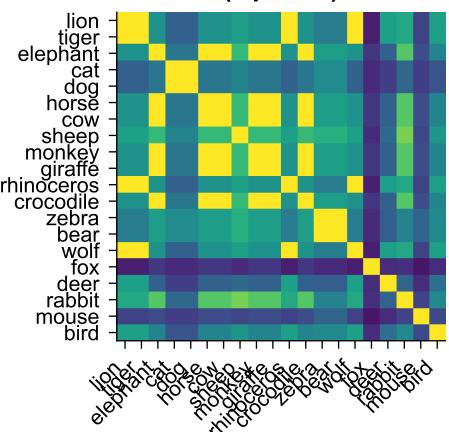
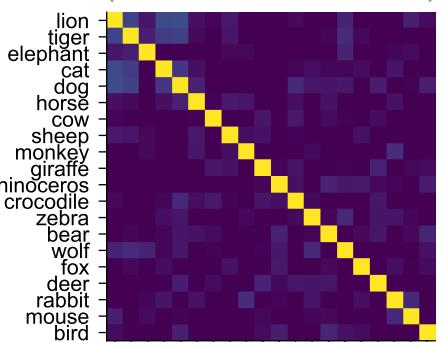


# Why SpaCy en\_core\_web\_md is the Optimal Choice for Semantic Verbal Fluency Analysis

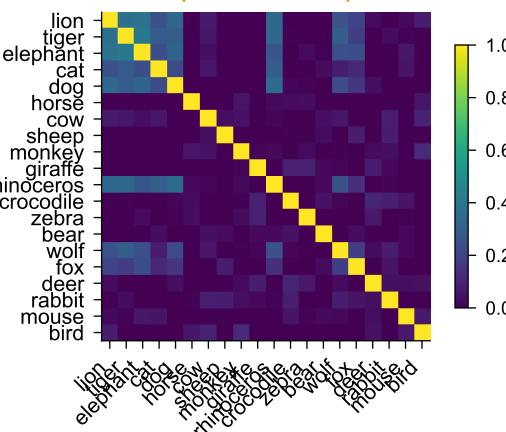
**SpaCy en\_core\_web\_md  
(Optimal)**



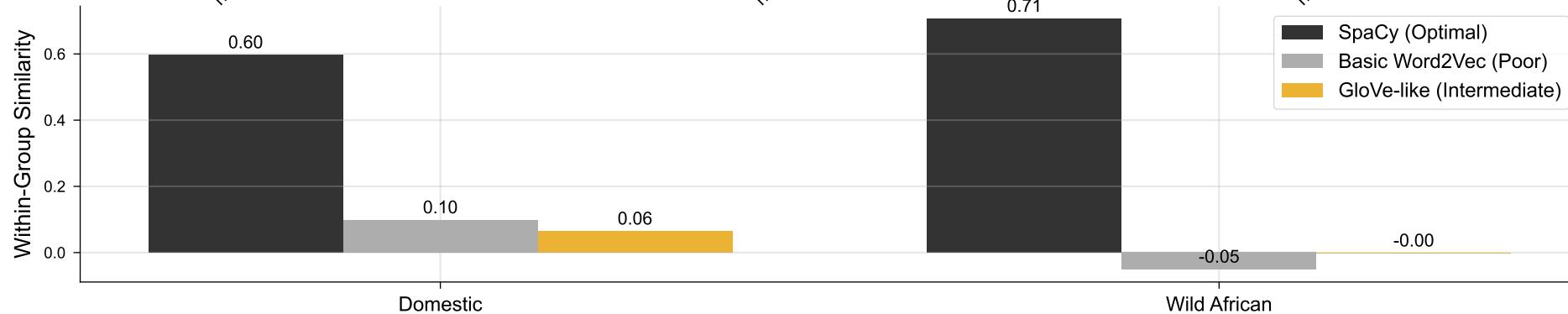
**Basic Word2Vec  
(Poor Semantic Structure)**



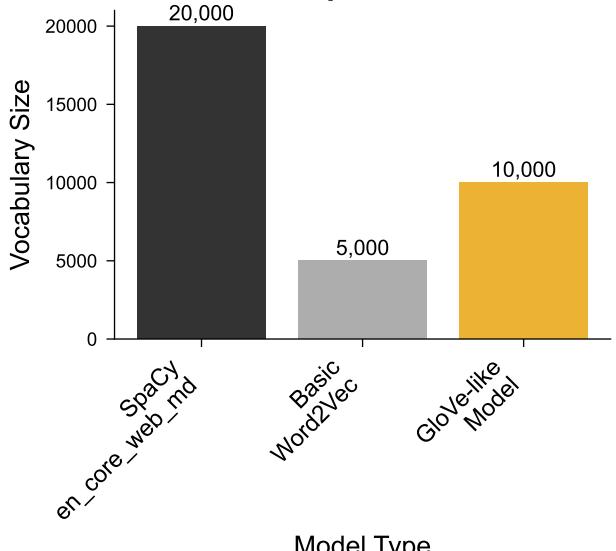
**GloVe-like  
(Intermediate)**



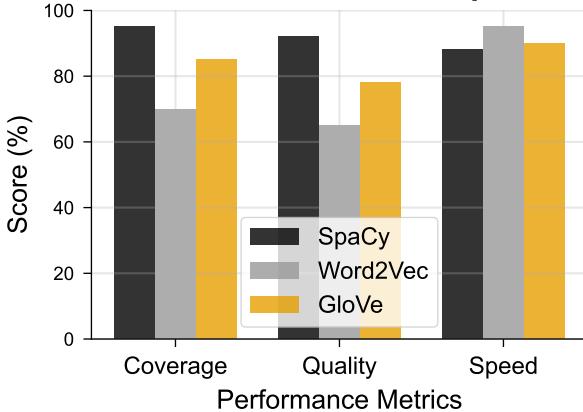
**Semantic Clustering Quality Comparison**



**Model Specifications**



**Model Performance Comparison**



## Why SpaCy en\_core\_web\_md is Optimal for SVA

- 20,000-word vocabulary
- 300-dimensional vectors
- Web-trained (2B tokens)
- Optimized for English
- Fast inference speed
- Excellent semantic structure
- Handles animal names well
- Production-ready pipeline