

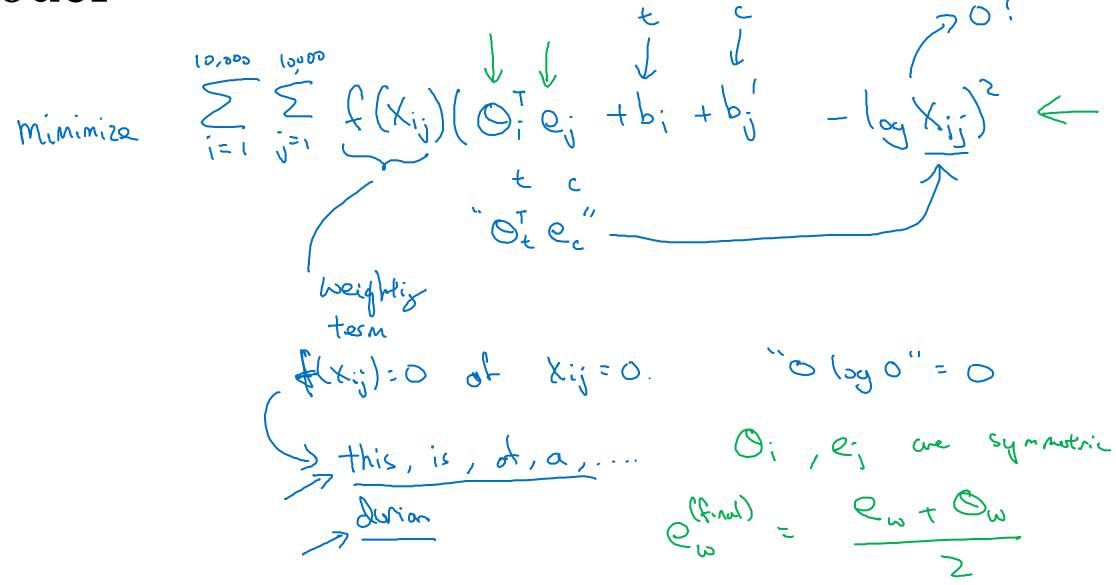
NLP and Word Embeddings

GloVe word vectors

GloVe (global vectors for word representation)

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

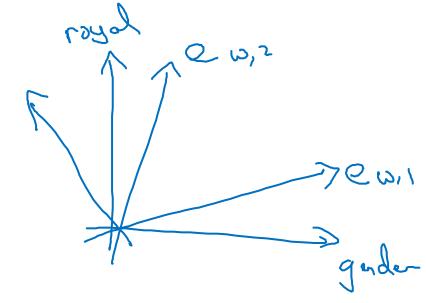
Model



A note on the featurization view of word embeddings

		Woman	_	•	
	(5391)	(9853)	(4914)	(7157)	_
` Gender	- 1	1	-0.95	0.97	<
`Royal	0.01	0.02	0.93	0.95	\in
Age	0.03	0.02	0.70	0.69	4
Food	0.09	0.01	0.02	0.01	

0.01 0.02



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

$$(A0:) (A7e_j) = 0.7447$$