



Towards the inevitable demise of everybody?

A multifactorial analysis of *-one/-body/-man* variation in indefinite pronouns in historical American English

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Aim

- The paradigmatic alternatives *-body* and *-one* in the pronominal quantifiers
 - somebody / someone
 - anybody / anyone
 - \circ everybody / everyone
 - \circ nobody / no one
- c. 200 years of AmE in the Corpus of Historical American English (COHA)
- 1) However, I don't bear **anybody** any ill will, and hope when we part it will be on good terms (COHA, 1857)
- 2) Something from Tom Tracy would have pleased you more than from **anyone**; but listen to me, Annie. (COHA, 1886)
- 3) There was but one sane inference: **someone** had taken a liberty rather gross. (COHA, 1898)
- 4) I thought I heard **somebody** speak. (COHA, 1828)

Previous findings

- *-one* more prestigious of the two variants (D'Arcy et al. 2013)
- -body preferred in spoken uses and in American English (Bolinger 1976; Quirk et al. 1985: 378; Biber et al. 1999: 352–3; D'Arcy et al. 2013: 296–298)
- Svartvik & Lindquist (1997): no convincing evidence of a variety distinction in the late 20th century
- A gradual shift towards *-one*: led by women (Nevalainen & Raumolin-Brunberg 2003; Laitinen 2018)
- Quantifiers play a role
 (D'Arcy et al. 2013: 293)



FIGURE 4. Distribution of -body by quantifier, 1570-1899 (PPCEME, PPCMBE).

Material: COHA

- Corpus of Historical American English 1810–2009, c. 400 million words
- Full-text version of COHA used
- The corpus is balanced by genre across the decades, and for sub-genres and domains as well¹
- Tagged using CLAWS7

¹ e.g. by Library of Congress classification for non-fiction; and by sub-genre for fiction – prose, poetry, drama...



Prevalence of one-word spellings in COHA: *-body* first

- *-body* first early 19th century
- -one by early 20th



Data retrieval

- Python was used to extract pertinent data from the COHA full-text archive
- The base data was retrieved using simple regular expressions to match indefinite pronouns (words, not lemma) in the plain text and xml files yielding 111,122 eligible texts out of 112,388 texts
- A stricter search using the lemmatized and tagged wlp files (tagged as **pn**, not followed by noun, *-one* not followed by *of*) yielded only 45,276 texts (this warrants further investigation!)
- The data was manipulated using mainly Python (pandas in particular), regular expressions, and stored as .csv files
- All spelling variants were included (modern, separate, as well as misspellings such as *any buddy*)

Gender script overview

- Parish records (Wrigley et al. 2018) were used as the basis of name-based gender identification
 - For those still unknown, a mix of modern name lists and machine learning approaches was used to optimize the number of matches. Sanity checks were performed
 - 'Unknown' includes those texts where no author was indicated
 - 'Errors' are due to some texts in COHA having more than one text id



Methods

• Frequency comparisons over time

- Normalized frequency / 10,000 words
- % of variant (-one) out of variable (-one/-body)

• Visualization

- Line graphs
 - Some with random sampling to show variability depending on corpus composition
- Beanplots (Kampstra 2008; Säily et al. 2011)
- Multivariate: logistic regression
 - Dependent variable: *-one* (reference level: *-body*)
 - Internal factors: lemma (*any*, *some*, *every*, *no*), post-modifying preposition
 - External factors: genre, gender, year

Results

Proportion of indefinite -one in COHA by lemma



Indefinite -one and -body in COHA



Indefinite -one in COHA by genre



Proportion of indefinite *-one* in COHA by genre



Results of logistic regression (Irm)

- 303,556 observations
- -body as reference level; coefficients for -one
- vif values <1.8 (no multicollinearity), but the regression only has weak predictive power
- Likelihood of *-one* in non-fiction is 2.8 when compared with fiction
- Change towards -one led by women
- no/some favor -one
- The presence of a post-modifying prep increases the likelihood of -one (cf. Svartvik & Lindquist 1997)
- Regression analysis replicated with post-1940 observations (182,150): no major differences in the coefficients

	Model Likelihood		Discriminatio	on Rank Dise	Rank Discrim.	
	Ra	atio Test	Indexes	Indexes		
Obs	303556 LR	chi2 12879	9.59 R2	0.056 C	0.62	
body	118702	d.f.	10	g 0.4	95 Dx	y 0.24
one	184854	Pr(> ch	2) <0.0001	gr 1	.641 gar	mma 0.24
max deriv 5e-08			gp 0.11	3 tau-a 0.1	114	
		Brie	er 0.22	8		
		Coef	S.E.	V	Vald Z	Pr(> Z)
Intercept		-10.453	2 0.16	41 -(63.70	<0.0001
genre=mag		0.4613	0.01	07 4	2.94	<0.0001
genre=news		0.3130	0.01	65 1	8.98	<0.0001
genre=nf		1.0251	0.01	75 5	8.42	<0.0001
gender=male		-0.2007	0.00	90 -2	22.28	<0.0001
gender=unknown		-0.1484	0.01	36 -	10.91	<0.0001
year		0.0055	0.00	01 6	5.51	<0.0001
lemma	=every	-0.1033	0.01	13 -9	9.12	<0.0001
lemma	=no	0.2311	0.01	10 2	20.99	<0.0001
lemma	=some	0.4282	0.01	14 3	7.45	<0.0001
prep=TRUE		0.3776	0.01	37 2	27.62	<0.0001

Zooming in: -one and -body in COHA fiction

- Data coverage
 - \circ c. 50% of COHA is fiction
- Metadata coverage
 - Author + gender best known in fiction
- Genre
 - Fiction **more oral**, good for sociolinguistic studies

Indefinite -one and -body in COHA fiction



Beanplot: Indefinite -one and -body in COHA fiction



Indefinite *-one* in COHA fiction by gender



Beanplot: Indefinite -one in COHA fiction by gender



Proportion of indefinite *-one* in COHA fiction by gender



Discussion

- Methodological point: we have added gender metadata to texts in COHA
- Issues with COHA metadata
 - No uniform way of listing the author names
 - Some texts contain more than one text id
- COHA as material for sociolinguistic investigation?
 - Our results look promising: consistent gender difference in the use of *-one*

Conclusion

- D'Arcy et al. (2013): the demise of *-body* is accelerated starting from c. 1930s onwards in British English
- We observe a similar tendency around the same time in AmE starting from the 1940/50s
 - AmE lags behind (cf. Hundt 2009)
 - Change accelerated after large-scale mobility (cf. Raumolin-Brunberg 1998)
- Multifactorial analysis:
 - Normalized frequency of -one is largest in fiction, but non-fiction in particular increases the probability
 - some/no favor -one in AmE
 - Similar to BrE (EModE and LModE): the change is led by women

Thank you!

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