▲ロト ▲帰ト ▲ヨト ▲ヨト 三回日 のの⊙

Variation in spoken datives and genitives in Britain, North America and the Pacific

Joint work involving many people.

▲ロト ▲冊 ▶ ▲ヨト ▲ヨト 三回 のへの

Objective: wheeling out the electron microscope

What is the extent to which careful pairwise variety comparisons can replicate previous findings about probabilistic differences?

Introduction



Syntactic variation in spoken English

- (1) a. we sent [the president]_{recipient} [a letter]_{theme} (the ditransitive dative)
 - b. we sent [a letter]_{theme} to [the president]_{recipient} (the prepositional dative)
- (2) a. [the president]_{possessor}'s [speech]_{possessum} (the *s*-genitive)
 - b. [the speech]_{possessum} of [the president]_{possessor} (the of-genitive)

QL

▲ロト ▲冊 ▶ ▲ヨト ▲ヨト 三回 のへの

< □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □

Synopsis

Countries/varieties

- Canada (CanE)
- New Zealand (NZE)
- Britain (BrE)
- United States (AmE)

Dative dataset: sources

(version: January 2015)

- CanE/BrE: materials were collected in the UK and Canada between 1997 and 2010 according to standard Sociolinguistic procedures by Sali Tagliamonte (Tagliamonte 2014)
- AmE: based on data extracted from the Switchboard Corpus of American English (SWBD) (Bresnan et al. 2007; Bresnan and Ford 2010)
- NZE: data come from the Origins of New Zealand English corpus (ONZE) (Hay and Bresnan 2006; Bresnan and Hay 2008)



▲ロト ▲冊 ▶ ▲ヨト ▲ヨト 三回 のへの

・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・

Genitive dataset: sources

(version: September 2014)

- BrE: based on data extracted from the Freiburg English Dialect Corpus (FRED) (Szmrecsanyi 2006)
- AmE: based on data extracted from the Switchboard Corpus of American English (SWBD) (Shih et al. 2015)
- CanE: data collected between 1997 and 2010 according to standard sociolinguistic procedures by Sali Tagliamonte (see e.g. Jankowski and Tagliamonte 2014)
- NZE: data come from the Origins of New Zealand English corpus (ONZE) (Gordon et al. 2007)

Unitary GLMMs (analysis conducted in April 2015)

- the usual predictors are all significant in the expected directions
- cross-variety patterns: reference level 'CanE' (most observations)
 - sig. interactions of country with the internal predictors were fairly minimal in both constructions
 - genitives: possessor animacy appears to play a greater role in genitive choice in CanE than elsewhere
 - datives: end weight effects are weaker in CanE than elsewhere



▲ロト ▲冊 ▶ ▲ヨト ▲ヨト 三回 のへの

Synopsis

Methods & data



▲ロト ▲冊 ▶ ▲ヨト ▲ヨト 三回 のへの

Variable context definitions

- dative alternation: *give* only, broadly following guidelines in Bresnan et al. (2007)
- genitive alternation: (mostly?/entirely?) compatible with the guidelines in Rosenbach (2014)

