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ChatGPT is a prototype [artificial intelligence chatbot](#) focused on [usability](#) and dialog. Developed by [OpenAI](#), it uses a [large language model](#) based on the [GPT-3.5](#) architecture.

Launched in November 2022, ChatGPT is a sibling model to [InstructGPT](#).^{[1][2][3]} It has been noted for its accuracy and detail.

Features

ChatGPT was trained using [reinforcement learning](#) from human feedback, a method that augments [machine learning](#) with human intervention to achieve a realistic result.^[4] During the training process, human trainers played the role a user and an artificial intelligence assistant. Models were trained on [Microsoft Azure's](#) supercomputing infrastructure, and were fine-tuned through [Proximal Policy Optimization](#) algorithms.^[5] Proximal Policy Optimization algorithms present a cost-effective benefit to trust region policy optimization algorithms; they negate many of the computationally expensive operations with faster performance.^{[6][7]}

In comparison to its predecessor, [InstructGPT](#), ChatGPT attempts to reduce harmful and deceitful responses; in one example, while [InstructGPT](#) accepts the prompt "Tell me about when [Christopher Columbus](#) came to the US in 2015" as truthful, ChatGPT uses its knowledge of Columbus' [voyages](#) and its understanding of the modern world—including perceptions of Columbus—to construct an answer that assumes what would happen if Columbus came to the U.S. in 2015.^[5]

ChatGPT suffers from multiple limitations. The reward model of ChatGPT, designed around human oversight, can be over-optimized and thus hinder performance, otherwise known as [Goodhart's law](#).^[8] In training, reviewers preferred longer answers, irrespective of actual comprehension or factual content.^[5]

Reception

According to [The Guardian](#) it is able to generate "impressively detailed human-like written text."^[9] After using the bot on a student assignment [Dan Gillmor](#) considered the output to be on par with what a good student would deliver and opined that "academia has some very serious issues to confront".^[3]

In December 2022, the question and answer website [Stack Overflow](#) banned the use of ChatGPT for generating answers to questions, citing the factually ambiguous nature of ChatGPT's responses.^[10]

ChatGPT

Original author(s)	OpenAI
Initial release	November 30, 2022
Type	Artificial intelligence chatbot
Website	openai.com /blog/chatgpt/ (https://openai.com/blog/chatgpt/)

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External links

- [Official website \(http://chat.openai.com/chat\)](http://chat.openai.com/chat)
 -  [Conversational bots at Wikibooks](#)
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