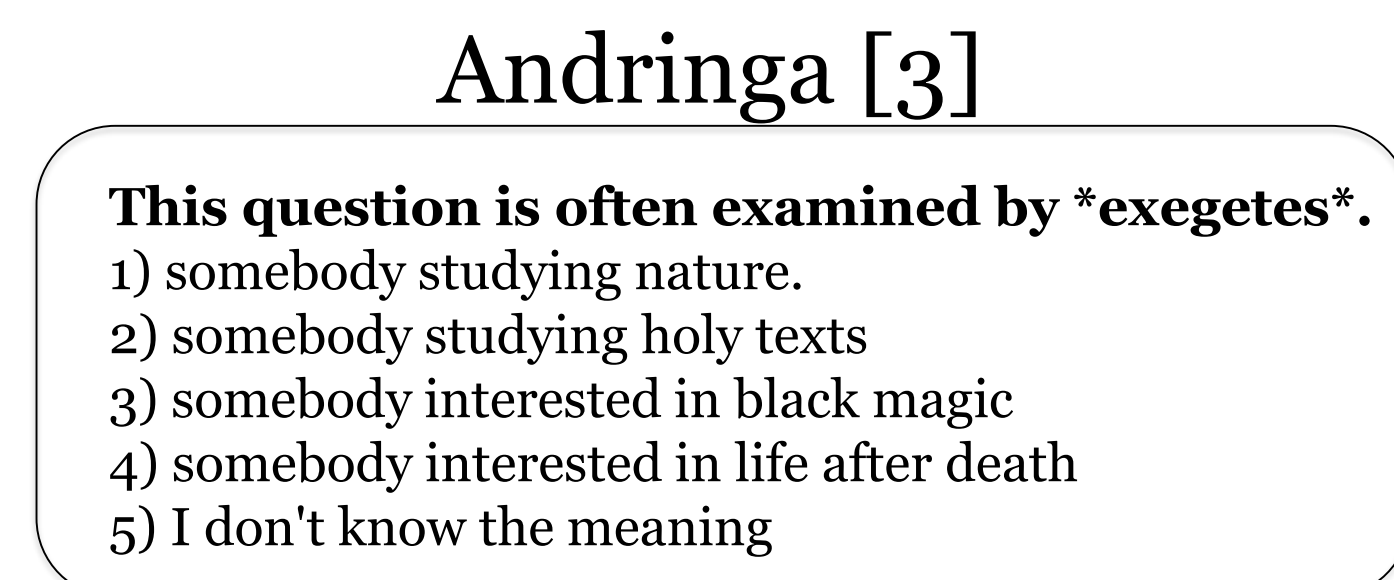
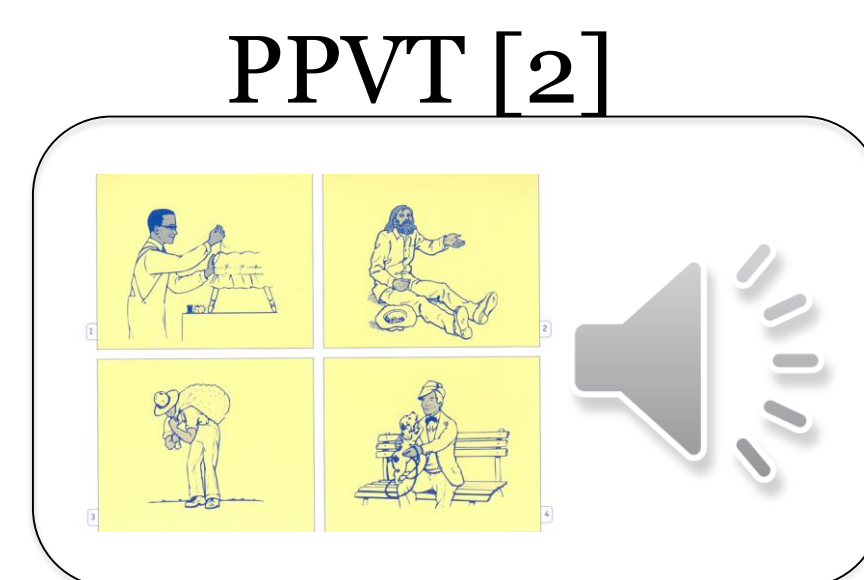


INTRODUCTION

- Studying language often requires a precise and reliable estimate of the language user's vocabulary size [1].
- Current vocabulary tests are insufficient as they:
 - 1) ...employ a fixed order of items
 - 2) ...approximate item difficulty using word frequency
 - 3) ...involve abilities not related to word knowledge (e.g., picture recognition, sentence comprehension): E.g.