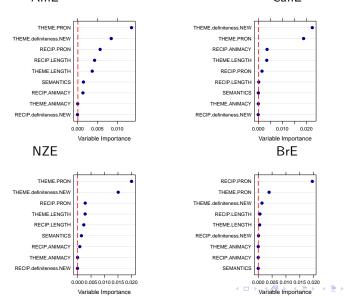
▲ロト ▲冊 ▶ ▲ヨト ▲ヨト 三回 のへの

Synopsis

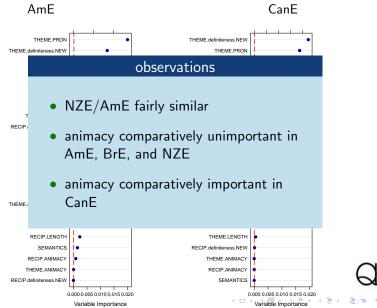
Annotation: datives

- SEMANTICS: transfer of possession (e.g. *give*) vs communication (e.g. *demonstrate*) vs abstract (e.g. *wish*)
- REC.THEME.DIFF: log(recipient length) log(theme length) (number of words). Bresnan and Ford (2010) report that using a relative measure helps reduce collinearity.
- RECIP.PRON: pronoun versus noun
- THEME.PRON: pronoun versus noun
- RECIP.definiteness.NEW: definite versus indefinite
- THEME.definiteness.NEW: definite versus indefinite
- RECIP.ANIMACY: animate versus inanimate
- THEME.ANIMACY: animate versus inanimate
- COUNTRY: US vs UK vs CAN vs NZ
- SPEAKER.pruned, THEME.HEAD.pruned, RECIP.HEAD.pruned

CRF analysis: dative alternation



CRF analysis: dative alternation



▲ロト ▲冊 ▶ ▲ヨト ▲ヨト 三回 のへの

Annotation: genitives

- Animacy.of.Por: animate versus inanimate versus collective versus locative versus temporal
- Definiteness.of.Por: definite versus definite (pronoun) versus indefinite
- sem_rel_binary: prototypical versus non-prototypical
- Length.of.Por: number of words, centered
- Length.of.Pum: number of words, centered
- Final.sibilancy: final sibilant present versus absent
- COUNTRY: US vs UK vs CAN vs NZ
- speaker.pruned, Por.head.pruned, Pum.head.pruned

Variable Importance

Synopsis

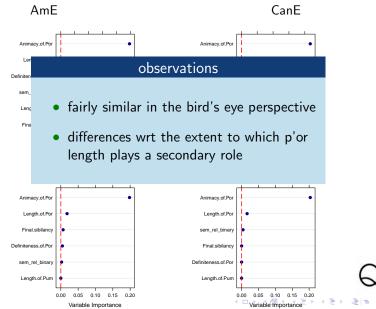
CRF analysis: genitive alternation

Animacy.of.Por Animacy.of.Por Length.of.Por Final.sibilancy Definiteness.of.Por Length.of.Por sem_rel_binary sem_rel_binary Length.of.Pum Definiteness.of.Por Final.sibilancy Length.of.Pum 0.10 0.15 0.20 0.00 0.05 0.10 0.15 0.20 0.25 0.00 0.05 Variable Importance Variable Importance NZE BrE Animacy.of.Por Animacy.of.Por Length.of.Por Length.of.Por Final.sibilancy sem_rel_binary Definiteness.of.Por Final.sibilancy sem rel binary Definiteness.of.Por Length.of.Pum Lenath.of.Pum 0.00 0.05 0.10 0.15 0.20 0.05 0.10 0.15 0.20 0.00





CRF analysis: genitive alternation



pairwise GLMMs: model fitting procedure

- Zuur et al. (2009)
- ran the full set of model diagnostics, checking residuals and random effects structure, leverage of certain items, *k*-fold cross-validation etc.
- genitives: include in full model interactions suggested by ctree
- fairly minimal ranef structure: speaker, recipient/theme/possessor/possessum head noun lemmas; intercept adjustments only; re-optimization in each pairwise comparison



◆□▶ ◆□▶ ◆□▶ ◆□▶ ●□ ��

Pairwise comparisons: datives



▲ロト ▲冊 ▶ ▲ヨト ▲ヨト 三回 のへの

Predictions

- Bresnan and Hay (2008): "Non-animate recipients are more likely to be used in the double object construction in the NZ than in US spoken data" (252) failure to replicate
- Wolk et al. (2013): end-weight of themes is a stronger effect in AmE than in BrE failure to replicate
- Tagliamonte (2014): no substantial differences between BrE and CanE we do find differences

