# Introduction to Linguistics:

fundamental concepts and sociolinguistics

Robert Borges

### Welcome

- Today
  - Part I: fundamental concepts
  - Part II: sociolinguistics and variation
- Goals
  - acquaint you with terminology and concepts
    - attempting to be theory neutral
    - hope: discussion will be stimulating and you will be able to integrate something in your work
  - keep it fun and interesting

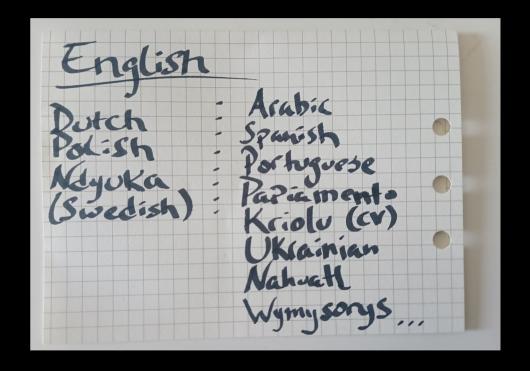


## Let's get to know each other

- me
  - specialty 1: 'language contact' and multilingualism
    - PhD: 2014 Dynamics of Language Contact in Suriname Linguistics -- Radboud University Nijmegen (NL)
  - specialty 2: research engineering
    - self-taught → corpus linguistics / handling data
    - current: SWERIK

## Let's get to know each other

- Language "name tags"
  - mother/father tongue
  - languages you can speak
  - languages you studied, know something about, and /or plan to work with
  - (to help me keep things interesting)



#### Part I: Fundamental Concepts

## <u>Coverage</u>

- phonetics
- phonology
- orthography
- morphology
- syntax
- semantics

## Coverage

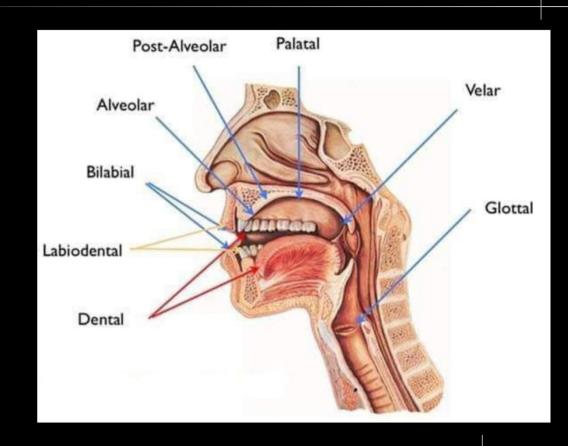
- phonetics: physical speech sounds
- phonology: conceptual speech sounds
- orthography: writing conventions
- morphology: components of word forms
- syntax: order of words and constituents
- semantics: meaning

## Discussion

What is language?

- Articulatory phonetics:

   study of how speech
   sounds are produced in
   the vocal tract
  - consonants:
    - place
    - manner
    - voice
  - vowels
    - vertical
    - horizontal
    - (nasal, aperture)



Articulatory phonetics:

 study of how speech
 sounds are produced in
 the vocal tract
 Try it:

- consonants:

place

manner

voice

tata

mama dada

kaka

lala fafa

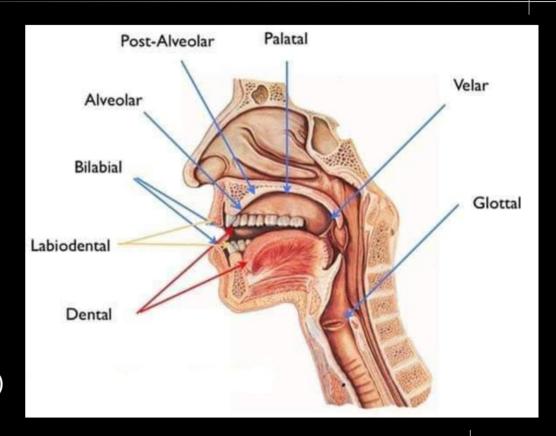
vowels

vertical

say "ah" (@ dr) say "cheese"

horizontal

(nasal, aperture)



