



Second language speakers and postnominal adjectival inflection in Dutch

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RU Quantitative Lexicology and Variational Linguistics

Introduction

- Partitive genitive

Als er iets ergs met haar gebeurd is,...
something bad-GEN

[_{NP} Quantifier Adjective-s]

niets bijzonders	'nothing special'
veel interessants	'a lot of interesting things'
wat zinnigs	'something sensible'
...	

Introduction

- Partitive genitive: -∅ variant

Je dacht onwillekeurig aan iets erg, een ratelslang of zo.

something bad-∅

Introduction

- Factors of alternation: -∅ (Pijpops & Van de Velde 2014)
 - Type adjective: *verkeerd* ('wrong') & color adjectives
 - goed* ('good')
 - beter* ('better')
 - fout* ('incorrect')
 - Nationality: Belgians
 - Register: informal language
 - Quantifier: iets & niets
 - Frequency: low frequent phrases

Introduction

- L2 speakers
 - L2 chatcorpus Moroccorp ↔ L1 chatcorpus ConDiv

(Grondelaers et al. 2000, Ruetten & Van de Velde 2013)

Introduction

- L2 speakers

- Simplify attributive adjectival inflection on **-e** by generalizing the most frequent **-e** ending

Standard: **-∅** in indefinite nt. sg. *een mooi verhaal*
-e elsewhere *een mooie auto*

Moroccorp: **-e** *een mooie verhaal*
een mooie auto

(Weerman 2003, Blom et al. 2008, Ruetten & Van de Velde 2013: 468-471, Van de Velde & Weerman 2014: 117-119)

Introduction

- L2 speakers
 - Deflect: break down case systems

(Lupyan and Dale 2010, Trudgill 2011 and Bentz & Winter 2013),

Hypotheses

Simplify by generalizing one variant

⇒ Factors of alternation can be easily dropped

~ -e inflection

Do not generalize one variant

⇒ Factors of alternation cannot be easily dropped

↔ -e inflection

Most frequent variant
-s

Morphologically simplest variant
-∅

~ L1 speakers

↔ L1 speakers

-e inflection option

Deflexion option

Same factors option

Other factors option

Data

- Quantifiers: iets ('something'), niets ('nothing'), wat ('something'), veel ('a lot'), zoveel ('so much')
- Adjectives: aardig ('nice'), apart ('apart'), belangrijk ('important'), beter ('better'), bijzonder ('particular'), blauw ('blue'), concreet ('concrete'), deftig ('decent'), dergelijk ('similar'), erg ('awful'), geel ('yellow'), gek ('crazy'), goed ('good'), groen ('green'), interessant ('interesting'), klein ('small'), lekker ('tasty'), leuk ('fun'), mooi ('beautiful'), nieuw ('new'), nuttig ('useful'), oranje ('orange'), positief ('positive'), purper ('purple'), raar ('weird'), rood ('red'), spannend ('exciting'), speciaal ('special'), verkeerd ('wrong'), verschrikkelijk ('horrible'), vreemd ('weird'), warm ('warm'), wit ('white'), zinnig ('sensible'), zwart ('black')

(Pijpops & Van de Velde 2014: 9-12)

Data

- Explanatory variables

- Type Adjective regular, *verkeerd*-adjectives, colour adjectives
- Nationality Belgium, Netherlands
- Register quality newspaper, mass newspaper, e-mail, chat
- Quantifier *iets* ('something'), *niets* ('nothing'), *veel* ('a lot'), *wat* ('something'), *zoveel* ('so much')
- Frequency log transformed frequency of the phrase
- Length Adjective number of syllables (1-4)
- Length AP number of words (1-2)

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Data

- Explanatory variables

L1 (confirmed in earlier study)

- Type Adjective
- Frequency

L2 (to investigate)

- Type Adjective
- Frequency
- Quantifier
- Length Adjective
- Length AP

Data

- Gries & Deshors (2014):
 - Single regression model on data from L1 and L2 corpora
 - Variables: explanatory variables + variable *Corpus*
 - Stepwise variable selection procedure based on AIC
- ⇒ Focus on interactions between Corpus and other variables