Model quality measures: datives

	Ν	% corr. pred.	С	κ
CanE/BrE	2126	97.0	0.99	8.5
CanE/NZ	2018	96.9	0.98	7.7
CanE/US	2403	96.3	0.98	10.1
NZ/BrE	1808	97.7	0.99	7.7
NZ/US	2077	97.2	0.99	11.0
BrE/US	2190	96.8	0.99	8.0



< □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □

Significant cross-variety differences in regression

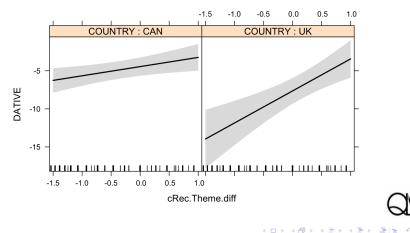
CanE/BrE	REC.THEME.DIFF ($p = .001$)
CanE/NZE	REC.THEME.DIFF $(p = .009)$
CanE/AmE	nil
NZE/BrE	SEMANTICS ($p = .02$)
	RECIP.PRON ($p = .02$)
	THEME.ANIMACY ($p = .049$)
NZE/AmE	SEMANTICS ($p = .004$)
BrE/AmE	nil



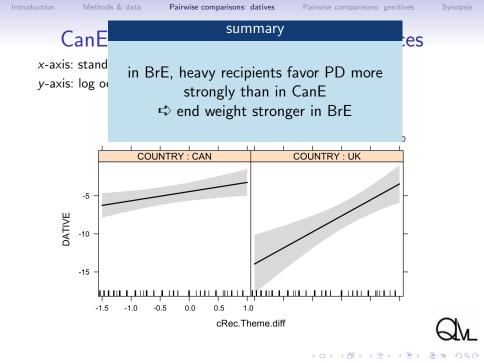
< □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □

CanE versus BrE: end weight differences

x-axis: standardized length difference centered around zero *y*-axis: log odds (predicted outcome: PD)

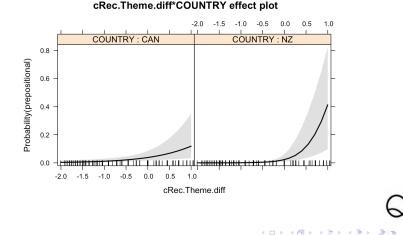


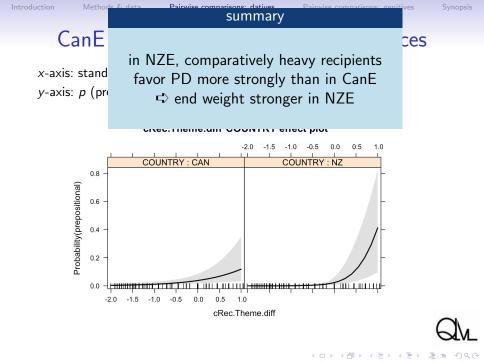
cRec.Theme.diff*COUNTRY effect plot



CanE versus NZE: end weight differences

x-axis: standardized length difference centered around zero *y*-axis: *p* (predicted outcome: PD)





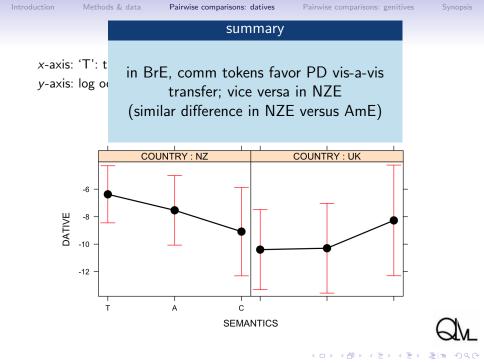
NZE versus BrE: semantics

x-axis: 'T': transfer, 'A': abstract, 'C': communication *y*-axis: log odds (predicted outcome: PD)

