An abstract graphic on the left side of the slide, consisting of multiple parallel orange lines that intersect to form a grid-like pattern. The lines are of varying lengths and are arranged in a way that creates a sense of depth and movement.

# Participant Error in Online Production Data Collection in Gorilla

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# Study Background/Method

- \* BAG-raising production (/æ/ → raised / \_g)
- \* Participants
  - \* 50 English speakers from Ontario + Colorado, plus
  - \* 11 Exclusions due to recording issues
  - \* 28 exclusions for failing to meet inclusion criteria
- \* Word list reading task
  - \* Participants were presented with a stimulus and asked to read it once
  - \* 10 seconds to read the word, if they finished early, they could click 'done' to end the trial
  - \* They clicked 'next' to proceed to the next trial

# Motivation for the experiment design

- \* Feedback from speaker for a previous perception experiment (Kang & Sullivan, 2020)
- \* Recordings was completed in Gorilla; data quality was sufficient for manipulation
- \* 2 sessions
- \* Feedback from session 1 resulted in changes to the task design in experiment 2

# Session 1

- \* Speaker had 10 seconds to say each word, then the experiment automatically proceeded to the next word
- \* Participant could not end a trial early
- \* Speaker feedback
  - \* 10 seconds is long, it would be nice to end early
  - \* It would also be good if the participant could stop the procedure

# Session 2

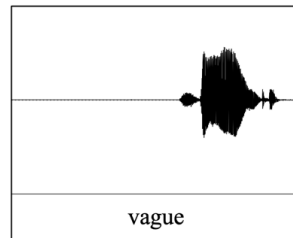
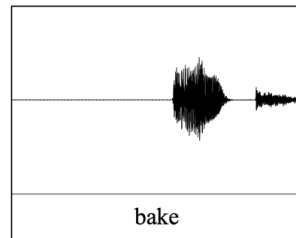
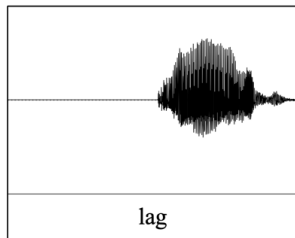
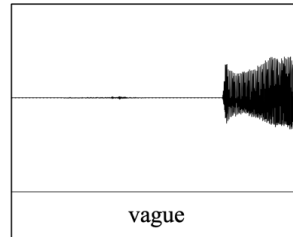
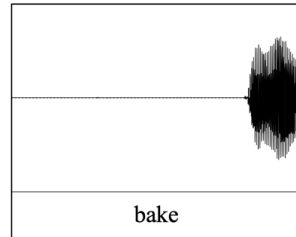
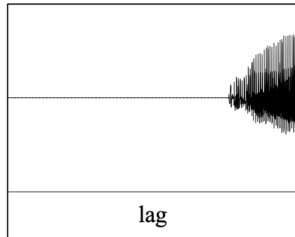
- \* Speaker had 10 seconds to record, but they could click 'done' to end the recording if they finished early
- \* Participant controlled movement between trials by clicking 'next' to proceed to the following trial
- \* Speaker preferred this version of the experiment
- \* This was, therefore, used for the BAG-raising study

# BAG-Raising

- \* Concerns about data quality due to lack of control over recording devices and environments
  - \* Required participants to use personal computers only
  - \* Recording quality was not a major concern
  - \* Only 2 participants excluded due to issues of recording quality
  - \* Another 2 excluded due to corrupt data files
  - \* Total 6.6% of participants who met inclusion criteria (4/61)

# Incomplete Recordings

- \* Most participants who were excluded (7) were recorded due to incomplete recordings
- \* Participants clicked done before they had finished speaking
- \* In addition to excluding 7 participants entirely, many tokens from the included participants had to be excluded for this reason
  - \* Of the 620 (3.4%) tokens excluded, the vast majority were for incomplete recordings
  - \* <10 tokens excluded for 70% of participants
  - \* >20 tokens for 20% of participants



# Solutions

- \* Going back to design 1 (no option to stop) doesn't seem feasible
- \* Participants need enough time to say the word, and re-say it if they make an error
- \* Time given to complete the task could be reduced, but by how much
- \* It would also be possible to disable the 'next' button for the first few seconds
- \* This wouldn't be a perfect solution, but it would reduce the number of exclusions, at least for participants who are speaking right away

# References

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