What is ChatGPT?
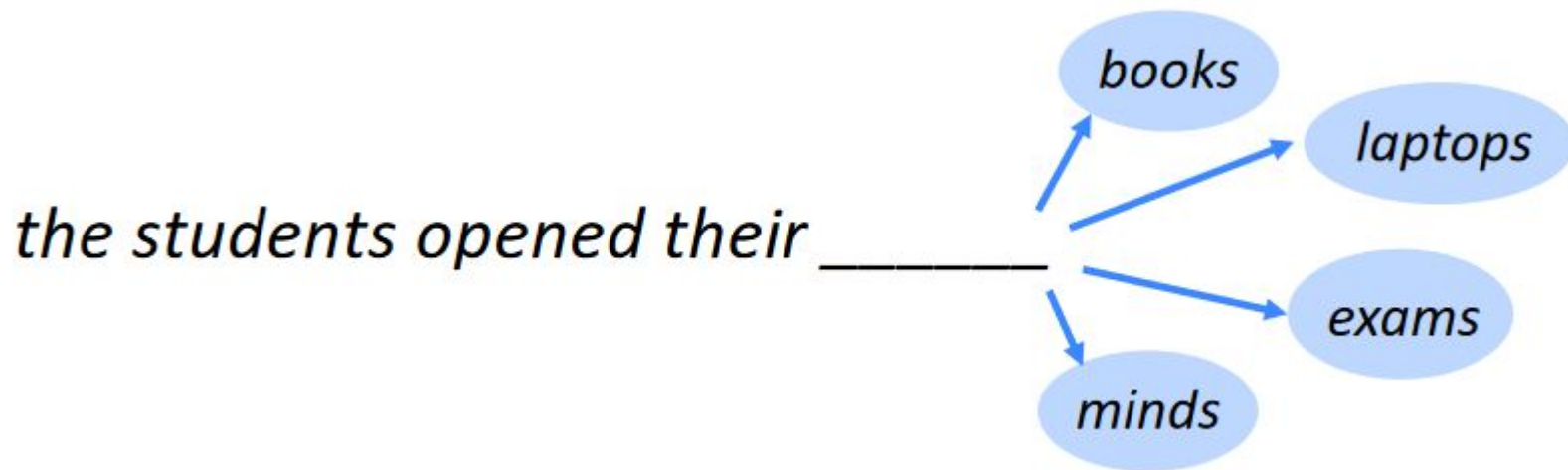
Discover an AI Chat Model, to automatically create text within a Chat interface.

What would be the next word in this sentence?