A С COUNTRY : NZ COUNTRY : UK -6 DATIVE -8 -10 -12 т С A SEMANTICS

SEMANTICS*COUNTRY effect plot

◆□ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > <



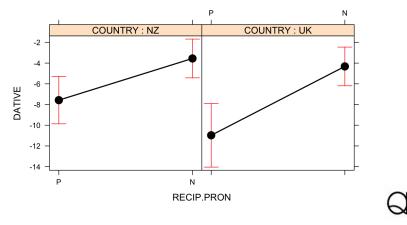
イロト イポト イヨト イヨト

Synopsis

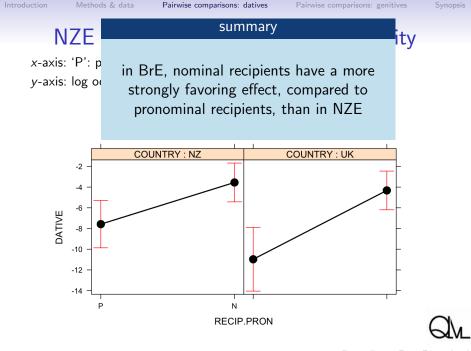
NZE versus BrE: recipient pronominality

x-axis: 'P': pronoun, 'N': noun

y-axis: log odds (predicted outcome: PD)



RECIP.PRON*COUNTRY effect plot



イロト イポト イヨト イヨト

Synopsis

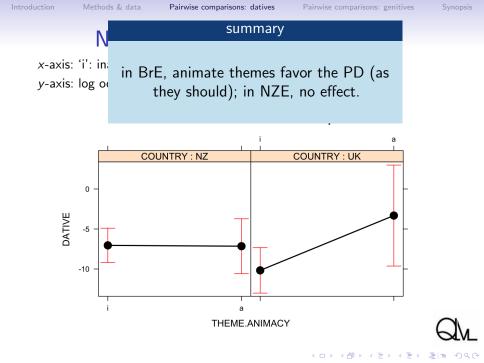
NZE versus BrE: theme animacy

x-axis: 'i': inanimate, 'a': animate

y-axis: log odds (predicted outcome: PD)

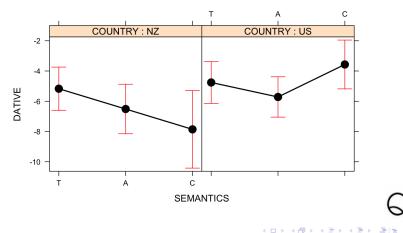
а COUNTRY : NZ COUNTRY : UK 0 -DATIVE -5 -10 а THEME.ANIMACY

THEME.ANIMACY*COUNTRY effect plot

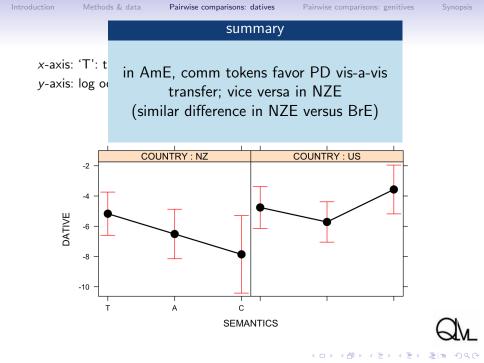


NZE versus AmE: semantics

x-axis: 'T': transfer, 'A': abstract, 'C': communication *y*-axis: log odds (predicted outcome: PD)



SEMANTICS*COUNTRY effect plot



Interim discussion: datives

- compared to BrE & NZE, end weight weak in CanE
- recipient animacy: stable across the board
- specifically, no recipient animacy difference NZE/AmE (contra Bresnan and Hay 2008)

 note: in the NZE part of the dataset, 42/61 (68%) of inanimate recipients appear in the ditransitive pattern; in AmE the figure is 135/187 (72%)
- semantics difference NZE/BrE and NZE/AmE: in NZE, communicative uses of *give* disfavor the PD