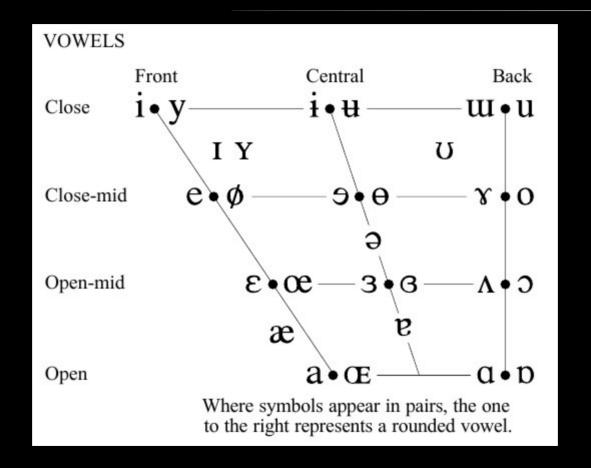
#### THE INTERNATIONAL PHONETIC ALPHABET (revised to 2015)

CONSONANTS (PULMONIC)

© 2015 IPA

	Bila	abial	Labio	dental	Den	ntal	Alveo	olar	Postalv	eolar	Retro	oflex	Pal	atal	Ve	elar	Uv	ular	Phary	ngeal	Glo	ttal
Plosive	p	b					t	d			t	d	С	Ŧ	k	g	q	G			3	
Nasal		m		m				n				η		ŋ		ŋ		N				
Trill		В						r										R				
Tap or Flap				V				ſ				t										
Fricative	ф	β	f	v	θ	ð	S	Z	ſ	3	ş	Z <sub>L</sub>	ç	j	X	γ	χ	R	ħ	ſ	h	ĥ
Lateral fricative							1	lξ														
Approximant				υ				Ţ				Į.		j		щ						
Lateral approximant								1				l		λ		L						

Symbols to the right in a cell are voiced, to the left are voiceless. Shaded areas denote articulations judged impossible.



#### THE INTERNATIONAL PHONETIC ALPHABET (revised to 2015)

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© 2015 IPA

	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retro	oflex	Palatal	1	/elar	Uv	ular	Phary	ngeal	Glottal
Plosive	рb			t d		t	d	СЭ	k	g	q	G			3
Nasal	m	m		n			η	ŋ		ŋ		N			
Trill	В			r								R			
Tap or Flap		V		ſ			t								
Fricative	φβ	f v	θδ	s z	∫ 3	ş	Z <sub>t</sub>	çj	Х	γ	χ	R	ħ	ſ	h fi
Lateral fricative				1 <u>1</u> 3											
Approximant		υ		Ţ			ŀ	j		щ					
Lateral approximant				1			l	Λ		L					

Symbols to the right in a cell are voiced, to the left are voiceless. Shaded areas denote articulations judged impossible.

#### CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
O Bilabial	6 Bilabial	• Examples:
Dental	d Dental/alveolar	p' Bilabial
(Post)alveolar	f Palatal	t' Dental/alveolar
+ Palatoalveolar	g Velar	k' Velar
Alveolar lateral	G Uvular	S' Alveolar fricative

#### OTHER SYMBOLS

C Z Alveolo-palatal fricatives W Voiced labial-velar approximant J Voiced alveolar lateral flap

U Voiced labial-palatal approximant h Simultaneous and X

H Voiceless epiglottal fricative

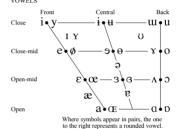
Yoiced epiglottal fricative P Epiglottal plosive

Affricates and double articulations can be represented by two symbols ioined by a tie bar if necessary.

#### DIACRITICS Some diacritics may be placed above a symbol with a descender, e.g. $\check{\Pi}$

		may be proceed about			
Voiceless	ņ ģ	Breathy voiced	b a	Dental t	ď
Voiced	ş ţ	~ Creaky voiced	b a	_ Apical _ t	d
h Aspirated	th dh	_ Linguolabial	ţ d	Laminal t	d
More rounded	Ş	W Labialized	tw dw	~ Nasalized	ẽ
Less rounded	Ş	j <sub>Palatalized</sub>	t <sup>j</sup> d <sup>j</sup>	n <sub>Nasal release</sub>	dn
Advanced	ų	Y Velarized	t <sup>y</sup> d <sup>y</sup>	1 Lateral release	dl
Retracted	<u>e</u>	§ Pharyngealized	t <sup>s</sup> d <sup>s</sup>	No audible release	ď
Centralized	ë	~ Velarized or phary	yngealized	ł	
× Mid-centralized	ě	Raised	e (1 =	voiced alveolar fricative)	
Syllabic	ņ	Lowered	<b>e</b> (β=	voiced bilabial approxima	ıt)
Non-syllabic	ĕ	Advanced Tongue	Root e		
<sup>1</sup> Rhoticity	or ar	Retracted Tongue	Root e		