Results

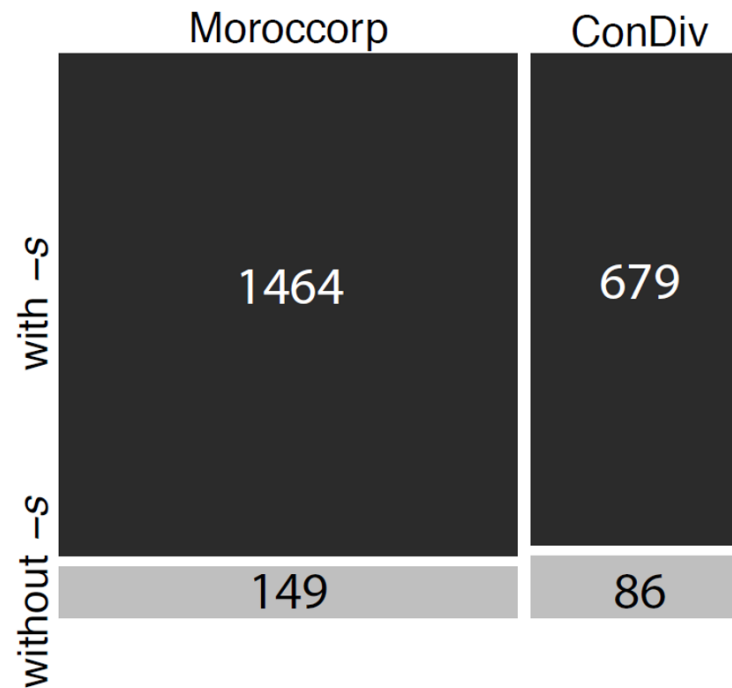


Figure 3: Bivariate mosaic plot of the variable Corpus, with raw numbers

Results

Table 1: regression model

- AIC:	1240	- Total number of hits:	2378
- C-index:	0.842	- Hits with -s:	2143
- Number of phrases:	96	- Hits without -s:	235

Predictors	Levels	Estimates	Confidence intervals		P-values
			2,5%	97,5%	
	intercept	-2.09	-2.98	-1.19	< 0.0001
Type-Adjective	<i>other</i>	Reference level			
	<i>deviant</i>	1.78	1.07	2.48	< 0.0001
	<i>colour</i>	4.34	2.71	5.97	< 0.0001
Frequency		-0.73	-1.32	-0.14	0.0153
Corpus	<i>Moroccorp</i>	Reference level			
	<i>ConDiv</i>	-0.98	-2.28	0.33	0.1416
Interaction	<i>Moroccorp</i>	Reference level			
Frequency - Corpus	<i>ConDiv</i>	0.87	0.15	1.59	0.0175