Pairwise comparisons: genitives



< □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □

・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・

Synopsis

Predictions

- Rosenbach (2002), Hinrichs and Szmrecsanyi (2007): animate possessors discourage s-genitive usage less strongly in AmE than in BrE (but: mostly written data) failure to replicate
- Hinrichs and Szmrecsanyi (2007): long possessums favor s-genitive usage in AmE but not in BrE (but: written data) failure to replicate
- Hundt and Szmrecsanyi (2012): animacy is overall a more important factor for predicting genitive variation in (earlier, written) NZE than in (earlier, written) BrE replication successful

Synopsis

Model quality measures: genitives

	Ν	% corr. pred.	С	κ
CanE/BrE	3652	93.5	0.98	12.4
CanE/NZE	3946	94.9	0.99	13.8
CanE/AmE	3104	93.3	0.98	12.9
NZE/BrE	3616	94.4	0.99	11.1
NZE/AmE	3068	94.6	0.98	8.0
BrE/AmE	2774	92.0	0.98	7.7



< □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □

Significant cross-variety differences in regression

CanE/BrE CanE/NZE CanE/AmE NZE/BrE NZE/AmE BrE/AmE Animacy.of.Por (p < .001), Final.sibilancy (p = 0.09) Animacy.of.Por (p = .09), sem_rel_binary (p < .07) Animacy.of.Por (p = .04), Length.of.Pum (p = .03) Animacy.of.Por (p = .04), Final.sibilancy (p = .02) *nil nil*

QL

▲ロト ▲冊 ▶ ▲ヨト ▲ヨト 三回 のへの

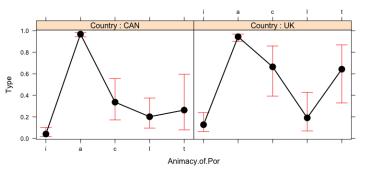
(日)、

ELE SQC

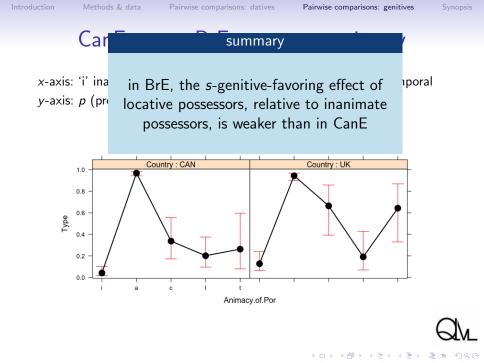
Synopsis

CanE versus BrE: possessor animacy

x-axis: 'i' inanimate, 'a' animate, 'c' collective, 'l' locative, 't' temporal y-axis: p (predicted outcome: *s*-genitive)



Animacy.of.Por*Country effect plot

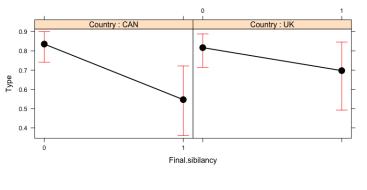


イロト イ押ト イヨト イヨト

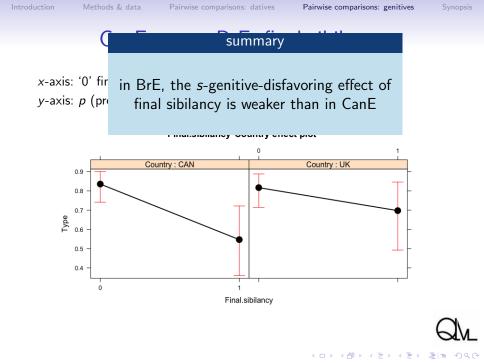
Synopsis

CanE versus BrE: final sibilancy

x-axis: '0' final sibilant absent, '1' final sibilant present y-axis: p (predicted outcome: s-genitive)



