**.Question 1**

**Which of the following is true about word2vec model? GOT 0.6/1**



It has one trainable parameter per word.



It uses convolutional layers and pooling.



It's outputs (predictions) are linear functions of inputs.



It requires some text corpora for training.



It requires human-defined semantic relations between words.

**2.Question 2**

**How can you train word2vec model?**

By changing order of words in the corpora.

By learning to predict context (neighboring words) given one word.

By minimizing distance between human-defined synonyms and maximizing distance between antonyms.

By applying stochastic gradient descent.

By minimizing crossentropy (aka maximizing likelihood).

By learning to predict omitted word by it's context.

1 point

**3.Question 3**

**Here's an**[**online demo**](http://bionlp-www.utu.fi/wv_demo/)**of word2vec model. Let's use it to find synonyms for rare words.**

**Don't forget to choose English GoogleNews model.**

**Which of the following words is in top 10 synonyms for "weltschmerz".**



decrystalization



worldbuilding



big\_bang



despair

1 point

**4.Question 4**

**Which of the following is an appropriate way to measure similarity between word vectors v1 and v2? (more = better) WRONG**



cos(v1,v2)



-||v1 - v2||



||v1 - v2||



sin(v1,v2)

1 point



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