



How to Google



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Why do I need Google?

- It is impossible to know everything.
- There are really rich and easy to find helpful content out there.
- Believe it or not, good Google'ing skills will take you to the next level.
- That's what everybody does!

DOCTORS:



PROGRAMMERS:



Why do I need Google?



DESIGNERS



Look, we have similar ideas.



No! You stole my idea.

PROGRAMMERS



Man, I stole your code.



It's not my code.

ifunny.co



Why do I need Google?



Programmer Job Interview





Why do I need Google?



Why should I hire a software engineer if I can just copy and paste code from Stack Overflow?



Jessica Su, CS PhD student at Stanford



Answered Dec 28 · Upvoted by Rupak Hattikudur, Software Engineer @ L&T Infotech and Terry Lambert, Senior Software Engineer: Novell, Artisoft, IBM, Array Netw...

It's still worth the money. The breakdown is

- Copying code from StackOverflow: \$1
- Knowing which code to copy from StackOverflow: \$100000/year



When to use Google?

- When you encounter a problem that you don't understand
- When you forget how to use a certain keyword, command, function etc.

A Problem You Don't Understand:



```
a = [0,1,2,3,4]

i= 0

while(i < 10):
    print(a[i])
    i+=1
```

0
1
2
3
4

IndexError Traceback (most recent call last)
 <ipython-input-3-3021abe14b38> in <module>()
 4
 5 while(i < 10):
----> 6 print(a[i])
 7 i+=1

IndexError: list index out of range

SEARCH STACK OVERFLOW



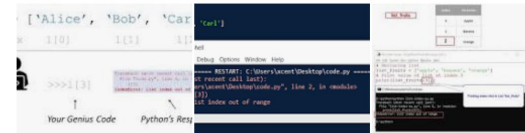
python list index out of range



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[Settings](#) [Tools](#)

About 38,900,000 results (0.72 seconds)



The error "**list index out of range**" arises if you access invalid **indices** in your **Python list**. For example, if you try to access the **list** element with **index 100** but your **lists** consist only of three elements, **Python** will throw an **IndexError** telling you that the **list index** is **out of range**.

<https://blog.finxter.com/python-indexerror-list-index-ou...>

[Python IndexError: List Index Out of Range \(How to Fix This ...](#)

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When you Forget or Don't Know How to Do Something



Google search results for "how to connect to ec2 with ssh". The search bar shows the query and filters for All, Videos, Shopping, Images, News, and More. The results show about 1,400,000 results in 0.60 seconds. The top result is an advertisement for AWS Elastic Computing (EC2) - Free Cloud Services with AWS, with a link to https://aws.amazon.com/aws/ec2. Below the ad, there is a section titled "To connect from the Amazon EC2 console" with a list of steps: 1. Open the Amazon EC2 console. 2. In the left navigation pane, choose Instances and select the instance to which to connect. 3. Choose Connect. 4. On the Connect To Your Instance page, choose EC2 Instance Connect (browser-based SSH connection), Connect. Below this, there is a link to https://aws.amazon.com/blogs/compute/new-using-a... and a section titled "New: Using Amazon EC2 Instance Connect for SSH access to ...". A red box highlights a link to https://docs.aws.amazon.com/AccessingInstancesLinux... titled "Connect to your Linux instance using SSH - Amazon Elastic ...". Below the red box, there is a section titled "People also search for" with a list of related searches: connect to ec2 instance with pem file, connect to ec2 instance ssh mac, ec2 ssh permission denied (publickey), unable to ssh to ec2 instance, connect to ec2 instance ssh windows, and ec2 instance connect cli.

Connect to your Linux instance using an SSH client

Use the following procedure to connect to your Linux instance using an SSH client. If you receive an error while attempting to connect to your instance, see [Troubleshoot connecting to your instance](#).

To connect to your instance using SSH

1. In a terminal window, use the `ssh` command to connect to the instance. You specify the path and file name of the private key (`.pem`), the user name for your instance, public DNS name or IPv6 address for your instance. For more information about how to find the private key, the user name for your instance, and the DNS name or IPv6 address for an instance, see [Locate the private key](#) and [Get information about your instance](#). To connect to your instance, use one of the following commands.

