

NLP and Word Embeddings

Word2Vec

Skip-grams

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

Contest	Torget
Orange	juice
Orando	glass
Orange	my

Model

Vocab size = 10,000k

Context c ("oran")
$$\rightarrow$$
 Turpet \pm ("juin")

Context c ("oran") \rightarrow Turpet \pm ("juin")

Quantity \Rightarrow Quantit

Andrew Ng

Problems with softmax classification

$$p(t|c) = \frac{e^{\theta_t^T e_c}}{\sum_{j=1}^{10,000} e^{\theta_j^T e_c}}$$
Hierahil softme.

$$\sum_{j=1}^{10,000} e^{\theta_j^T e_c}$$

How to sample the context c?

2 durion