

Text Simplification

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Advancement

- Adjustments in the code
- Automatic evaluation
- Manual evaluation
- Website interface

Adjustments in the code

Syntax simplification:

- PP

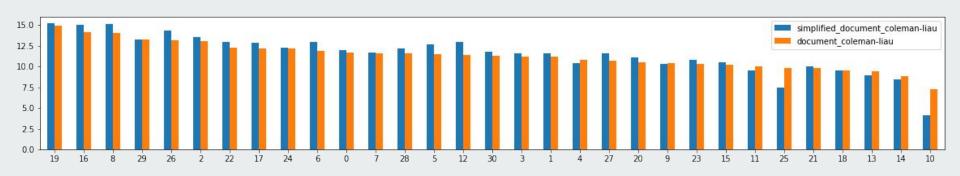
Lexical simplification:

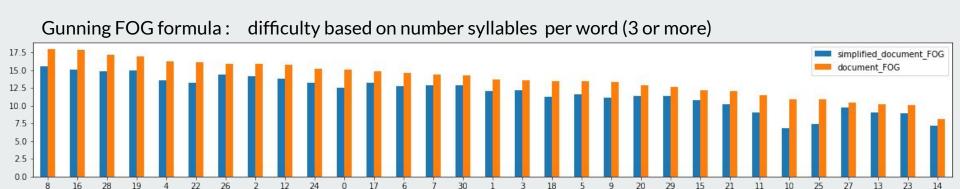
- Adjectif comma Noun

Automatic evaluation

- 31 articles (Wikipedia Data Sets)
- 2922 sentences
- 3 readability score

Coleman-Liau Index: difficulty based on number of character per word







Manual Evaluation

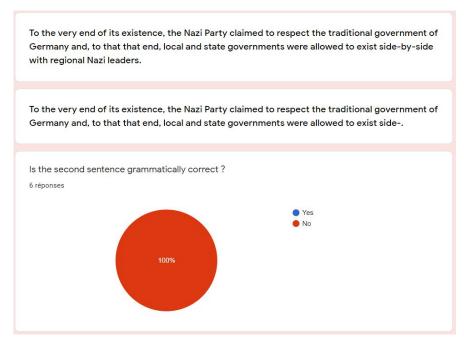
Process

- Sample 100 pairs of sentences
- Distributed in 5 forms
- 2 questions for each pairs:
 - Is the simplified sentence grammatically correct?
 - How did the simplification do?

A new Japanese government that came to power in 2009 froze the relocation plan, but in April 201 indicated their interest in resolving the issue by proposing a modified plan. Description (facultative)
A new Japanese government that came to power froze the relocation plan, but indicated their interest in resolving the issue by proposing a modified plan. Description (facultative)
Is the second sentence grammatically correct ? * Yes No
How did the simplification do? * Simplification caused ungrammaticality Oversimplified Simplified a bit Simplified just enough to your liking

Results (on a very (very) few answers)

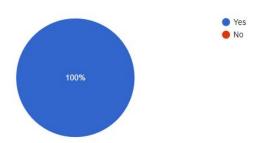
Simplification caused ungrammaticality sometimes



Results

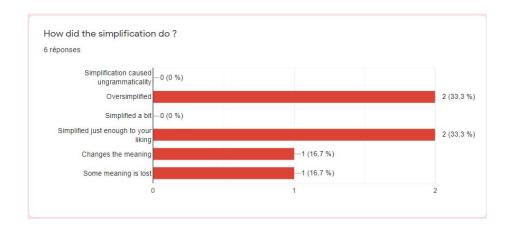
 Some sentences are better suited to some people than others

Is the second sentence grammatically correct?



50 Cent later claimed that if Graduation were to sell more records than Curtis, he would stop releasing solo albums.

50 Cent later claimed that if Graduation were to sell more records, he would stop releasing solo albums.



Website interface



Make it easy



Your Text:

The scapula is a wide, flat bone lying on the thoracic wall that provides an attachment for three groups of muscles: intrinsic, extrinsic, and stabilising and rotating muscles. The intrinsic muscles of the scapula include the muscles of the rotator cuff—the subscapularis, teres minor, supraspinatus, and infraspinatus. These muscles attach to the surface of the scapula and are responsible for the internal and external rotation of the shoulder joint, along with humeral abduction.

SIMPLIFY

SimplifiedText:

The bone is a wide, flat bone lying. The thoracic wall provides an attachment for three groups of muscles: intrinsic, extrinsic, and stabilising and rotating muscles. The intrinsic muscles of the bone include the muscles of the rotator cuff— the subboneris, muscle, supraspinatus, and infraspinatus. These muscles include the surface of the bone and are responsible for the internal and external rotation of the shoulder joint,.



Text simplification project This project saw the light of day during the Software project course of Nancy NLP Master.

The goal was to create a rule-based text simplification system. This method present some limitation (notably taking into account sentences context). Nevertheless, the result produced if studied further could be interesting.

Our system is composed of multiple modules:

- Syntactic simplification
- Lexical simplification

Our contact



Team:

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Project link

Github project page

University program:

NLP Master

Thank you

Questions?