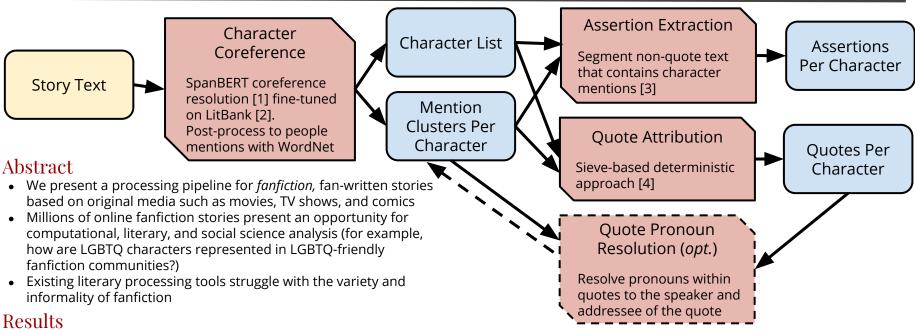
## FanfictionNLP: A text processing pipeline for fanfiction



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On an annotated dataset of 10 fanfiction stories

Coreference resolution system	CoNLL F1
BookNLP [5]	38.5
BERT-base (LitBank fine-tune)	58.4
SpanBERT-base (LitBank fine-tune)	64.8
FanfictionNLP	71.4

F1
34.7
53.6
67.8
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- 1. Joshi, Chen, Liu, Weld, Zettlemoyer, and Levy. 2020. SpanBERT: Improving pre-training by representing and predicting spans. TACL 8:64-77.
- 2. Bamman, Lewke, and Mansoor. 2020. An Annotated Dataset of Coreference in English Literature, LREC, 44-54.
- 3. Hearst. 1997. TextTiling: Segmenting text into multi-paragraph subtopic passages. Computational Linguistics, 23(1):33-64.
- 4. Muzny, Fang, Chang, and Jurafsky. 2017. A two-stage sieve approach for quote attribution. EACL, 460-470.
- 5. Bamman, Underwood, and Smith. 2014. A Bayesian Mixed Effects Model of Literary Character, ACL, 370-379.
- 6. He, Barbosa, and Kondrak. 2013. Identification of speakers in novels. ACL, 1312-1320.