



Investigating the Nature of Disagreements on Mid-Scale Ratings: A Case Study on the Abstractness–Concreteness Continuum

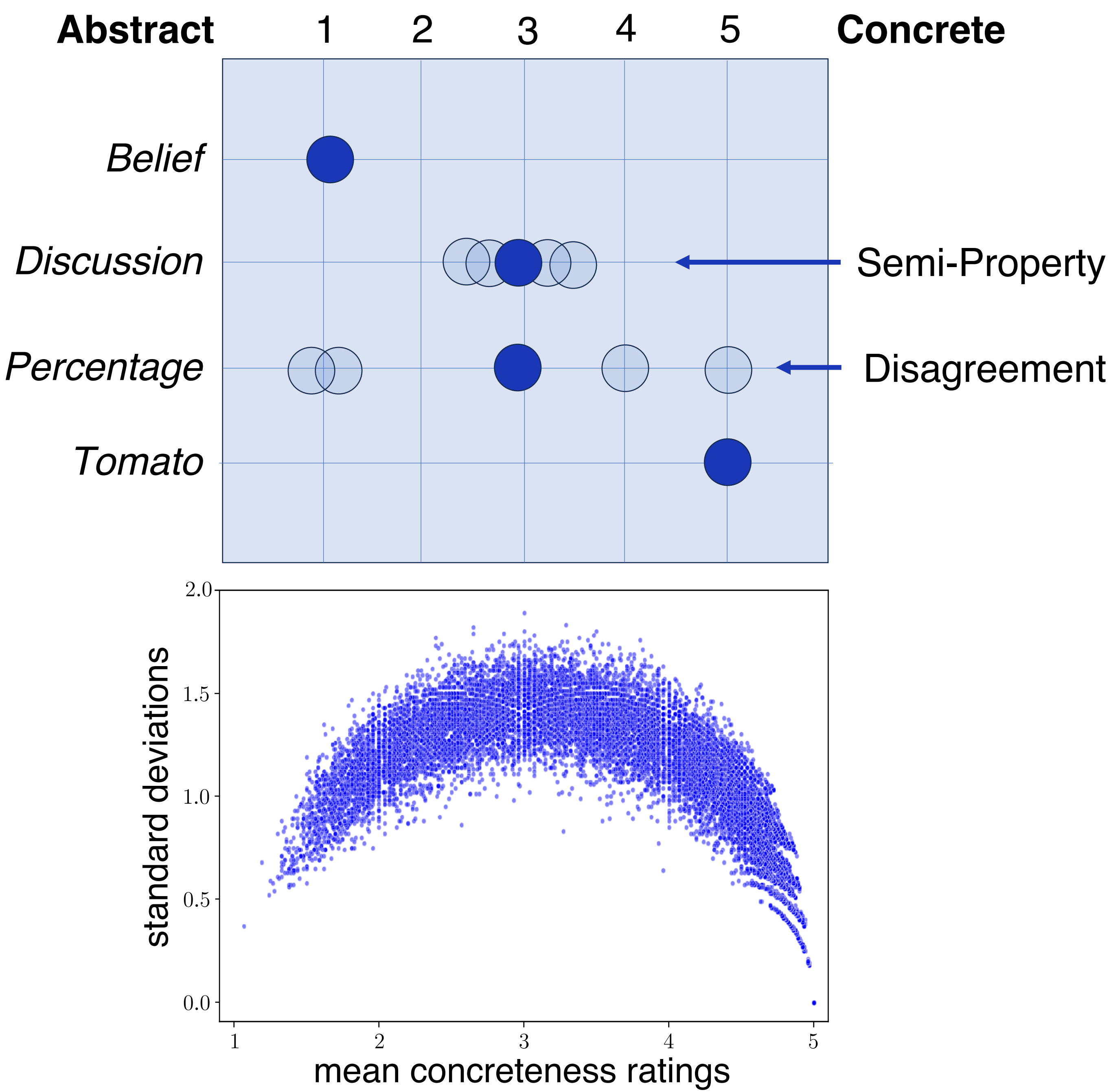
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What are the properties of concepts with mid-scale ratings?

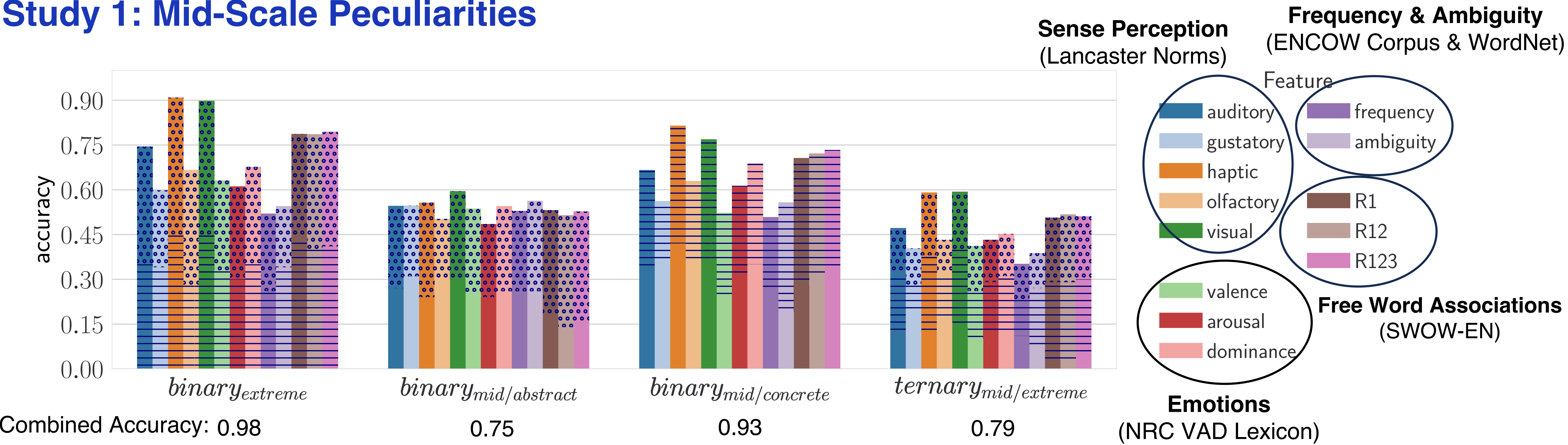
- High disagreement among raters → **High standard deviation**
- Distinct **multimodal characteristics (Study 1)**
- Specific **patterns of disagreement (Study 2)**

Materials

- Concreteness ratings for **1500 English Nouns (Brysbaert Norms)**
 - 500 extreme **abstract** (1.07 - 1.71)
 - 500 **mid-scale** (2.90 - 3.31)
 - 500 extreme **concrete** (4.85 - 5.00)
- Average scores (**Study 1**) and single ratings (**Study 2**)



Study 1: Mid-Scale Peculiarities



Study 2: Mid-Scale Disagreement Patterns



How can we use them in computational modeling?

- **Exclude** them from the study → **focus on extremes**
- **Fine-tune** them according to **disagreement patterns**

References:

Brysbaert Concreteness Norms (Brysbaert et al., 2014) ♦ Lancaster Norms (Lynott et al., 2020) ♦ Encow Corpus (Schäfer and Bildhauer, 2012) ♦ WordNet 3.0 (Miller and Fellbaum, 1991) ♦ NRC VAD Lexicon (Mohammad, 2018) ♦ The Small World Of Words Project SWOW (de Deyne et al., 2019) ♦ Investigating the Nature of Disagreements on Mid-Scale Ratings: A Case Study on the Abstractness-Concreteness Continuum (Knupleš et al., 2023)