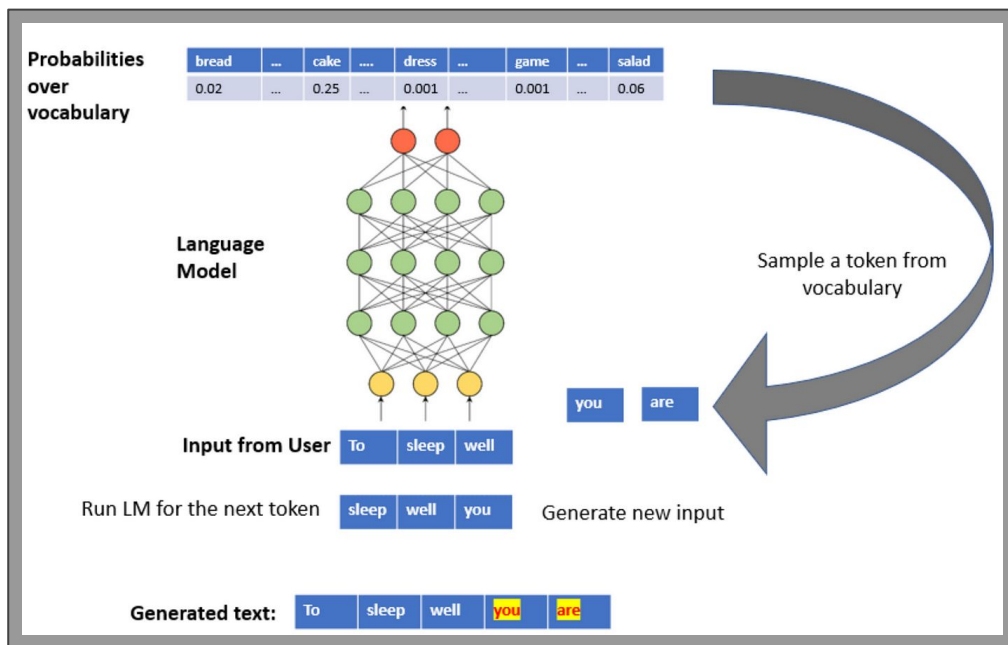___

the students opened their _____

- books
- laptops
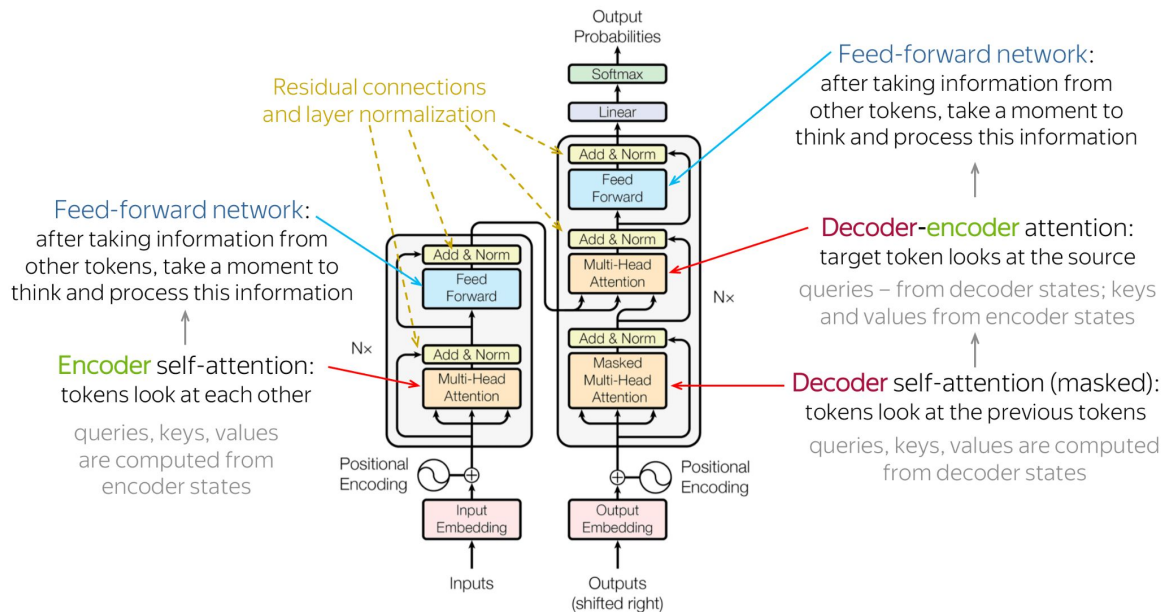- exams
- minds

Source

Predicting The Next Word (token)

———

A large language model is selecting the ***next most probable word***, given a known vocabulary.

Transformer Models

— — —

Source

Training ChatGPT

Step 1

Collect demonstration data and train a supervised policy.

A prompt is sampled from our prompt dataset.

Explain reinforcement learning to a 6 year old.

A labeler demonstrates the desired output behavior.

We give treats and punishments to teach...

This data is used to fine-tune GPT-3.5 with supervised learning.

SFT

Step 2

Collect comparison data and train a reward model.

A prompt and several model outputs are sampled.

Explain reinforcement learning to a 6 year old.

A: In reinforcement learning, the agent is...
B: Explain rewards...
C: In machine learning...
D: We give treats and punishments to teach...

A labeler ranks the outputs from best to worst.

D > C > A > B

This data is used to train our reward model.

RM

D > C > A > B

Step 3

Optimize a policy against the reward model using the PPO reinforcement learning algorithm.

A new prompt is sampled from the dataset.

Write a story about otters.

The PPO model is initialized from the supervised policy.

PPO

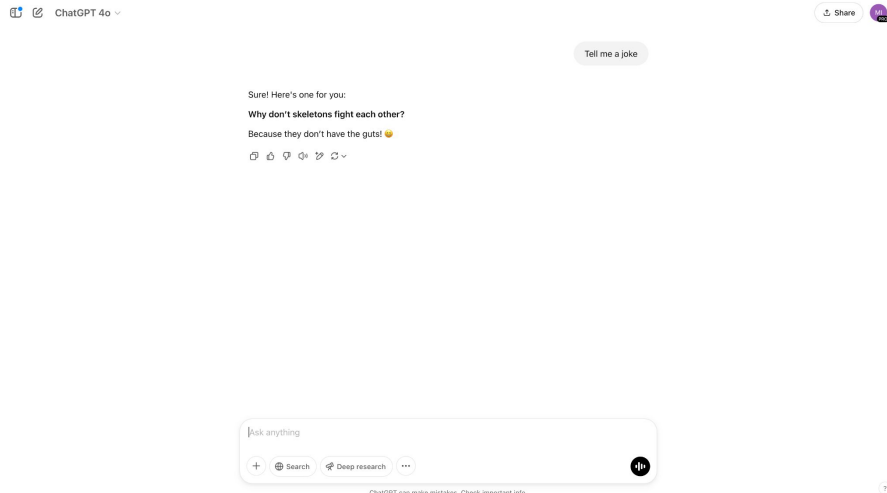The policy generates an output.

