Person-number marking in Laki verb inflection: Some implications for the interfaces of morphology

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University of Kentucky
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In Latin, the association of the morphosyntactic property set

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a) the fact that as a passive form, it is syntactically intransitive and has its ‘object of perception’ argument as its subject, and

b) the fact that it exhibits -\textit{b}, -\textit{o} and -\textit{r} as the respective exponents of future tense, first-person singular agreement and passive voice.
This canonical pattern is widely assumed to reflect a grammatical architecture in which a word form’s syntax and morphology are invariably sensitive to the same property set.

This assumption, however, is questionable, since apparent deviations from this canonical pattern are far from rare.
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Here, we discuss a particularly clear example of just such a deviation, that of person-number marking in the system of verb inflection in Laki, an Iranian language (Taghipour 2017).

We argue that Laki requires a grammatical architecture in which the morphosyntactic property set that determines a word form’s syntax may be distinct from the property set to which its inflectional realization is sensitive.
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We argue that Laki requires a grammatical architecture in which the morphosyntactic property set that determines a word form’s syntax may be distinct from the property set to which its inflectional realization is sensitive.
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   • The default pattern
   • Transitive verbs in preterite tenses
2. A mismatch between present and preterite verb inflection:
3. Accounting for the mismatch: The Laki mismatch arises at the interface of a syntactic pattern and a morphological pattern
4. The property mapping $pm$
5. Conclusion
1. Person and number (P/N) in Laki verb inflection

A Laki verb’s inflection for person and number embodies an accusative pattern: a finite verb obligatorily agrees with its subject in person and number.

In the absence of an overt object constituent, the person and number of a transitive verb’s object may also be expressed by pronominal marking on the verb.

(1) a. *me Ali=ya mown-em.*
    I Ali=DEF.OBJ see.PRS-SBJ.1SG
    ‘I see Ali.’

    b. *mown-em=et.*
    see.PRS-SBJ.1SG=OBJ.2SG
    ‘I see you.’

(2) *det-al=a hat-en.*
    girl-PL=DEF come.PAST-SBJ.3PL
    ‘The girls came.’
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Some P/N markers are suffixes; others are clitics.

The person-number suffixes serve as obligatory marks of subject agreement in the present tense (1) and in intransitive clauses in the preterite tenses (2).

The clitics serve as pronominal object markers in the present (1b).

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Transitive verbs exhibit a different pattern in the preterite tenses. P/N suffixes serve as pronominal object markers and obligatory subject agreement is marked by a clitic in VP-second position—except in the third-person singular, where it is marked by a clitic hosted by the verb.

(3) Subject-agreement clitics in preterite transitives

- **Clitic occupies second position within VP (= VP₂)**

  a. me    Ali=m    di.
  I       Ali=SBJ.1SG see.PST    see.PST-OBJ.2SG=SBJ.1SG
  ‘I saw Ali.’

  b. di-n=em.

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(3) Subject-agreement clitics in preterite transitives

• **Clitic occupies second position within VP (= VP2)**
  a. me \textit{Ali=me di.}
     I \textit{Ali=SBJ.1SG see.PST see.PST-OBJ.2SG=SBJ.1SG}
     ‘I saw Ali.’
  b. \textit{di-n=em}.
  ‘I saw you.’

• **Verb hosts 3sg clitic**
  c. \textit{Det-a Ali dit=i.}
     girl-DEF \textit{Ali see.PST=SBJ.3SG}
     ‘The girl saw Ali.’
  d. *\textit{Det-a Ali=i dit}.

2. A mismatch between present and preterite verb inflection
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A P/N suffix precedes a P/N clitic in any verb form carrying both.
Thus, present and preterite verb forms in Laki participate in an
inflectional mismatch:

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<tr>
<th>Intransitives</th>
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**Same syntax**
- subj 1sg, obj 2sg

**Different morphology**
- suffix: 1sg vs 2sg
- clitic: 2sg vs 1sg

- *[mown-em]* = *et*
  - see.PRS-SUBJ.1SG = OBJ.2SG
  - ‘I see you.’

- *[di-n]* = *em*
  - see.PST-OBJ.2SG = SUBJ.1SG
  - ‘I saw you.’
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| mown-\textit{em}=et              | \textit{di-n}=em           |
| see.\texttt{PRS-SUBJ.1SG}=\texttt{OBJ.2SG} | see.\texttt{PST-OBJ.2SG}=\texttt{SUBJ.1SG} |
| ‘I see you.’                     | ‘I saw you.’               |

| \textit{di-m}=et                 |                           |
| see.\texttt{PST-OBJ.1SG}=\texttt{SUBJ.2SG} |                           |
| ‘You saw me.’                    |                           |
3. Accounting for the mismatch

The Laki mismatch arises at the interface of a syntactic pattern and a morphological pattern.
In particular, the status of a P/N specification in syntax is distinct from its status in morphology:

(i) in syntax, a P/N specification $\alpha$ may serve as the value of a subject-agreement feature $SBJ$ or of a pronominal-object feature $PRNOBJ$;

(ii) in morphology, a P/N specification $\alpha$ may serve as the value of an affixally-realized feature $AF$ or of an enclitically-realized feature $CL$. 
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a. A finite verb obligatorily inflects for SBJ; it may also inflect for PRNOBJ.
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The Syntactic Pattern

a. A finite verb obligatorily inflects for SBJ; it may also inflect for PRNOBJ.

b. The properties [SBJ: 3sg] and [PRNOBJ: α] are invariably head properties, shared by a VP with its head V. Otherwise (i.e. where β ≠ 3sg):
   • as a member of a transitive preterite property set, [SBJ: β] is a left-edge property (Miller 1992, Halpern 1995), shared by a VP with its initial constituent;
   • as a member of other sorts of property sets, [SBJ: β] is a head property.
3. Accounting for the mismatch: The Laki mismatch arises at the interface of a syntactic pattern and a morphological pattern

The Morphological Pattern

A Laki verb's P/N inflection involves two sets of realization rules: set A contains rules realizing values of \( \text{AF} \); set B contains rules realizing values of \( \text{CL} \).
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The Morphological Pattern

A Laki verb’s P/N inflection involves two sets of realization rules: set A contains rules realizing values of AF; set B contains rules realizing values of CL.

