

Visual Short Term Memory for Location:

OBJECTHOOD versus R-e-l-a-t-e-d-n-e-s-s

We show that VSTM is relational as well as object-based, and that relations between elements determine capacity. Capacity was measured in a standard change-detection task in 5 experiments (Methods on left side). Relations between elements had larger impacts on capacity overall than object-based constraints:

- Closeness of elements was more important than individuation into 3 objects (Experiment 1)
- Regularity of elements (re: size/location, and shape) influenced capacity, especially when irregularity occurred within objects (Experiments 2 - 5)

Abstract 23.527

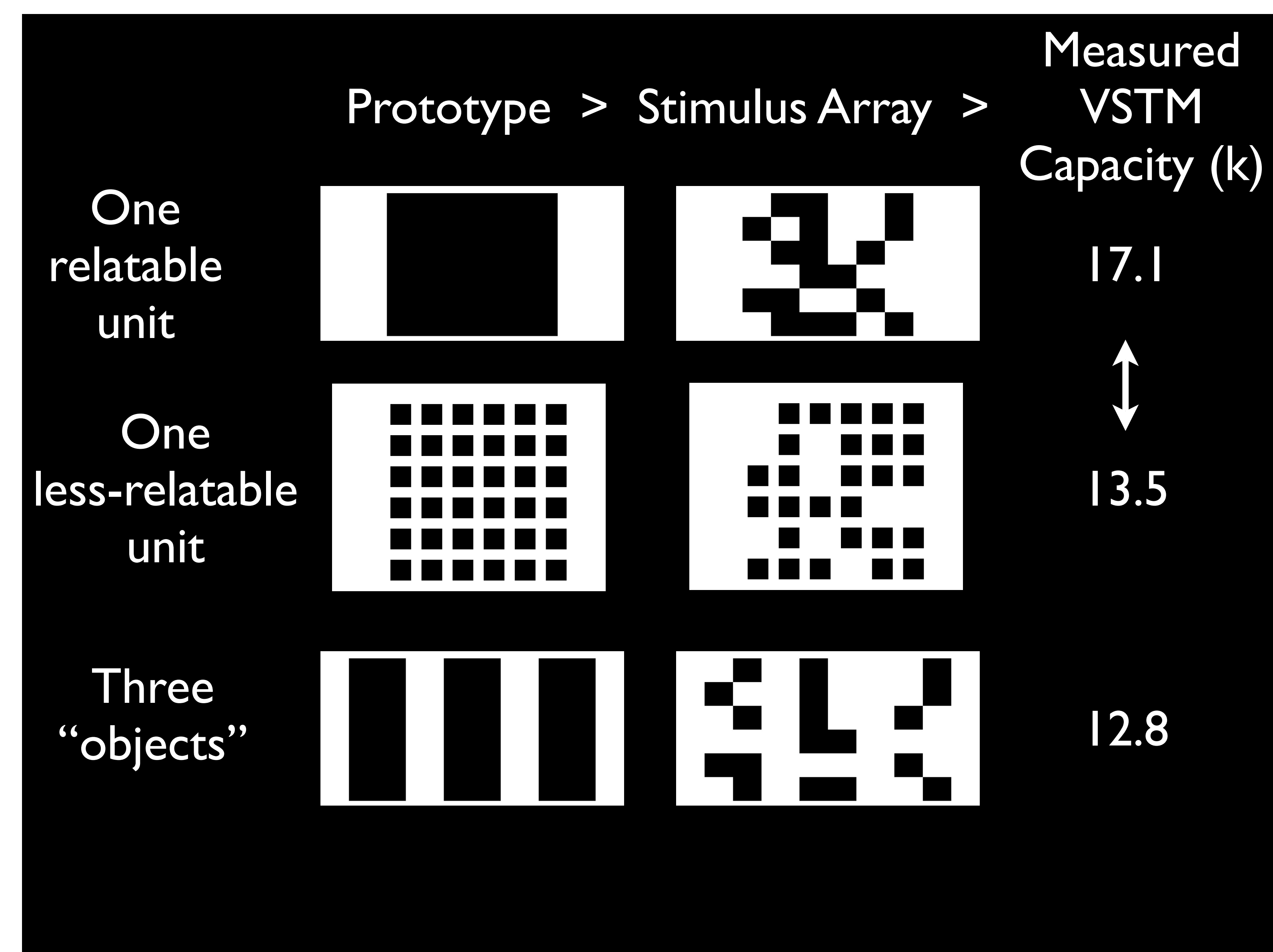
Thomas Sanocki & Noah Sulman

Psychology, Center for Pattern Recognition

University of South Florida

Tampa, FL USA

Experiment 1: Do capacity constraints apply to objects?
No; capacity depends on overall relatability.



Experiments 2 - 5: Constraint between element properties?
Yes, and stronger within object than between object.

