Word embeddings

1
point

1.

Which of the following is true about word2vec model?

- [ ] It has one trainable parameter per word.

- [ ] It uses convolutional layers and pooling.

- [x] It requires some text corpora for training.

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

- [ ] It requires human-defined semantic relations between words.

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2.

How can you train word2vec model?

- [ ] By changing order of words in the corpora.

- [x] By learning to predict context (neighboring words) given one word.

- [x] By learning to predict omitted word by it's context.

- [x] By minimizing crossentropy (aka maximizing likelihood).

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

- [x] By applying stochastic gradient descent.

3.

Here's an <u>online demo</u> 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".**

- ○ big_bang

- ○ decrystalization

- ○ worldbuilding

- ⦿ despair

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4.

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

- ☐ ||v1 - v2||

- ☑ cos(v1,v2)

- ☐ sin(v1,v2)

- ☑ -||v1 - v2||

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Quiz, 4 questions