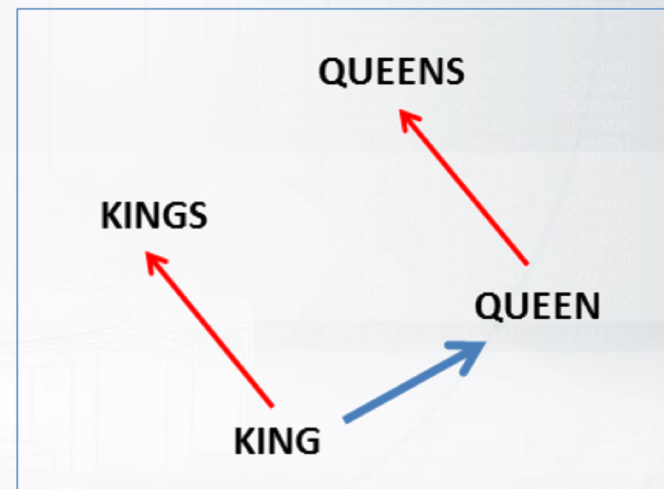
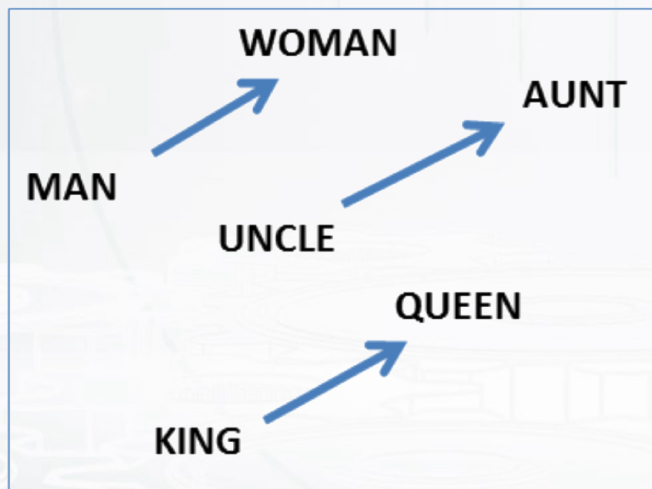


# Evaluation: word analogies

- In cognitive science well known as *relational similarity* (vs. *attributional similarity*).
- $a : a'$  is as  $b : b'$  (man : woman is as king : ?)

$$\cos(b - a + a', x) \rightarrow \max_x$$



Gentner, D. Structure-mapping: A theoretical framework for analogy. Cognitive Science, 1983.

Mikolov et. al. Linguistic Regularities in Continuous Space Word Representations, 2013.