



Applications of NLP

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Information available in audio.



Agenda

- Overview
- NLP
- Applications



NLP

Natural Language Processing

A subfield of linguistics, computer science, and artificial intelligence concerned with the interactions between computers and human language,



Applications

MACHINE TRANSLATION (MT)

- MT Textual or oral
- Different degrees of human interventions

INFORMATION RETRIEVAL (IR)

- Text, Speech, Structured Information
- Information according to the users need

QUESTION ANSWERING (Q&A)

- Natural extraction of IR

INFORMATION EXTRACTION (IE)

- Extracting useful information from free text
- MUC, ACE, TAC challenges

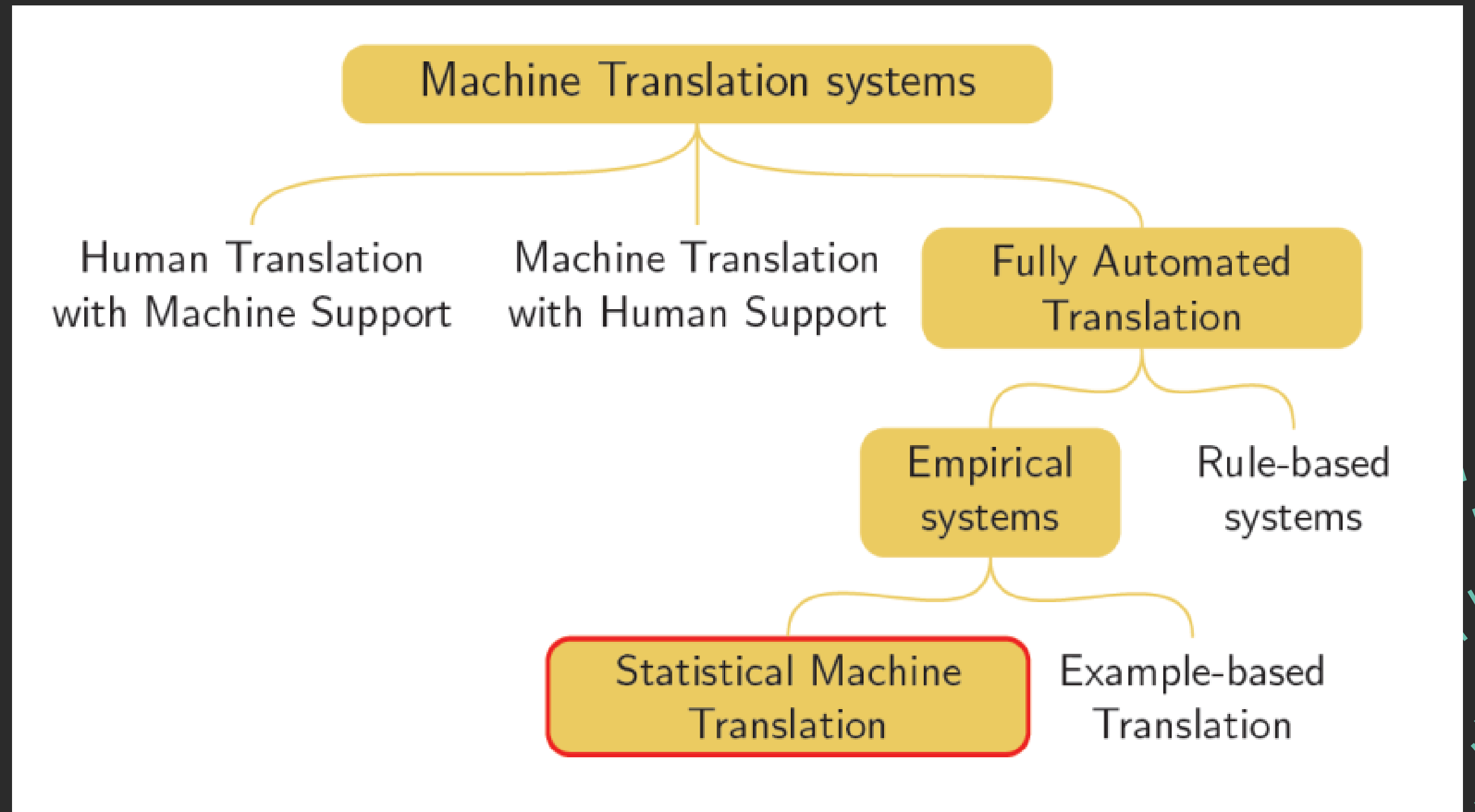
Machine Translation

- Process of translating a text from a source language to a target language preserving some properties

