Социолингвистика

Функциональные модели Даша Попова 13 декабря 2022

Three waves of variation

• Eckert, 2012

The first wave of variation (Eckert, 2012):

- ★ The first wave of variation studies established broad correlations between linguistic variables and the macrosociological categories of socioeconomic class, sex, class, ethnicity, and age.
- ★ Seminal work: Labov's (1966) study of the Social Stratification of English in New York City.
- ★ Labov defined the notion of **the vernacular** as each speaker's first acquired and most automatic, hence maximally systematic, linguistic production

The first wave of variation (Eckert, 2012):

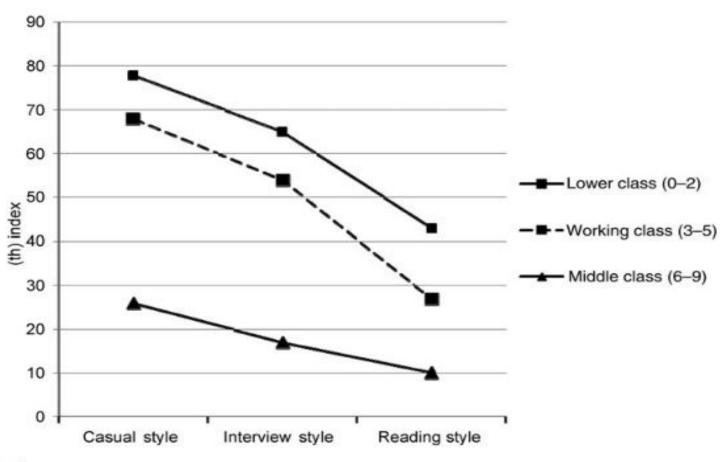


Figure 1

Class stratification of (th)-stopping. From Labov (1966).

The first wave of variation (Eckert, 2012):

- ★ Unaffected by socially motivated correction, the vernacular emerged as a classic natural object of scientific inquiry.
- ★ Class, determined according to standard sociological measures, placed individuals passively within a structure that determined their access to standard language and their exposure to linguistic change.
- ★ Social agency was limited to self-correction as individuals, sensitive to the relative status of class varieties, moved away from the vernacular as they adopted more standard forms in their more careful speech.
- ★ The first wave treated this within-speaker pattern of variation not as involving a choice between socially meaningful forms, but as the result of self-monitoring to suppress a natural cognitive process.
- ★ Style, then, was conceived purely as the output of varying attention to speech.

The second wave of variation (Eckert, 2012):

- ★ The second wave employed ethnographic methods to explore the local categories and configurations that inhabit, or constitute, these broader categories.
- ★ In his work on a sugar plantation in Guyana, Rickford (1986) found a major division between those who worked the sugar (the estate class) and those who worked in the offices (the non-estate class).
- ★ These groups showed sharp differences in verbal culture, in language ideology, and in linguistic production.
- ★ This study emphasized that although the vernacular maybe stigmatized on a global level, its association with local values and practices gives it positive value on the local level.
- ★ Eckert (1989a, 2000): an ethnographic study of adolescents in high schools from the predominantly white Detroit suburban area. The student social order in these schools involved two mutually opposed social categories, *jocks* and *burnouts*.

The second wave of variation (Eckert, 2012):

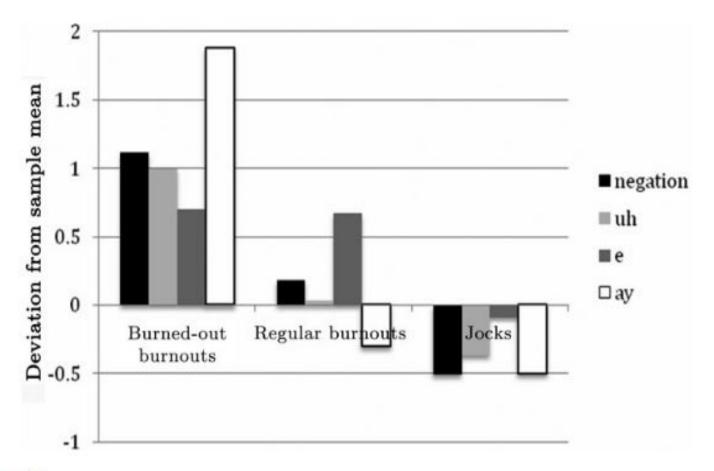


Figure 2

Use of vernacular variants by girls' subcategory. From Eckert (2000).