INCENTIVE

- *Stairs4Words* intends to overcome these problems:
 - Item difficulty is estimated using word prevalence [4] rather than frequency.
 - Item difficulty is tailored to participant's performance level using a staircase procedure [5].
 - Simple task: Participants indicate whether or not they know a given target word.
- The test will be available in Dutch, English, and German and run online

[1] Mainz et al. (2017). *Frontiers in Psychology*., [2] Dunn & Dunn. (2007)., [3] Andringa et al. (2012). *Lang. Learn.*, [4] Keuleers (2015). *QJEP*., [5] Leek (2001). *Perception & Psychophysics*.

STAIRS4WORDS

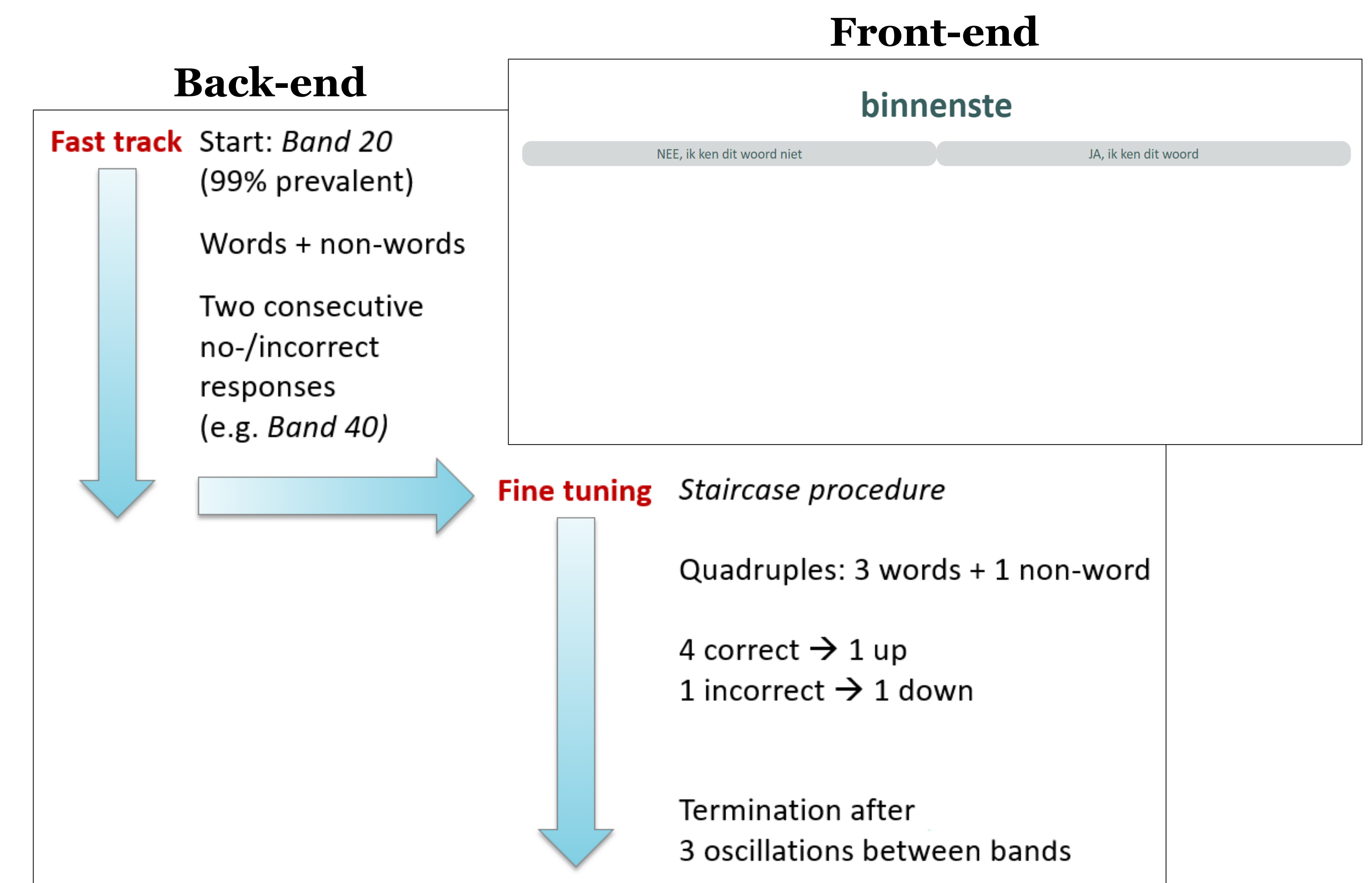
Two tracks operating at the back-end, not noticeable to the participants: 'Fast track' and 'Fine tuning'.

