MT Summer Term 2021 Ex1: Introduction; Why is MT hard?; RBMT.



- 1. In your own words, why is MT hard?
- 2. Please give at least two interpretations for each of the following (examples from Chris Manning):
- Minister Accused Of Having 8 Wives In Jail
- Juvenile Court to Try Shooting Defendant
- Teacher Strikes Idle Kids
- Miners refuse to work after death
- Local High School Dropouts Cut in Half
- Red Tape Holds Up New Bridges
- Clinton Wins on Budget, but More Lies Ahead
- Hospitals Are Sued by 7 Foot Doctors
- Police: Crack Found in Man's Buttocks



- 3. Give an example of lexical ambiguity and an example of structural ambiguity
- 4. Can you bracket the following in different ways to show how they are ambiguous:
- Chinese history teacher
- Unlockable

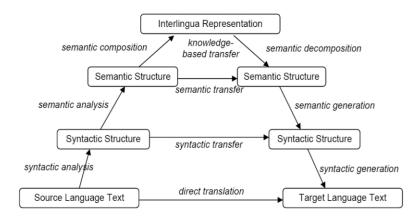
- She saw the boy with the telescope
- Visiting relatives can be dangerous



- 5. What is "culture translation"?
- 6. What is a pr
 - 6. What is a pro-drop language?



- 7. What are SVO, SOV and VSO languages? How many possible oderings of {S,V,O} are there?
- 8. In your own words, describe the "Vauquois Triangle" for rule-based MT (RBMT) below:



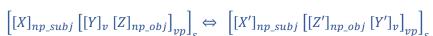


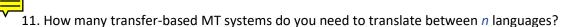
9. Design a set of direct translation rules that translate:

an English garden ⇔ ein englischer Garten

an English garden ⇔ un jardin anglais

0. Design a set of analysis, transfer and generation rules (incl. lexical rules) based on CFG representations that translate. It may help to draw them as CFG trees.





- 12. What is interlingua-based MT?
- 13. In your own words, what are the pros and cons of RBMT?