Corpus Linguistics and Methodologies for Human Annotation: Introduction

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November 18, 2011
Who is involved?

Corpus Linguistics?

Course organization

YOU work

Conclusion of the introduction
People involved
People involved

You?
Who is involved?

Corpus Linguistics?

Course organization

YOU work

Conclusion of the introduction
Tell us

- which corpus/corpora do you know?
- what are their characteristics?
- what are they used for?
What will you study here?

Corpus Linguistics
What will you study here?

Corpus Linguistics
Linguistics (in a nutshell)?
Linguistics (in a nutshell)?

Scientific study of human language
(\textit{Wikipedia}, as of Nov. 18, 2010)
What will you study here?

Corpus Linguistics
What will you study here?

Corpus Linguistics
Corpus (more interesting here)?
Corpus (more interesting here)?

A corpus is a collection of pieces of language that are selected and ordered according to explicit linguistic [and/or extra-linguistic] criteria in order to be used as a sample of the language [Sinclair, 1996]
More generally

- “The study of language based on examples of ’real life’ language use” [McEnery and Wilson, 1996]
- Not only a methodology, but also a theory
- Not by itself a linguistic branch (unlike phonology, syntax or semantics), but transversal (in particular from the methodological point of view)
What will you study here?

**Computer** Corpus Linguistics [Leech, 1997], with particular emphasis on corpus annotation
and why should you study this?

- More and more corpora available
- More and more languages covered
- Bigger and bigger corpora available

⇒ More and more used in NLP
(Annotated) Corpora Usage in NLP

- Supervised learning - training and evaluation
- Unsupervised learning - evaluation
- Hand-crafted systems - learning and evaluation
- Analysis of text
Who is involved?

Corpus Linguistics?

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YOU work

Conclusion of the introduction
Rules, thank you!

- Everybody arrives **on time**
- Everybody attends all the classes
- If you talk, talk to all of us
- No Facebook, no mail, no telephone
- Do not hesitate to ask questions: there are silly questions, but I’ll answer them (once) too!
- Do not hesitate to tell me if I’m going too fast or too slow

And please, bring your laptop!
This course will not only be about what’s in the title. I hope it will also be about a more important thing:

**What is being a researcher?**

- Doubt and distance
- Ethics
- References, references, references
Course

- 20 hours of courses, in English
- Some practical activities, including:
  - a bit of oral corpus transcription
  - some corpus annotation
  - crowdsourcing, using AMT and PhraseDetective
  - inter-annotator agreement computation
  - presentations
More details

1. Corpus linguistics presentation
   • Course 1: Introduction and History
   • Course 2: Corpora Characteristics and Most Well-Known Corpora

2. Human annotation
   • Course 3: Practical Course, Transcribing with Transcriber (prereq.: install Transcriber and bring earphones)
   • Course 4: Practical Course, Annotating with GATE and Glozz (prereq.: install GATE and Glozz)
   • Course 5: Annotation: Introduction, Methodology, Formats
   • Course 6: Solutions for Annotation
   • Course 6/7: Practical Course, Crowdsourcing, using AMT and PhraseDetective

3. Evaluation
   • Course 7: Principles and Inter-annotator Agreement
   • Course 8: Practical course: Computing the Inter-annotator Agreement in an Annotation Campaign

4. Presentations by the students
   • Course 9/10: Presentations by the Students (20 min. each)
Who is involved?

Corpus Linguistics?

Course organization

YOU work

Conclusion of the introduction
Practical courses: transcribing

transcribing, using *Transcriber*
Practical courses: annotating

- dealing with an annotation project
- annotating, using *GATE* and/or *Glozz*
- annotating using crowdsourcing
- evaluating
Practical courses: presenting

- Search an annotated (if available) corpus in YOUR language
- Gather information about its creation, availability, etc.
- Present it to us (20 minutes), discussion

⇒ Will be part of your final grade (1/3)
⇒ Questions will be asked about those during the exam
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**Conclusion of the introduction**

Main References
Practical courses: please!

• install Transcriber (bring earphones!): http://trans.sourceforge.net/

• install GATE: http://gate.ac.uk/

• install Glozz (I have logins for all of you): http://www.glozz.org/
Glozz logins

- kfort_etudiant_1 = 37099
- kfort_etudiant_2 = 93711
- kfort_etudiant_3 = 55394
- kfort_etudiant_4 = 77852
- kfort_etudiant_5 = 21240
- kfort_etudiant_6 = 59557
- kfort_etudiant_7 = 46526
- kfort_etudiant_8 = 8209
- kfort_etudiant_9 = 64821
- kfort_etudiant_10 = 35913
Presentations: please!
Handouts

Available after each course (I’ll send you the URL, someone please send me your Emails).