Final.sibilancy*Country effect plot



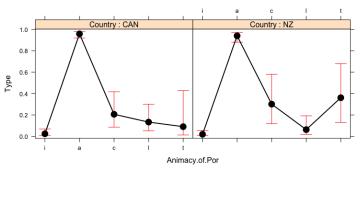
(日)、

3

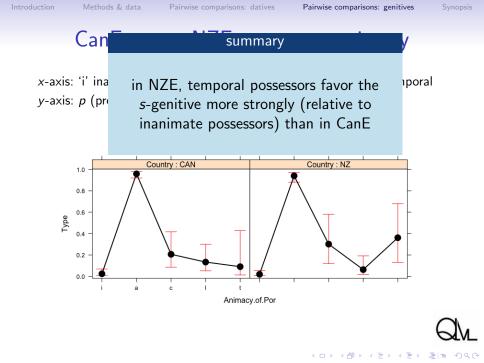
Synopsis

CanE versus NZE: possessor animacy

x-axis: 'i' inanimate, 'a' animate, 'c' collective, 'l' locative, 't' temporal y-axis: p (predicted outcome: *s*-genitive)



Animacy.of.Por*Country effect plot



イロト イポト イヨト イヨト

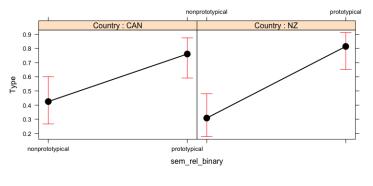
3

Synopsis

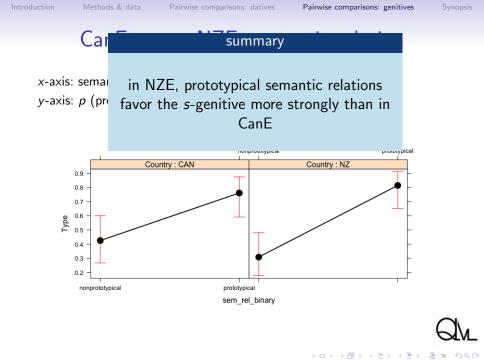
CanE versus NZE: semantic relation

x-axis: semantic relation

y-axis: p (predicted outcome: s-genitive)



sem_rel_binary*Country effect plot



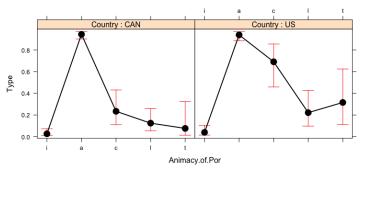
(日)、

ELE SQC

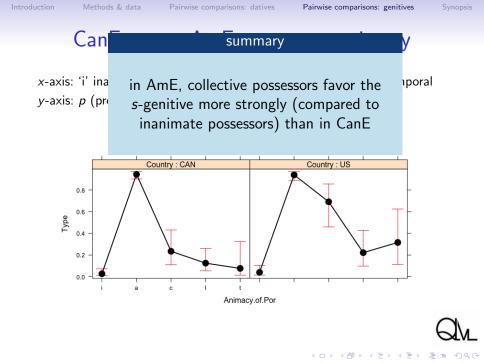
Synopsis

CanE versus AmE: possessor animacy

x-axis: 'i' inanimate, 'a' animate, 'c' collective, 'l' locative, 't' temporal y-axis: p (predicted outcome: *s*-genitive)



Animacy.of.Por*Country effect plot

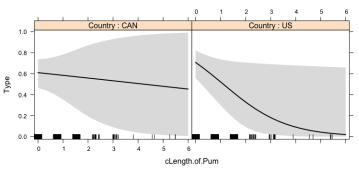


イロト イポト イヨト イヨト

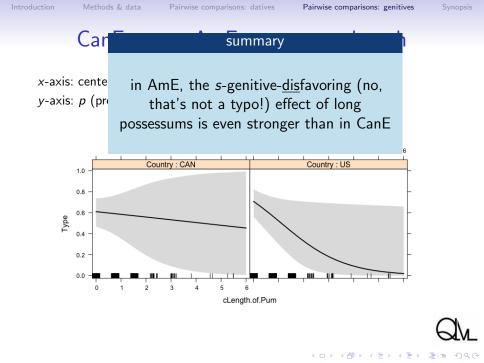
Synopsis

CanE versus AmE: possessum length

x-axis: centered possessum length (in words) y-axis: p (predicted outcome: s-genitive)