Target word presented in written form.

Fast track aimed at getting participant to vicinity of their end score.

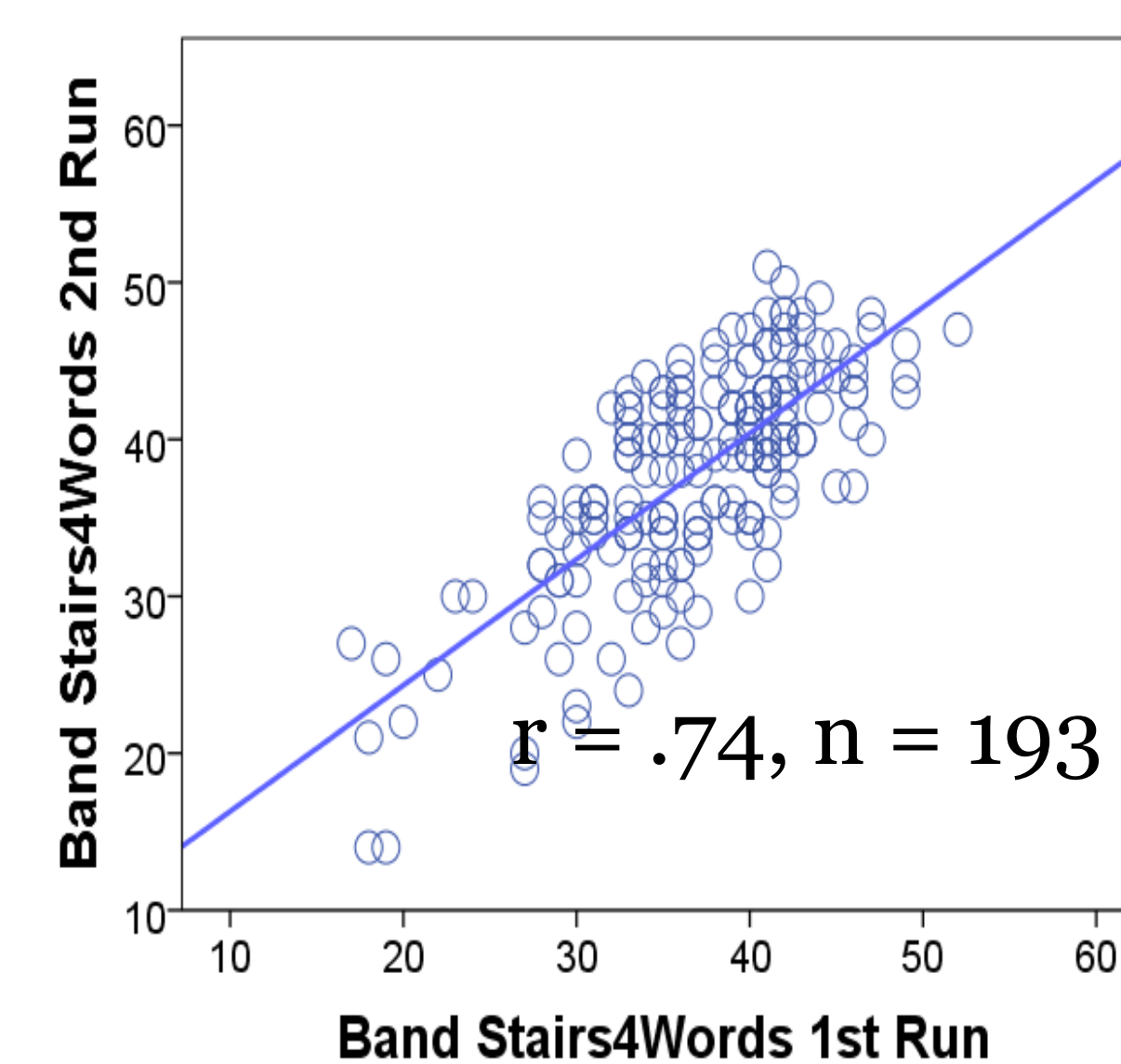
Fine Tuning meant to determine their end score by applying staircase procedure.

