

# Text Simplification

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# Presentation of the subject

- Texts are not easily understandable sometimes because of their complexity but it also depends of the number of words, the length of the sentences etc.
- The evaluation of the readability of a text depends of these characteristics (measured with a score).

## **Final goal:**

Create a tool that takes a text as input and give as output a simplified version of this text.

# Scope

4 different approaches combined

- Neurolinguistics;
- Syntactic simplification;
- Cognitive Science;
- Semantic Simplification

# Neurolinguistics

Motivation:

Enhancing syntactic simplification by looking at data on people with language disorders

Focus on:

- Sentence comprehension
- Discourse processing

# Syntactic simplification

Motivation:

Attention is limited

Focus on:

- CC separation
- Limit on PP for ambiguity
- Passive-Active conversion (iff +by-phrase)
- Long Distance Dependency modification

# Cognitive science

Motivation:

Reduction of strong emotion words/non-average words to avoid loss of focus

Focus on:

- Mood of the user
- Age of the user

# Semantic simplification

Motivation:

Common knowledge is subjective

Focus on:

- Subordinate-Superordinate conversion
- Term simplification
- Idiom clarification

# Evaluation

Methods:

- Flesch–Kincaid readability test
- Custom method



Presentation of the subject  
Scope  
Neurolinguistics  
Syntax  
Cognitive science  
Semantics  
Evaluation  
**Questions**  
The End

# Questions

Questions?

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Thank you! :)