Machine Translation



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Many slides from John DeNero and

Translation Task

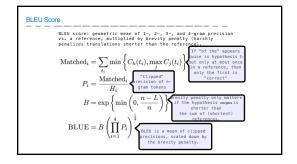
- Text is both the input and the output.
- Input and output have roughly the same information content.
- Output is more predictable than a language modeling task.
- · Lots of naturally occurring examples.

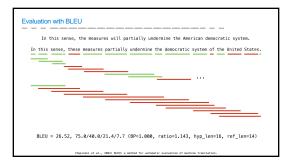
Translation Examples

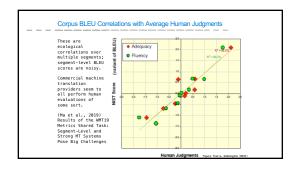
Republican leaders justified their policy by the need to combat electoral fraud.

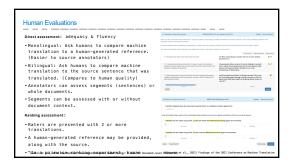
Die Führungskräfte der Republikaner
The Executives of the republican
rechtfertigen ihre Politik mit der
justify your politics with of the
Notwendigkeit , den Wahlbetrug zu
need , the election fraud to
bekämpfen .

Evaluation

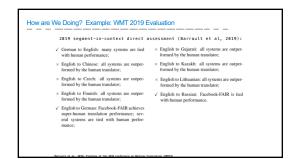




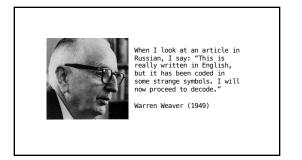


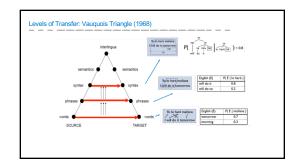


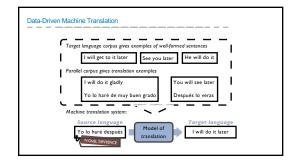
Translationese and Evaluation Translated text can: (Baker et al., 1993; Graham et al., 2019) • be more explicit than the original source • be less ambiguous • be simplified (lexically, syntactically, and stylistically) • display a preference for conventional grammaticality • avoid repetition • exaggerate target language features • display features of the source language "If we consider only original source text (i.e. not translated from another language, or translationese), then we find evidence showing that human parity has not been achieved." (Toral et al., 2018)

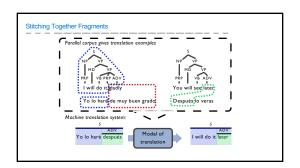


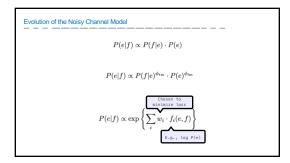












Word Alignment and Phrase Extraction

