

# Speech Science

WiSe 2023

## Exercise 10: Speech Perception

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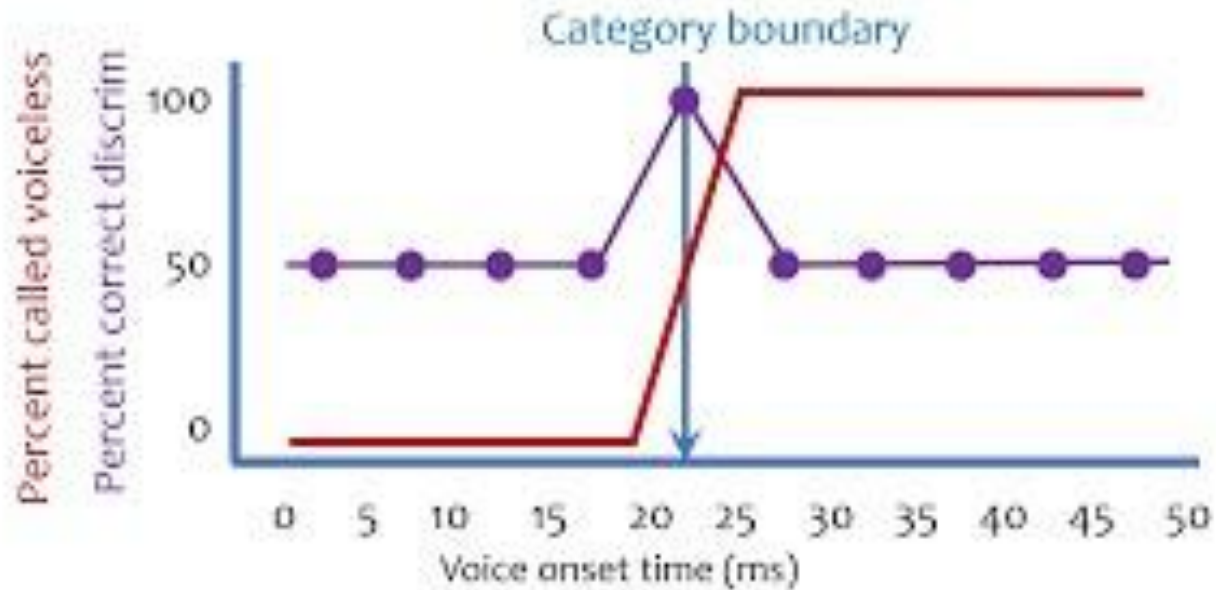
Language Science and Technology  
Saarland University





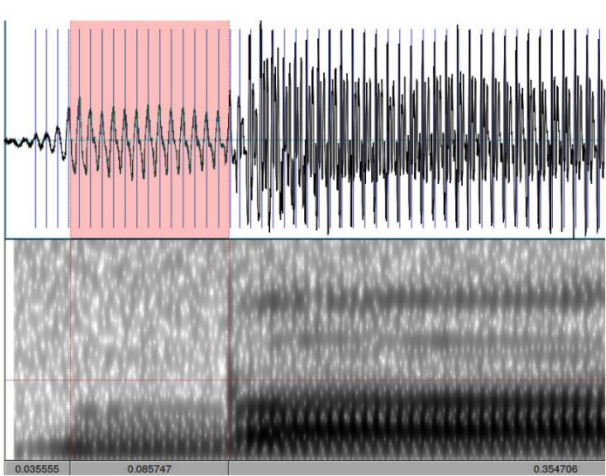
<https://www.youtube.com/watch?v=8-fMLs-xCaA>

## Categorical Perception



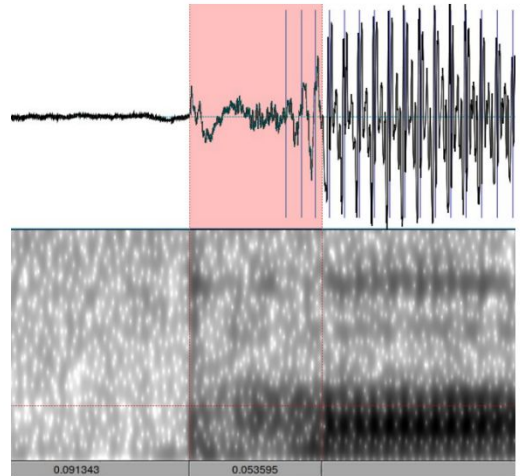
<https://www.youtube.com/watch?v=nNYhCP6NiUg>

