

How do articulatory rehearsal and attentional refreshing interact with phonological similarity in the complex span paradigm?

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How do articulatory rehearsal and attentional refreshing interact with phonological similarity in the complex span paradigm?



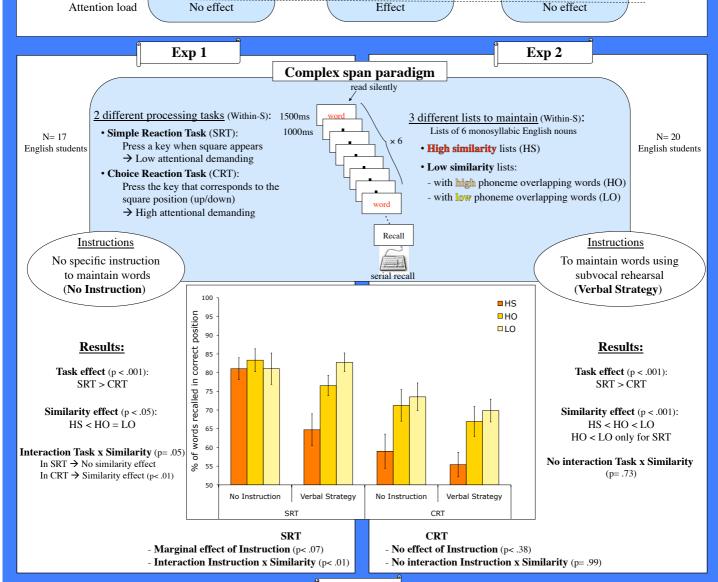
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Different accounts of decay and maintenance of verbal information in working memory

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RS/	Phonological Loop (Baddeley, 1986)	Time-	Based Resource-Sharing (Barrouillet et al, 2004)	model	Interference model (Oberauer & Kliegl, 2006)		
	• time related decay • articulatory rehearsal		• time related decay • attentional refreshing		• feature overwriting		
	How to account for phonological similarity effect: Articulatory Rehearsal or Feature Overwriting? How to account for maintenance: Articulatory Rehearsal or Attentional Refreshing? Aim of the study is to explore the impact of attention demand on phonological similarity effect						
Phonological similarity	Effect		???		Effect		
Feature overlap	No effect		???		Effect		



Conclusion

- (1) Effect of similarity as predicted by phonological loop model and interference model
- ② Effect of feature overlapping only with rehearsal instruction and low attentional demanding processing task → feature overwriting involves when both articulatory rehearsal and attentional refreshing are used simultaneously?
- 3 Effect of attentional load as predicted by TBRS

Strategy used for maintenance

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el		No articulatory constraint	Articulatory constraint		
	SRT low attentional demand	Attentional Refreshing	Articulatory Rehearsal (+ attentional refreshing?)		
	CRT	Articulatory Rehearsal	Articulatory Rehearsal		