

Tutorial 5: Discourse and Dialog

Status: Completed

Your identity is visible during marking.

Submission deadline: 30 Aug 2019 23:55, 45 days left

Lecturer: Sylvie Saget (sylvie.saget@gu.se)

Part I: Discourse

From Sharid Loáiciga

Q1- What's the difference between Anaphora Resolution and Coreference Resolution? Please explain.

Q2- What's the role of parsing in Anaphora Resolution and Coreference Resolution? Please explain.

From ([Ivana Kruijff - 2002, Discourse Structure and Discourse Relation - Exercises](#))

Q3- Explain and illustrate with example how discourse structure correlate with anaphora, i.e. the availability of discourse referent

Q4- What indicators of discourse segmentation have been proposed by various researchers?

From (Jurafsky&Martin, 2009), Chapter 21

Q5- Hobbs (1977) cites the following examples from his corpus as being problematic for his tree-search algorithm:

- (21.96) Sites at which the coarse grey pottery of the Shang period has been discovered do not extend far beyond the southernmost reach of the Yellow river, or westward beyond its junction with the Wei.
- (21.97) The thin, hard, black-burnished pottery, made in shapes of angular profile, which archaeologists consider as the clearest hallmark of the Lung Shan culture, developed in the east. The site from which it takes its name is in Shantung. It is traced to the north-east as far as Liao-ning province.
- (21.98) He had the duty of performing the national sacrifices to heaven and earth: his role as source of honours and material rewards for services rendered by feudal lords and ministers is commemorated in thousands of inscriptions made by the recipients on bronze vessels which were eventually deposited in their graves.

In each case, identify the correct referent of the underlined pronoun and the one that algorithm will identify incorrectly. Discuss any factors that come into play in determining the correct referent in each case, and what type of information might be necessary to account for them.

Part II: Dialogue

From www.ello.uos.de

Q6 - Try to locate the speech acts of

- *divorcing*,
- *answering*,
- *complaining*,
- *betting*,
- *condoling*
- *declaring guilty*

in Searle's classification of speech acts.

Adapted from www.ello.uos.de

Q7 - Consider the following cartoon and analyze the caller's question and Calvin's answer on the basis of the distinction made between direct and indirect speech acts.





From Sylvie Saget

Q8 - Explain in your own words why latency is a problem to address for dialog systems

Return your answers in a pdf file - please, indicate your name in the pdf!

□ Sylvie Saget , 23 Jan 2019 11:05

Status set to: Revision required

■ Hemanth Kumar Battula , 23 Jan 2019 11:20

File name: [Tutorial5.pdf](#)  [Listen](#) (448,9 KB)

Status set to: Revision submitted

□ Sylvie Saget , 25 Jan 2019 17:06

Status set to: Completed

Comment: Hi Hemanth,

You obtain a G for tutorial 5.

Well done!

You really tried to answer all questions, with detailed explanations of your understanding.

I pretty think it was a good understanding for your learning

So that's a good job considering it is an introductory course

However, I do think it could be nice if you can come back to a detailed reading of the bibliography

as your understanding can be slightly improved and because all these notions are really fundamental for NLP

Typically - your definition of coreference and anaphora is lacking precision

You are on the right path but strong basis are important for the rest of this program!!

Best

Sylvie

□ **Sylvie Saget , 25 Jan 2019 17:13**

Comment: I mean "I pretty think it was a good exercise for your learning

" - my mistake

□ **Sylvie Saget , 8 Feb 2019 11:12**

Grade set to: G