# Measuring VOT



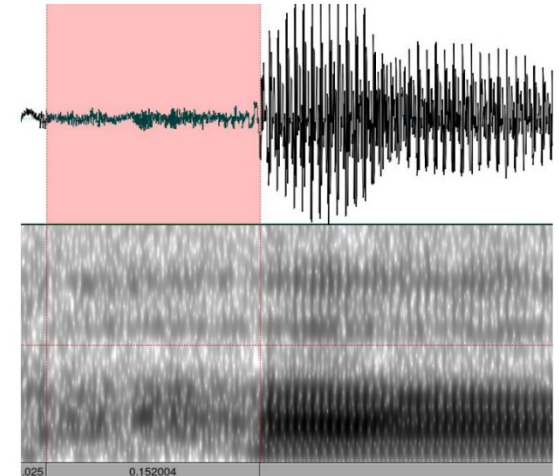
[ba]

Negative VOT +voice



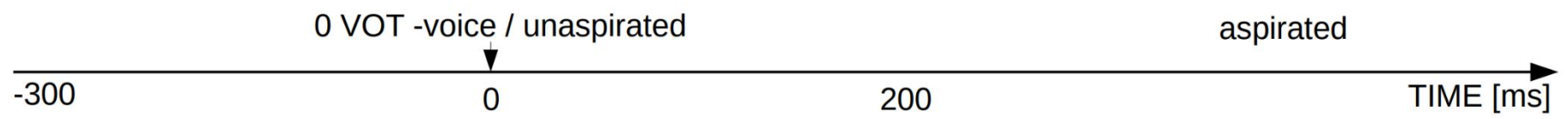
[pa]

