

NLP and Word Embeddings

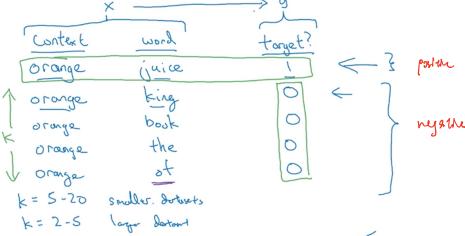
Negative sampling

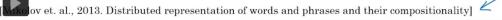


Defining a new learning problem

■ 网易云课堂

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





Andrew Ng

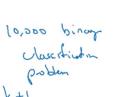


$$p(t|c) = \frac{e^{\theta_t^T e_c}}{\sum_{j=1}^{10,000} e^{\theta_j^T e_c}}$$

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

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





Andrew Ng

Selecting negative examples

■ 网易云课堂

$$b(\alpha') = \frac{\int_{0.000}^{2} f(\alpha')_{3/4}}{\int_{0.000}^{2} f(\alpha')_{3/4}} \frac{1}{\text{produred}} \frac{1}{\sqrt{1}}$$