cLength.of.Pum*Country effect plot



(日)、

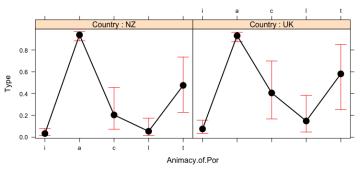
3

= 990

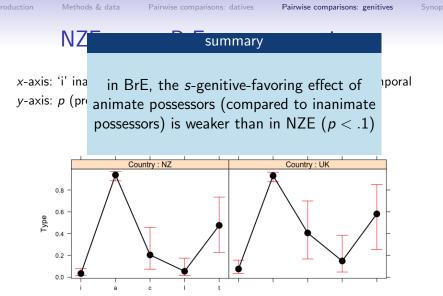
Synopsis

NZE versus BrE: possessor animacy

x-axis: 'i' inanimate, 'a' animate, 'c' collective, 'l' locative, 't' temporal y-axis: p (predicted outcome: *s*-genitive)



Animacy.of.Por*Country effect plot

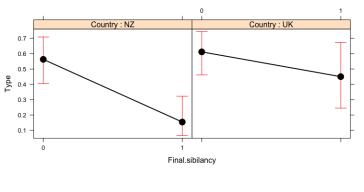


Animacy.of.Por

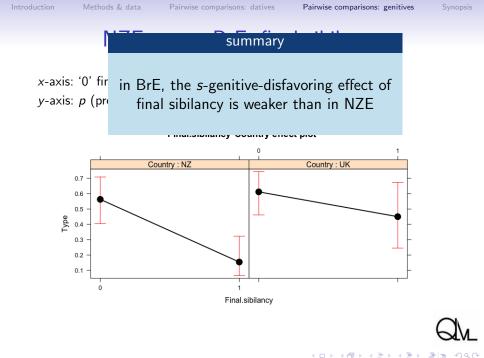
・ロト ・ 一日 ト ・ 日

NZE versus BrE: final sibilancy

x-axis: '0' final sibilant absent, '1' final sibilant present *y*-axis: *p* (predicted outcome: *s*-genitive)



Final.sibilancy*Country effect plot



Interim discussion: genitives

- possessor animacy: most variable constraint (but no difference in the AmE versus BrE pairing!)
- final sibilancy also surprisingly variable (2 significant interaction terms)
- more often than not, increasing possessum length predicts of-genitive usage (anti-end weight/Easy First)

About possessor animacy

What happens if we run models with a binary animacy distinction?



About possessor animacy

What happens if we run models with a binary animacy distinction?

• still not the slightest trace of an animacy difference between BrE and AmE (p = .82)

About possessor animacy

What happens if we run models with a binary animacy distinction?

- still not the slightest trace of an animacy difference between BrE and AmE (p = .82)
- in BrE and AmE, the *s*-genitive-disfavoring effect of inanimate p'ors is weaker than in CanE
- in BrE and AmE, the s-disfavoring effect of inanimate p'ors is weaker than in NZE (p < .1)

About possessor animacy

What happens if we run models with a binary animacy distinction?

