

Module 4 Quiz

TOTAL POINTS 5

1.Question 1

Which of the following is not included in WordNet:

- ☐ Sense of a word
- ☐ Derivationally related forms
- ☒ Pronunciation
- ☐ Synonyms

2.Question 2

If the shortest distance between words A and B in the WordNet hierarchy is 6, the path-based similarity measure $\text{PathSim}(A,B)$ would be:

- ☐ 6
- ☐ $1/6 = 0.167$
- ☐ $1 - 1/5 = 5/6 = 0.833$
- ☒ $1/(6+1) = 1/7 = 0.143$

3.Question 3

When computing the similarity between words C and D, the distributional similarity based metric gives a higher score than a path-based similarity measure. What can be inferred from this observation?

- ☐ Distributional Similarity-based measure is a better metric to compute similarity between C and D (because higher numbers are better)
- ☐ Path-based similarity measure is a better metric to compute similarity between C and D (because lower numbers are better)
- ☐ This cannot happen -- distributional similarity is always lower than path-based similarity.

- ☒ Nothing can be inferred. The similarity values from different measures cannot be directly compared.

4.Question 4

Which of the following approaches can be used to recognize monetary values (like USD 100, JPY 1000, etc.)

- ☐ Building regular expressions
- ☐ Looking up entries in a list
- ☐ Checking if something is capitalized or title cased
- ☒ All of the above

5.Question 5

Which of the following is not given as input for a topic modeling setup?

- ☐ Number of topics
- ☐ The document corpus
- ☒ The topics
- ☐ The topic modeling approach (LDA, PLSA, ...)