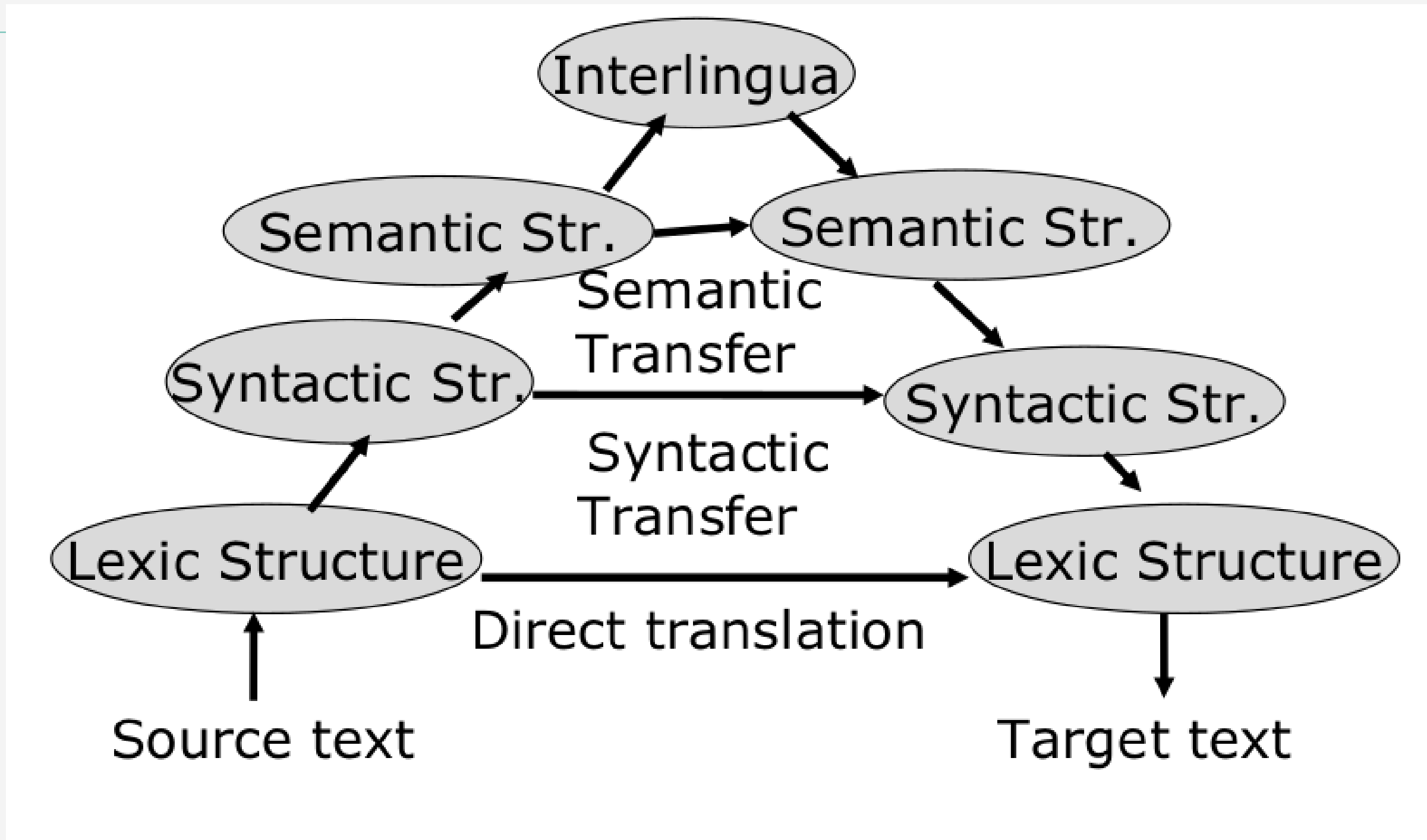
The main property to preserve (but not only)
is the **meaning**

- MT textual vs oral
- Different Degrees of Human intervention

MACHINE TRANSLATION



Machine Translation



QUESTION ANSWERING

- Natural extension of IR
- A QA system receives a query expressed in NL and tries to provide not a document containing the answer but the proper answer
- QA system need to use the NLP techniques for both precessing the question and looking for the answer.



Question Answering

Some QA systems that can be accessed through the web

- Webclopedia
<http://www.isi.edu/natural-language/projects/webclopedia>
- AskJeeves
<http://www.ask.com>
- LCC
<http://www.languagecomputer.com>



Thank you :)

