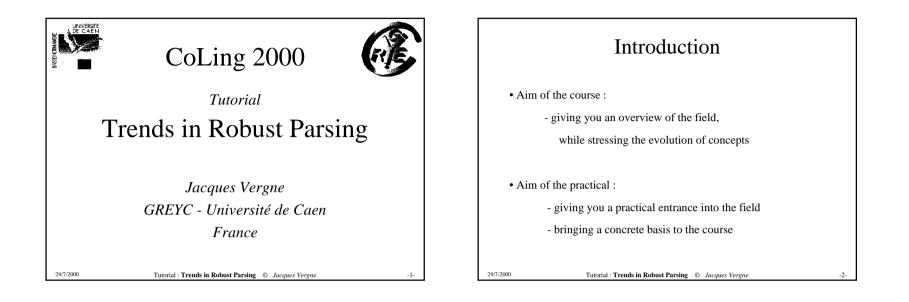
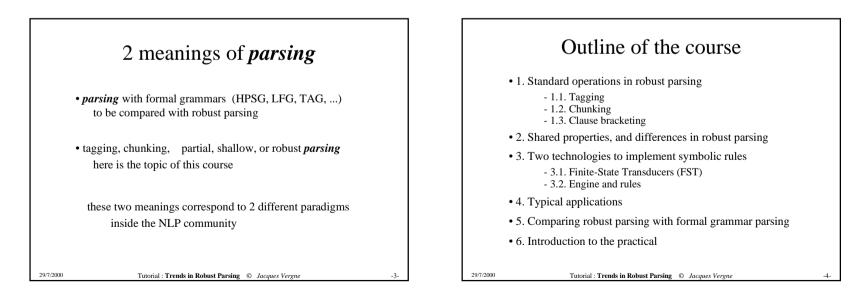
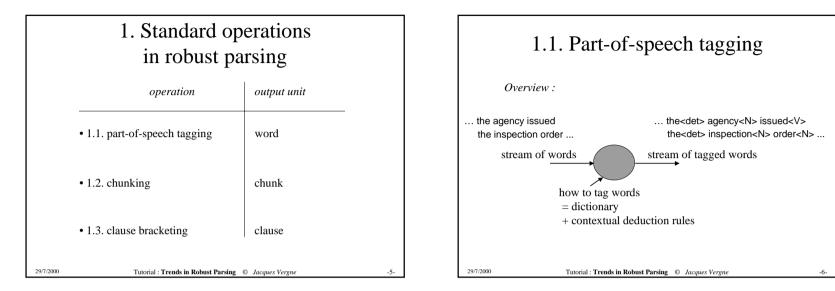
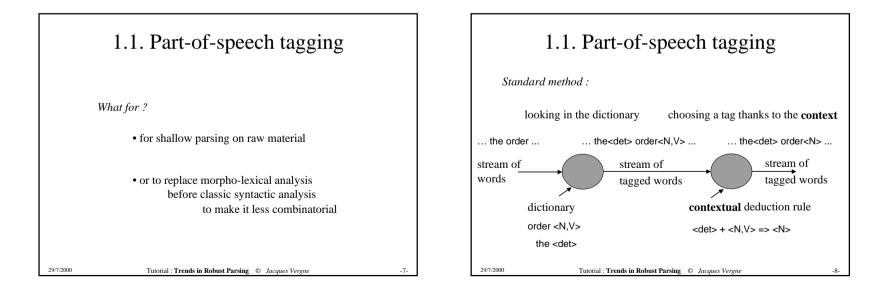
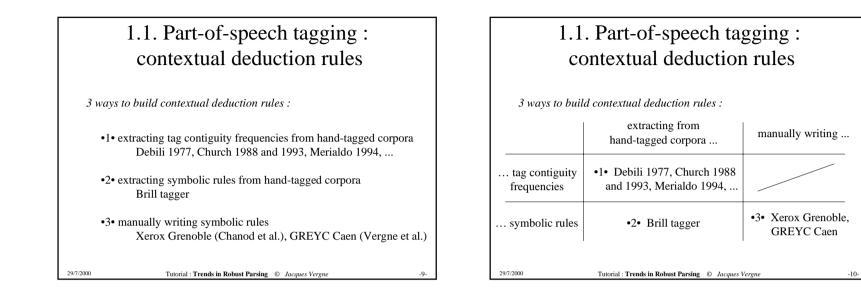
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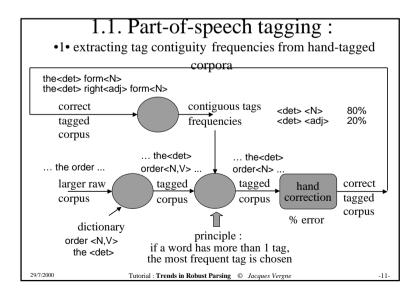


