NUMBER AS FEATURE: EVIDENCE FROM TURKISH -(S)I

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Background

A. Turkish Suspended Affixation (SA)

SA: certain affixes can be omitted from all conjuncts except the final one while maintaining their semantic scope over the whole construction (Kabak, 2007)

(1) Plural (Kharytonava, 2011): a. ev-ler ve dükkan-lar (2) Possessive (Kornfilt, 2012):a. kitab-ım ve defter-im

a. ev-ler ve dukkan-lar house-PL and shop-PL

book-POSS.1sg and notebook-POSS.1sg

b. ev ve dükkan -lar b. kitab house and shop -PL book

kitab ve defter -im
book and notebook -POSS.1sg

'houses and shops'

'my books and (my) notebooks'

B. Turkish NN compounds

A derivational suffix -(s)I is obligatory for all NN compounds (3). This suffix:

- is not a 3rd person agreement marker although they take the same form, because it has a different distribution from 1st and 2nd person agreement markers;
- must be immediately next to the second noun, i.e., SA is not allowed (4);
- must follow the PL suffix when an NN compounds is pluralised, and PL can no longer be suspended consequently (5)

(3) a. masar kenar-ı (4) a. dans kurs-u ve masaj terapi-si table edge-Sı dance course-Sı and massage therapy-Sı b.* masar kenar b.* dans kurs ve masaj terapi-si table edge dance course and massage therapy-Sı 'table edge' 'dance course and massage therapy'

(5) a. dans kurs-lar-ı ve masaj terapi-ler-si dance course-PL-SI and massage therapi-PL-SI

b.* [dans kurs-u] ve [masaj terapi] -ler-si dance course-SI and massage therapy -PL-SI 'dance courses and massage therapies'

C. Interesting behaviour of PL!!!

The position of PL when it co-occurs with POSS is different for nouns and NN compounds:

- Nouns: PL and POSS must be suspended together, i.e., leaving the PL alone on non-final conjunct is prohibited (6);
- NN compounds: PL must not be suspended with POSS, i.e., PL must be left on the non-final conjunct with
 -(s)I (7)

(6) a.* kedi-ler ve köpek-ler -im b. kedi ve köpek -ler-im car-PL and dog-PL -POSS.1sg cat and dog -PL-POSS.1sg 'my cats and (my) dogs'

(7) a. NN compound coordination (Kharytonava, 2011):

(i) [[dans kurs-lar-ı] ve [masaj terapi-ler]] -iniz dance course-PL-SI and massage therapy-PL(-SI) -POSS.1sg

(ii)* [[dans kurs-u] ve [masaj terapi]] -ler-iniz
dance course-SI and massage therapy -PL(-SI)-POSS.2pl
'your dance courses and (your) massage therapies'

b. Head noun coordination:

(i) [bira [şişe-ler-i ve kutu-lar]] -ınız
beer bottle-PL-SI and box-PL(-SI) -POSS.2pl
(ii)* [bira [şişe-si ve kutu]] -lar-ınız
beer bottle-SI and box -PL(-SI)-POSS.2pl

'your beer bottles and (your beer) boxes'

Puzzles

- Number is traditional analysed as a separate functional projection in the nominal domain NumP (e.g. Ritter, 1991) in Turkish.
- The head of NumP is PL. POSS occupies the D head.
- SA is analysed as right-node-raising of Num head (Kornfilt, 2012).
- But such an analysis does not explain the following questions:

1. Why cannot NumPs be coordinated when there is a suspended D (6a), but can be coordinated when there is no SA (1a)?



→ What if the two conjuncts in (1a) are not two NumPs, but two DPs with empty D heads as shown in (8)?



 \rightarrow Well, it solves the problem but does not explain why NumP are different from other nominal projections NP and DP...

