

# Week 1 Quiz

10 试题

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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.

- ☐ True
- ☒ False

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2。

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

- ☒ "learning"
- ☐ "the"

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3。

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

$d_A = (0.10, 0.50, 0.00, 0.40, 0.00, 0.00)$

$d_B = (0.20, 0.40, 0.30, 0.00, 0.10, 0.00)$

What is the EOWC similarity score?

- ☒ 0.22
- ☐ 1
- ☐ 0.02
- ☐ 0.20
- 

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4.

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

- ☐ True
- ☒ False
- 

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5.

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

- ☒ Syntactic ambiguity
- ☐ Word-level ambiguity
-

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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
- 

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7.

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

- ☒ True
  - ☐ False
- 

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8.

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

- ☐ True
  - ☒ False
- 

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9.

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

- ☐ Paradigmatic related words have high co-occurrence.
- ☐ Syntagmatic related words have high context similarity.
- ☐ Syntagmatic relation implies paradigmatic relation.
- ☒ Monday, Tuesday are words of paradigmatic relation.

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10.

Why does EOWC not work well?

- ☒ It favors matching frequent terms.
- ☐ It favors matching rare words.
- ☐ It treats words unequally.



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