



∷ Hide menu

Lecture: Word Embeddings

- Video: Week Introduction 1 min
- Video: Overview 2 min
- **Reading:** Overview
- Video: Basic Word Representations 3 min
- **Reading:** Basic Word Representations 5 min
- Video: Word Embeddings
- **Reading:** Word Embeddings 4 min
- Video: How to Create Word Embeddings 3 min
- **Reading:** How to Create Word Embeddings? 4 min
- **Video:** Word Embedding Methods 3 min
- **Reading:** Word Embedding Methods 4 min
- Video: Continuous Bag-of-Words Model 4 min

> Week 4 > Training a CBOW Model: Cost Function **Previous** Next >

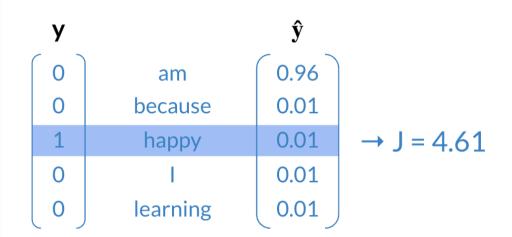
Training a CBOW Model: Cost Function

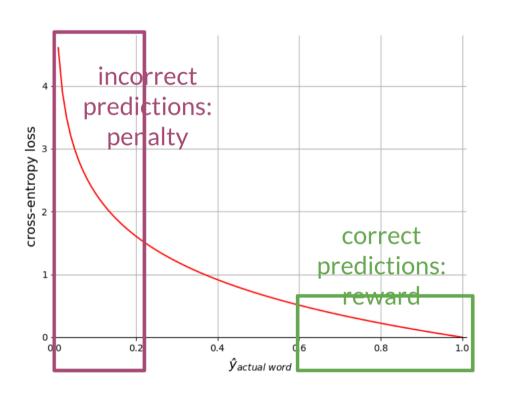
The cost function for the CBOW model is a cross-entropy loss defined as:

$$J = -\sum_{k=1}^V y_k \log \hat{y}_k$$

Here is an example where you use the equation above.

$$\textbf{J} = \textbf{-log} \ \hat{\textbf{y}}_{\text{actual word}}$$





Why is the cost 4.61 in the example above?