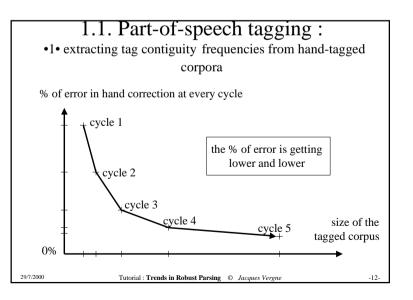


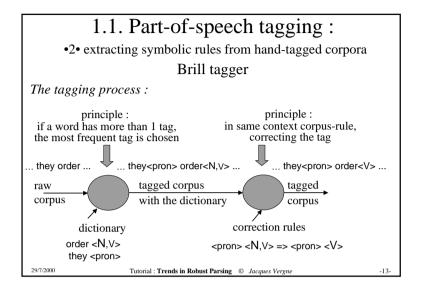


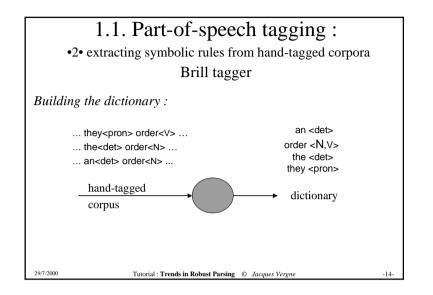


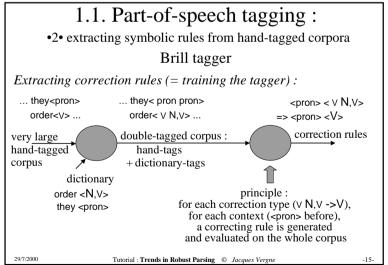


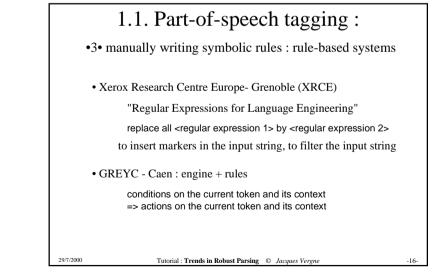




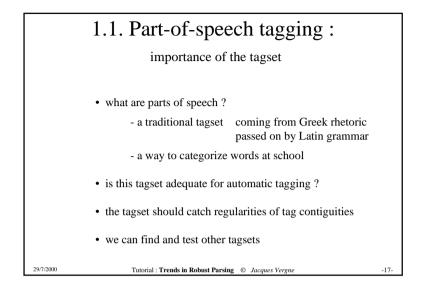


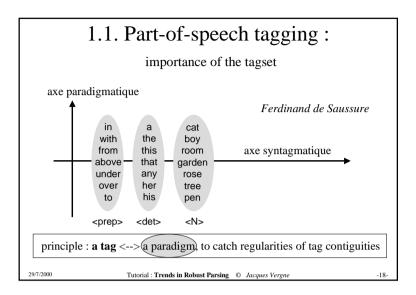


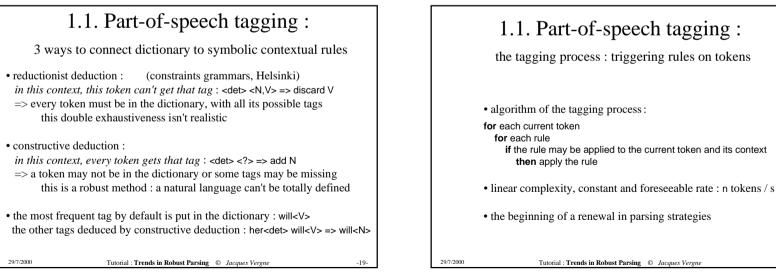




