

Congratulations! You passed!

received 100%

Latest Submission Grade 100%

To pass 80% or higher

Retake the assignment in 24h 59m

next item

1.	$Suppose\ you\ learn\ a\ word\ embedding\ for\ a\ vocabulary\ of\ 10000\ words.\ Then\ the\ embedding\ vectors\ could\ be$
	10000 dimensional, so as to capture the full range of variation and meaning in those words.

1 / 1 point

○ True

False



⊘ Correct

The dimension of word vectors is usually smaller than the size of the vocabulary. Most common sizes for word vectors range between 50 and 1000.

2. True/False: t-SNE is a linear transformation that allows us to solve analogies on word vectors.

1/1 point

False

○ True



⊘ Correct

tr-SNE is a non-linear dimensionality reduction technique.

3. Suppose you download a pre-trained word embedding which has been trained on a huge corpus of text. You then use this word embedding to train an RNN for a language task of recognizing if someone is happy from a shortsnippet of text, using a small training set.

1/1 point

x (input text)	y (happy?)
Having a great time!	1
I'm sad it's raining.	0
I'm feeling awesome!	1

Even if the word "wonderful" does not appear in your small training set, what label might be reasonably expected and the set of the word "wonderful" does not appear in your small training set, what label might be reasonably expected the word "wonderful" does not appear in your small training set, what label might be reasonably expected the word "wonderful" does not appear in your small training set, what label might be reasonably expected the word "wonderful" does not appear in your small training set, what label might be reasonably expected the word "wonderful" does not appear in your small training set, what label might be reasonably expected the word "wonderful" and "wonderful" does not appear in your small training set, what label might be reasonably expected the word "wonderful" and "wonderful" afor the input text "I feel wonderful!"?

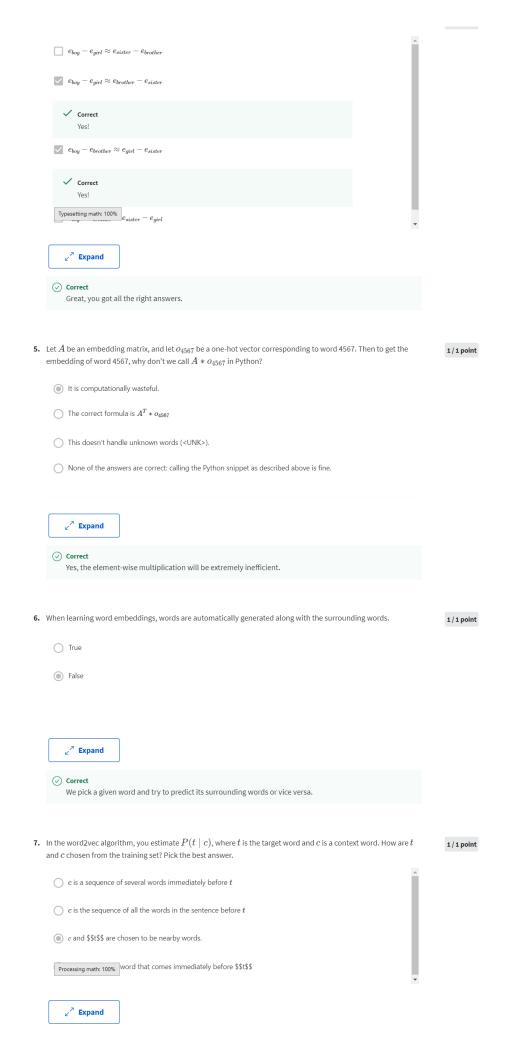
y=1

y=0



⊘ Correct

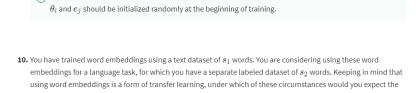
Yes, word vectors empower your model with an incredible ability to generalize. The vector for "wonderful" would contain a negative/unhappy connotation which will probably make your model classify the sentence as a "1".



⊘ Correct
Suppose you have a 10000 word vocabulary, and are learning 100-dimensional word embeddings. The word2vec model uses the following softmax function:
$P(t c) = rac{e^{ heta_t^T c_C}}{\sum_{t=0}^{10000} e^{ heta_t} c_C}$
Which of these statements are correct? Check all that apply.
\square After training, we should expect $ heta_t$ to be very close to e_c when t and c are the same word.
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
$ec{arphi}$ $ heta_t$ and e_c are both 100 dimensional vectors.
✓ Correct
Θ_t
$ heta_t$ and
$e_{_{\mathcal{C}}}$
$e_{ m c}$ are both trained with an optimization algorithm.
∠ ⁷ Expand
 Correct Great, you got all the right answers.
Suppose you have a 10000 word vocabulary, and are learning 500-dimensional word embeddings.The GloVe model minimizes this objective:
$\min \sum_{i=1}^{10,000} \sum_{j=1}^{10,000} f(X_{ij}) (heta_i^T e_j + b_i + b_j$ ' $- log X_{ij})^2$
True/False: $ heta_i$ and e_j should be initialized to 0 at the beginning of training.
○ True
False

9.

∠⁷ Expand



1 / 1 point

1/1 point

1/1 point

