

NLP and Word Embeddings

GloVe word vectors

GloVe (global vectors for word representation)

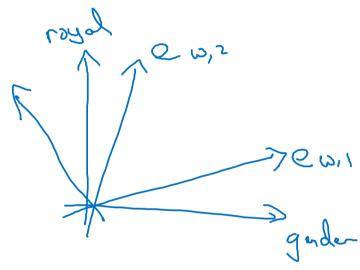
I want a glass of orange juice to go along with my cereal.

Model

A note on the featurization view of word

embeddings

		Woman (9853)	_		
Gender	,	,	-0.95	, ,	
Royal	0.01		0.93	0.95	\leftarrow
Age	0.03	0.02	0.70	0.69	~
Food	0.09	0.01	0.02	0.01	



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