

NLP and Word Embeddings

Word2Vec

Skip-grams

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

Torget orange Oronge

Model

Vocab size =
$$10,000k$$

Problems with softmax classification

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

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

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

How to sample the context c?

Andrew Ng