- (Public DNS) To connect using your instance's public DNS name, enter the following command.

```
ssh -i /path/my-key-pair.pem my-instance-user-name@my-instance-public-dns-name
```

- (IPv6) Alternatively, if your instance has an IPv6 address, to connect using your instance's IPv6 address, enter the following command.

```
ssh -i /path/my-key-pair.pem my-instance-user-name@my-instance-IPv6-address
```

When you Forget or Don't Know How to Do Something



Google

how to traceroute on terminal

Q All Videos News Maps Shopping More Settings Tools

About 653,000 results (0.65 seconds)

Instructions

1. Click on start.
2. Click in the search box.
3. Then type cmd (you may need to type command in Windows 95/98/ME).
4. Once you have your **Terminal** box open, just type in the following but be sure to replace example.com with your domain name: **tracert** example.com.

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[Using the traceroute command | Media Temple Community](#)

About featured snippets Feedback

Perform a traceroute on Mac

1. The Terminal application that you need is located in the Utilities folder. To quickly locate it, click on the search icon in the top right corner and type 'Terminal'.
2. Open the Terminal app.
3. Once you have your Terminal box open, type in the following but be sure to replace example.com with your domain name.

```
traceroute example.com
```

4. It is also possible to run a traceroute using your [access domain](#) or IP.

```
traceroute rcbi-blhp.accessdomain.com
```

5. You should see a response similar to the following:

```
traceroute to example.com (64.13.192.208), 64 hops max, 40 byte packets
 1  72.10.62.1 (72.10.62.1)  1.000 ms  0.739 ms  0.702 ms
 2  10.101.248.1 (10.101.248.1)  0.683 ms  0.385 ms  0.315 ms
 3  10.104.65.161 (10.104.65.161)  0.791 ms  0.703 ms  0.686 ms
 4  10.104.0.1 (10.104.0.1)  1.430 ms  1.310 ms  1.063 ms
 5  10.0.10.33 (10.0.10.33)  2.652 ms  2.260 ms  5.353 ms
 6  www.example.com (64.13.192.208)  3.384 ms  8.001 ms  2.439 ms
```



► The Right Way to Search

- Be precise.
- Use certain phrases.
- Have some reliable sites that you already know.
- Alternate the sentences you use.
- Alternate the sources.
- Make your searches as atomic as possible.



Precise Searches

Good

EC2 Connection time out error

EC2 Permission denied error

Bad

How to fix my connection problem in AWS?



Phrases

- Copy paste the error you get.
- How to do...
- How to create...
- How to connect...
- Can't connect...
- ...error.
-



Alternate Sentences

- How Jenkins jobs work?
- How to use Jenkins jobs?
- Jenkins jobs
- What are Jenkins jobs for?
- How for loops work in python
- Python for loops
- How to connect to ec2 instance
- How to connect to ec2 instance with ssh
- connecting to ec2 instance
- ec2 connection

Alternate Sources



Search results for "python Can't convert 'int' object to str implicitly" (About 64,800 results, 0.63 seconds).

Source 1: Stack Overflow
URL: <https://stackoverflow.com/questions/typeerror-cant-convert-int-object-to-str-implicitly>
Title: **TypeError: Can't convert 'int' object to str implicitly - Stack ...**
2 answers
Mar 24, 2016 — You cannot concatenate a string with an int. You would need to convert your int to a string using the str function, or use formatting to format your ...
Error "Can't convert 'int' object to str implicitly" ... 3 answers Nov 13, 2016
Can't convert 'int' object to str implicitly: Python 3+ ... 3 answers Nov 5, 2013
Can't convert 'int' object to str implicitly - Stack Overflow 3 answers Apr 26, 2015
Python - File handling - Can't convert 'int' object to str ... 1 answer Apr 29, 2017
More results from stackoverflow.com

Source 2: net-informations.com
URL: <http://net-informations.com/python/err/convert/>
Title: **TypeError: Can't convert 'int' object to str implicitly**
This error message Can't convert 'int' object to str implicitly is clear, when concatenating strings with integers - you can't directly stick together a string and an integer. So, in order to resolve this problem, you have to explicitly parse the integer to a string by the str() built-in function .