The third wave of variation (Eckert, 2012):

- ★ (a) variation constitutes a robust social semiotic system, potentially expressing the full range of social concerns in a given community;
- ★ (b) the meanings of variables are underspecified, gaining more specific meanings in the context of styles, and
- ★ (c) variation does not simply reflect, but also constructs, social meaning and hence is a force in social change.

The third wave of variation (Eckert, 2012):

- ★ Zhang (Zhang 2005, 2008) traces the indexical appropriation of individual Mandarin variables in the emergence of a wealthy elite in Beijing.
- ★ China's move into the global economy has created a new class of yuppies, young managers in the foreign-owned financial sector.
- ★ The yuppies' value in the global financial market depends on the projection of a cosmopolitan self, and they have developed a speech style to match their more general materialistic and cosmopolitan lifestyle—a style that contrasts starkly with that of their peers in state-owned financial institutions.
- ★ One variable is the rhotacization of finals (in which "flower" [hwa] is pronounced [hwar]).
- ★ Another Beijing feature, the interdental pronunciation of /z/, is commonly associated with a feckless character, the "alley saunterer". The yuppies stay away from this variable altogether because casual fecklessness is not a desirable trait for a transnational business person.

The third wave of variation (Eckert, 2012):

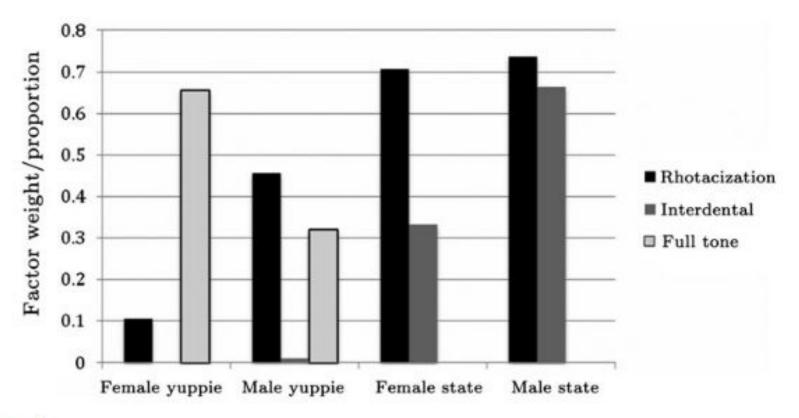


Figure 3

Use of Beijing and Non-Mainland variables by managers in the foreign- and state-owned financial sector (factor weights for rhotacization and interdental, proportion for full tone).

Dimensions of rhythm: The multi-layered nature of rhythmic style

The data: Eckert (1989, 2000)

Belten High Detroit suburbs, 1980s

burnouts

in-betweens

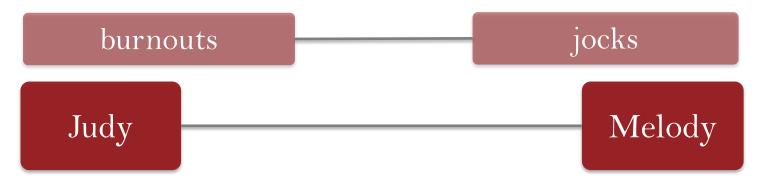
jocks





The data: Eckert (1989, 2000)

The current analysis is based on the first 5 min of 12-minute samples from one-on-one interviews with two particular students who fall at either end of these two social extremes.



- the most burned-out of the burnouts
- interview persona is tough, cool
- doesn't care about social standing

- the most squeaky-clean of the jocks
- interview persona is sweet, innocent
- concerned with her place in the social hierarchy

Neither speaker is a typical member of- or a leader within- her group.

