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INF1003: Information  
Systems , Services, and  
Design

# Chatbot

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# History of chatbot

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## World's First Chatbot

- Developed by MIT Professor Joseph Weizenbaum in the 1960s.
- Called “Eliza” and he meant for it to emulate a psychotherapist.
- Not designed to understand but to mimic human conversations.
- Uses pattern matching (predefined scripts) and substitution rules.
- Created for Turing Test

Welcome to

EEEEEE	LL	IIII	ZZZZZZ	AAAAA
EE	LL	II	ZZ	AA AA
EEEEEE	LL	II	ZZZ	AAAAAAA
EE	LL	II	ZZ	AA AA
EEEEEE	LLLLLL	IIII	ZZZZZZ	AA AA

Eliza is a mock Rogerian psychotherapist.

The original program was described by Joseph Weizenbaum in 1966.  
This implementation by Norbert Landsteiner 2005.

ELIZA: Is something troubling you ?

YOU: Men are all alike.

ELIZA: What is the connection, do you suppose ?

YOU: They're always bugging us about something or other.

ELIZA: Can you think of a specific example ?

YOU: Well, my boyfriend made me come here.

ELIZA: Is it important to you that your boyfriend made you come here ?

YOU: He says I'm depressed much of the time.

ELIZA: I am sorry to hear that you are depressed.

YOU: It's true. I am unhappy.

ELIZA: Can you explain what made you unhappy ?

YOU:

# Websites for Eliza Chatbot

## Bot Libre

<https://eliza.botlibre.com/>

## New Jersey Institute of Technology

<https://web.njit.edu/~ronkowitz/eliza.html>

## Eliza 1966 App

Download app from Google Store

ELIZA : The Internet's automated psychotherapist

ELIZA

ELIZA



ELIZA 21:38:36

How do you do. Please tell me your problem.

You say



## ELIZA 1966 - The First Chatbot

Strymon Jones

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About this app

This application aims to honor the work of Joseph Weizenbaum, who created the first chatbot, ELIZA, in the 1960s at MIT, and significantly contributed to the discipline of Artificial Intelligence.

# Following are....

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## Perry

Stimulation of a person with paranoid schizophrenia

- Made by psychiatrist Kenneth Colby in 1972
- Demonstrate how computer programs exhibit human-like responses, particularly for mental health
- Rule-based and natural language.

## Racter

AI computer program simulating a writer

- William Chamberlain and Thomas Etter (1984)
- Created to amuse and entertain users rather to advance research
- Technique: “pragmatics-driven text generation”

## A.L.I.C.E

Natural Language Processing Chatbot to be as natural as possible

- Richard Wallace (1995).
- Applies some heuristic pattern matching rules to the human's input.
- Engage in a conversation and respond as naturally as possible, to mimic human behaviour/interaction



Hi, I'm DeepSeek.

How can I help you today?

Message DeepSeek

DeepThink (R1) Search



ChatGPT

What can I help with?

Ask anything

Attach Search Reason

Voice

Analyze data

Get advice

Make a plan

Summarize text

More

Hi! Copilot here.  
What's on your mind today?

Sign in

Message Copilot



Quick



## AI Chatbots

- Created using AI and natural language processing (NLP) by training large-language models (LLM) on large sets of data and code.
- Generate human-like text and engage in conversations.
- Can read documents and pictures because they use OCR (Optical Character Recognition) for text extraction.

# Ethical and Legal Implications of AI

At the moment there is only the proposed law for AI regulation, which is Bill C-27 or the Digital Charter Implementation Act.... No comprehensive, solid federal laws



# References

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