What’s the /t/?

Comparing coronals in the speech of Danish drag queens

Nicolai Pharoa

Associate professor, ph.d., Department of Nordic Studies and linguistics, University of Copenhagen, Denmark
Email nicolai@hum.ku.dk

Why coronals?

/s/ production has been shown to differ between the sexes in many languages: female speakers tend to have higher spectral center of gravity in their productions of /s/ than male speakers (Flipsen et al. 1999). Other studies have shown that gay male speakers pattern like female speakers (Munson et al. 2006) and even that adolescent girls can pattern with adult male speakers (Stuart-Smith 2007). These studies suggest that differences in /s/ are not automatic consequences of vocal tract physiology, but can reflect gendered differences in articulation. The coronal stop /t/ is also included here because it is articulated in Copenhagen Danish, and has been shown to be involved in indexing gender in combination with /s/ in perceptual studies (Pharoa & Maegaard 2017).

Why drag queens?

Drag queens present an exaggerated image of femininity (Barret 1999, Calder 2019). In this way, speech in drag queen performance can be seen as a type of parodic performance of stereotypical speech, offering a possibility to study overt stylizations of (hyper)feminine speech (Coupland 2003). Therefore, studying variation in /s/ and /t/ in drag queen performance in Danish may tell us about the status of /s/ and /t/ as indexes of gender in the Danish speech community.

How drag queens?

Episodes of the afternoon talk radio show “Er du sunshine?” on the national Radio 24/7 were downloaded to obtain samples of spontaneous speech produced by drag queens from the collective Vesterbro Dragdjeplings-service (Vesterbro Drag Rental).

Data

Speakers: 4 drag queens, 4 straight female speakers, 4 straight male speakers, 5 gay male speakers in recordings from Radio 24/7.

20 tokens of /s/ and 20 tokens of (the affrication of) /t/ for each speaker.

Spectral moments were measured in Praat and modelled in R 3.5.1.

Results

Sibilants

|Classifier | Estimate Std. Error t value Pr(>|t|) |
|-----------|-------------------------------------|
| Intercept | 6207.38 112.0 55.419 <2e-16 *** |
| Gay men   | -22.99 151.4 -0.152 0.879 |
| Straight women | -251.57 158.9 -1.583 0.114 |

Figure 1: CART analysis for /s/: The text at each node splits the data. Speakers fulfilling the criterion move left in the tree, others move right.

|Classifier | Estimate Std. Error t value Pr(>|t|) |
|-----------|-------------------------------------|
| Intercept | 5207.0 125.1 41.639 <2e-16 *** |
| Gay men   | 150.6 194.5 0.774 0.439 |
| Straight women | 788.1 175.7 4.484 1.03e-05 *** |

Figure 2: CART analysis for /t/: The text at each node splits the data. Speakers fulfilling the criterion move left in the tree, others move right.

A closer look

The 4 drag queens from Vesterbro Dragdjeplings-service in the radio show articulate /s/ in a manner similar to straight women and gay men with higher spectral CoG as compared to straight men (figure 1 and model summary).

But the spectral CoG of their /t/ is the same on average as the straight men (figure 2 and model summary) and different from that of the straight women and gay men. As shown in figure 3, this pattern for /s/ and /t/ hold for all 4 of the drag queens studied here.

This suggests that they are exploiting the contrast between /s/ and /t/ in their performance of hyperfemininity: by producing male gender conforming /t/, their use of gender non-conforming /s/ arguably becomes more salient in their drag queen performance.

Figure 3: Distribution of spectral CoG for /s/ and /t/ in drag queens

The pattern supports the notion that /s/ is the stereotypical index of femininity in Danish.

Together with results from perceptual studies of /s/ and /t/ variation in other groups of speakers in Copenhagen (Pharoa & Maegaard 2018, Lilleveld-Holst, Pharoa & Maegaard forthcoming), these results show that the co-occurrence of variants in the speech stream may help to shape the path through the indexical field.

References