Proposal

- Methodological claims:
 - we suggest zooming in to rhythmic patterns at the IP level to capture differences that might be obscured at the global level
 - looking at details like accents and pauses to capture rhythmic differences that might be obscured by solely looking at PVI
- Empirical claim:
 - Judy's and Melody's rhythmic patterns are phonologically distinct from each other
- Rhythmic variation is stylistically informative

Rhythm

- Traditionally looks at isochronous units
 - Rhythm Class Hypothesis: language is made of up rhythmically isochronous units (Pike 1946), (Abercrombie 1965)
 - Stress-timing (the interval between two stressed syllables is equal) vs. syllable-timing (the duration of every syllable is equal)
- In sociolinguistics:
 - Prosodic Rhythm (i.e. syllable- vs. stress-timing), as captured by the Pairwise Variability Index (Grabe and Low 2002)
 - Dialect feature: Thomas and Carter (2006), Coggshall (2008), Szakay (2008), Torgersen and Szakay (2008)
 - Stylistic feature: Carter (2005), Callier (2011)

Rhythm in Music





Rhythm

- Rhythm is a multi-layered phenomenon comprised of many elements
- Though PVI is informative, looking at some of these rhythmic elements can illuminate patterns obscured by PVI
- In this study we look at the speakers' uses of:
 - Accents
 - Pauses

- We propose to study rhythm on the **IP level**
- At the IP level, we propose to look for **rhythmic patterns** as opposed to e.g. computing the Pairwise Variability Index (PVI, Low and Grabe 1995)
 - PVI as a measurement might be informative, but less informative than rhythmic patterns
 - PVI [2 4 2 4 2 4] = PVI [8 16 8 16 8 16]
 - PVI [2 4 8 16] = PVI [16 8 4 2]

A study of rhythmic patterns on the IP level faces two further methodological problems:

- a. IP identification
- b. rhythm characterization

General strategy: agreement between two annotators, decisions rooted in a thorough examination of a number of parameters

Parameters considered in **IP identification**:

- pitch contour
- pauses
- accents
- correspondence to clauses

Parameters considered in **rhythm characterization**:

- accents (pitch, relative duration, intensity)
- pauses: IP-internal (relatively short, clause-internal, bearing an articulatory cue, e.g., glottalized pauses, pauses preceding an emphatically accented syllable) vs. IP-external

Default assumption: IPs with one prominent accent and no internal pauses that correspond to clauses are unmarked

A taste of rhythmic variation

Judy

- (1) "All sixth, we had so much fun"
- (2) "Damn, we did some crazy shit"

Melody

- (3) "We used to have so much fun"
- (4) "She was my first friend"

Results

• Quick statistical observations:

	Judy	Melody
# IPs	84	109
Average # sylls / IP	5.583	5.983
Average IP duration	1089.046	1087.87
Average speech rate	5.046 sylls/s	5.384 sylls/s
% Rising IPs	25% (21 of 84)	8.257% (9 of 109)
Pitch St Dev	32.224	31.367

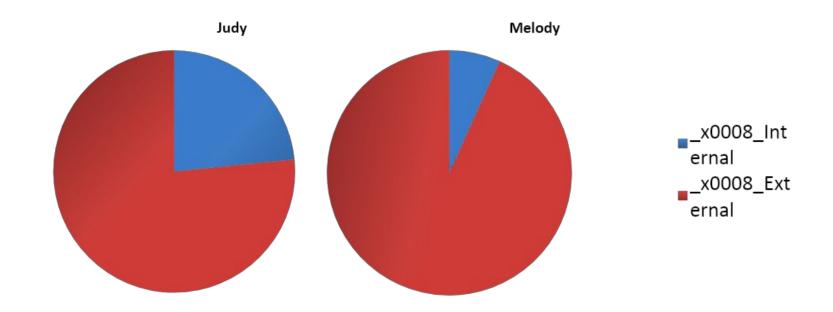
Results - PVI

	Judy	Melody
PVI	0.626	0.583

- Linear regression in R using lme4 (Bates et al. 2011)
- Factors: speaker, IP-duration, # sylls in IP

