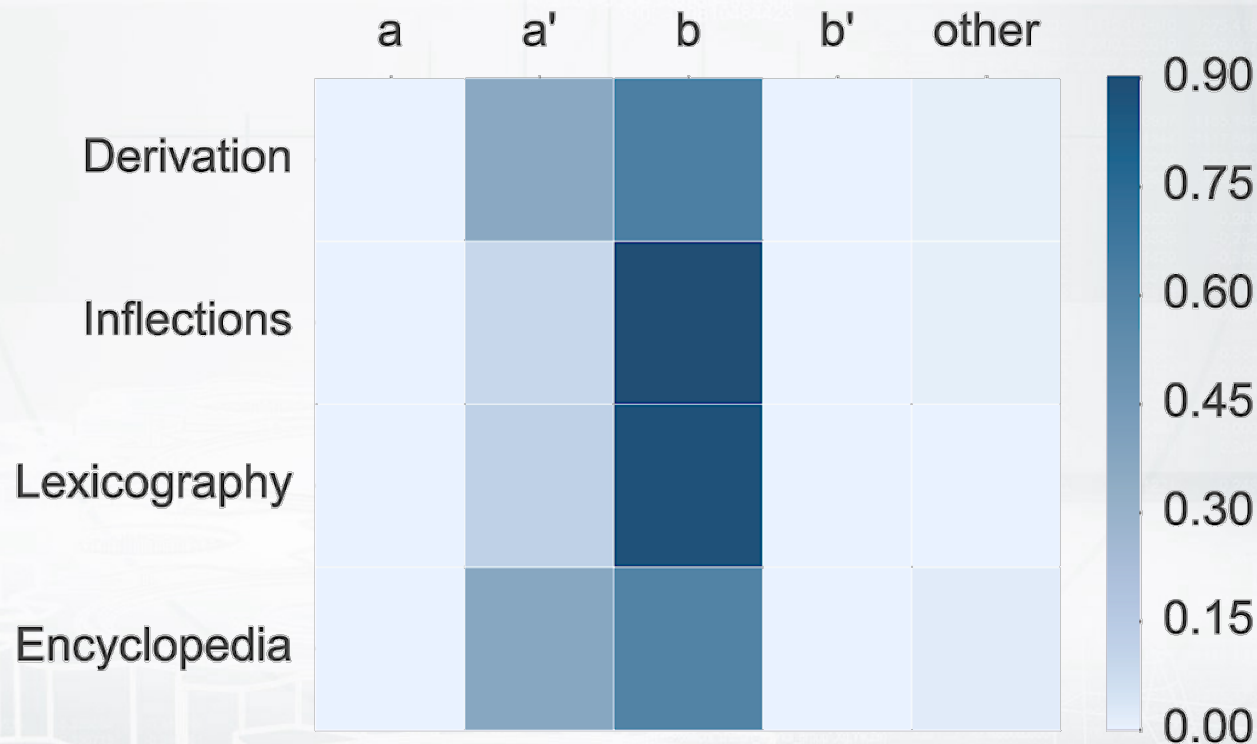


# Closer look into analogy task

$$\cos(b - a + a', x) \rightarrow \max_{x \notin \{a, a', b\}}$$

king – man + woman = king:



Rogers et. al. The (Too Many) Problems of Analogical Reasoning with Word Vectors, 2017.