#### VOWELS



#### SUPRASEGMENTALS

Primary stress foune tr[en Secondary stress Long ' Half-long e' Extra-short ĕ Minor (foot) group Major (intonation) group . Syllable break .ii.ækt

#### Linking (absence of a break) TONES AND WORD ACCENTS

CONTOUR LEVEL ě or / Rising ê V Falling / Low rising ề d Rising-✓ Global rise ↑ <sub>Upstep</sub>

✓ Global fall

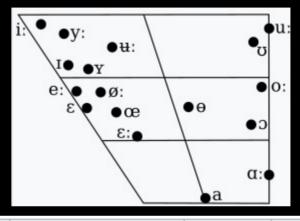
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- The study of
  - categorical delimitation of speech sounds
  - interaction of categorical speech sounds
  - categorical organization of speech sounds

## Phonology

### Delimitation, inventories

		Labial	Dental/ Alveolar	Palatal	Velar	Glottal
Nasal		m	n		ŋ	
Plosive	voiceless	р	t		k	
Piosive	voiced	b	d		g	
Frica	ative	f	S	6	Ŋ	h
Approximant		V	1	j		
Rh	otic					



		Fro	ont		Cent	tral	Back		
	unrounded		roun	ded	Cen	Lrai	Back		
	short	long	short	long	short	long	short	long	
Close	I	i:	Υ	y:		<del>u</del> :	σ	u:	
Close-mid	е	e:		ø:	θ			o:	
Open-mid	3	:3	œ				Э		
Open					a			α:	

## Phonology

### Delimitation, inventories

Tamazight vowel phonemes<sup>[60]</sup>

	Front	Central	Back
Close	i		u
Open		a	

			Tamazight	consonal	nts (Ay	t Ayache)	[57][58]			
	Labial	А	Alveolar		1	/elar	U	vular	Dhanmaaal3	Classal3
	Labiai	plain	pharyngeal	Palatai	plain	labialized	plain	labialized	Pnaryngeai	Glottal <sup>3</sup>
sal	m	n	n <sup>r</sup>							
voiceless		th	t <sup>ç</sup>		k <sup>1</sup>		q	qw		
voiced	b	d	d <sup>ç</sup>		g <sup>1</sup>					
voiceless	f	S	S <sup>r</sup>	ſ	(x)	Xw	χ	(X <sub>w</sub> )	ħ	h
voiced		Z	Z <sup>ς</sup>	3	(y)	γw	R	(R <sub>M</sub> )	٢	
Approximant		I	l2	j		w				
Trill		r	rs							
	voiceless voiceless voiced imant	voiceless voiced b voiceless f voiced imant	Labial plain  sal m n  voiceless th  voiced b d  voiceless f s  voiced z  imant l	Alveolar           Labial         plain         pharyngeal           sal         m         n         n <sup>r</sup> voiceless         th         t <sup>r</sup> voiced         b         d         d <sup>r</sup> voiceless         f         s         s <sup>r</sup> voiced         z         z <sup>r</sup> imant         l         l <sup>r</sup>	Alveolar           Labial         plain         pharyngeal           sal         m         n         n <sup>c</sup> voiceless         th         t <sup>c</sup> voiced         b         d         d <sup>c</sup> voiceless         f         s         s <sup>c</sup> s           voiced         z         z <sup>c</sup> 3           imant         l         l <sup>c</sup> j	Alveolar           Labial         plain         pharyngeal         plain           sal         m         n         n°           voiceless         th         t°         k¹           voiced         b         d         d°         g¹           voiceless         f         s         s°         ∫         (x)           voiced         z         z°         3         (y)           imant         l         l°         j	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

 Minimal pairs, minimally contrastive words, usually a kind of litmus test for whether a sound is a phoneme or not.

Let's test out the concepts...

