



# NLP Tasks: Neural Machine Translation (NMT)

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3

- Machine translation is the task of converting text from one language into another while preserving semantic meaning and stylistic features

- Example:

# Machine Translation (MT) Lead

Text

Documents

DETECT LANGUAGE

ENGLISH

SPANISH

FRENCH



CHINESE (TRADITIONAL)

CHINESE (SIMPLIFIED)

ENGLISH



BERT is a far superior to ERNIE



BERT 远优于 ERNIE



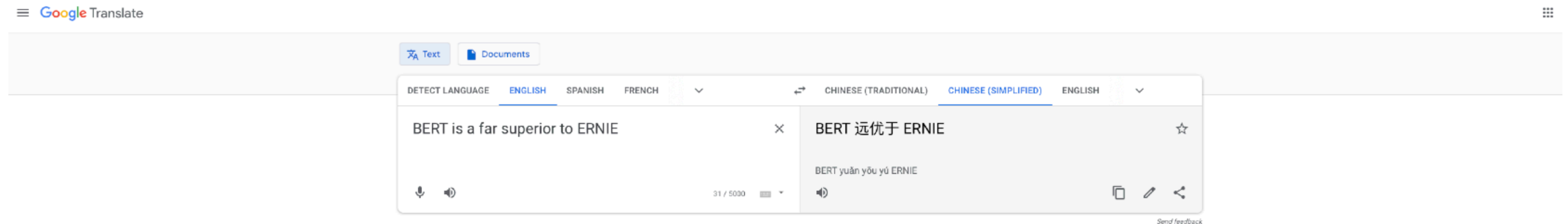
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# NLP Tasks: Neural Machine Translation (NMT)




















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Machine Translation (MT) leaderboard

# The GLUE benchmark

- Evaluating NLP systems on individual tasks seems a bit silly. A better approach to evaluating a model's language understanding capability is to evaluate it on many tasks. This is the idea behind the GLUE benchmark.

| GLUE Tasks                             |   |   |                       |
|--|---|---|-----------------------|
| Name                                   | Download  | More Info   | Metric                |
| The Corpus of Linguistic Acceptability |    |    | Matthew's Corr        |
| The Stanford Sentiment Treebank        |    |    | Accuracy              |
| Microsoft Research Paraphrase Corpus   |   |   | F1 / Accuracy         |
| Semantic Textual Similarity Benchmark  |  |  | Pearson-Spearman Corr |
| Quora Question Pairs                   |  |  | F1 / Accuracy         |
| MultiNLI Matched                       |  |  | Accuracy              |
| MultiNLI Mismatched                    |  |  | Accuracy              |
| Question NLI                           |  |  | Accuracy              |
| Recognizing Textual Entailment         |  |  | Accuracy              |
| Winograd NLI                           |  |  | Accuracy              |
| Diagnostics Main                       |  |  | Matthew's Corr        |