



deeplearning.ai

NLP and Word Embeddings

Learning word embeddings

Neural language model

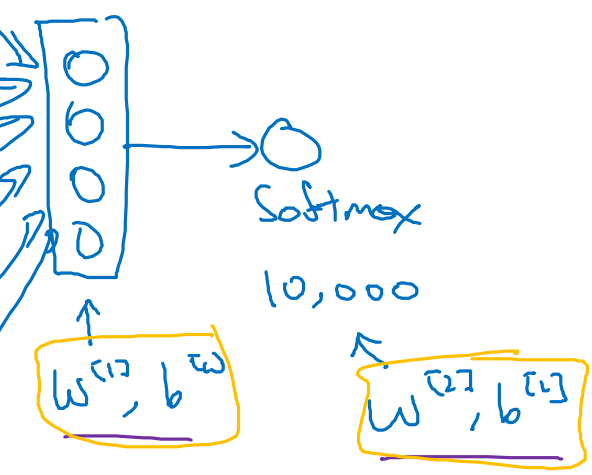
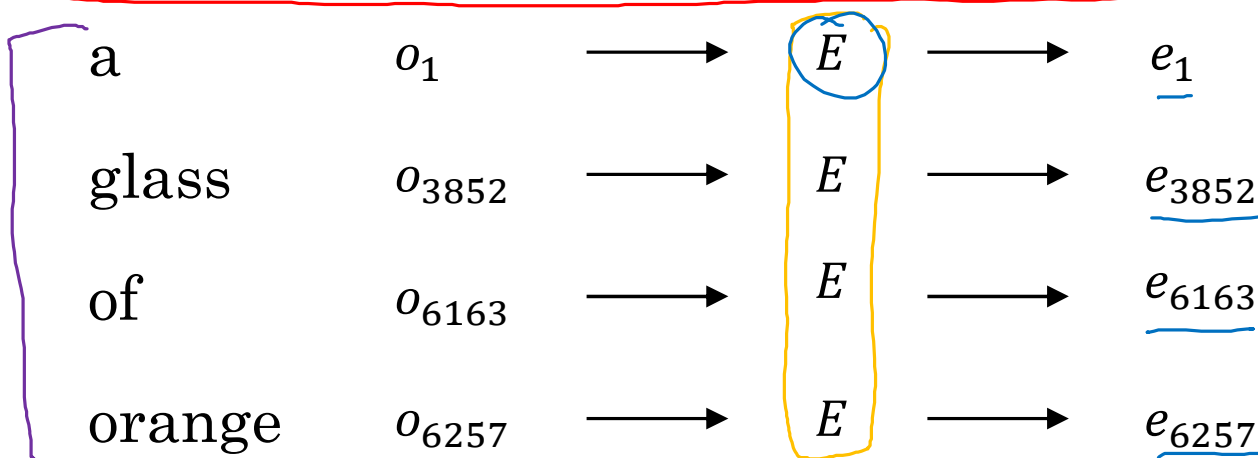
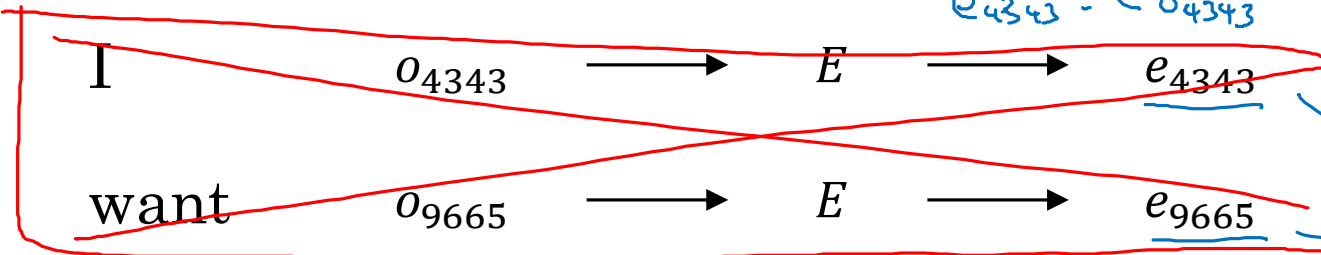
I want a glass of orange

4343 9665 1 3852 6163 6257

juice.

apple juice.

$$o_{4343} = E_{04343}$$



1800 1200

[Bengio et. al., 2003, A neural probabilistic language model]

Andrew Ng

Other context/target pairs

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

The diagram illustrates context and target pairs for the word 'juice'. A purple bracket under 'a glass of orange' is labeled 'context'. A blue bracket under 'juice' is labeled 'target'. A green bracket above 'orange' points to 'juice', indicating a nearby word context.

Context: Last 4 words.

- 4 words on left & right
- Last 1 word
- Nearby 1 word

a glass of orange ? to go along with

orange ?

glass ?

skip gram