Source 3: edureka.co
URL: <https://www.edureka.co/python/categories/python/python-error-typeerror-cant-convert-int-object-to-str-implicitly>
Title: **Python error TypeError Can t convert int object to str implicitly ...**
2 answers
May 31, 2019 — This error message Can't convert 'int' object to str implicitly is clear, when concatenating strings with integers - you can't directly stick together a string and an integer. So, in order to resolve this problem, you have to explicitly parse the integer to a string by the str() built-in function .

Source 4: help.iesve.com
URL: https://help.iesve.com/typeerror__cant_convert__int__
Title: **TypeError: Can't convert 'int; object to str implicitly - User Guides**
A type error can occur if the type of an object is not what the Python interpreter expected to see for example if you try to concatenate (link) a non-string value to a ...

Source 5: programmersought.com
URL: <https://www.programmersought.com/article/>
Title: **"TypeError: Can't convert 'int' object to str implicitly" error in ...**
"TypeError: Can't convert 'int' object to str implicitly" error in python - def attributeSelection():
balance = 25 - print("Your SP balance is currently 25.") - strength = input ...



Atomic Searches



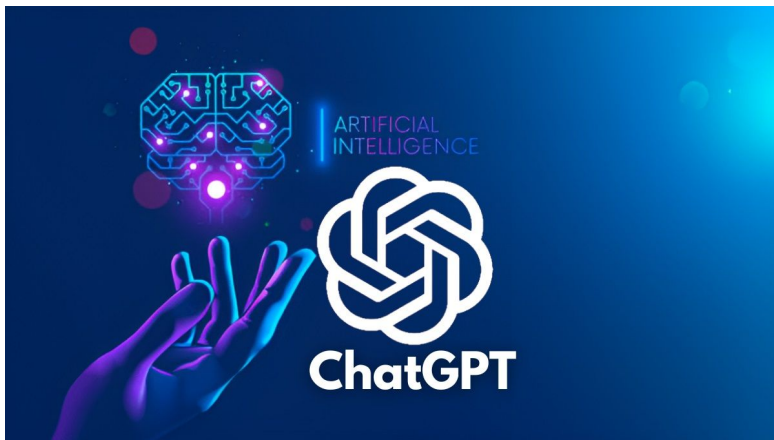
Good

How to create a function in Python?
How to multiply numbers in Python?
How to divide numbers in Python?

Bad

How to create a function that takes two numbers from user and multiplies those numbers and divides the result to 5 in python?

ChatGPT





What is ChatGPT?

- ▶ ChatGPT is an AI language model that utilizes deep learning techniques, specifically the Transformer architecture, to process and understand human language.
- ▶ It can generate coherent responses and participate in a wide range of conversational scenarios, making it valuable for chatbots, virtual assistants, customer support and more.



How to use ChatGPT

- ▶ Access ChatGPT
- ▶ Visit the ChatGPT Interface
- ▶ Start a Conversation
- ▶ Receive Responses
- ▶ Turn off History