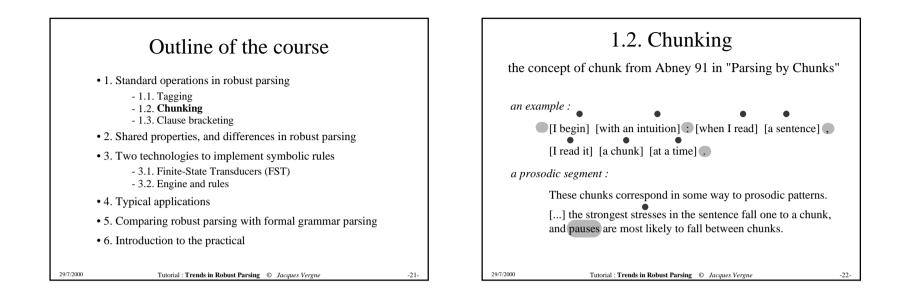
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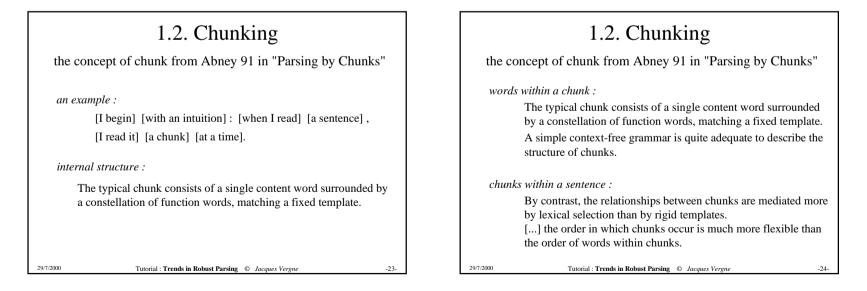


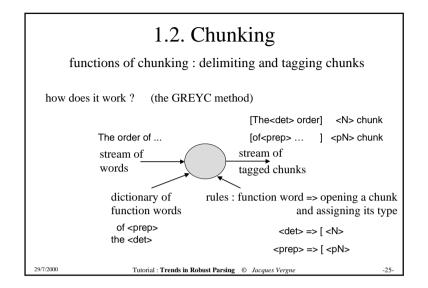


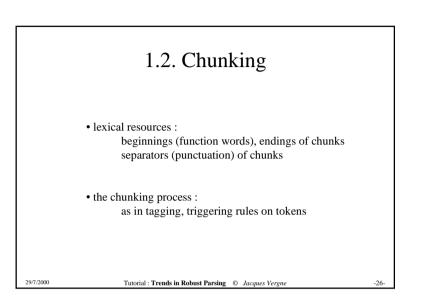


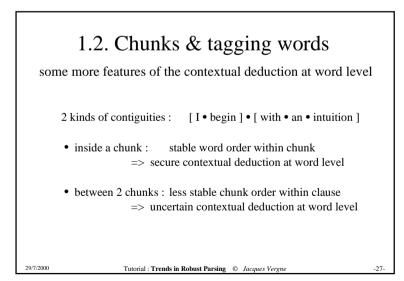
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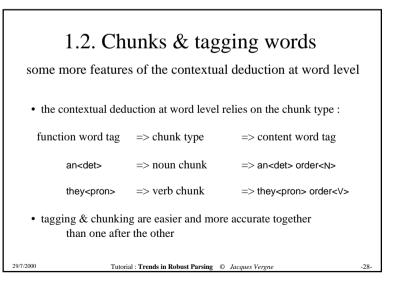