Results

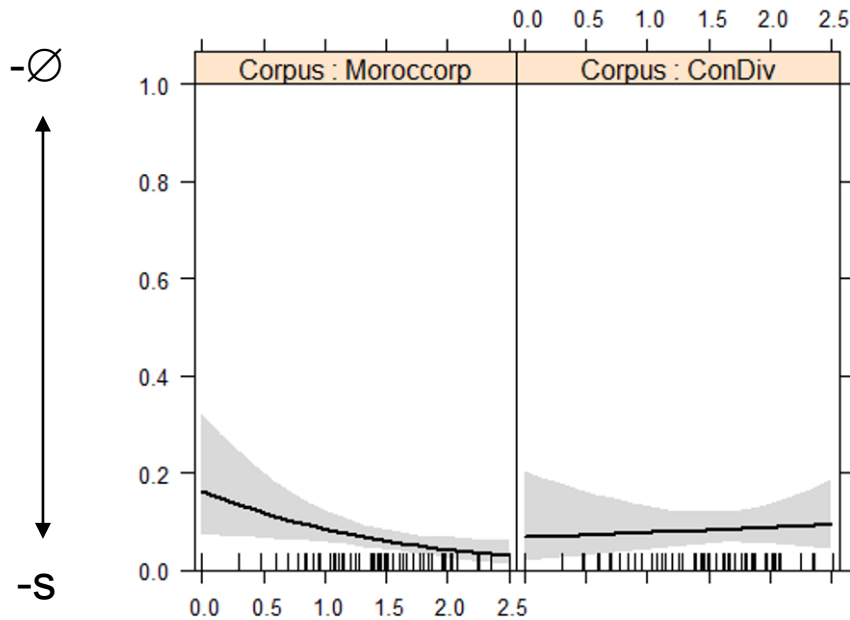


Figure 2: effect plot of the interaction between *Frequency* and *Corpus*

- But...
 - Large confidence intervals
 - Frequency mostly determined by Moroccorp

Results

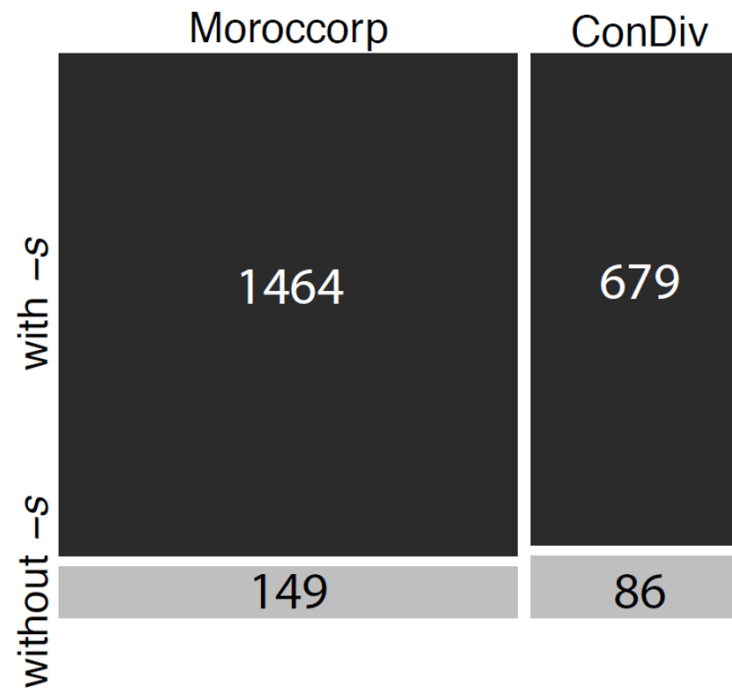


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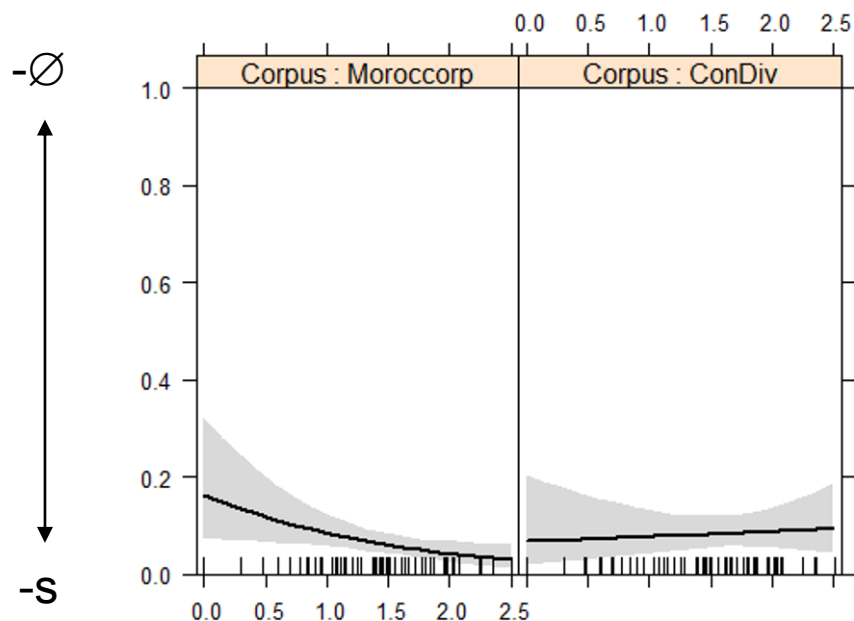