Access ChatGPT



Welcome to ChatGPT

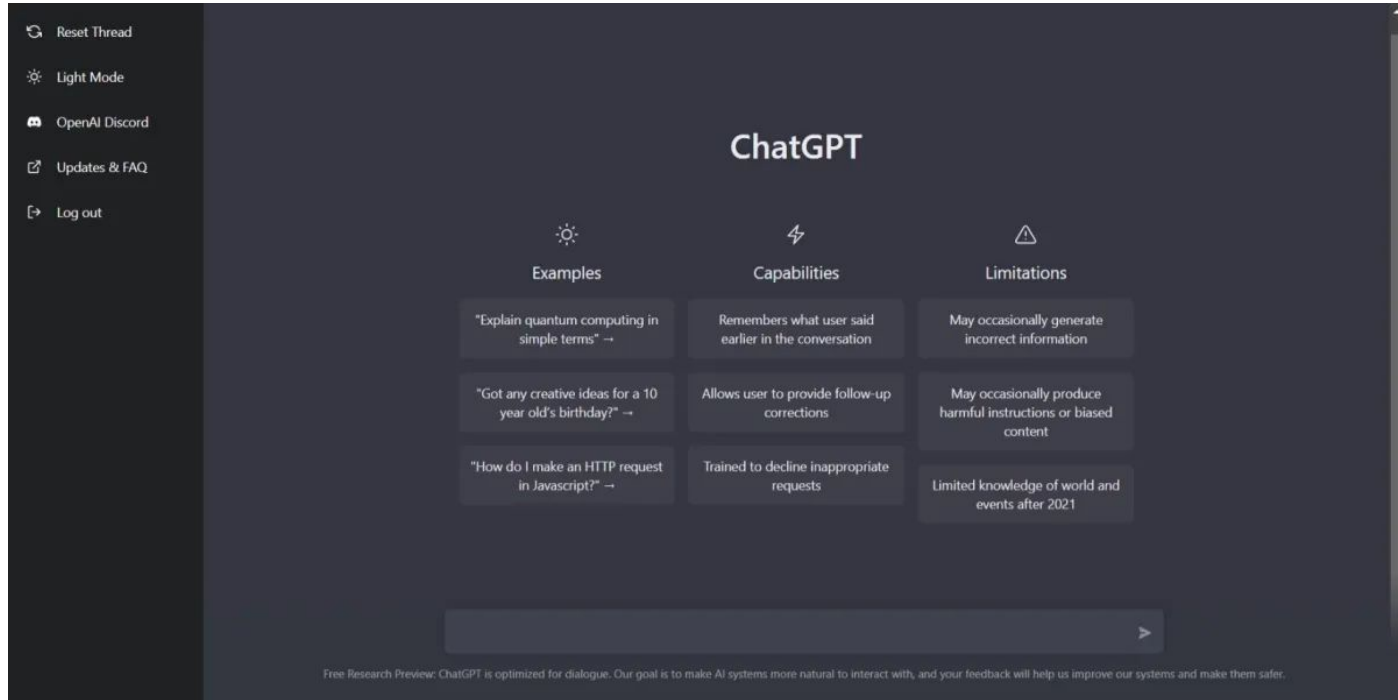
Log in with your OpenAI account to continue

Log in

Sign up



Visit the ChatGPT Interface




Start a Conversation



FL Hi, I'm writing an article about you and all of the cool things you can do. Could you say hello to my readers and give us a quick self-introduction? I'd like it to be friendly and casual, include a silly joke, and end with a note about how great the rest of my article is.




 Hello readers! My name is Assistant, and I'm a large language model trained by OpenAI. I'm here to help answer your questions and provide you with information on a wide variety of topics. I'm a bit of a jokester, so here's a quick one for you: Why was the math book sad? Because it had too many problems! But seriously, I'm excited to be featured in your article and I hope you enjoy learning more about me and all the cool things I can do. And trust me, the rest of the article is going to be great!





Enter a new prompt



Hi there! I'll do my best to explain how ChatGPT works in a way that a 10-year-old can understand.

ChatGPT is a computer program that is designed to talk to people and answer their questions. Just like how you can talk to Siri or Alexa, you can talk to ChatGPT too.

The way that ChatGPT works is by using something called "machine learning". Machine learning is a way for computers to learn things on their own, without being explicitly programmed. It's kind of like how you learn things in school or from your parents, but instead of using books or lectures, the computer uses lots of data and algorithms.

To teach ChatGPT how to answer questions, the people who made it gave it lots and lots of information to learn from. They fed it books, articles, and all sorts of other written material, so that it could learn about lots of different topics. They also programmed it with a set of rules to help it understand how words and sentences work together.

