

**START OF QUIZ**

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## Question 1

Topic: Lecture 8

Source: Lecture 8

Do you think we could use word embeddings for coreference resolution? What kind of assumptions would we be making, and why do you think it might still be a very difficult task?  
(2)

## Question 2

Topic: Lecture 6

Source: Lecture 6

Think back to week 1 of this block when we were doing word sense disambiguation. Do you think there would be benefits or disadvantages to disambiguating all words before running word2vec? Explain. (2)

### Question 3

Topic: Lecture 7

Source: Lecture 7

Explain the underlying assumption of the TextTiling algorithm. (1)

## Question 4

Topic: Lecture 5

Source: Lecture 5

Which is likely to have the lowest PMI? A rare word and a frequent word that appear together frequently, or two frequent words that appear together frequently? (1)

## Question 5

Topic: Lecture 8

Source: Lecture 8

What is the purpose of an antecedent in anaphoric resolution? (1)

## Question 6

Topic: Lecture 5

Source: Lecture 5

We've seen co-occurrence matrices weighted by TF-IDF; would it make sense to weight them by PMI? Briefly explain. (1)

## Question 7

Topic: Lecture 6

Source: Lecture 6

We took a look at how vectors can be added / subtracted in vector space. Why does this work? (hint: think back to the general properties of word embeddings that we've wanted from the very start) (1)



## Question 8

Topic: Lecture 7

Source: Lecture 7

How is the TextTiling algorithm similar to the Lesk algorithm? How is it different? (2)

## Question 9

Topic: Long

Source: Lecture 5

All of these embeddings we've been looking at have been an effort to translate meaning into math, so that we can use computational algorithms (which are good at math) to process meaning. To what extent do you think that these are a good approximation for how we understand language, and to what extent do you think they are a poor approximation? (3)

**END OF QUIZ**