

# **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