2. Why cannot the Num head undergo SA for NN compounds?

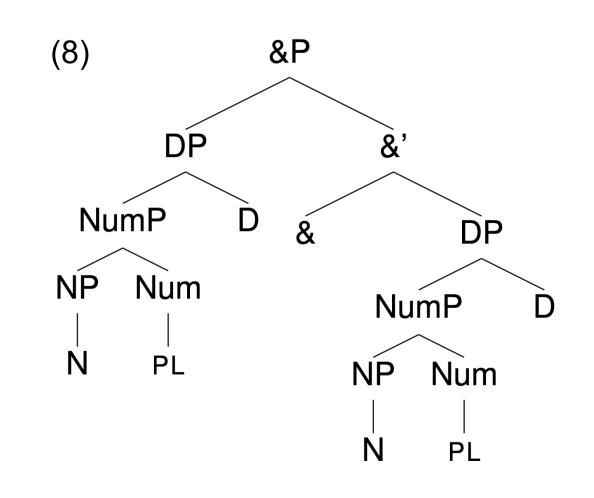


- \rightarrow Perhaps the compounds marker -(s)I and PL must be 'glued together' in the order of -SI-PL
- → But why?? This is just a stipulation...

3. For NN compounds, why cannot PL be suspended when POSS already is?

Some notes on Turkish

- Turkish Adj-N compounds do not require the -(s)/ suffix so this project focus on NN compounds.
- The PL suffix must precede -(s)I
- ➤ Turkish has vowel harmony, so the suffixes look slightly different in every phrase



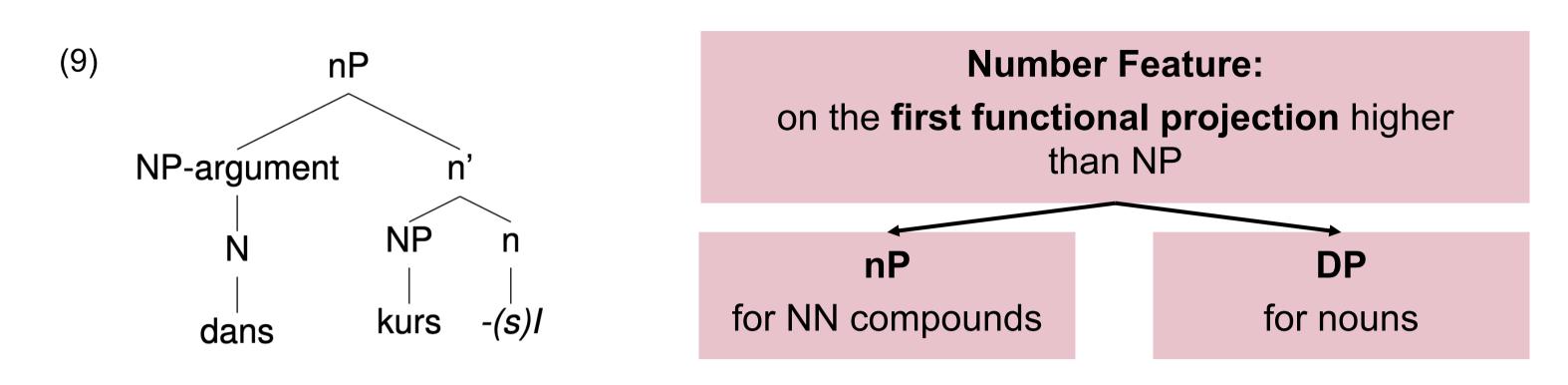
Acknowledgements

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Proposal

Main idea: Number is a FEATURE, not a separate PROJECTION.

Proposed by Öztürk and Taylan (2016).
Introduces an argument to the noun in its specifier position (9).
Because the first noun acts like the argument of the second but nouns cannot directly select another noun as its complement (Grimshaw, 1990, a.o.).
The compound marker -(s)I is the spell-out of n.



n cannot suspend!

How does it work?

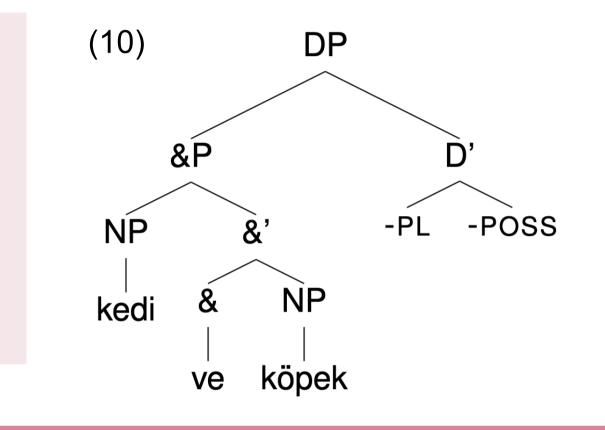
Nouns

with Poss

- Both PL and POSS are on D.
- Same SA behaviour for PL and POSS (10).
- Separated PL and POSS = ungrammatical (6)

