

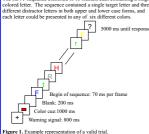
Direct Selection by Color for Visual Encoding

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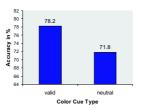
search tasks where location varies (i.e., multiple item) asseveral experiments (e.g., Brawn & Snowden, 1999) have safest traged detection when the target appears in a precued in when it does not. But it is unclear whether the observed due to a direct selection by color or when't the advantage of by location. Paradigms in which location varies do not exciton between these two options.

swithout variation in location (i.e., rapid serial visual on or "RSVP" suks) the possible mediating influence of savoided. Previous studies examining the effect of olor cues in RSVP tasks have found no vidence for extent by color (Póder, 2001; Shih & Sperling, 1996), but uludies advance color information was of limited use to only reduced the set of to-be-processed stimuli by half, st, studies of the effects of spatial cauling typically only cue coation for processing (Posner, Snyder, & Davidson, 1980

Research question



Predictions

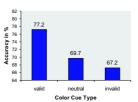


Conclusions

nce in trials preceded by valid informative color cues was ntly better than performance in trials with neutral ative color cues. These results indicate that items can be elected for visual encoding by color, and the effect cannot n mediated by location because location idd not vary.

all trials) or neutral no letter appeared in the cued color target (10% of all trials), or invalid a distractor letter appeared in the cued color therefore the color cue was misleading (10% of all trials).

Predictions



performance in valid color cue trials was signific

The advantage of valid color cues found in these two experiments suggests that color can be used to directly select items out of an RSVP sequence for further processing.

wn, P., & Snowden, R. J. (1999). Can one pay attention to a icular color? *Perception & Psychophysics*, 61, 860-873.

Shih, S.-I., & Sperling, G. (1996). Is there feature-bases selection in visual search? Journal of Experimental Psy Human Perception and Performance, 22, 758-779.

Acknowledgments