(A) \(
\begin{align*}
\{ \text{AF: 1sg} \} & : X \rightarrow Xem \\
\{ \text{AF: 2sg} \} & : X \rightarrow Xin \\
\{ \text{prs, AF: 3sg} \} & : X \rightarrow Xi \\
\{ \text{AF: 3pl} \} & : X \rightarrow Xen
\end{align*}
\)

(B) \(
\begin{align*}
\{ \text{CL: 1sg} \} & : X \rightarrow X=em \\
\{ \text{CL: 2sg} \} & : X \rightarrow X=et \\
\{ \text{CL: 3sg} \} & : X \rightarrow X=i \\
\{ \text{CL: 1pl} \} & : X \rightarrow X=man \\
\{ \text{CL: 2pl} \} & : X \rightarrow X=tan \\
\{ \text{CL: 3pl} \} & : X \rightarrow X=an
\end{align*}
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3. Accounting for the mismatch: The Laki mismatch arises at the interface of a syntactic pattern and a morphological pattern.

**The Morphological Pattern**

If a verb is specified for both AF and CL, the application of the rule realizing the value of AF precedes that of the rule realizing the value of CL.

(A) \{AF: 1sg\} : X \rightarrow Xem  
{AF: 2sg} : X \rightarrow Xin  
{prs, AF: 3sg} : X \rightarrow Xi  
{AF: 1pl} : X \rightarrow Ximen  
{AF: 2pl} : X \rightarrow Xinan  
{AF: 3pl} : X \rightarrow Xen

(B) \{CL: 1sg\} : X \rightarrow X=em  
{CL: 2sg} : X \rightarrow X=et  
{CL: 3sg} : X \rightarrow X=i  
{CL: 1pl} : X \rightarrow X=man  
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The Morphological Pattern

The rules in (A) apply only to verbs; the rules in (B) apply to clitic hosts of various categories (including verbs).

(A) \{AF: 1sg\} : X \rightarrow Xem
{AF: 2sg} : X \rightarrow Xin
{AF: 3sg} : X \rightarrow Xi

(B) \{CL: 1sg\} : X \rightarrow X=em
{CL: 2sg} : X \rightarrow X=et
{CL: 3sg} : X \rightarrow X=i

{AF: 1pl} : X \rightarrow Ximen
{AF: 2pl} : X \rightarrow Xinan
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{CL: 1pl} : X \rightarrow X=man
{CL: 2pl} : X \rightarrow X=tan
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4. The property mapping $pm$

At the interface of syntax with morphology in Laki, a property mapping $pm$ mediates between the Syntactic Pattern and the Morphological Pattern.
Thus, a word form’s grammar depends on two distinct property sets (Stump 2016):

- one of these, $\sigma$, determines its syntax;
- the other, $pm(\sigma)$, determines its inflectional realization.

4. The property mapping $pm$
4. The property mapping \( pm \)

Definition:

Where \( \sigma \) is any morphosyntactic property set for verbs and \( \alpha \) is any person/number combination:

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$mown-em=et$ ‘I see you.’
Syntax: $\sigma_1 = \{ \text{prs}, [\text{SBJ 1sg}], [\text{PRNOBJ 2sg}] \}$
Morphology: $pm(\sigma_1) = \{ \text{prs}, [\text{AF 1sg}], [\text{CL 2sg}] \}$

$di-m=et$ ‘You saw me.’
Syntax: $\sigma_2 = \{ \text{pst}, [\text{SBJ 2sg}], [\text{PRNOBJ 1sg}] \}$
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$=et$ $-em$
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5. Conclusion

The grammatical architecture entailed by this analysis readily accommodates the assertion (Aronoff 1994) that a language’s morphology may be sensitive to morphomic properties that have no significance in any other component of its grammar.
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The grammatical architecture entailed by this analysis readily accommodates the assertion (Aronoff 1994) that a language’s morphology may be sensitive to **morphomic** properties that have no significance in any other component of its grammar.

Here, specifications of AF and CL are morphomic, since they have neither syntactic nor semantic coherence: an exponent of AF (or of CL) realizes subject agreement in some instances and properties of a pronominal object in others.
5. Conclusion

Laki morphosyntax presents a kind of symmetrical imbalance:
• morphology but not syntax is sensitive to specifications of AF and CL;
• syntax but not morphology is sensitive to specifications of SBJ and OBJ.

The property mapping \textit{pm} constitutes the nontrivial interface between these skewed specifications.
Cross-linguistically, a wide range of mismatches between the syntax of words and their morphology are the effect of nontrivial property mappings, e.g.

inflection-class distinctions
morphomic realizations of morphosyntactic properties
some kinds of syncretism
deponency
overabundance
polyfunctionality
References


References


Tašakora makam!
با تشکر از شما!
Thank you!
Köszönöm!