# Countability Distinctions without Linguistic Cues 

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Background on Quantity Judgments (Barner \& Snedeker 2005) Who has more NOUN?

Cardinality Judgment

Count Nouns - Apple
Aggregate Nouns - Furniture
Mass nouns - Ketchup
$\longrightarrow$
Volume Judgment


Quantity Judgments as a diagnostic for noun semantics?

- Barner \& Snedeker (2005): Yes

| Count Nouns - Apple | $\longrightarrow$ | Atomic |
| :--- | :--- | :--- |
| Aggregate Nouns - Furniture |  |  |
| Mass nouns - Ketchup | $\longrightarrow$ | Non-Atomic |

$\Rightarrow$ But not all languages show this pattern (Yudja, Lima 2014)!
Research Goal: To investigate the role played by morphosyntactic cues to atomicity in quantity judgment tasks.

Why?

> Nez Perce (Deal 2017)

Who has more PL-good milk? vs. Who has more good milk?
Cardinality Judgment vs. Volume Judgment
Who has more? (Scontras et al. 2017)
Count Nouns $\quad \longrightarrow \quad$ More Volume Judgments
Mass Nouns $\quad \longrightarrow \quad$ More Cardinality Judgments
Why French? The morphosyntactic cues to atomicity are not always perceptible in the auditory signal.
panda $_{S G} \quad$ pandas $_{P L}$
[pãda]


Experiment 1 (n=90; 40 items, 10 fillers)

Goal: To extend Scontras \& al. (2017) to every type of English nouns and to set a baseline for Experiment 2 in French.


Who has more books? vs. Who has more? NOUN

NO NOUN


Behavior less categorical in NO NOUN Condition (consistent with Scontras et al. 2017)


Experiment 2 ( $\mathrm{n}=61$; 40 items, 10 fillers)
Goal: To investigate the role played by morphosyntactic cues to atomicity in French.

## Do cues to atomicity affect quantity judgments?

- YES $\quad \rightarrow \quad$ French $\simeq$ English
- NO $\quad \rightarrow \quad$ French $\neq$ English

Regarde, il y a des livres sur la table. Qui en a le plus?
CUES
'Look, there are some books on the table. Who has more?'
vs.
Regarde ce qu'il y a sur la table. Qui a le plus de livres? NO CUES 'Look what is on the table. Who has more books?'


- Who has more? The absence of nouns plays a role in English (Exp. 1) and in French.

- Removing experimentally the cues to atomicity didn't affect quantity judgments.
- Who has more? judgments were influenced by the availability of salient portions and alternative dimensions of measurement (consistent with Scontras et al. 2017).

[^0] the characters, and to Cristina Aggazzotti for her voice.


[^0]:    References: Barner \& Snedeker 2005. Quantity judgments and individuation: Evidence that mass nouns count. Cogni
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    Many thanks to Kate Davidson and Greg Scontras for discussion and insightful comments, to Dorothy Ahn for drawing

