# Week 1 Quiz

Passed

**9.5/10** points earned (95%)

Quiz passed!

Correct  
1 / 1 points

1. True or false? A paradigmatic relation is a relation between two words that tend to *co-occur* with each other, while a syntagmatic relation is between two words that tend to occur in a *similar* context.

1. True
2. **False**

Correct  
1 / 1 points

2. In a collection of English news articles, which word do you expect to have a higher IDF?

1. **“learning”**
2. “the”

Correct  
1 / 1 points

3. Suppose the pseudo-document representations for the contexts of the terms A and B in the vector space model are given as follows:

* dA = (0.10, 0.50, 0.00, 0.40, 0.00, 0.00)
* dB = (0.20, 0.40, 0.30, 0.00, 0.10, 0.00)

What is the EOWC similarity score?

1. 0.20
2. **0.22**
3. 0.02
4. 1

Correct  
1 / 1 points

4. True or false? Syntactic analysis (parsing) is an easier task than lexical analysis (part-of-speech tagging).

1. True
2. **False**

Correct  
1 / 1 points

5. "A man saw a boy with a telescope." What kind of ambiguity does the sentence have?

1. Word-level ambiguity
2. **Syntactic ambiguity**

Correct

0.5 / 1 points

6. In an online text mining application where response time is the key factor to consider, what kind of NLP features can be used? Check all that apply.

* **Syntactic parsing**
* **Word tokenization**
* Relation extraction
* POS-tagging

Correct  
1 / 1 points

7. True or false? Deeper NLP requires more human effort and usually is less accurate.

1. False
2. **True**

Correct  
1 / 1 points

8. True or false? Word-based representation is not powerful.

1. True
2. **False**

Correct  
1 / 1 points

9. Which of the following is correct about paradigmatic and syntagmatic words relations?

1. Syntagmatic relation implies paradigmatic relation.
2. Syntagmatic related words have high context similarity.
3. **Monday, Tuesday are words of paradigmatic relation.**
4. Paradigmatic related words have high co-occurrence.

Correct  
1 / 1 points

10. Why does EOWC not work well?

1. It favors matching rare words.
2. **It favors matching frequent terms.**
3. It treats words unequally.