Microvariation in stop realization as a regional feature in Danish

Introduction

In addition to hosting interesting syntactic, morphological, and phonological variation, regional varieties also often host a stunning amount of phonetic variation. A pilot study (Puggaard 2018) showed this to be the case for /t/ in Jutlandic varieties of Danish with regards to Voice Onset Time and extent of affricated release. This poster reports on preliminary results of a subsequent large scale study on stop realization in Jutlandic varieties, so far focusing on differences in Voice Onset Time.

Conclusion & future directions

In spite of individual variation, there are clear patterns of **VOT being** regionally bound

Further work will include analyzing

- the interplay between VOT and affricated release
- how different stops are targeted by lenition in different dialects, and how this correlates with VOT

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Data	
Recordings are from the corpora of the Peter Skautrup Centre for Jutlandic Dialect Research, and the Copenhagen Department of Dialect Research.	The dec:
Recordings from 213 different	
parishes are used, recorded between 1971-1976.	long
Restored recordings available from	
the Royal Danish Library.	
50 aspirated stops / parish Mean 32.2 unasp. stops / parish	A m whe
(unstr. function words excluded)	trac
/p/ =1,386 /t/ =5,169 /k/ =4,095 /b/ =2,212 /d/ =2,369 /g/ =2,273	Asp
Gender	
• 164 male, 49 temale	/p
 Year of birth 1871-1927, median=1896 Age at time of recording	

• 45-101 years, mean=77.4 years

Findings

ere is a clear trend of VOT reasing from South to North:



nore complex pattern emerges en looking at mean VOT in ditional dialect areas:



Gabmap to a large extent finds the same two-way split for aspirated stops, but individual variation obscures further clustering

In addition to VOT, each token was coded for vocalic context, stress, palatalization

The data was fitted to a linear mixed effects model with the fixed effects dialect area, gender, vowel height, vowel roundedness, vowel backness, palatalization, stress, and stop, and the random effect parish (=speaker) with random slopes for [±aspiration]

All factors except gender had a significant influence on VOT at the p<.001 level. Post hoc testing with Tukey's HSD shows that the **contrasts between** the Southernmost dialect and the Northern dialects is particularly influential



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