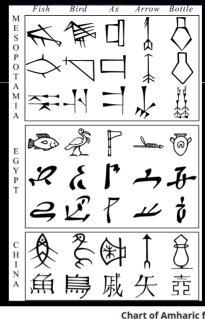
- Same thing only different...allophones and variants
  - one conceptual sound different physical realizations
  - English stop allophones
    - spin and pin
    - stop and top
  - Spanish /b/
    - vino 'wine' ['bino] or ['vino] ("free" variation)
    - haber 'to have' ['aβεr]

- possible arrangement of sounds
  - Hawaiian
    - humuhumunukunukuapua`a 'reef tiger fish'
    - maximal syllable structure: CV
  - Polish
    - W Szczebrzeszynie chrząszcz brzmi w trzcinie 'In Szczebrzeszyn the beetle buzzes in the reeds'
    - wszczniesz 'you will start', bezwzględny 'ruthless'
    - maximal syllable: CCCCVCCC(C)

#### Polish

- wszczniesz 'you will start'
- CCCCVCCC(C) maximal syllable
- [ 'fʃcηεʃ ] / 'fʃcηεʃ /

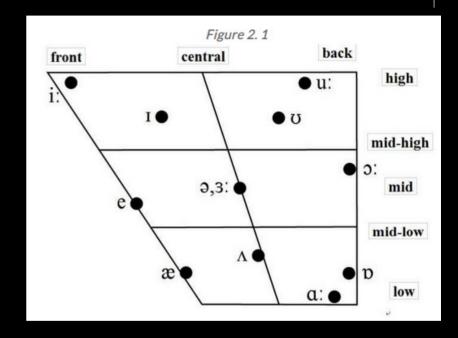
- Types of orthographies
  - logographic:
    - 'pictograms' represent words/words/phrases/concepts
    - Egyptian hieroglyphics, Chinese writing
  - syllabic:
    - symbol represents a syllable
    - Japanese, Amharic
  - alphabetic
    - symbol represents a "sound"



					Ch	art of A	mharic f	idäls <sup>[48]</sup>
		ä/e [ə]	u	i	а	ē	a [i], ∅	0
h	/h/	U	Մ	ሂ	У	K	ህ	ľ
1	/1/	٨	٨	ሊ	٨	٨	۵	ሎ
ḥ	/h/	Ψ	ሑ	ሒ	ሓ	ሔ	ሕ	Ψ
m	/m/	m	ሙ	ሚ	ஏ	ሚ	ም	ሞ
ś	/s/	W	ሙ	ሢ	ч	ų	س	ሦ
r	/r/	7	4	ሪ	6	6	C	C

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- English vowels
  - a e i o u, and sometimes y
  - some rules, e.g.:
    - final <e> makes penultimate vowel long
    - rat, rate
  - some chaos
    - polish, Polish
    - bass, bass

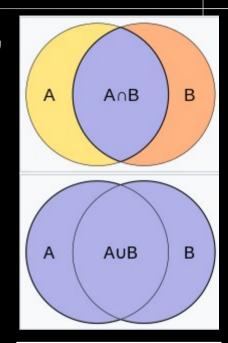






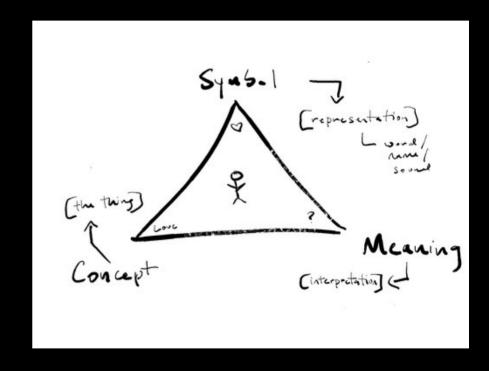


- mapping of character to sound is arbitrary, differs from language to language
- bad science example
  - estimate difference between two languages based on Jaccard distance of parallel texts
  - discussion: Why bad?
    - How to make it better?



$$J(A,B) = rac{|A \cap B|}{|A \cup B|}$$

- simple semantics
  - word <--> concept
     (sign) (signified)
  - works b/c of implicit social agreement (meaning)





- Semantic primes and semantic molecules
  - essential (universal) concepts that can't be broken into other componential concepts
  - 'root of the tree'
- taxonomy
  - hierarchical organization of related concepts
- components
  - defining sub-concepts that distinguish macro concept
- languages vary widely in how related concepts are organized

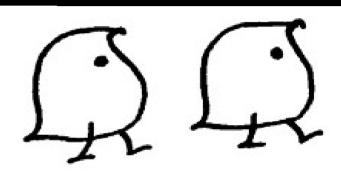
- Exercise:
  - (folk) taxonomy
    - types of plants
  - componential analysis
    - man & woman types of human

- Formal composition of word forms, often:
  - schematic
  - paradigmatic
- morpheme
  - smallest



THIS IS A WUG.

meaningful unit



NOW THERE IS ANOTHER ONE.

