

# Improving ELIZA using feedback

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## Abstract

We propose to research and develop an improvement to Joseph Weisenbaum's ELIZA program. The ELIZA program simulates a psychiatrist's questions and responses to a patient. The user of the program is the patient in the simulation. The program was designed to demonstrate much of the superficiality of human conversation. The original program used reflective text-based substitutions. Carefully crafted user inputs could easily demonstrate that they were talking to a simulation rather than a person. We are proposing to use regular expressions to further enhance the program, making it somewhat more difficult to demonstrate it is a simulation.

## 1 Introduction

The introduction generally overlaps with the abstract, but expands greatly on the ideas. It also gives an overview of the document, giving a one or two sentence overview of each part of the document.

You can start a new paragraph by leaving a blank line. This is a new paragraph. ELIZA is a program written by Joseph Wiesenbaum. It was proposed in his 1966 paper [1].

### 1.1 Hello, subsection

This is a subsection. It contains text.

## 2 Literature

Typically a research proposal will give a bit of background, listing four or five directly relevant peer-reviewed publications.

### 3 Timeline

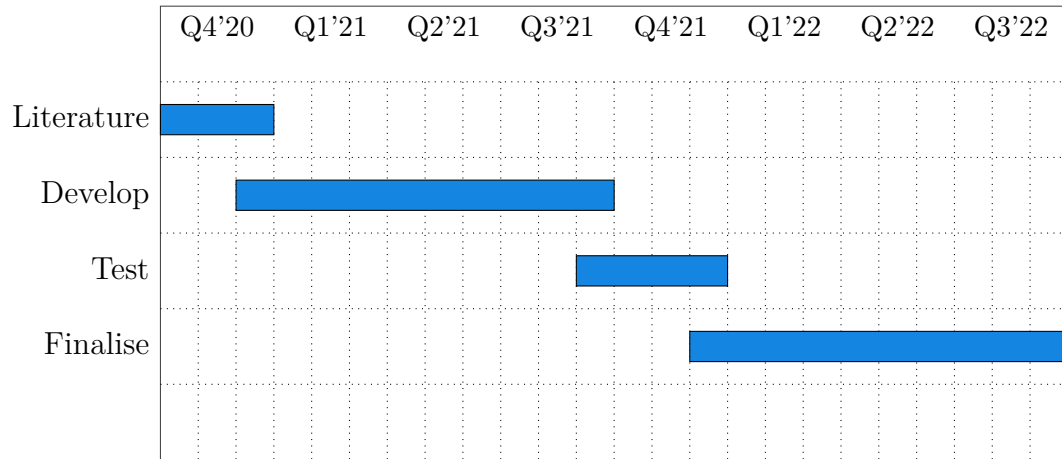


Figure 1: Gantt Chart

### References

- [1] J. Weizenbaum, “Eliza—a computer program for the study of natural language communication between man and machine,” *Commun. ACM*, vol. 9, p. 36–45, Jan. 1966.