

Syntactic Steganography

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1 Introduction

Steganography refers to the concealment of information within a non-secret message or object. The technique has been applied in images and texts with goals of copyright protection and confidentiality. [Put reference papers here]. This project explores a form text steganography that exploits the syntactic redundancies of the English language. Given a sentence, it can be paraphrased to a different sentence, while retaining the (almost entire) meaning. Given a **plain document**, one can use the above facts to encode a **message** into it to produce an **output document**. To extract the message from the output document, the implementation requires the **plain document**.

2 Approaches

This section highlights the first few approaches that led up to the final implementation.

2.1 Syntax-Tree Manipulations

2.2 Hash-store Encoding

2.3 Predictable LLM Paraphrasing

3 Review

3.1 Steganography Metrics

TODO: from that paper.

3.2 Limitations

3.3 Takeaways

4 References

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