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- But...
 - Large confidence intervals
 - Frequency mostly determined by Moroccorp
 - Dropping predictors slightly increases predictive quality to C-index = 0.844

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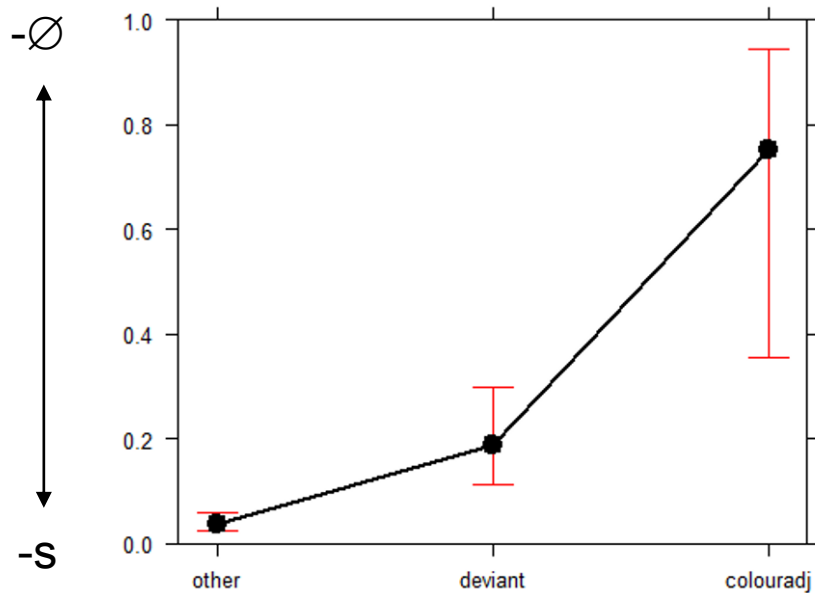


Figure 1: effect plot of *Type-Adjective*

- Type adjective
 - Massive influence in both ConDiv and Moroccorp
- ⇒ No real difference between ConDiv and Moroccorp
- Neither in absolute numbers
 - Nor in factors

Conclusions

Simplify by generalizing one variant

⇒ Factors of alternation can be easily dropped

~ -e inflection

Do not generalize one variant

⇒ Factors of alternation cannot be easily dropped

↔ -e inflection

Most frequent variant
-s

Morphologically simplest variant
-∅

~ L1 speakers

↔ L1 speakers

-e inflection option

Deflexion option

Same factors option

Other factors option

Conclusions

- Type-Adjective cannot be easily dropped
 - ↔ -e inflection rule
- ⇒ Moroccorp chatters do pick up the (seemingly) unmotivated –s rule, but they don't pick up the unmotivated –e rule
 - “you can drop –s with *verkeerd, goed, beter* and *fout*”
 - ~ “you can drop -e in indefinite nt. sg.”
- ⇒ Type-Adjective is **not** just an unmotivated rule

Conclusions

- *verkeerd* ('wrong'), *goed* ('good'), *beter* ('better'), *fout* ('incorrect')
prefer -∅

Of heb ik hier iets verkeerd verstaan...

or have I here something wrong(ly) understand

Conclusions

- *verkeerd* ('wrong'), *goed* ('good'), *beter* ('better'), *fout* ('incorrect')
prefer -∅

Of heb ik hier [iets verkeerd] verstaan...

or have I here something wrong(ly) understand

Conclusions

- *verkeerd* ('wrong'), *goed* ('good'), *beter* ('better'), *fout* ('incorrect')
prefer -∅

Of heb ik hier iets [~~verkeerd~~ verstaan]...

adverb

or have I here something wrong(ly) understand

Conclusions

- *verkeerd* ('wrong'), *goed* ('good'), *beter* ('better'), *fout* ('incorrect')
prefer -∅

Als ik iets verkeerd gegeten heb, heb ik buikpijn.