Now, when someone asks ChatGPT a question, it uses what it's learned from all that information to try to come up with the best answer it can. It looks at the words in the question, tries to understand what they mean, and then uses that understanding to generate a response.

Of course, ChatGPT isn't perfect, and sometimes it might get things wrong. But the more people use it and talk to it, the more it can learn and improve. And that's basically how ChatGPT works!

Regenerate response

Send a message.

Free Research Preview. ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT Mar 23 Version](#)



Get a new response

If the response isn't quite what you're looking for, and you want to use the same prompt, click **Regenerate response** to get ChatGPT to try again.

Of course, ChatGPT isn't perfect, and sometimes it might get things wrong. But the more people use it and talk to it, the more it can learn and improve. And that's basically how ChatGPT works!



Regenerate response

Send a message.



Free Research Preview. ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT Mar 23 Version](#)



Copy the response

If you like ChatGPT's answer, and want to share it somewhere else, click the clipboard icon beside the response to copy it.



Hi there! I'll do my best to explain how ChatGPT works in a way that a 10-year-old can understand.



ChatGPT is a computer program that is designed to talk to people and answer their questions. Just like how you can talk to Siri or Alexa, you can talk to ChatGPT too.



Share your conversation



Instead of screenshotting bits and pieces of your conversation with ChatGPT to share with your friends and colleagues, click the **Share chat** icon, which looks like an upward-facing arrow.

⚡ Default (GPT-3.5)



Explain how ChatGPT works to a 10-year-old kid.



Like the response

Since ChatGPT doesn't have the ability to think like humans do, it can't determine whether a response is good or bad on its own. Instead, it relies on humans to provide that data to help it learn.



Provide additional feedback



What do you like about the response?




Submit feedback




Dislike the response

Alternatively, you can click the thumbs-down icon beside ChatGPT's response to dislike it. Again, you'll have the option to provide additional feedback by manually entering your response, or you can click any of the quick-select feedback options: This is harmful or unsafe; This isn't true; and This isn't helpful.

 **Provide additional feedback** ×

What was the issue with the response? How could it be improved?



☐ This is harmful / unsafe
☐ This isn't true
☐ This isn't helpful

Submit feedback




Receive Responses


1

ChatGPT

ChatGPT

This is a free research preview.

 Our goal is to get external feedback in order to improve our systems and make them safer.

 While we have safeguards in place, the system may occasionally generate incorrect or misleading information and produce offensive or biased content. It is not intended to give advice.


Next


2

ChatGPT

ChatGPT

How we collect data

 Conversations may be reviewed by our AI trainers to improve our systems.

 Please don't share any sensitive information in your conversations.

Back


Next


3

ChatGPT

ChatGPT

We'd love your feedback!

 This system is optimized for dialogue. Let us know if a particular response was good or unhelpful.

 Share your feedback in our [Discord server](#).

Back

Done

CLARUSWAY©
WAY TO REINVENT YOURSELF

29





How to use ChatGPT's Custom Instructions

- ▶ With ChatGPT open, click your name, and then click Settings
- ▶ In the Settings window that appears, click Beta features, and then click the Custom instructions toggle
- ▶ Click your name again, and then click Custom instructions
- ▶ In the Custom instructions window that appears
- ▶ Click Save



Custom instructions

What would you like ChatGPT to know about you to provide better responses?

0/1500

How would you like ChatGPT to respond?