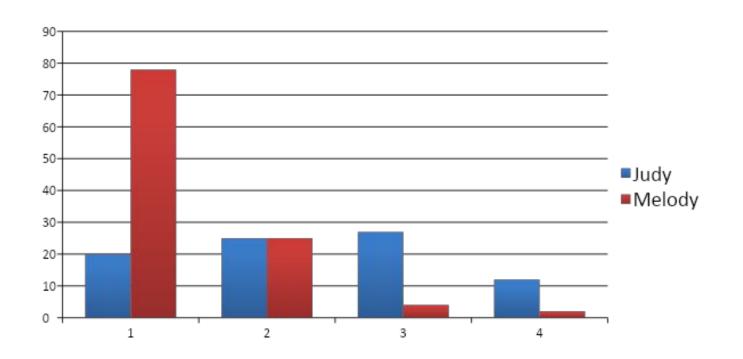
	Estimate	Significance
Speaker	-0.043	n.s.
Duration	-0.009	n.s.
# sylls	0.001	n.s.

Results - Pauses



• Judy has more internal pauses than Melody (***)

Results - Accents



Results - Accents

- Linear regression in R using lme4 (Bates et al. 2011)
- Factors: speaker, rising/falling, IP duration, number of syllables

	Estimate	Significance
Speaker (Melody)	-0.873	***
Rising/Falling	0.124	n.s.
IP Duration	0.001	***
# Syllables	0.011	n.s.

Rhythmic variation

Though **PVI** difference is **not significant**, Judy and Melody show **highly significant** differences in their use of **accents** and **pauses**!

Judy

- a. variation in duration and pitch (hence, different accents)
- b. IP internal pauses
- c. the majority of IPs have multiple accents

Melody

- a. less variation in duration and pitch (overall, more monotone)
- b. less IP-internal pauses
- c. less IPs with multiple accents

Judy's IPs are marked, Melody's IPs are unmarked

Statistical facts above are not unrelated – together they reflect two different rhythmic strategies Judy and Melody use

Rhythmic patterns: Judy

$$[(x_{]_{IP}} \lor (x_x_x)_{IP}]_{clause,}$$

where x is a stressed syllable, _ is a sequence of unstressed syllables, V is an optional short (often glottalized) pause. The first IP is often pronounced in a creaky or breathy voice.

- 1. $[(All \ sixth)_{IP} \ \lor \ (we \ had \ so \ much \ fun)_{IP}]_{clause}$
- 2. $[(Damn)_{IP} \lor (we \text{ did some } crazy \text{ shit})_{IP}]_{clause}$
- 3. $[(\mathbf{Oh} \ \mathbf{my} \ \mathbf{God})_{\mathrm{IP}}]_{\mathrm{clause}}$

The pattern above is not the only pattern Judy uses, and it is not always fully realized, but it prevails.

Disfluencies?

1. "We **uh** dressed up as sardines you know"

2. "We, we got arrested before"

$$[(x_{l})_{lP}] V(x_{l}x_{l}x_{l})_{lP}]_{clause}$$

- 1. $[(All sixth)_{IP} \lor (we had so much fun)_{IP}]_{clause}$
- 2. $[(\mathbf{Damn})_{IP} \lor (\mathbf{we} \text{ did some } \mathbf{crazy } \mathbf{shit})_{IP}]_{clause}$

3. $[(We uh)_{IP} \lor (dressed up as sardines you know)_{IP}]_{clause}$

4. $[(We)_{IP} \lor (we got arrested before)_{IP}]_{clause}$

Disfluencies are not (always) disfluencies – they can be part of the rhythmic patterns!

Rhythmic patterns: Melody

Melody's accents reflect the Information Structure

- 1. "She was my first_{FOC} friend"
- 2. Penny: "Do you think that you'll keep a lot of your high school friends after you graduate?"

Melody: "Not a lot_{FOC} . I'm pretty $sure_{FOC}$ I'll keep $Karen_{FOC}$. In $fact_{FOC}$, I'm almost positive I will FOC. Um, probably $Bessie_{FOC}$ too. ..."