If I something wrong eaten have, have I stomach-ache

Conclusions

- *verkeerd* ('wrong'), *goed* ('good'), *beter* ('better'), *fout* ('incorrect')
prefer -∅

*Als ik iets [verkeerd gegeten] heb, heb ik buikpijn.
??*

If I something wrong eaten have, have I stomach-ache



Conclusions

- *verkeerd* ('wrong'), *goed* ('good'), *beter* ('better'), *fout* ('incorrect')
prefer -∅

Partitive genitive

*Als ik [iets verkeerd]
gegeten heb, heb ik buikpijn.*

If I something wrong eaten
have, have I stomach-ache

Construction with adverb

*Of heb ik hier iets
[verkeerd verstaan]...*

or have I here something
wrong(ly) understand

Conclusions

- Increased -s omission because of influence from a superficially resemblant, yet structurally unrelated construction
- ⇒ Production of partitive genitives according to an exemplar-based view of language

Thanks!

- Further information:

- dirk.pijpops@kuleuven.be

- Pijpops, Dirk & Freek Van de Velde. 2014. A multivariate analysis of the partitive genitive in Dutch. Bringing quantitative data into a theoretical discussion. *Corpus Linguistics and Linguistic Theory*. Published online, ahead of print.

- Pijpops, Dirk & Freek Van de Velde. Forthc. Second language users and Dutch postnominal adjectival inflection. A corpus analysis. *Taal en Tongval*.

References

- Blom, E, D Polisenska, F Weerman, E Blom, D Polisenska & F Weerman. 2008. Articles, adjectives and age of onset: the acquisition of Dutch grammatical gender. *Second Language Research* 24(3). 297–331.
- Gries, Stefan Th. & Sandra C. Deshors. 2014. Using regressions to explore deviations between corpus data and a standard/target: two suggestions. *Corpora* 9(1). 109–136.
- Grondelaers, Stefan, Katrien Deygers, Hilde Van Aken, Vicky Van den Heede & Dirk Spielman. 2000. Het CONDIV-corpus geschreven Nederlands. *Nederlandse Taalkunde* 5(4). 356–363.
- Pijpops, Dirk & Freek Van de Velde. 2014. A multivariate analysis of the partitive genitive in Dutch. Bringing quantitative data into a theoretical discussion. *Corpus Linguistics and Linguistic Theory*. Published online, ahead of print.
- Pijpops, Dirk & Freek Van de Velde. Forthc. Second language users and Dutch postnominal adjectival inflection. A corpus analysis. *Taal en Tongval*.
- Ruette, Tom & Freek Van de Velde. 2013. Moroccorp: tien miljoen woorden uit twee Marokkaans-Nederlandse chatkanalen. *Lexikos* 23. 475–556.
- Van de Velde, Freek & Fred Weerman. 2014. The resilient nature of adjectival inflection in Dutch. In Petra Sleeman, Freek Van de Velde & Harry Perridon (eds.), *Adjectives in Germanic and Romance*, 113–145. (Linguistik Aktuell/Linguistics Today). Amsterdam: John Benjamins.
- Weerman, Fred. 2003. Een mooie verhaal. Veranderingen in uitgangen. In Jan Stroop (ed.), *Waar gaat het Nederlands naartoe? Panorama van een taal*, 249–260. Amsterdam: Bert Bakker.

Introduction

- Partitive genitive: weird thingie
 - Very restricted use
 - Survivor of genitive case
 - Genitive marking on the adjective
 - Postnominal adjective
 - Contrastively
 - English: *something good*
 - German: *etwas Gutes* → *zu etwas Gutem*