the realization of [t] at the *left* edge, which is completely regular).
- We therefore designate the final position as the basic/canonical position.
- The initial [t] is the realization of a copied gender feature; it is realized unless blocked by [l].

Extension: An alleged circumfix also appears in verbs (in color).

(23) Verbal paradigm [nkr] ‘rise’

		Sg	pl
1		nkr-Ø	n-nkr
2	M	<b>t</b> -nkr- <b>t</b>	<b>t</b> -nkr-m
	F		<b>t</b> -nkr-m- <b>t</b>
3	M	i-nkr	nkr-n
	F	<b>t</b> -nkr	nkr-n- <b>t</b>

- However, one can assume that the initial [**t**] stands for 2p (as evidenced by the two 2p plurals); only the 2nd [**t**] is a feminine marker.
- In the 3p.f.sg, feminine [**t**] can appear at the left edge *because* there is no person marking (see Harbour 2007: Person dominates gender/number and pushes them to the right edge).



- Under this view, verbs, unlike nouns, have a canonical position at the *left* edge.

(There are complications, but they’re for future research!)

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