Rhythmic variation is stylistically informative

- Judy and Melody use distinct rhythmic patterns
- Judy's patterns are less canonical than Melody's patterns
- Judy's patterns have multiple accents that are dramatic and diverse in nature
- Melody's accent placement is driven by the Information Structure pressures
- Judy's patterns can be perceived as being more "expressive", whereas Melody's patterns can be viewed as more "interactive"

Экспрессивные указательные местоимения

Acton and Potts, 2013; Potts, 2013

До Трампа: Sarah Palin

"Americans are cravin' that straight talk"

Бурная реакция на ее речь

FoxNews.com:

- "We feel like she talks like we do."
- "She talked like real people to real people"

Huffington Post:

- "illusion of straight-talking"
- "pseudo-folksiness and fundamental dishonesty"

Acton and Potts, 2013; Potts, 2013

Дебаты 2008

Joe Biden, Palin's opponent:

"We should be helping them build schools to compete for those hearts and minds of the people in the region"

И все, все, все:

• В полиции: make that phone call right now

• Стюард(ecca): get those bags under that seat in front of you

• Инструктор йоги: get that left arm up over that head

Acton and Potts, 2013; Potts, 2013

Экспрессивные употребления указательных местоимений

- давно известны лингвистам
- есть и в русском:
 - Смех смехом, а в полицию уже обратилось более двадцати горожан, которые уверяют, что после встречи с этим "похитителем человеческих душ" (так окрестили маньяка журналисты) у них чего-то не хватает. Ох, и мнительные эти американцы! У нас бы на такого маньяка народ молился. Лос-анджелесская полиция злоумышленника усиленно разыскивает, но пока безуспешно. [Похититель душ // «Криминальная хроника», 2003.06.24]
 - эти дети мне уже надоели
 - Уберите уже эти ноги из прохода!

Корпусный подход

Эти утверждения импрессионистические

Можем ли мы их квантифицировать?



```
Confession: I bought a case of beer, now I'm watching a South Park
            marathon while getting drunk :P
 Reactions: Sorry, hugs: 2; You rock: 3; Teehee: 2, I understand: 3;
             Wow, just wow: 0
Confession: subconsciously, I constantly narrate my own life in my head. in
            third person. in a british accent. Insane? Probably
 Reactions: Sorry, hugs: 0; You rock: 7; Teehee: 8; I understand: 0;
             Wow, just wow: 1
Confession: I really hate being shy . . . I just want to be able to talk to some-
            one about anything and everything and be myself... That's all
            I've ever wanted.
 Reactions: Sorry, hugs: 1; You rock: 1; Teehee: 2; I understand: 10;
             Wow, just wow: 0;
```

10 Reactions











Figure: EP reaction icons.

Sorry, hugs sympathy

You rock cheering, supportive

Teehee amused

I understand solitary

Wow, just wow shock

Table: Interpreting the icons.

		Category	Reactions	
		Sorry, hugs	91,222 (22%)	
		You rock	80,798 (19%)	
Texts	140,467	Teehee	59,597 (14%)	
Words	21,518,718	I understand	125,026 (30%)	
Vocab		Wow, just wow	60,952 (15%)	
Mean words/text	153.19	Total	417,595	

⁽a) The overall size of the corpus.

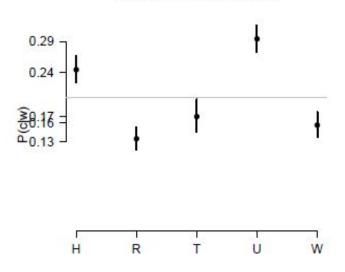
(b) All reactions.

Table: In general, reader reactions are sympathetic and supportive.

