

Evaluation of Named Entity Recognition

The extension of Precision, Recall, and the F measure to sequences

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The Named Entity Recognition Task

Task: Predict entities in a text

Foreign ORG

Ministry ORG

spokesman O

Shen PER

Guofang PER

told O

Reuters ORG

:

Standard evaluation

is per entity, not per token

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Precision/Recall/F1 for IE/NER

- Recall and precision are straightforward for tasks like IR and text categorization, where there is only one grain size (documents)
- The measure behaves a bit funnily for IE/NER when there are boundary errors (which are common):
 - First Bank of Chicago announced earnings ...
- This counts as both a fp and a fn
- Selecting nothing would have been better
- Some other metrics (e.g., MUC scorer) give partial credit (according to complex rules)



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