

Learning Word Embeddings: Word2Vec & GloVe

✓ **Video:** Learning word embeddings 10 min

✓ **Video:** Word2Vec 12 min

✓ **Video:** Negative Sampling 11 min

✓ **Video:** GloVe word vectors 11 min

✓ **Reading:** GloVe word vectors *CORRECTION* 1 min

Applications using Word Embeddings

Practice questions

✓ **Quiz:** Natural Language Processing & Word Embeddings

GloVe word vectors *CORRECTION*

1. Correction in "GloVe word vectors," slide 2 (1:14):

X_{ij} is the number of times word j occurs in the context of word i .

Corrected slide:

GloVe (global vectors for word representation)

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

c, t
 $X_{ij} = \# \text{ times } j \text{ appears in context of } i$
 $\uparrow \quad \uparrow \quad \uparrow$
 $c \quad t \quad c$

[Pennington et. al., 2014. GloVe: Global vectors for word representation]

Andrew Ng

2. Correction in "GloVe word vectors" slide 4 (8:11):

typo:

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

corrected:

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

✓ Complete

Go to next item