Считаем и изображаем

Cat.	Count	Total	$Pr_{EP}(w r)$	$Pr_{EP}(r w)$
Sorry, hugs	1167	18038374	0.00006	0.26
You rock	520	14066087	0.00004	0.15
Teehee	300	8167037	0.00004	0.15
I understand	1488	20466744	0.00007	0.29
Wow, just wow	473	12550603	0.00004	0.15

disappointed - 1,070 tokens



Acton and Potts, 2013; Potts, 2013

Указательные местоимения

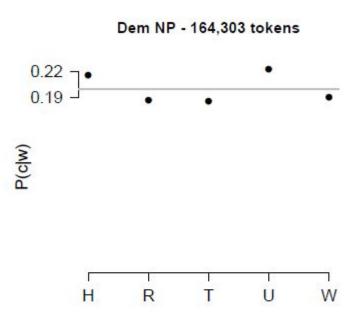


Figure: All determiner demonstratives in the EP data.

Примеры: слова, вызывающие симпатию

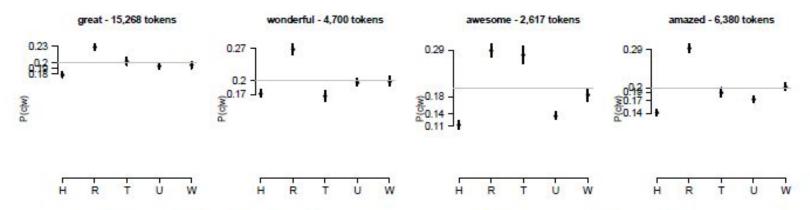


Figure: Words eliciting predominantly 'you rock' reactions.

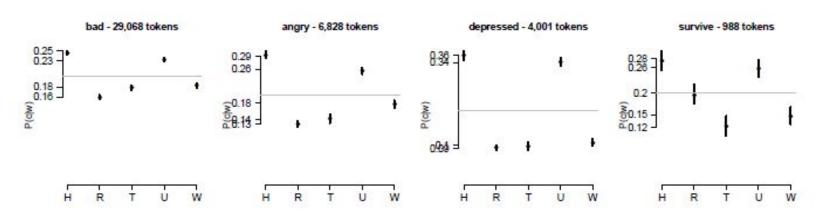


Figure: Words eliciting sympathetic reactions.

- Что же особенного в употреблении указательных местоимений у Palin?
- 16 интервью Palin на шоу
- + интервью до и после нее
- всего 48 интервью

Квантитативный анализ

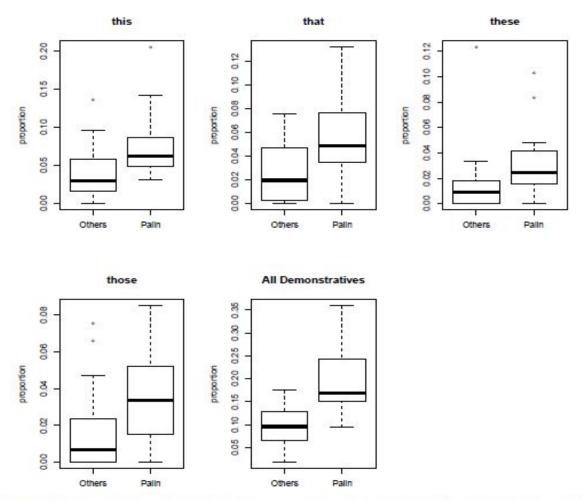


Figure: Non-pronominal dems. as a proportion of all determiners.

Полярные мнения – почему?

FoxNews.com:

- "We feel like she talks like we do."
- "She talked like real people to real people"

Huffington Post:

- "illusion of straight-talking"
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Acton and Potts, 2013; Potts, 2013

Свойскость

Указательные местоимения в непрямом значении создают эффект солидарности, свойскости (термин восходит к лекциям Сандро Васильевича Кодзасова, мой перевод для solidarity из анализа статьи)

Проявления свойскости **уместны при совпадении отношения к сообщаемому, мнений**

При несовпадении эффект обратный: навязанной солидарности, навязанной солидарности, навязанной роктя, 2013; Potts, 2013 близости мнений, отношения к

Language Attitudes

The Matched Guise Technique

Жанровые схемы

Пропп, В. Я. Морфология сказки. Л., Academia. 1928.

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 <u>the multi-layered nature of rhythmic style</u>, *University of Pennsylvania Working Papers in Linguistics*: Vol. 20: Iss. 2, Article
 3.
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