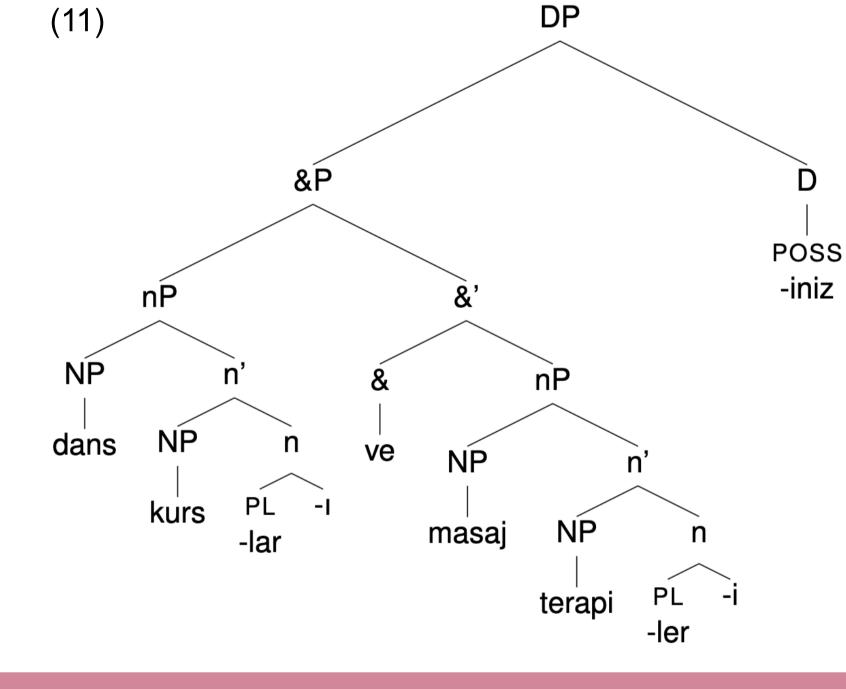
without POSS

- Only PL is on D.
- Choose to suspend or not (1)



NN compounds

- Regardless there is POSS:
 - PL is always on n,
- POSS is always on **D**.
 So, PL and POSS can never
- be suspended together because n cannot undergo SA (11):
 - PL is always next to the NN compound (5),
 - POSS can suspend, but alone (7).



Are the predictions borne out?

	Number feature position	D position	PL position		
			should suspend?	borne out?	e.g.
nouns	D	suspended	✓	✓	(6), (1b)
		not suspended/NA	X	✓	(1a)
NN compounds	n	suspended	X	✓	(7)
		not suspended/NA	X	✓	(5)

Discussion

Analysing number as a feature has its history, for example:

- Bouchard (1988): Number is on D in French but on N in English.
- Dobrovie-Sorin (2012): Number attaches to D in Romance languages but to little n in English.
 - 'Little n' = a DM notion; all NPs are complements of this functional category (analogous to the 'little v' in the verbal domain)
 - Evidence: Concord agreement and Adj-to-N conversion in French.

Problems solved ...

- Why the compound marker -(s)I and PL must 'stick together' → They are on the same head!
- Why PL and POSS cannot suspend together for NN compounds → They are <u>not</u> on the same head!
- Why PL can suspend for nouns but not NN compounds → PL is on different heads for them!

Further applications ...

• Other Turkic languages have similar suffixes (12) e.g., Tatar (Lyutikova & Pereltsvaig, 2015)

(12) a. xatın kijem-e woman clothing-SI 'female clothing' b. bala-lar kitab-ı car-PL book-SI

- 'children's books / books written for children'
- It would be worth investigating:
 what happens when these NN compounds are pluralised;
 - what happens when pluralised NN compounds are coordinated;
 - how the PL suffix interacts with POSS under coordination.