

NLP and Word Embeddings

GloVe word vectors

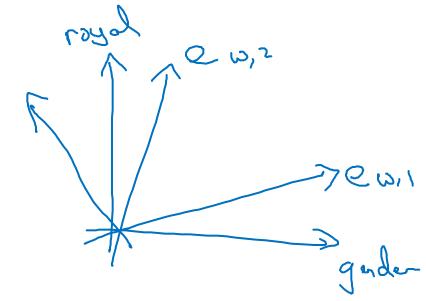
GloVe (global vectors for word representation)

I want a glass of orange juice to go along with my cereal.

Model

A note on the featurization view of word embeddings

		Woman (9853)	_	•	
• Gender	-1	1	-0.95	0.97	_
Royal	0.01	0.02	0.93	0.95	\leftarrow
Age	0.03	0.02	0.70	0.69	4
Food	0.09	0.01	0 02	0.01	<u>_</u>



minimize
$$\sum_{i=1}^{10,000} \sum_{j=1}^{10,000} f(X_{ij}) (\theta_i^T e_j + b_i - b_j' - \log X_{ij})^2$$