Priming Non-MaximalitySummary of 16/09 + Experiment Proposal

Experimental items x Study

Studies (5, with different groups of subjects): Each study is defined by the particular combination of **Predicate types** (Collective/Distributive/Baseline) in the 4 experimental items (+ Fillers, see next section).

- Study 1 All Collective How accessible are non-maximal readings of collective predicates? Point to have into account: Priming effects of Collective predicates (i.e., accessing might become easier after seeing Max readings of Collective predicates).
- Study 2 **All Distributive** How accessible are non-maximal readings of distributive predicates? (Follow-up of Marty et al 2015). Again: There could be priming effects (specially if there is an actual competition between Phantom and Maximal readings).

% True responses in targets: Study 1 vs Study 2 → Differences of accessibility of NM readings for different predicates.





Picture Type		Picture type: 1			Picture type: 2		
Sentence example		Between 5 and 7 dots are above the squares/form a circle			Between 5 and 7 dots are connected to the squares/surround the squares.		
C	Condition	TRUE Maximal	FALSE Non-lower bounded	? Non-Maximal	TRUE Maximal	FALSE Non-lower bounded	? Non-Maximal
12 of subjects	STUDY (group of subjects)	•	•	••	*	• •	\\ ⊕
g	1	COLLECTIVE	COLLECTIVE	COLLECTIVE			COLLECTIVE
Examples for Group 12	2	DISTRIBUTIVE	DISTRIBUTIVE	DISTRIBUTIVE			DISTRIBUTIVE
	3	BASELINE	BASELINE	BASELINE			DISTRIBUTIVE
Examp	4	COLLECTIVE	COLLECTIVE	COLLECTIVE			DISTRIBUTIVE
_	5	COLLECTIVE	COLLECTIVE	DISTRIBUTIVE			DISTRIBUTIVE

- Study 3 Baseline (for NonMax Distributive) Is it possible to prime phantom readings? Control for Study 2.
 - % True responses in targets: Study 2 vs Study 3 → Priming of NM readings of distributive predicates.
- Study 4 All Collective Priming Is it possible to prime phantom readings of distributive predicates by forcing all possible reading f collective predicates (maximal and non-maximal)? Point to have into account: A priming effect here could be due strictly to non-maximal readings.

- % True responses in targets: Study 2 vs Study 4 → Differences of priming between Distributive and Collective predicates. Priming specifically of Collective predicates (independently of the "type" of reading).
- % True responses in targets: Study 3 vs Study 4 → Difference between priming by Collective predicates and not priming at all (get rid of some sort of effect due to non-maximal "readings" in general, independently of the predicates).
- Study 5 Max Collective Priming Is it possible to prime phantom readings of distributive predicates only by forcing maximal readings of collective predicates?

% True responses in targets: Study 2 vs Study 4 vs Study 5 → Priming effects of maximal collective readings on non-maximal distributive readings. [Collective predicates by themselves might activate non-maximal readings. The similarity between 4 and 5 allow us to measure the existence of ambiguity]

Items can belong to 4 **Conditions** (False/Max/NonMax/NonMaxD), depending on the readings that the pictures make true. While the three first conditions share the **Picture type** (1 or 2), NonMaxD presents always a different Picture*Predicate combination.

The particular combination of **Picture type** across Conditions is controlled across subjects (some of them see 1-2 configuration, and some 2-1; see Table 2). Notice that the combination Predicate*Picture supposes particular predicates, such as "be connected to" or "form a circle".

Table 2

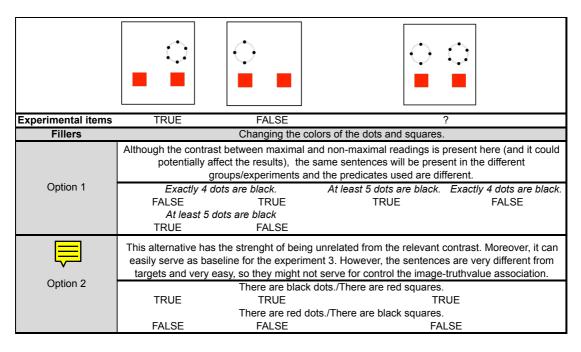


Group	FALSE	TRUE	NonMax	NonMaxD
12	1	1	1	2
21	2	2	2	1

Notice that this design allows us to control for: Influences of predicate and image priming (by contrasting NonMax vs NonMaxD; see carefully: sometimes is indistinguishable).

Fillers

Fillers serve to control potential influences of the images in the performance (i.e. association between truth-values and particular images).



Predictions

- Presentation of distributive predicates with images that make maximal readings true (priming) and false (antipriming) could lead to an increasing of non-maximal readings in targets (phantom readings).> 2 vs 3
- Collective predicates by themselves activate nonmaximal readings, even in the cases where maximal readings would also be true.

Non Maximal Distributive readings (Distributive 2)

