

Elaborative Simplification: Content Addition & Explanation Generation in Text Simplification Neha Srikanth, Junyi Jessy Li

Motivation

When simplifying text, lexical or syntactic transformations may be insufficient: there may be additional background information that readers need to deeply understand content in the original text.

Original

Results, she said, "could help the team better understand ancient Egyptian health" and, correspondingly, modern-day health For instance, some mummies still have arteries in their mummified remains, Miller-Thomas said. And, sometimes, scientists can tell if those arteries had hardened.

Elaborative Simplification

Simplified

The scans could help the team understand about ancient Egyptians' health. For example, some mummies still have arteries. An artery is a tube that moves blood through the body. The artery could show if the person had been healthy or not.

Medium

help.



We introduce *elaborative simplification*, the insertion of content during the simplification process, meant to aid document understanding.

Meta-examples of elaborative simplification include:

Definitions or other background information about key entities in the original text

Explicit explanations of implicit connections readers are expected to make in the original text

Further reasoning or analysis to highlight a central idea or point made in the original text

Elaborations are sentences containing new content semantically absent from the original text.

We study elaborative simplification in the **Newsela corpus**:

- The Newsela corpus is a simplification dataset consisting of sets of news articles manually simplified by professional editors
- We select the document for the lowest grade level as our simplified text