Once upon a time...

The reward model calculates a reward for the output.

RM

The reward is used to update the policy using PPO.

r_k

ChatGPT

———

- Created by OpenAI
- Accessed at
  chat.openai.com
- Free or a ChatGPT plus or
  pro version (which comes
  with higher up-time and
  more features).

ChatGPT 4o

Tell me a joke

Sure! Here's one for you:

Why don't skeletons fight each other?

Because they don't have the guts! 😄

Ask anything

+ Search Deep research ...

ChatGPT can make mistakes. Check important info.

ChatGPT Features

___

Chat History

Text Generation

Explain how the solar system was made

The formation of the **solar system** is best explained by the **Nebular Hypothesis**, which describes how it formed about **4.6 billion years ago** from a cloud of gas and dust. Here's a step-by-step breakdown:

1. A Giant Molecular Cloud Collapses

- The solar system began as a vast cloud of gas and dust (a nebula), mostly composed of **hydrogen and helium**, with small amounts of heavier elements.
- A nearby **supernova explosion** or some other disturbance triggered the cloud to **collapse under gravity**.

2. Formation of the Protosun

- As the cloud collapsed, it started spinning and flattened into a **disk**.
- Most of the mass gathered at the center, forming a **protosun** (early Sun).
- Increasing **pressure and temperature** ignited **nuclear fusion**, marking the birth of the Sun.

3. Formation of the Protoplanetary Disk

- The remaining material in the flattened **protoplanetary disk** started to cool and condense into tiny **solid particles**.
- These particles began to collide and stick together, forming larger and larger clumps.

Image Generation

Make an image of a corgi in front of the brandenburg gate

Here is an image of a cute corgi sitting happily in front of the Brandenburg Gate in Berlin! Let me know if you'd like any adjustments. 😊🐾
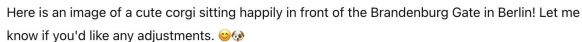
ChatGPT Features

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Web Browsing

What is the weather like today in Greenwich?

As of 3:15 PM on Wednesday, March 19, 2025, in Greenwich, London, the weather is sunny with a temperature around 17°C (62°F). Met Office

The forecast for the remainder of the day indicates dry conditions with long sunny spells and gentle winds, with temperatures reaching up to 17°C. Met Office +1

Looking ahead to tomorrow, Thursday, March 20, 2025, another bright and warm day is expected, with sunny spells in the morning and a chance of an isolated shower in the afternoon. Temperatures may reach up to 20°C (68°F). Met Office

Currently 55° · Sunny
United Kingdom

4 pm	51°	Partly sunny
5 pm	48°	Mostly sunny
6 pm	46°	Sunny
7 pm	43°	Clear
8 pm	40°	Clear

Powerful Models

ChatGPT 4o ⌄

Model ⓘ

GPT-4o ✓
Great for most questions

GPT-4o with scheduled tasks BETA
Ask ChatGPT to follow up later

GPT-4.5 RESEARCH PREVIEW
Good for writing and exploring ideas

o1
Uses advanced reasoning

o3-mini
Fast at advanced reasoning

o3-mini-high
Great at coding and logic

o1 pro mode
Best at reasoning

More models ›

anything

⊕ Search   ✎ Deep rese

Custom GPTs

GPTs

Discover and create custom versions of ChatGPT that combine instructions, extra knowledge, and any combination of skills.

🔍 Search GPTs

Top Picks   Writing   Productivity   Research & Analysis   Education   Lifestyle   Programming

Featured
Curated top picks from this week

Expedia
Bring your trip plans to life – get there, stay there, find things to see and do.
By expedia.com

Video AI
4.1 ★ – AI video maker GPT – generate engaging videos with voiceovers in any language!
By invideo.io

Website Generator
🪄 Create a website in seconds!
🪄 Generate, design, write code, and write copy for your website...
By websitegenerator.b12.io

AI PDF Drive: Chat, Create, Organize
The ultimate document assistant. Upload files once to your free AI Drive (very generous storage),...
By myaidrive.com

ChatGPT Use Cases

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Blog Posts

Social Media

Automating Tasks