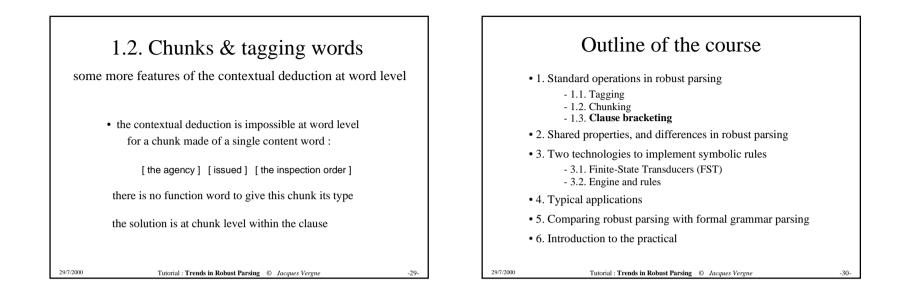


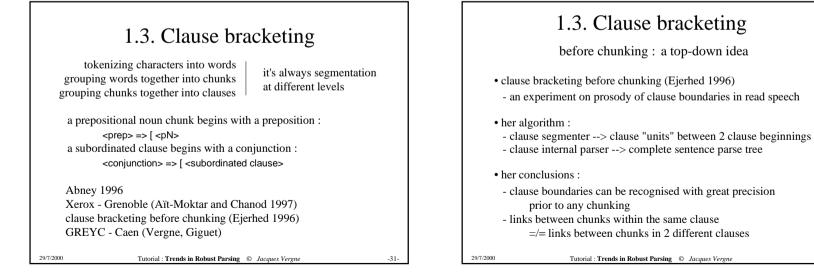




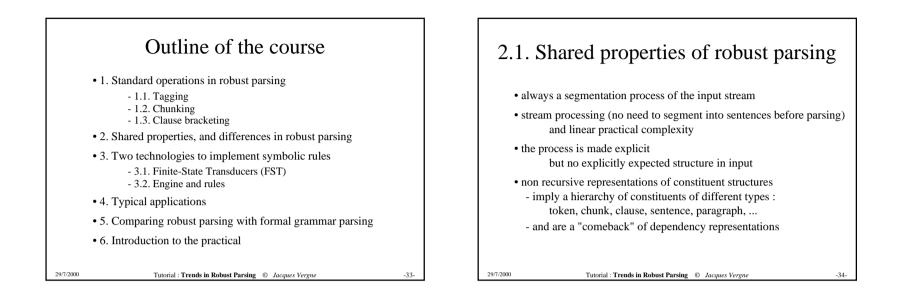








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-35-

# 2.2. Some differences inside robust parsing

• deduction process defined with statistics, or with symbolic rules

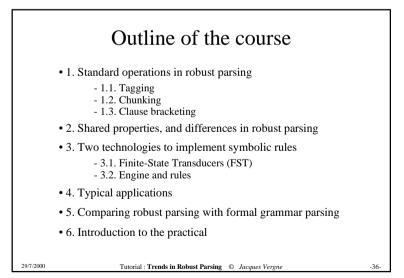
## implementations :

based on statistical models : Debili 1977, Church 1988, Merialdo 1991, Briscoe 1993, ...
based on symbolic rules

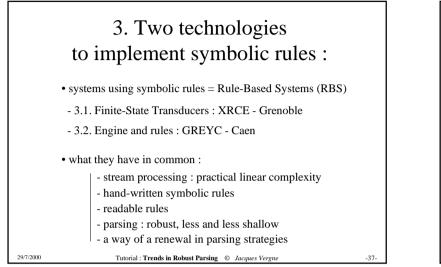
finite-state transducers : Abney 1996, Ejerhed 1996, Aït-Moktar and Chanod 1997 (XRCE Grenoble), ...
rules and engine : Vergne, Giguet (GREYC Caen)

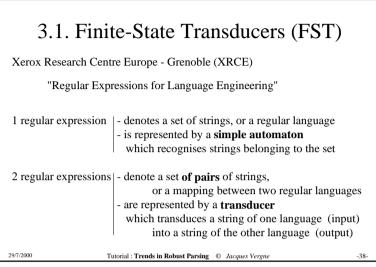
symbolic rules : reductionist deduction, or constructive deduction
lexical resources : nearly exhaustive, or only function words

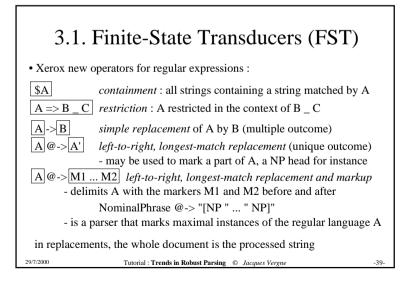
## Tutorial : Trends in Robust Parsing © Jacques Vergne



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# 3.1. Finite-State Transducers (FST)

# • a finite-state marker

= a FST which introduces extra symbols into the input string

• a finite-state **filter** 

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= a FST which outputs only certain parts of the input string

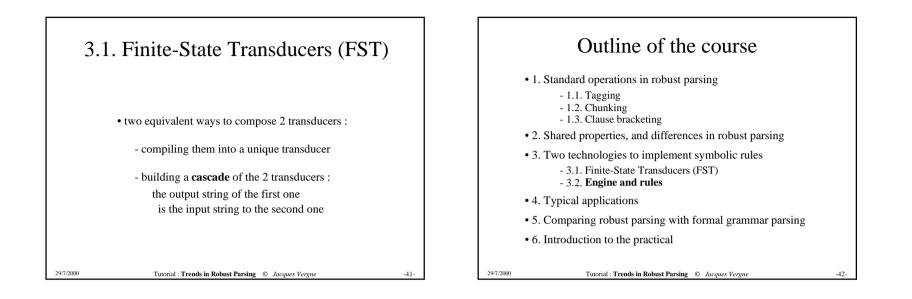
• a finite-state light **parser** may be defined in the following way:

