



structured Data

Learning with

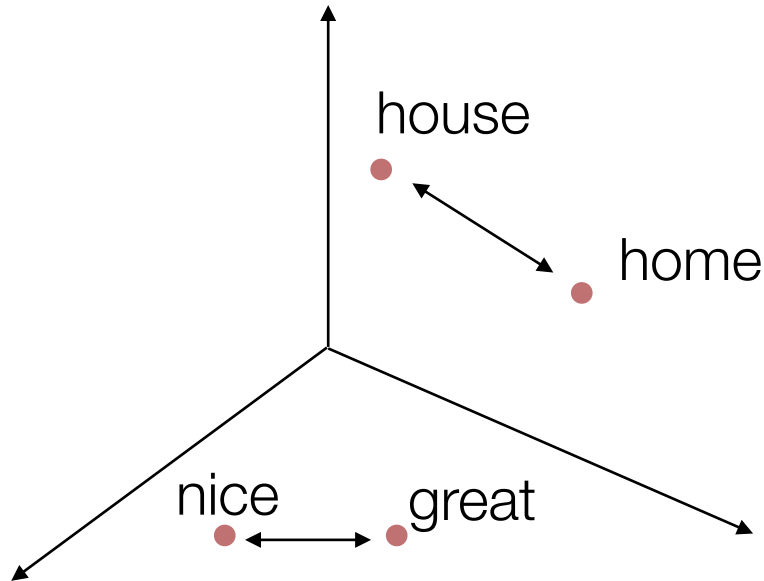


- How do we **represent** the objects (computationally)?

- How do we **operate** on them? E.g.:

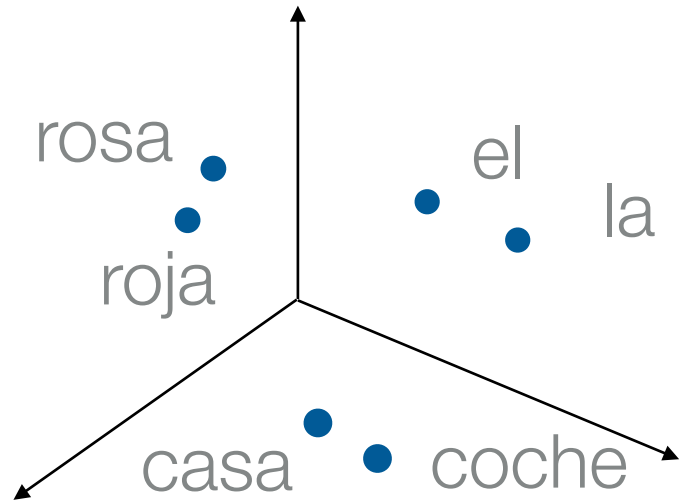
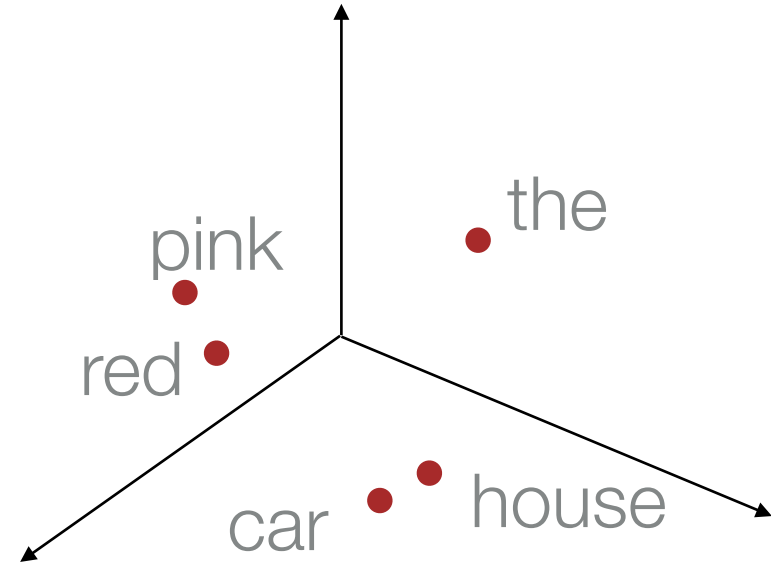
Sentence 1: ... *that house is nice* ...

Sentence 2: ... *it's great to be home* ...



Similarity

Correspondence







$$\text{similarity}(\text{sent}_1, \text{sent}_2) = 0.8$$

Optimal Transport provides a principled approach to both!