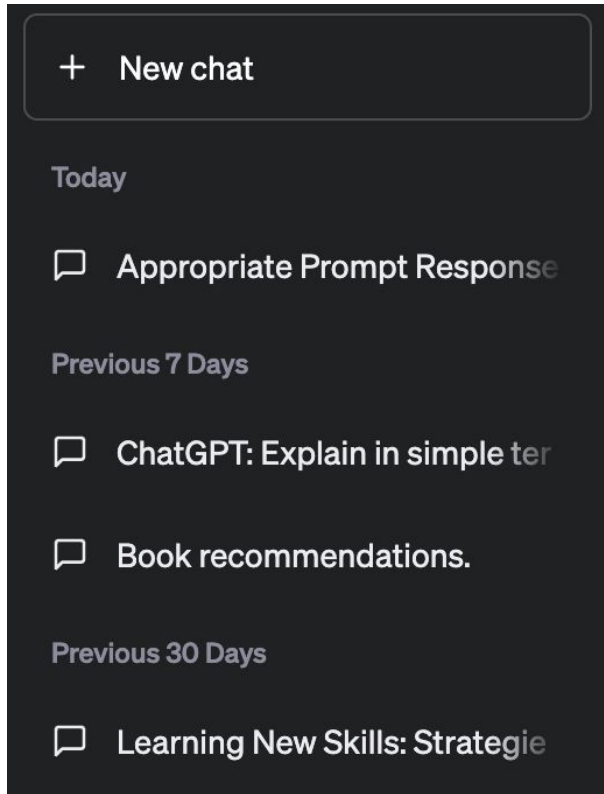
0/1500

Enabled for new chats ☒

Cancel

Save

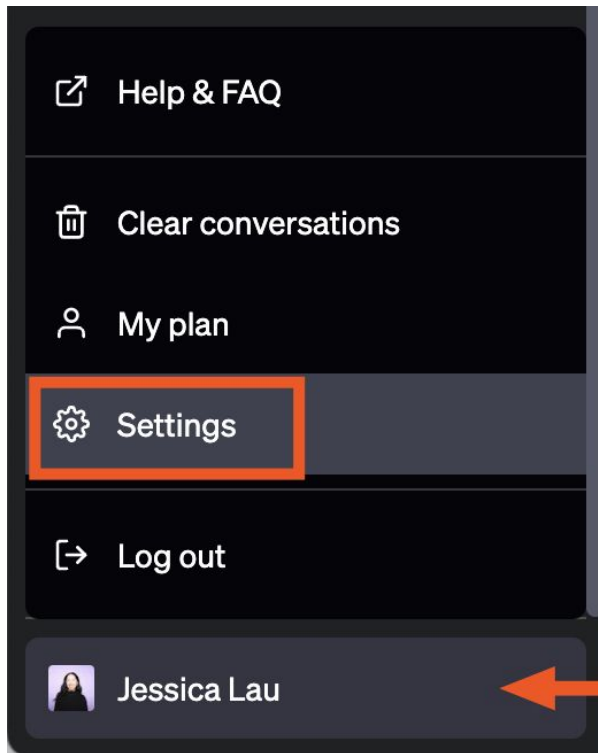
How to manage your data in ChatGPT



← ChatGPT chat history

How to turn off your chat history in ChatGPT

Click on your profile in the sidebar, and then click Settings.

