Generating Questions from Fables

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Our Approach:-

We built a rule based system for replacing phrases and words by 'Wh' words.

What We used:-

1. Selenium and Geckodriver for webscraping stanford parser.

   A. We took text from stanford parser site and converted it to nltk.Tree type

2. Nltk toolkit for NLP
3. Wordnet approach for Named Entity Recognition
4. All of the compution is done in python3

Rules:-

1. Possesive pronouns are replaced by 'whose' word
2. Pronouns(PRP tags) other than it are replaced by 'who'
3. It is replaced by 'what'
4. Smallest noun phrases(chunks) based on their named entity (if person or animal) then that chunk is replaced by 'who'
5. If the above chunk is directly inside a verb phrase then it is replaced by 'whom'
6. 'when' and 'where' are replaced based on NE of the main Noun in a noun chunk
7. We removed the Subordinate clause and ran the above rules again on the sentence and that generated more meaningful questions from the sentence

Readings:-

->Michael Heilman and Noah A. Smith

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https://apps.dtic.mil/dtic/tr/fulltext/u2/a531042.pdf?fbclid=IwAR1izZnWLxSDk9Y83ZL7_YUBNvvJPUm2cAm8rYmXw15a79H_BJz1uJhEnLQ)

->Payal KhullarKonigari RachnaMukul HaseManish Shrivastava

(https://aclweb.org/anthology/P18-3022?fbclid=IwAR2ELe-quyZPSCgWAFmfhfjeXNgeDta5jOWJgtWKbA0WrerGsbYDOLtAhyA)

->Nguyen-Thinh LE & Niels Pinkwart

(https://www.researchgate.net/publication/273630846_Question_Generation_Using_WordNet?fbclid=IwAR3u2VdHW8wuBvfmkNX8r3T1OW5ldQPRO-aC10-MISy4ij5erARw6Mlq2o)

->Dan Shen and Mirella Lapata

(https://www.aclweb.org/anthology/D07-1002?fbclid=IwAR1pkRr4TtdOC90bSJDQpsTsB0cF6DVivG7D7thzyvy4UixJpIMrCBXQ7_0)

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----------------------We successfully built the implimention system and are working on creating more rules for question generation----------------------