THERE ARE TWO OF THEM.

THERE ARE TWO \_\_\_\_\_.















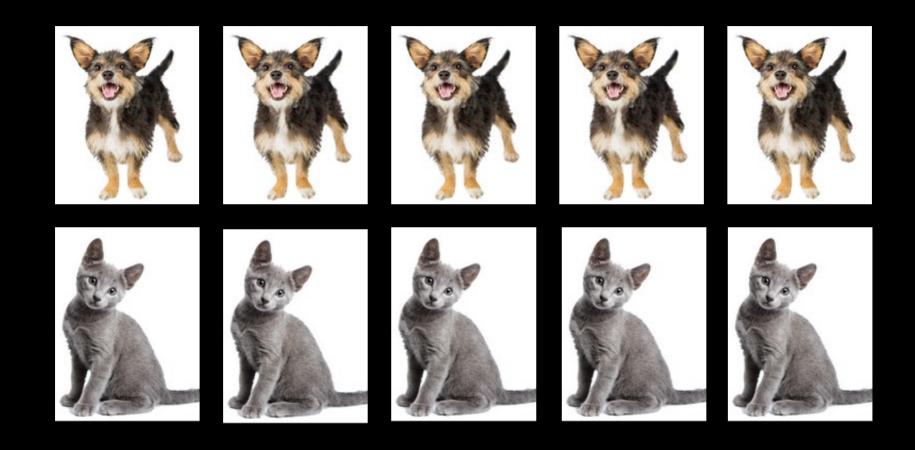












## <u> Words 2 – morphology</u>

- types of morphemes (forms):
  - prefix: before
  - suffix: after
  - circumfix: before+after
  - infix: inserted abso-\_\_\_?\_\_-lutely
  - apophony(non-concatinative morphology)
    - ablaut: *man-men, sing-sang-sung*
    - transfixation transfixes

Word	Gloss	Alternation pattern
kataba	'he wrote'	(a - a - a)
k <b>u</b> t <b>i</b> b <b>a</b>	'it was written'	(u - i - a)
yaktubu	'he writes'	(ya - ∅ - u - u)
yuktabu	'it is written'	(yu - ∅ - a - u)
k <b>aa</b> tib	'writing (active participle); writer'	(aa - i)
k <b>u</b> t <b>taa</b> b	'writers'	(u - :aa)
maktuub	'written'	(ma - Ø - uu)
kitaabah	'(act of) writing'	(i - aa - ah)
kitaab	'book'	(i - aa)
kutub	'books'	(u - u)
kaataba	'he corresponded with'	(aa - a - a)
kattaba	'he caused to write'	(a - :a - a)
kuttiba	'he was caused to write'	(u - :i - a)

- types of morphology (function)
  - inflectional morphology
    - situates word in grammatical context no change to lexical semantics, typically:
      - plural, definiteness, gender, case
      - constituent agreement: duż<u>a</u> piłka<sup>(f)</sup> duż<u>y</u> samochód<sup>(m)</sup>
      - argument indexing (conjugation), tense-moodaspect, valency altering operations
    - languages differ widely in
      - what grammatical categories are encoded
      - how they are encoded (form, category to form mapping)
  - discussion: differences in grammatical categories



- Types of morphology (function), cont'd...
  - derivational morphology
    - create derivative words
      - altered lexical semantics
        - happy → <u>un</u>happy
      - change of lexical category
        - happy (adj) → happiness (n)
        - quick (adj) → quickly (adv)
        - dust (n) → dusty (adj)
        - run (v) → runn<u>er</u> (n)
        - walk  $(v) \rightarrow walk (n)$
      - composite concept
        - football, cupcake, etc



### Words 3 – lexical categories

- i.e. parts of speech
  - languages differ in the categorization of words
  - noun-verb distinction "universal"
    - how to distinguish? (hint: NO semantics)
  - other parts of speech differ per language
    - Do all languages have adjectives?
    - Do all languages have adpositions?

ofal RELC Akutu ſné petlatl miston. ī-pan REL orange has sweetness 'sweet orange(s)'. its-on the mat cat wòrè n-ataale ſné Ama bo onil RELC PRES.wear PL-dress REL Name has hardness "The cat is on the mat." 'Ama wears expensive dresses.