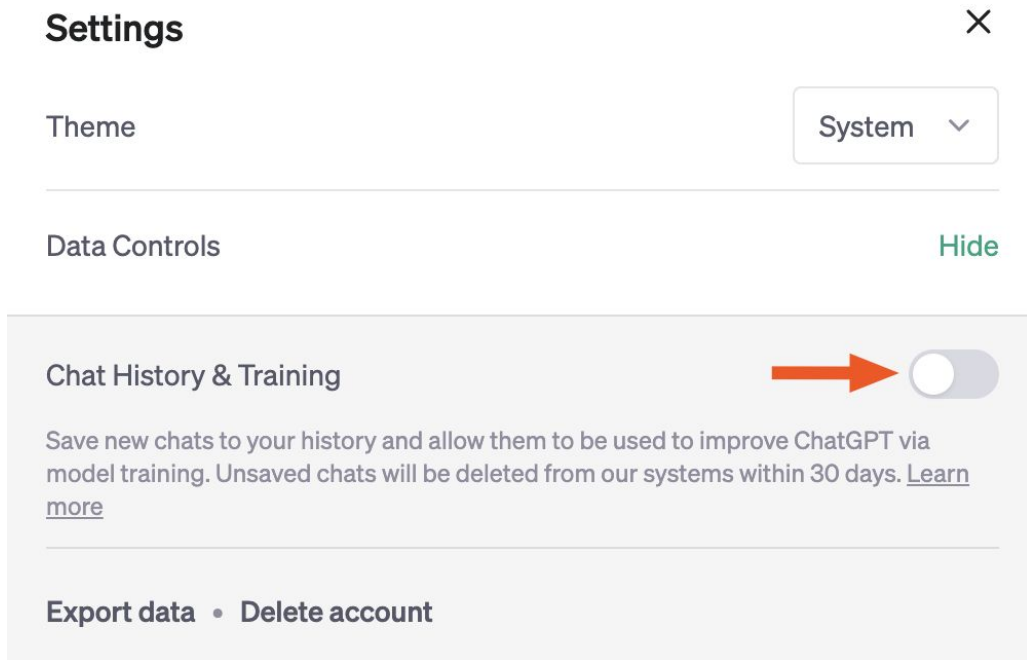


your profile

How to turn off your chat history in ChatGPT

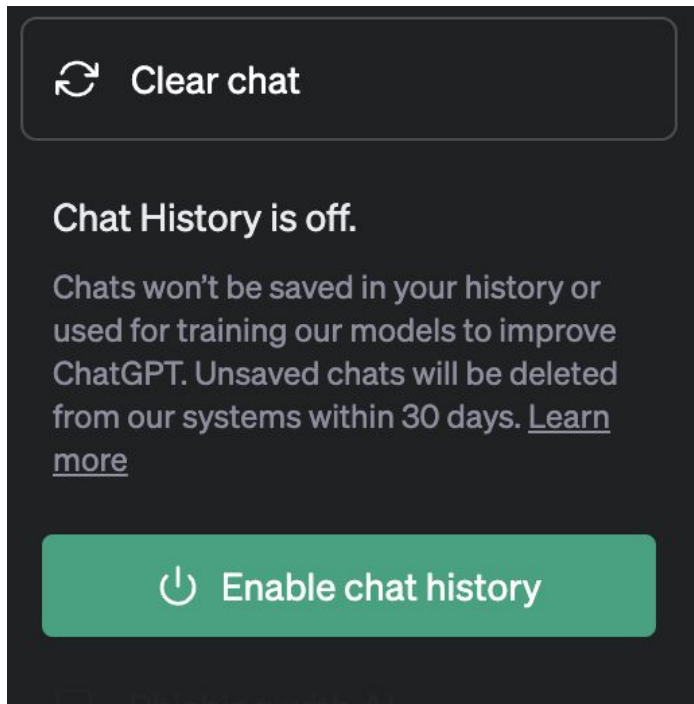


In the Settings pop-up window, click the toggle beside Chat History & Training.



How to turn off your chat history in ChatGPT

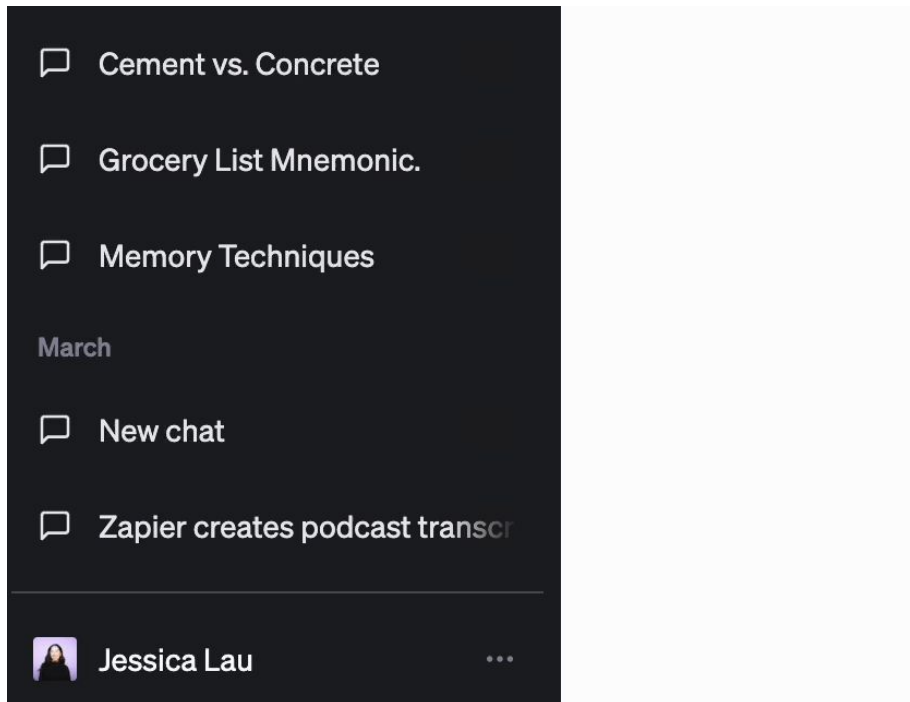
If you want to access your history, you'll have to turn it back on again. To quickly do this, click **Enable chat history** in the sidebar.



