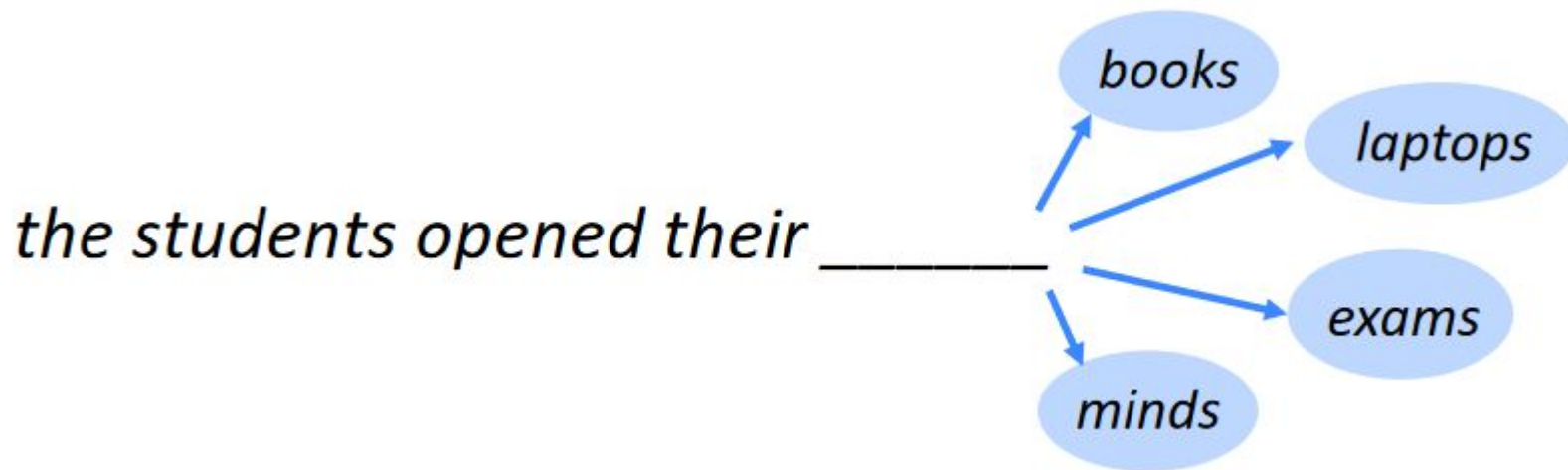


What is ChatGPT?

Discover an AI Chat Model, to automatically create text within a Chat interface.

What would be the next word in this sentence?

