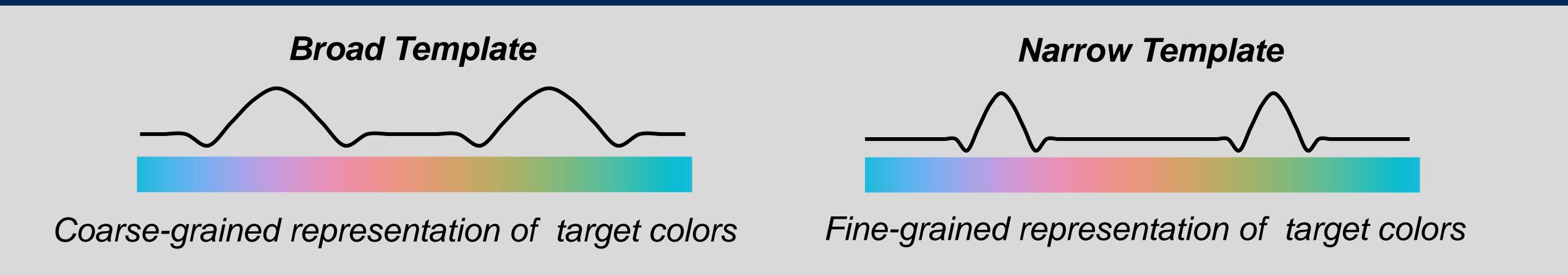
Attentional Template Specificity is Modulated by Task Demands for Single and Multiple Control Settings



Ryan S. Williams, Susanne Ferber, & Jay Pratt

DOES SEARCH CONTEXT MODULATE TEMPLATE SPECIFICITY FOR MULTIPLE TARGETS?

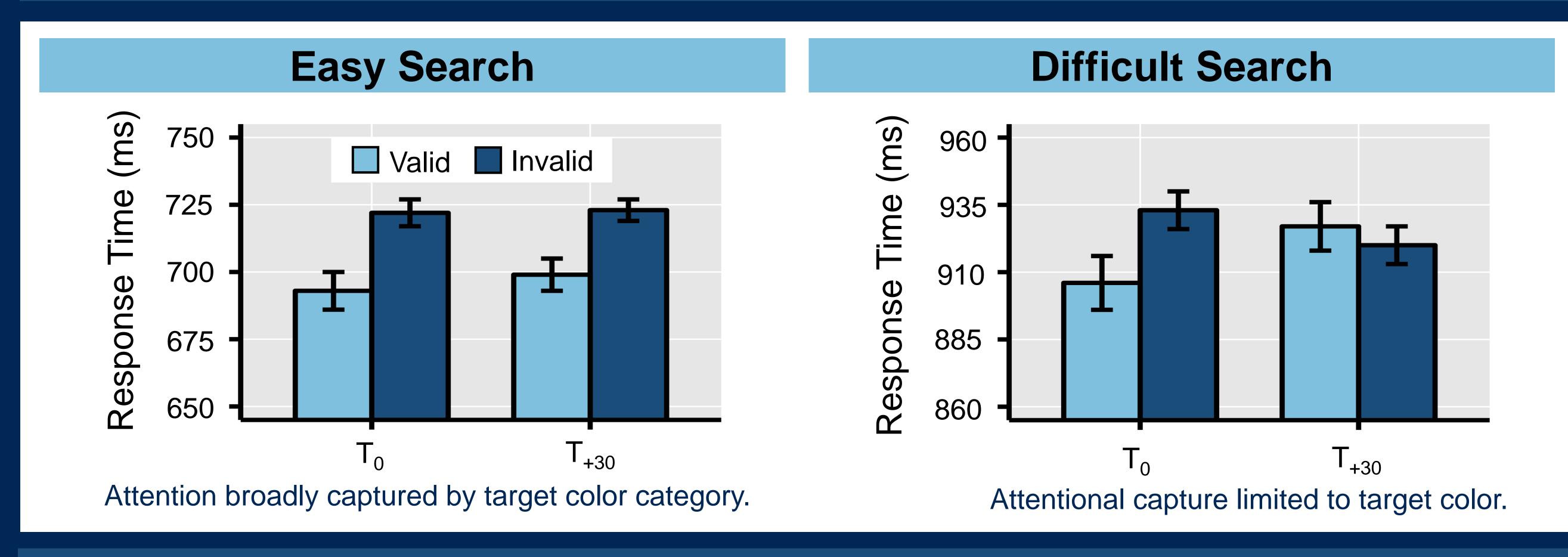
- Attentional templates bias the processing of items possessing a target-defining feature.¹
- Such templates are more narrowly represented when distractors resemble targets.²
- While multiple templates can be maintained simultaneously³, it is unclear if such representations are similarly narrowed by difficult search contexts.



METHOD **Fixation** 512 trials across Cue **Fixation** Search 50 ms 1000-1400 ms 8 blocks. 100 ms Until Response "X" or "="? **×** - **=** One or two target colors Cue color matched the target Target appeared at a validly assigned that remained cued (25%) or invalidly cued (T_0) or was 30° away in 360° color space (T+30). location (75%). constant. **Easy Search** Difficult Search **Low Target-Distractor Similarity High Target-Distractor Similarity** ♦ Target Color 1Target (N=24) 2 Targets (N=24) 1Target (N=24) 2 Targets (

1. Folk, Remington, & Johnston (1992). *J. Exp. Psychol. Hum. Percept. Perform. 18*(4); 2. Geng, DiQuattro, & Helm (2017). *J. Exp. Psychol. Hum. Percept. Perform. 43*(12); 3. Irons, Folk, & Remington (2012). *J. Exp. Psychol. Hum. Percept. Perform.*, 38(3).

TEMPLATE SPECIFICITY X TASK DIFFICULTY



TEMPLATE REGULATION X SET SIZE

