ELIZA Plus

Implementing a long-term memory mechanism in a chatterbot

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Contents

Problem

- Turing Test / Imitation Game
- ELIZA chatterbot

Project Task

" Implement and integrate a long-term memory mechanism in the ELIZA chatterbot that can refer to past conversations in the current context. "

Implementation

- Web Interface
- Chatterbot
- Long-Term Memory

Evaluation

- Scenario-based
- Usability Evaluation
- Functionality Evaluation

PERSON

You are a young adult talking about a special person that you are trying to impress. You talk to ELIZA about that person, mentioning them by name.

PRODUCT

You have just bought an expensive product from Amazon. You talk to ELIZA about how excited you are for the product to arrive and start using it, mentioning the product by name during your conversation.

GPE/PLACE

You are going on holiday with your friends this Summer after being recommended the destination by some other friends. Talk to ELIZA about how excited you are to be travelling on holiday and the great things you have already heard, mentioning the place you are going to by name.

Conclusions

- Named Entity Recognition can extract key information
  - Limited by accuracy of model
- Pattern-matching and substitution is too primitive for the complex nature of conversation flow