Positive VOT -voice

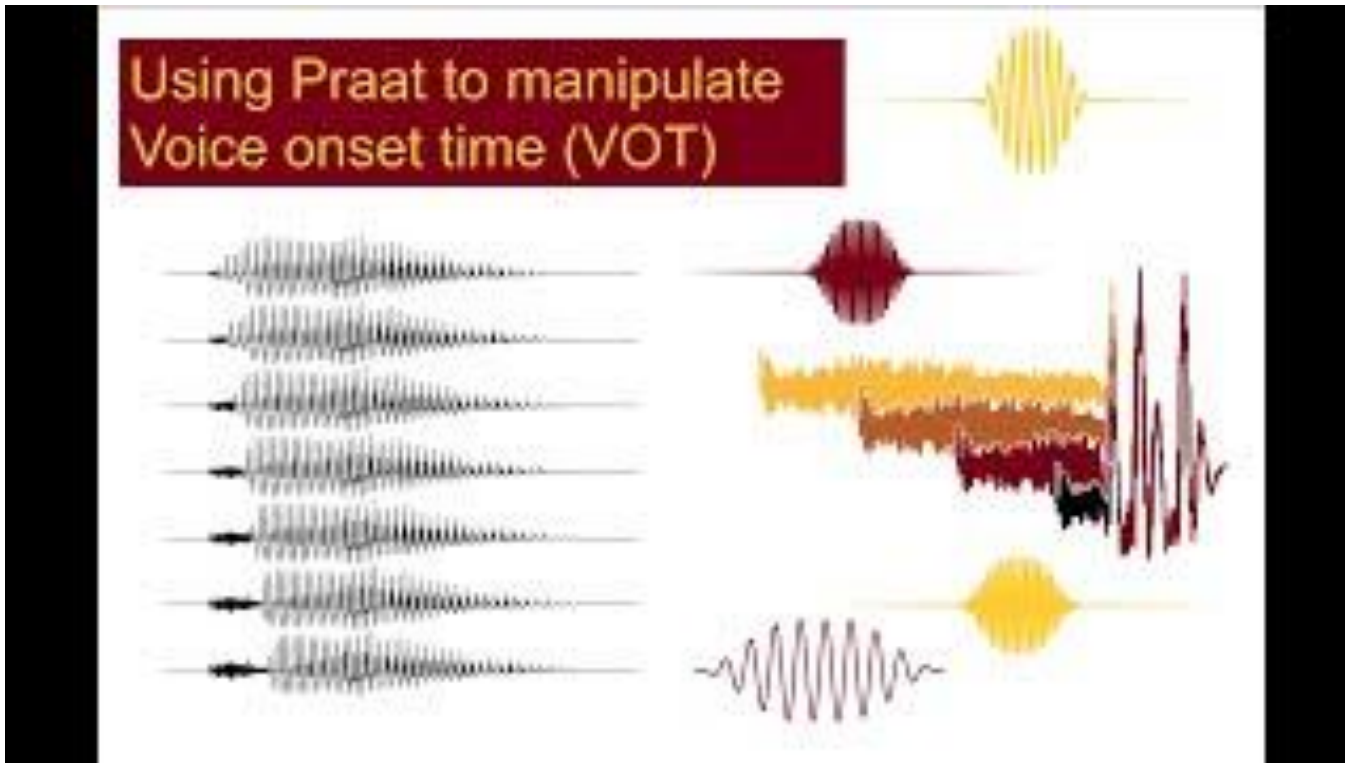


[p<sup>h</sup>a]

Positive /long-lag VOT -voice

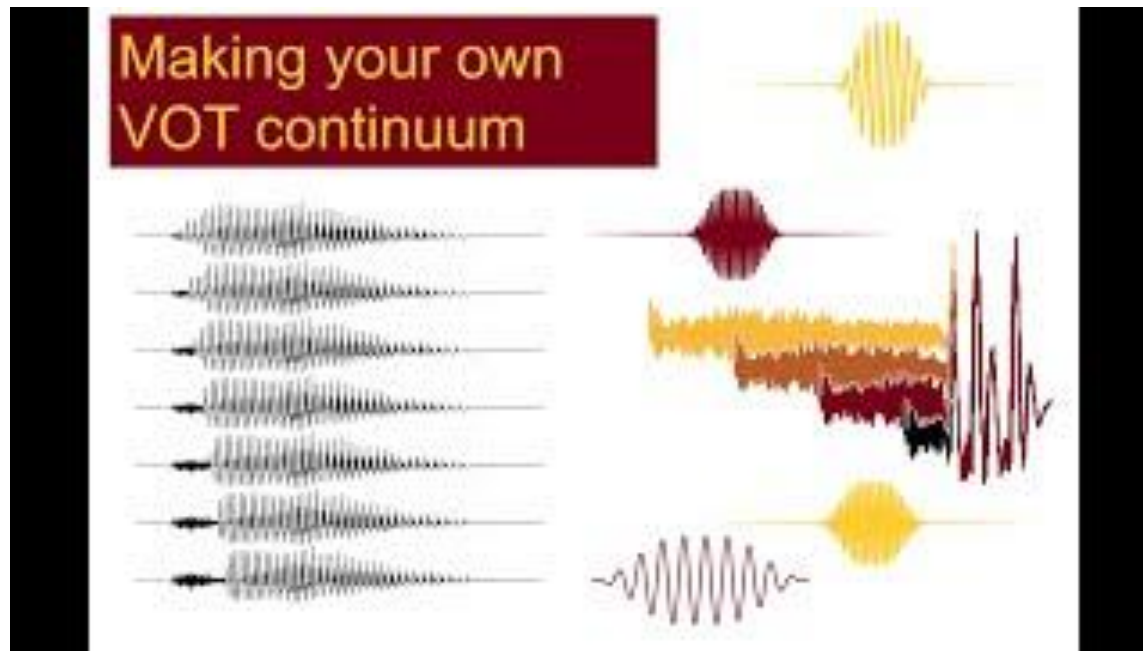


# Resources: Manipulate VOT



<https://www.youtube.com/watch?v=rk-q3rnN828>

# Resources: Manipulate VOT (Extra)



<https://www.youtube.com/watch?v=TpRPIB8Zu8I>

# Exercise: Categorical Perception and VOT

## Instructions:

1. Record yourself saying “ta” and “da”
2. Copy Praat script:  
[https://raw.githubusercontent.com/ListenLab/VOT/master/Make\\_VOT\\_Continuum\\_current\\_version.txt](https://raw.githubusercontent.com/ListenLab/VOT/master/Make_VOT_Continuum_current_version.txt)
3. Open new Praat script and paste code
4. Run Praat script
5. Make a VOT continuum
6. Decide whether each segment of continuum is “ta” or “da”
7. Measure VOT of each segment