houses \Rightarrow cars

career \Rightarrow coaching

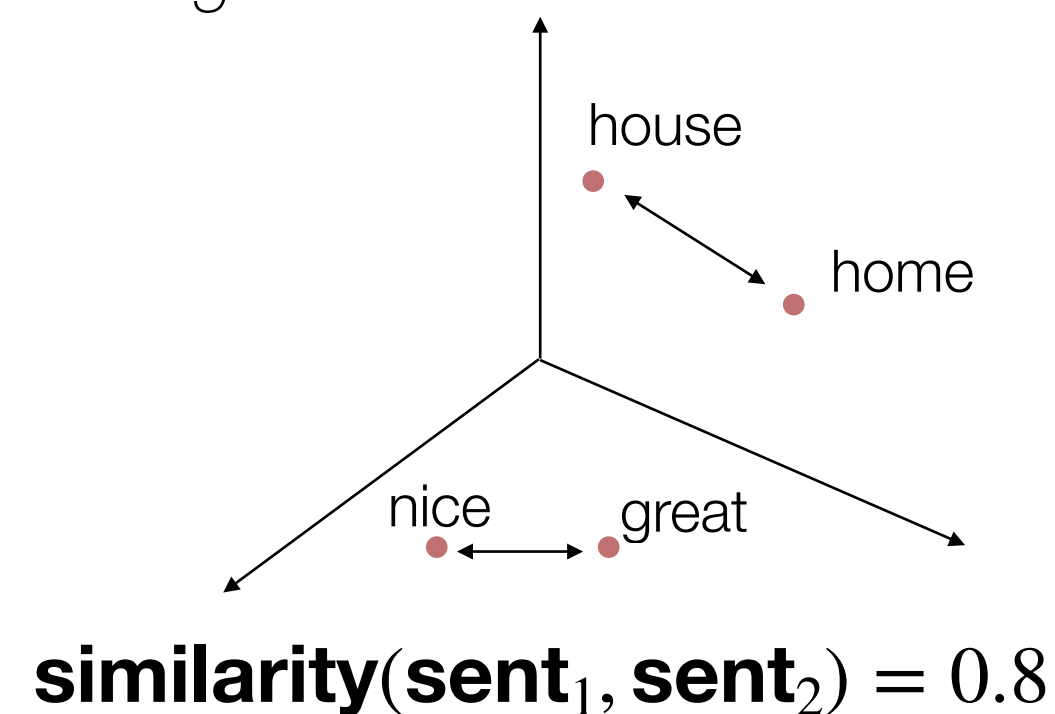
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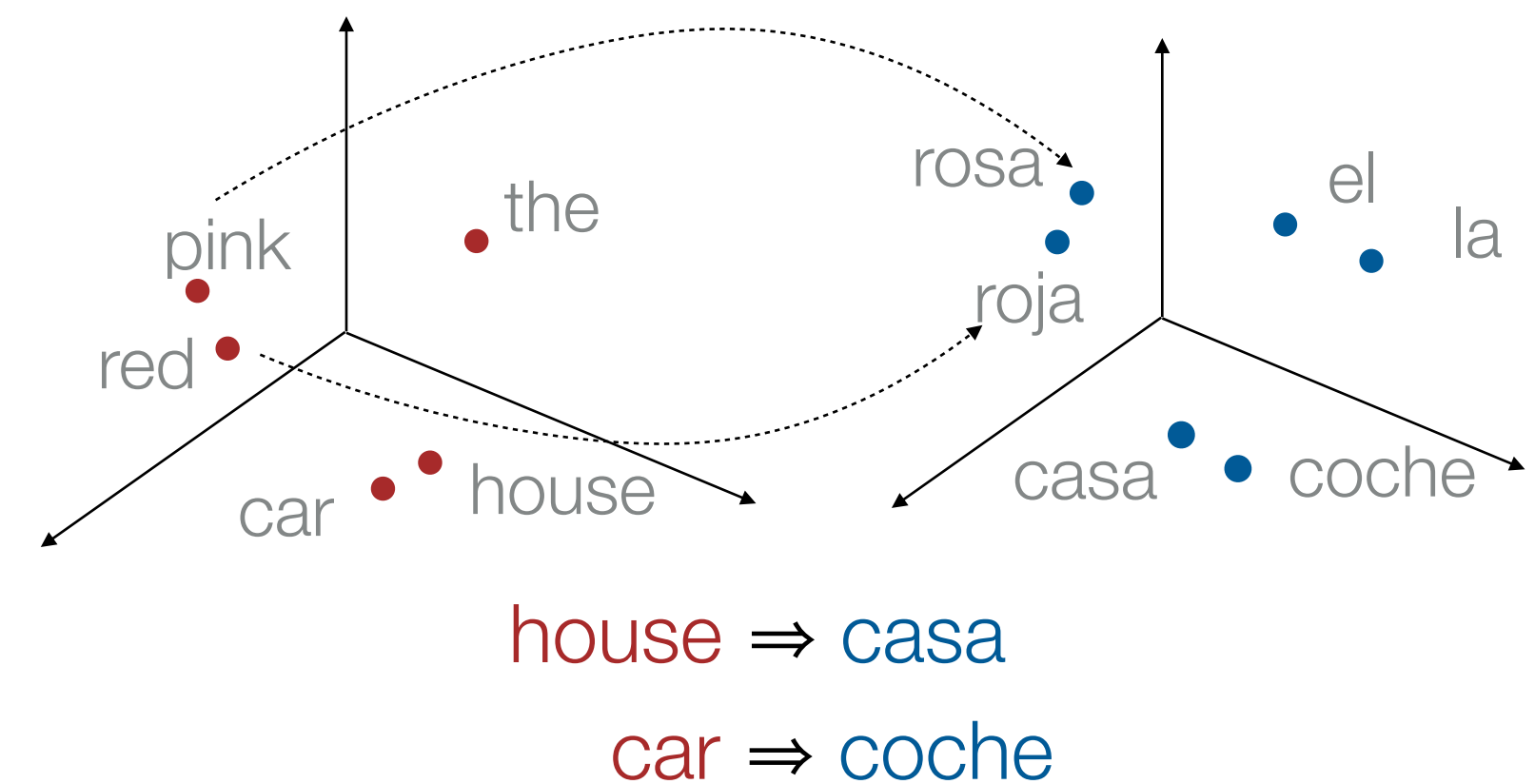
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Optimal Transport in a nutshell