

Frantext POS annotation

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Frantext?

- Corpus of around 5500 works (read "book")
- mainly 20th and 19th century
- but, all periods of french language covered (not evenly)
- the whole corpus is tagged in Parts Of Speech and lemmas
- interrogation through a CQL based query language

Frantext

POS annotation

- a group of persons (including S. Ollinger, C. Benzitoun and L. Berrard)
 - √ defined a set of categories
 - √ built a gold corpus
 - √ learned a model with Talismane
- some particularities :
 - √ numbers are represented as a single token (even "deux millions trois cens sept mil cent trente-six" = 2.307.136)
 - √ some other "multi-token words" (search frequencies, reg. exp)

Talismane

- We use a rather old version of Talismane (A. Uriely)
- takes "sentences" as entry and produces a conll style output
- takes some time...
- in fact, Talismane is a dependency parser, we use only the POS tagging stage.

How texts enter Frantext

- I. Clément (and G. Toubiana) scan and OCR the texts
- they encode them in TEI (Text Encoding Initiative) using an XML editor
- they use a script that tag the texts using Talismane in the background
- and finally they transform the resulting annotated TEI into Frantext format.

Demo.

The problems

- Talismane (the version we use) relies too much on its sentence splitting
- Natural Language Processing progressed a lot
- the annotation process was designed for texts pots 1850 only

An attempt at Bert'izing the annotation

- the gold corpus is divided (as usual) in train, dev and test
- learned a "camembert" based POS tagger
- 97% on test (talismane does slightly better but was trained on test also)
- comparison between the two annotations
 - ✓ R467
 - ✓ S437

What to do next?

- tagging persNames and placeNames?
- design models for other periods of the french language
 - \checkmark {vieux Camem | Hau}bert a bert model for middle age french.

Contraints:

- have to scale to Frantext (5500 texts),
- have to provide a tool for the people that enter new texts into Frantext.