Participant's score is the last band where an entire quadruple was responded to correctly.

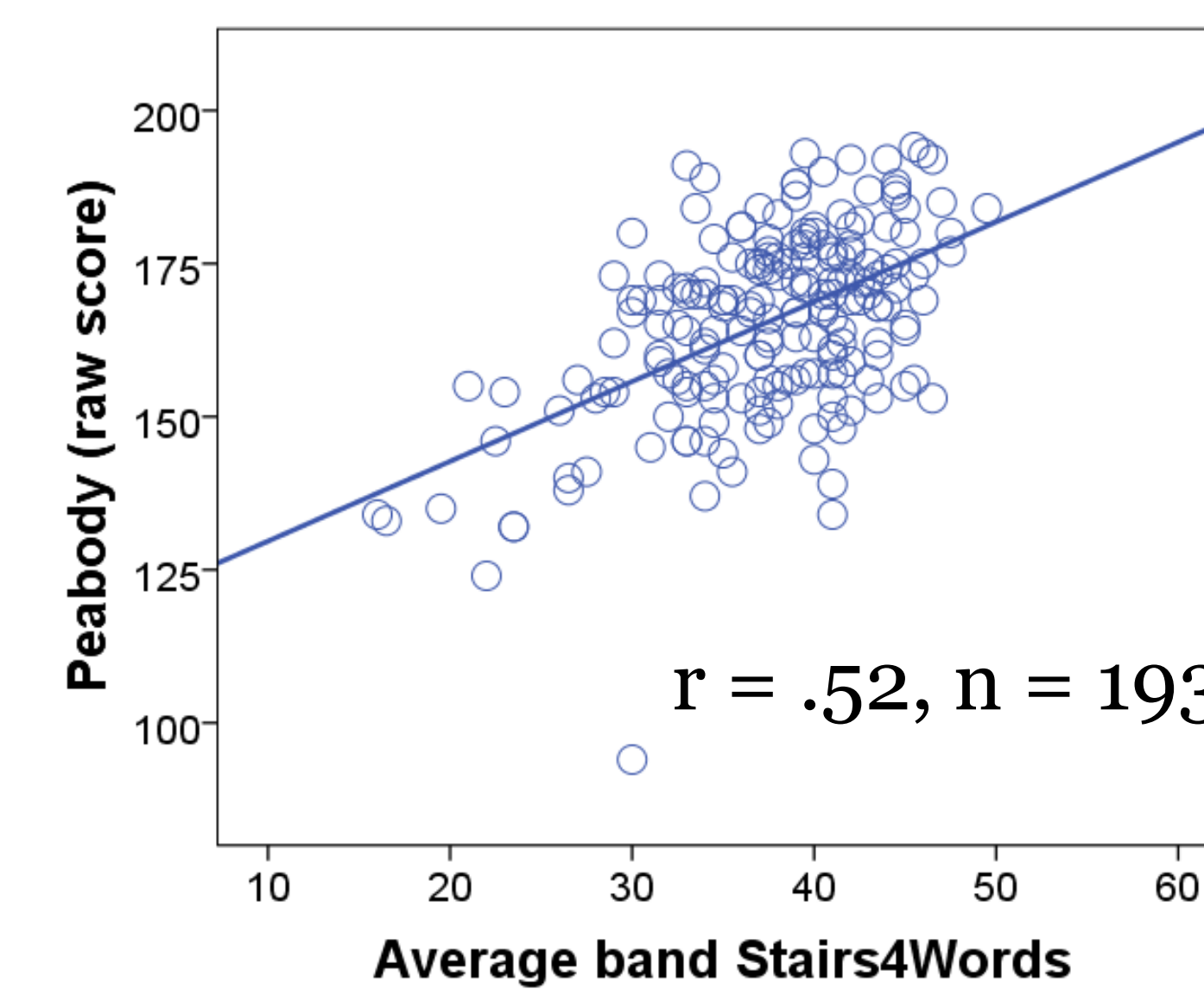


PILOTS IN DUTCH STUDENTS WITH DIVERSE EDUCATIONAL BACKGROUNDS

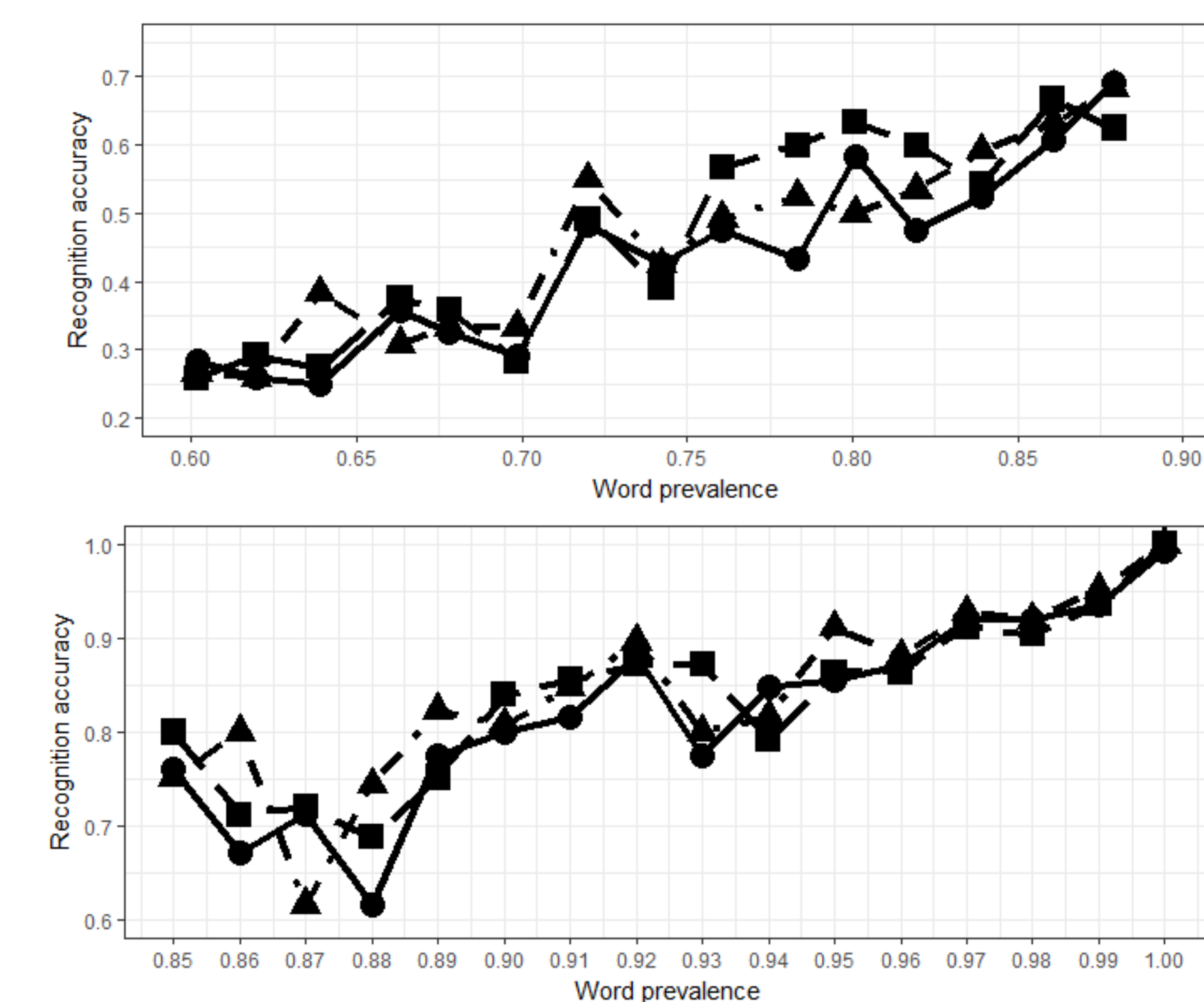
Correlation between parallel versions



Correlation Stairs4Words and Peabody



Assessing audio-visual benefit in target presentation



24 university students



24 vocational college students

CONCLUSIONS

- There is no obvious benefit of audio, or audio-visual presentation for either group of participants.
- Stairs4words is an efficient and reliable way of assessing vocabulary in young adults.