— — —

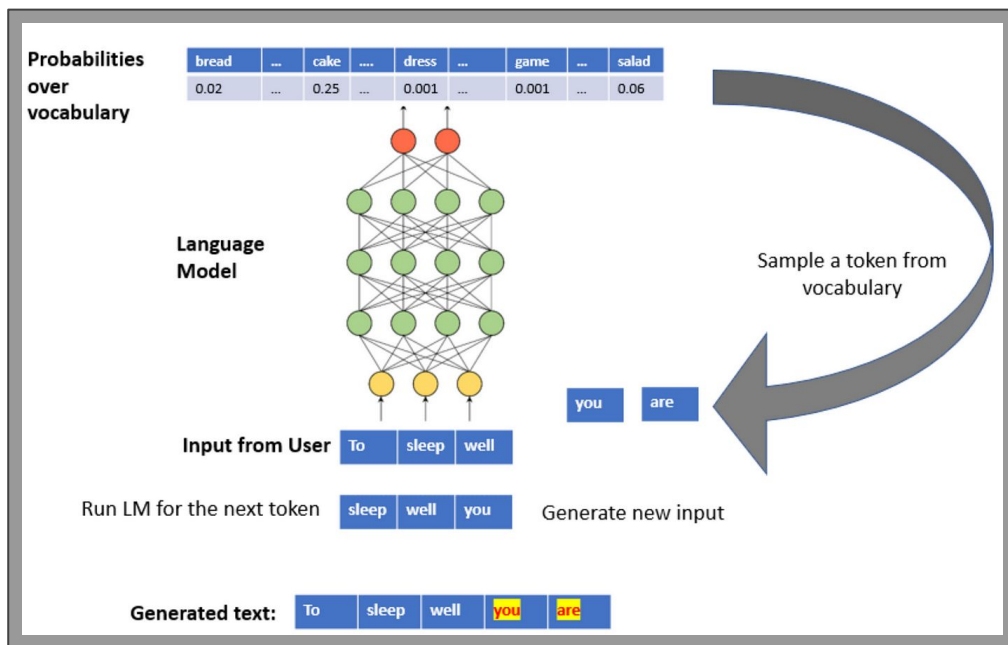


[Source](#)

Predicting The Next Word (token)

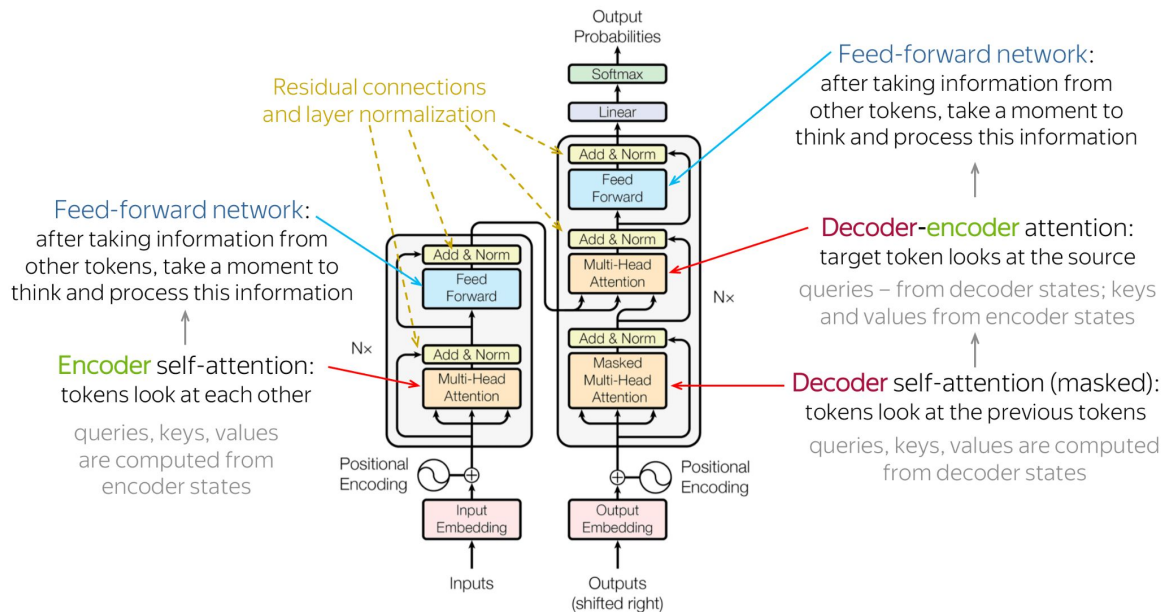
— — —

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



[Source](#)

Transformer Models



[Source](#)

Training ChatGPT

Step 1

Collect demonstration data and train a supervised policy.

A prompt is sampled from our prompt dataset.



A labeler demonstrates the desired output behavior.

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

Step 2

Collect comparison data and train a reward model.

A prompt and several model outputs are sampled.



A labeler ranks the outputs from best to worst.

This data is used to train our reward model.

Step 3

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

A new prompt is sampled from the dataset.



The PPO model is initialized from the supervised policy.

The policy generates an output.

