✓ Congratulations! You passed Grade Latest Submission received 90% Grade 90%		Go to next item
	mg.rer	
1. True/False: Suppose you learn a word embedding foculd be 60000 dimensional, so as to capture the fu	for a vocabulary of 60000 words. Then the embedding vect ull range of variation and meaning in those words.	1/1 point
False		
True		
∠ ⁷ Expand		
Ocrrect No, the dimension of word vectors is usually for word vectors range between 50 and 1000.	smaller than the size of the vocabulary. Most common size	2S
for word vectors range between 50 and 1000.		
2. True/False: t-SNE is a non-linear dimensionality red	luction technique.	1/1 point
True False		
∠ ⁷ Expand		
t-SNE is a non-linear dimensionality reductio	n technique.	
	ding which has been trained on a huge corpus of text. You t guage task of recognizing if someone is happy from a short	
snippet of text, using a small training set. x (input text)	y (happy?)	
Having a great time! I'm sad it's raining.	0	
I'm feeling awesome! Even if the word "wonderful" does not appear in yo	our small training set, what label might be reasonably expe	ected
for the input text "I feel wonderful!"? y=0		
y=1		
✓ Expand ✓ Correct		
	an incredible ability to generalize. The vector for "wonderfion which will probably make your model classify the	tul"
4. Which of these equations do you think should hold $igspace{}{igspace{}{igspace{}}} e_{boy} - e_{brother} pprox e_{girl} - e_{sister}$	for a good word embedding? (Check all that apply)	1/1 point
✓ Correct Yes!		
$oxed{\Box} \ e_{boy} - e_{girl} pprox e_{sister} - e_{brother}$		
$ ightharpoonup e_{boy} - e_{girl} pprox e_{brother} - e_{sister}$		
✓ Correct Yes!		
$igsquare$ $e_{boy} - e_{brother} pprox e_{sister} - e_{girl}$		•
✓ CorrectGreat, you got all the right answers.		
5. True/False: The most computationally efficient form an embedding matrix, and o_{1021} is a one-hot vector	mula for Python to get the embedding of word 1021, if C is or corresponding to word 1021, is $C^Tst o_{1021}.$	1/1 point
TrueFalse		
∠ [™] Expand		
✓ Correct It is computationally wasteful because the element	ement-wise multiplication will be extremely inefficient.	
6. When learning word embeddings, we create an arti	ificial task of estimating $P(target \mid context)$. It is okay	/ if 1/1 point
we do poorly on this artificial prediction task; the n set of word embeddings.	nore important by-product of this task is that we learn a us	seful
True False		
Expand		
✓ Correct		
7. True/False: In the word2vec algorithm, you estimate and c are chosen from the training set to be nearby	te $P(t \mid c)$, where t is the target word and c is a context word words.	1. t 1/1 point
False		
True		
∠ ⁷ Expand		
 ✓ Correct Yes, t and c are chosen from the training set t 	to be nearby words.	
8. Suppose you have a 10000 word vocabulary, and a word2vec model uses the following softmax function $e^{\theta_t^T e_c}$		1/1 point
$P(t\mid c)=\frac{e^{\theta_t^T\epsilon_c}}{\sum_{t'=1}^{10000}e^{\theta_t^T\epsilon_c}}$ True/False: After training, we should expect θ_t to be	e very close to \boldsymbol{e}_c when t and c are the same word.	•
○ True		
False		
∠ ⁷ Expand		
✓ Correct To review this concept watch the Word2Vec leads to	ecture.	
9. Suppose you have a 10000 word vocal voc	re learning 500-dimensional word embeddings. The GloVe	
suppose you have a 10000 word vocabulary, and a model minimizes this objective: $\min \sum_{i=1}^{10,000} \sum_{j=1}^{10,000} f(X_{ij}) (\theta_i^T e_j + b_i + b_j)$		0 / 1 point
True/False: X_{ij} is the number of times word j appe		~
FalseTrue		
Expand Incorrect		
S\$X_{ij}\$\$ is the number of times word j apper GloVe Word Vectors lecture.	ears in the context of word i. To revise this concept watch th	he
10. You have trained word embeddings using a toyt day	taset of s_1 words. You are considering using these word	1/1 point
embeddings for a language task, for which you hav	re a separate labeled dataset of s_2 words. Keeping in minding, under which of these circumstances would you expect	that
\bigcirc $s_1 >> s_2$		
\bigcirc $s_1 \lessdot \lessdot s_2$		

∠⁷ Expand

⊘ Correct

\$\$s_1\$\$ should transfer to \$\$s_2\$\$