

#### Evaluation

- One can never overemphasize its importance
- Evaluation relative to a particular language
- \* Are aligners something that is worthwhile to evaluate in itself?



## The importance of evaluation

- Evaluation is itself a first-class research activity: creation of effective evaluation methods drives more rapid progress and better communication within a research community (Hirschman, 1988:302f)
- (Johansson, 1976?)



2006-10-10

#### Relative to language

- Language-independence is a myth
- Good strategies for one language do not necessarily carry through to other languages
- It is important to evaluate in a particular language in context, beyond "general" evaluation

Santos (1999)

# Evaluation of alignment

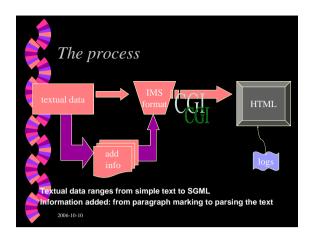
- Gaizauskas (1998:252) distinguishes between *user-visible* vs. *user-transparent* tasks : Clearly alignment is a usertransparent task
- Simard et al. (2000:38), however, states that "[bilingual text alignment] has in fact become a key element leading to recent advances in translation automation"

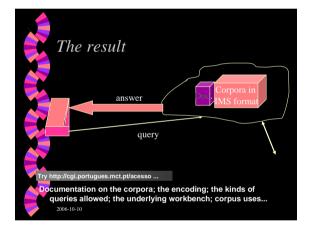
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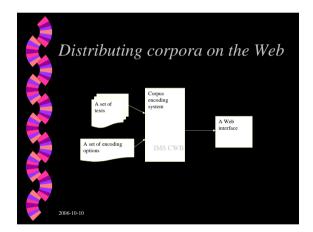


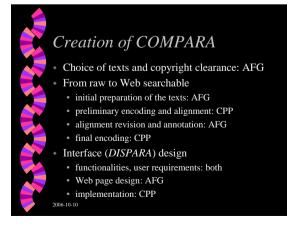
# The COMPARA/DISPARA project

- Initiative of Ana Frankenberg-Garcia (AFG), implementation in collaboration with our project
- COMPARA is an English-Portuguese parallel corpus of originals and translations in the 2 directions
- *DISPARA* is a Web interface developed in connection with the *COMPARA* corpus, to make parallel corpora available through the Web

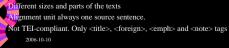






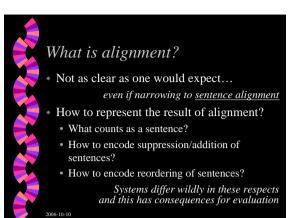


# Original (?) features of DISPARA Inspection of translator's notes (N.T.) Search by alignment type (1:2, 1:1/2, etc.) Quantitative display of parallel distribution Search in the two directions Arbitrarily complex query string in both sides

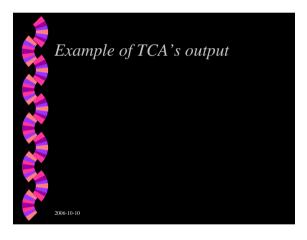


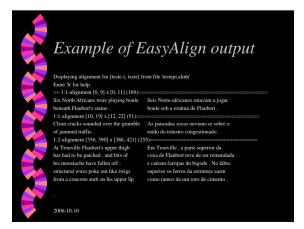
#### Research seminar, IBA, University of Oslo

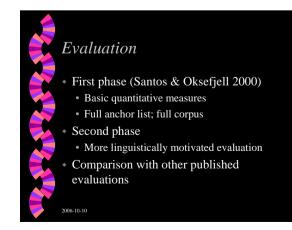








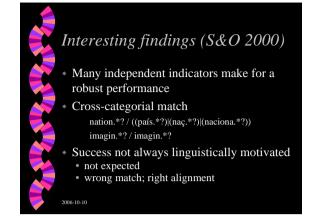






### S&O 2000's reported evaluations

- 1. Estimate the revision and correction involved for a given set of E-P texts
- 2. Estimate the contribution of the anchor word list to the above process
- 3. Look at the content of the anchor word list, for each entry and for each pair
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### Unexpected hits (S&O 2000)

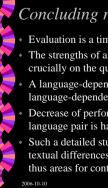
#### buil.\* / constru.\*

- Once the job is finished the **builders** are killed
- Terminada a obra, os construtores serão mortos.
- earli.\* / cedo:
  - She worked harder than anybody else, got up earlier, came to bed long after the others
  - Ela trabalhava mais que qualquer um, acordava cedo, era a que ia dormir mais tarde.

#### crim.\* / crim.\*:

- ... arrived in Sicily from somewhere far away, perhaps the Crimea,
- and within a few days ...
- ... chegou à Sicília vinda de um lugar distante, talvez da Criméia, 2006-10-10 e em poucos dias ...





#### Concluding remarks (S&O 2000)

- Evaluation is a time and resource consuming task
- The strengths of an NLP system may not depend
- crucially on the quality of the linguistic information A language-dependent system may not be that
- language-dependent after all Decrease of performance by adapting to a new
- language pair is hard to measure
- Such a detailed study pinpoints interesting areas of textual differences between the two languages, and thus areas for contrastive research

# Interesting research questions

- \* Are grammatical or lexical clues the best anchors?
- How much does crosscategorial translation help?
- Does translation direction play a role?

2006-10-10

• What kind of translation profile is best for alignment?