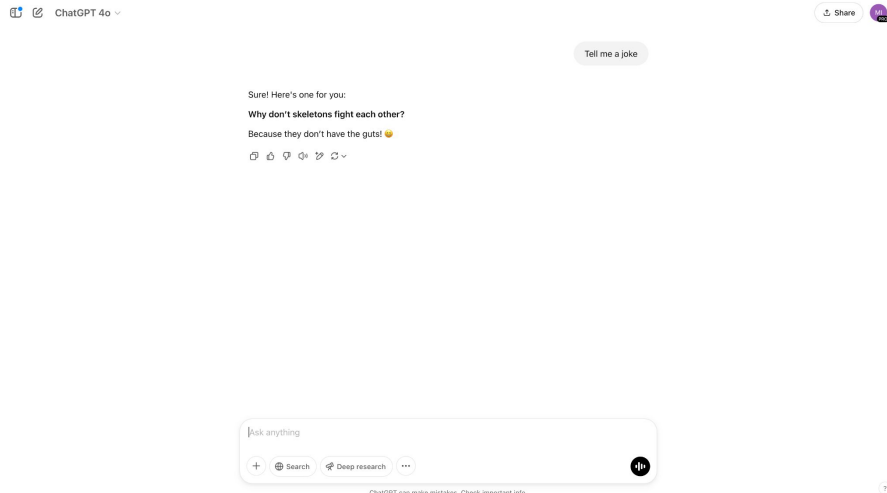
The reward model calculates a reward for the output.

The reward is used to update the policy using PPO.

[Source](#)

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).



Text Generation

Image Generation

ChatGPT 4o ▾

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**.

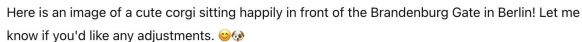
2. Formation of the Protosun

- 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.

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



ChatGPT Features

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 >

Search Deep resea

Custom GPTs

GPTs

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

Q 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 websitegenerator512.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



Blog Posts

Social Media

Automating Tasks

ChatGPT 4o

Create a blog post on the best place to visit in the UK in winter

Best Uk Winter Destination

Answer in chat instead >

I've drafted a blog post on the best place to visit in the UK in winter, highlighting the magic of the Scottish Highlands. Let me know if you'd like any adjustments or additions!

Ask anything

ChatGPT can make mistakes. Check important info.

Best Uk Winter Destination

The Best Place to Visit in the UK in Winter: The Magical Scottish Highlands

When the cold season rolls around, the UK transforms into a winter wonderland with festive snowy landscapes, and cozy hideaways. While there are many places worth exploring, one stands out above the rest for its breathtaking beauty, rich history, and enchanting winter atmosphere: the Scottish Highlands.

Why Visit the Scottish Highlands in Winter?

The Scottish Highlands, with their rugged landscapes, misty lochs, and towering mountains beheld in any season. However, winter adds an extra layer of magic to this already mesmerizing landscape. Here's why it should be at the top of your winter travel list:

1. Snow-Capped Mountains and Scenic Beauty

Winter drapes the Highlands in a thick layer of snow, creating postcard-perfect scenery. From the peaks of Ben Nevis to the remote and serene Cairngorms National Park, nature lovers and photographers alike will be in awe of the spectacular views.

2. Winter Activities and Adventure

For outdoor enthusiasts, the Highlands offer a plethora of winter sports. Skiing and snowboarding are enjoyed in Aviemore, while the region also boasts opportunities for ice skating, sledding, and even ice climbing. If you prefer something more relaxed, take a scenic winter walk along the shores of Loch Ness.

3. Northern Lights Viewing

One of the best-kept secrets of the Scottish Highlands is its potential for spotting the Northern Lights. During winter, clear nights offer a chance to witness this spectacular natural phenomenon. Locations such as the Isle of Skye or the far northern regions of Sutherland for the best chance of seeing the aurora borealis.

4. Cozy Pubs and Highland Hospitality

Write a tweet about the joys of fatherhood in the style of bill burr

"Fatherhood is wild, man. One minute you're teaching your kid how to ride a bike, the next you're explaining why they can't eat Play-Doh. It's chaos. It's exhausting. But then they hug you for no reason and BOOM—you're a big dumb puddle. Unbelievable."

Write a letter to appeal a parking ticket in a professional tone of voice

Here's a professionally written appeal letter for a parking ticket:

Parking Ticket Appeal

[Your Name]
[Your Address]
[City, State, ZIP Code]
[Your Email Address]
[Your Phone Number]
[Date]

[Issuing Authority Name]
[Parking Violations Office]
[Authority Address]
[City, State, ZIP Code]

Typing ...

Answer in chat instead >

The Complete Prompt Engineering for AI Bootcamp

9