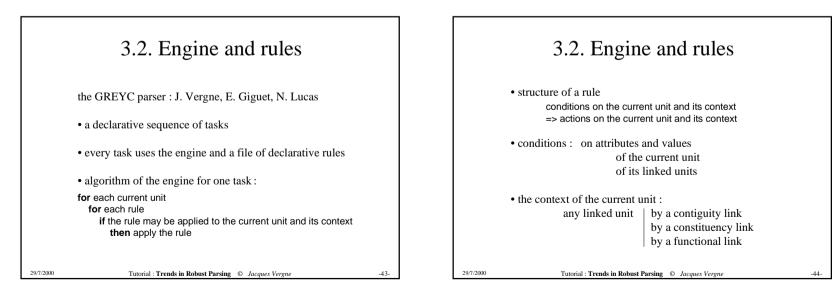
 using the longest-match and replacement operator, FS-markers identify noun group and verbal group boundaries
 FS-markers label the nominal or verbal heads within each group

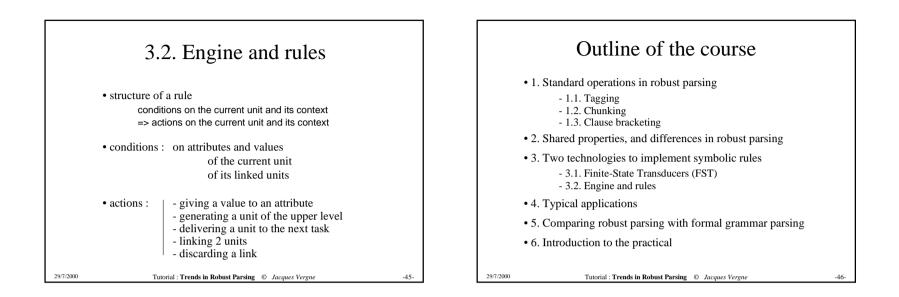
(3) **FS-filters** extract and label the syntactic relations between words within and across group boundaries

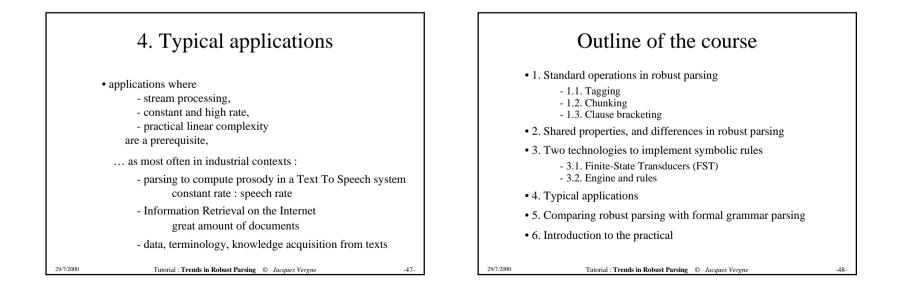
Tutorial : Trends in Robust Parsing © Jacques Vergne

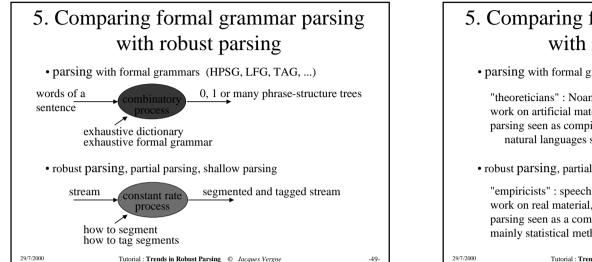
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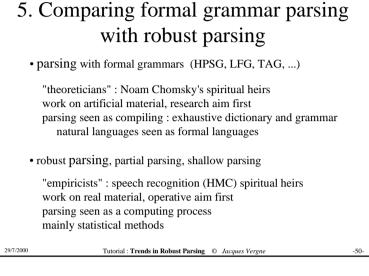


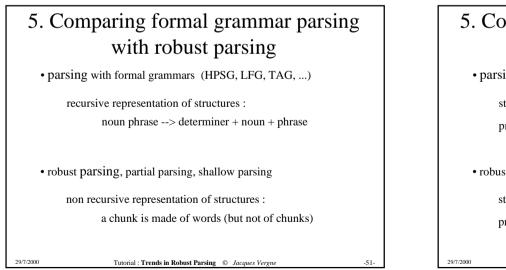












# 5. Comparing formal grammar parsing with robust parsing. • parsing with formal grammars (HPSG, LFG, TAG, ...) structures : expressed in an input formal grammar process : combinatory, by exhaustive tree search • robust parsing, partial parsing, shallow parsing structures : computed and output process : expressed in input contextual rules