Ansa 2014

### Putting it all together – syntax

- I eat. Subj.-Verb
- I eat breakfast.
   Subj.-Verb-Obj.
- I run. Subj.-Verb
- I run to the station. Subj.-Verb-compl. (PP)
- \*I run the station. Subj.-Verb-Obj.
- My run was exhausting. Subj.-Verb-compl

### Putting it all together — syntax

- I lend you money. Subj.-Verb.-iO-dO
- English: red ball \*ball red
- Port. bola vermelha \*vermelha bola
- (\*)Throw me down the stairs my shoes.

### Putting it all together – syntax

- Ik schopte een hond. Subj.-Verb-Obj.
- Gisteren schopte ik een hond. ??
- Toen ik een jongen was, schopte ik een hond.

What is basic word order in Dutch?

### Putting it all together – syntax

- Rzucam ci piłkę.
  - Piłkę ci rzucam.
  - Ci piłkę rzucam.
- Piłka jest czerwona. 'The ball is red.'
- Ty jesteś osobą.

- 'I throw you the ball.'
- 'I throw you the ball.'
  - 'I throw you the ball.'

  - 'You are a person.'

# Epilogue



## <u>Epilogue</u>

- Where to go from here?
  - pragmatics lexical
     semantics + formal logic
     + set theory + situational
     awareness
  - conceptual metaphors
  - linguistic anthropology: language-culturethought





In Spanish, attention is something you "lend", because you kind of want it back. In French you "make" it, because it's not there if you don't. In English you "pay" it, because it's valuable. And in German you "gift" it, because it's really a present. I wish I knew all languages!

#### Part II: Sociolinguistics and Variation

- "dialectology" (dialect can be a dirty word)
- Quite visible/audible, even to non-specialists
- long tradition
  - lots of (older) literature on English (UK) dialects
  - world Englishes, thx to the Empire
  - Swedish, Danish, German...
    - studies on many languages
- What do we know about Swedish regionalisms?

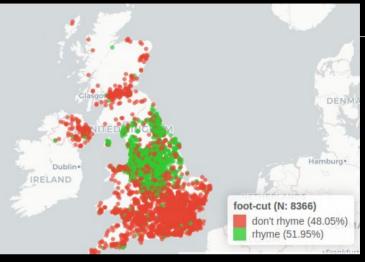
#### Swedish

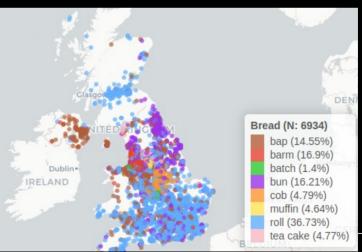
- Mälmo: <r> == uvular fricative == [k]
  - (the French 'R')
- Västerås: "whiny"
- Stockholm / Uppland: creaky vowels (posh?)
- Umeå: "whoop" == yes
- Finland: monotone syllable machine gun

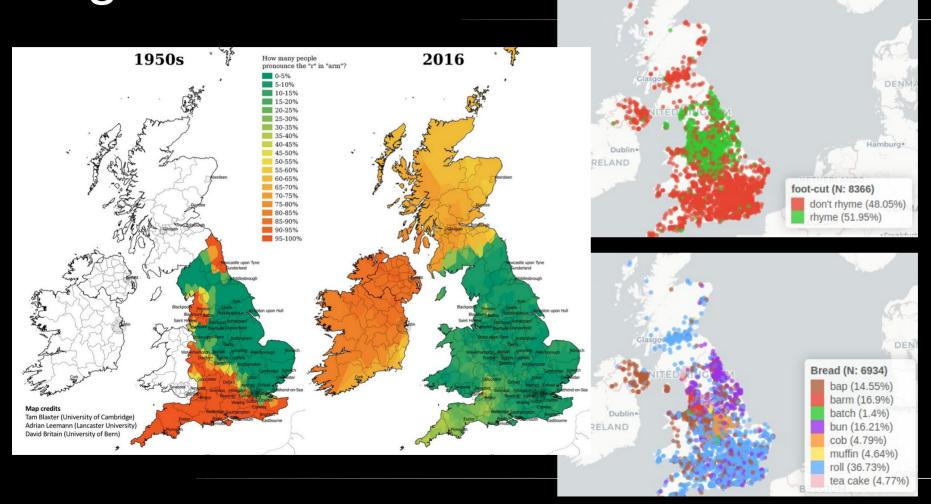
What about German?