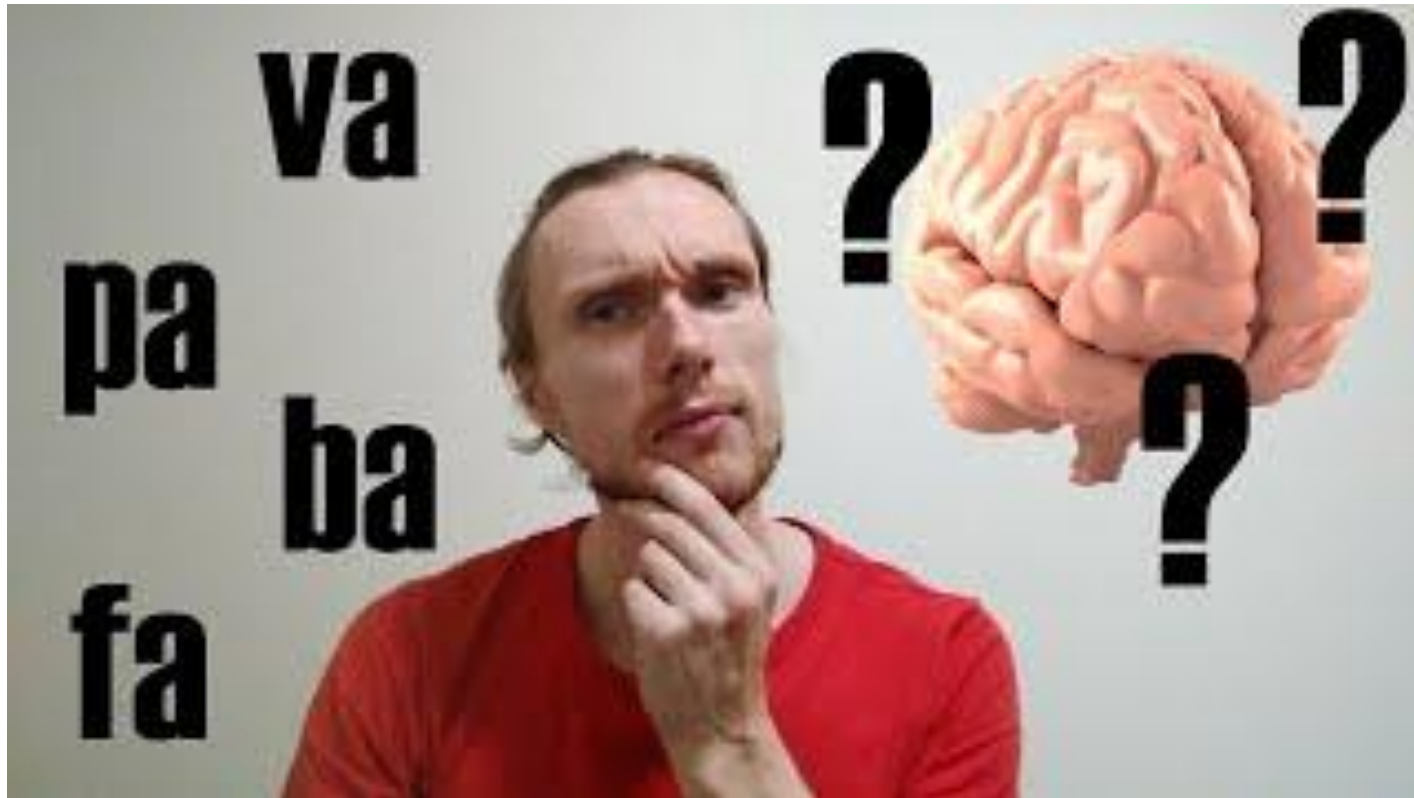


# Resources: McGurk Effect



<https://www.youtube.com/watch?v=2k8fHR9jKVM>





<https://www.youtube.com/watch?v=h5LVO-7BlqM>

Prepare some questions / topics you want clarified in the last exercise section. If you can email me the topic early this week, I can put it directly into the slides.