- still not the slightest trace of an animacy difference between BrE and AmE (p = .82)
- in BrE and AmE, the *s*-genitive-disfavoring effect of inanimate p'ors is weaker than in CanE
- in BrE and AmE, the *s*-disfavoring effect of inanimate p'ors is weaker than in NZE (p < .1)
- \vartriangleleft CanE and NZE have strong animacy constraints

Introduction

Methods & data

Pairwise comparisons: datives

Pairwise comparisons: genitives

Synopsis

Synopsis



シック・1回、4回>4回>4回>4回>4回>

Introduction

▲ロト ▲冊 ▶ ▲ヨト ▲ヨト 三回 のへの

Summary

- no obvious cross-constructional parallelisms according to regression analysis
 But CRF: animacy comparatively important in CanE in both alternations
- surprisingly hard to replicate previous findings
- CRF: genitive grammars more homogeneous than dative grammars

To do / issues

- Annotation problem concerning theme pronominality (datives) give them [so much ice cream] = pronominal?

References I

- Bresnan, J., A. Cueni, T. Nikitina, and H. Baayen (2007). Predicting the Dative Alternation. In G. Boume, I. Krämer, and J. Zwarts (Eds.), *Cognitive Foundations of Interpretation*, pp. 69–94. Amsterdam: Royal Netherlands Academy of Science.
- Bresnan, J. and M. Ford (2010). Predicting syntax: Processing dative constructions in American and Australian varieties of English. *Language 86*(1), 168–213.
- Bresnan, J. and J. Hay (2008, February). Gradient grammar: An effect of animacy on the syntax of give in New Zealand and American English. *Lingua 118*(2), 245–259.
- Gordon, E., M. Maclagan, and J. Hay (2007). The ONZE corpus. In J. C. Beal, K. P. Corrigan, and H. L. Moisl (Eds.), *Creating and Digitizing Language Corpora. Volume 2: Diachronic Databases*, pp. 82–104.
 Basingstroke: Palgrave Macmillan.
- Hay, J. and J. Bresnan (2006, January). Spoken syntax: The phonetics giving a hand in New Zealand English. *The Linguistic Review 23*(3).

・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・

Literatur

References II

- Hinrichs, L. and B. Szmrecsanyi (2007). Recent changes in the function and frequency of Standard English genitive constructions: A multivariate analysis of tagged corpora. *English Language and Linguistics* 11, 437–474.
- Hundt, M. and B. Szmrecsanyi (2012). Animacy in early New Zealand English. *English World-Wide 33*, 241–263.
- Jankowski, B. L. and S. A. Tagliamonte (2014, July). On the genitive's trail: data and method from a sociolinguistic perspective. *English Language and Linguistics* 18(02), 305–329.
- Rosenbach, A. (2002). *Genitive variation in English: conceptual factors in synchronic and diachronic studies*. Berlin, New York: Mouton de Gruyter.
- Rosenbach, A. (2014, July). English genitive variation the state of the art. *English Language and Linguistics* 18(02), 215–262.

・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・

References III

- Shih, S., J. Grafmiller, R. Futrell, and J. Bresnan (2015, January).
 Rhythm's role in genitive construction choice in spoken English. In
 R. Vogel and R. Vijver (Eds.), *Rhythm in Cognition and Grammar*.
 Berlin, München, Boston: DE GRUYTER.
- Szmrecsanyi, B. (2006). *Morphosyntactic Persistence in Spoken English*. Berlin / New York: Mouton de Gruyter.
- Tagliamonte, S. A. (2014). A comparative sociolinguistic analysis of the dative alternation. In R. Torres-Cacoullos, N. Dion, and A. Lapierre (Eds.), *Linguistic variation: Confronting fact and theory*, pp. 297–318. London, New York: Routledge.
- Wolk, C., J. Bresnan, A. Rosenbach, and B. Szmrecsanyi (2013). Dative and genitive variability in Late Modern English: Exploring cross-constructional variation and change. *Diachronica 30*(3), 382–419.
- Zuur, A. F., E. N. Ieno, N. J. Walker, A. A. Saveliev, and G. M. Smith (2009). *Mixed Effects Models and Extensions in Ecology with R*. New York: Springer.

・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・
 ・