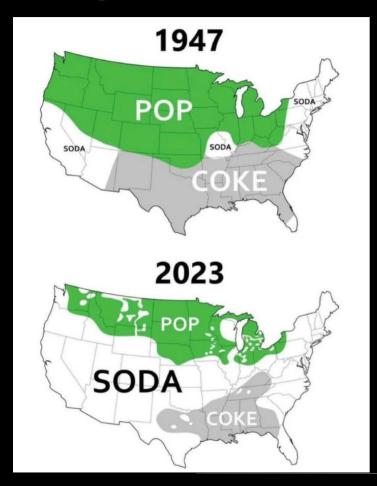


- Tendency to target
  - phonetic / phonological features
  - lexical feature
- In theory, anything
  - morphology
  - syntax
  - whatever...











- Maryland / Washington DC area
  - "might could"
     I might could google that for you.
     Let me google that for you.
- Dutch in Suriname
  - less-strict V2 syntax → SVO
    - EU: Gisteren ging ik naar school.
    - SU: Gisteren ik ging naar school.

- Classical dialectology & NORM bias
  - Non-mobile, Older, Rural, Male
- Cue application of variationist principles across <u>social</u> space
- Two studies by Labov set the stage for modern sociolinguistics
  - NYC dept. store (1966) Social stratification of English in NYC
  - Martha's Vinyard (1972) Social motivation of sound change
- General observations
  - variation operates across social space like geographical space
  - individual's ideas about where they belong in social space are also relevant

- All kinds of top-down social categories explored as correlates of linguistic variation
  - socio-economic status
  - education level
  - ethnicity / race
  - gender
  - sexual orientation, etc...

- Broad social categories are not always meaningful at an individual level
- Cue what activities do you do you do and what company do you keep?
  - jock or burnout?
  - sk8er boi or ballerina?
  - PhD student or trade-school graduate?
- New-wave hypothesis: emic identity related to Communities of Practice is a better explanatory mechanism / predictor of variants

- The question is:
  - variation because of group membership?
    - Wave 2
    - passive individuals
  - variation as an index of group membership?
    - Wave 3
    - individuals are active agents of variation in order to mark their identity with variants associated with whatever identity.

- Discussion:
  - What are you all thinking?
  - Does it relate to what you're doing / what you want to do in any way?
  - questions?

- Discussion:
  - What are you all thinking?
  - Does it relate to what you're doing / what you want to do in any way?
  - questions?
- https://www.youtube.com/watch?v=x2quIhxCEmc

### Situational variation

- In all interactional contexts, participants have roles defined by the context, which also dictates linguistic behavior
  - most obvious in formal situations
  - violation of norms: ignorance or statement?examples....

### Situational variation

- examples
  - Omar in court the Wire https://www.youtube.com/watch?v=44JL1luLfE0 t=30s
  - Taystee in court OITNB s06e12 19m from end
  - Horsemouth and Joe Gibbs Rockers
    - https://www.youtube.com/watch?v=DoTZiky0nBo 17:20
  - Horsmouth applies for a job 26:20

### Situational variation

- Situation → doc type
- Apply this to your documents:
  - special formats
  - jargon / specialized vocabulary
  - potential consequences in analyses?

### <u>Wrapping up</u>

- Linguistics POV, How to understand a text?
  - complex, multidimensional endeavor
    - forms and structures create layers of meaning
    - social background of participants adds a layer
      - broad overarching categories
      - narrow emic identities
    - participants' agency in
      - indexing identities
      - indexing relative social roles

## Wrapping up

- Open to questions and further discussion
- be in touch
  - robert.borges@statistik.uu.se