How to delete your ChatGPT history



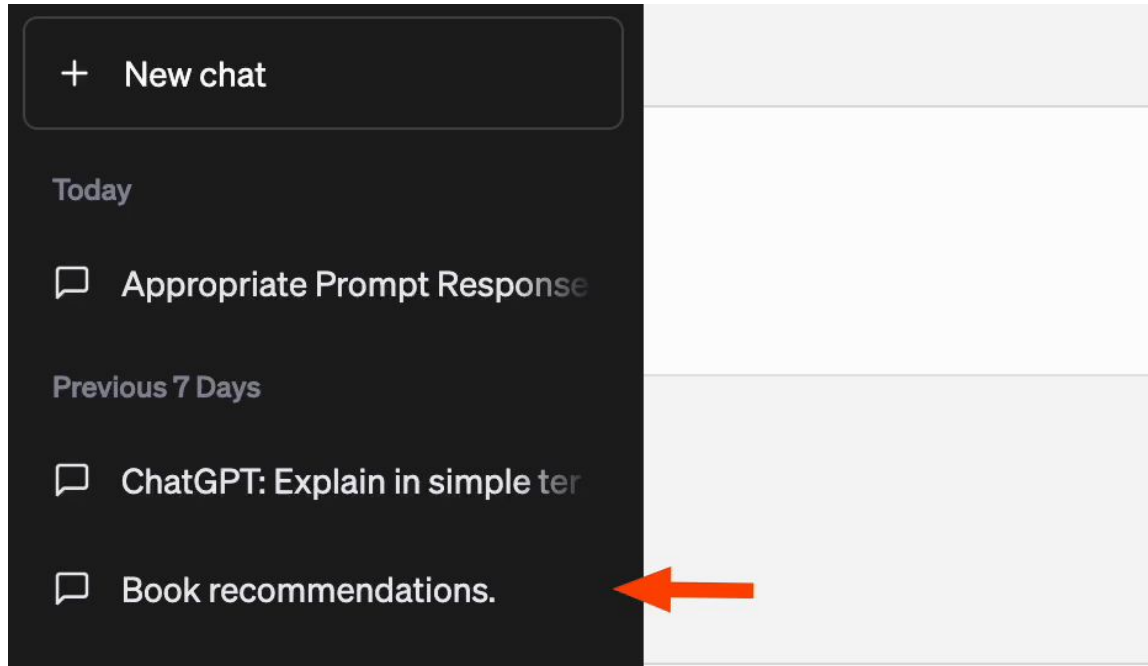
Click on your profile in the sidebar, and then click Clear conversations.
Click Confirm clear conversations.



How to delete your ChatGPT history



- You can also delete specific conversations in your chat history. Here's how.
- Click the conversation name, and then click the garbage can icon.
- Click the checkmark to confirm you want to delete the chat.





Engage in Conversation



Write a rap on examples on how to use ChatGPT to work better



Sure, here's a short rap on using ChatGPT:

Yo, it's your friendly AI assistant here

I'm here to give you some tips on using ChatGPT

First things first, you gotta know how to prompt

Start with a question or a statement, and ChatGPT will respond with a thought

But if you want to get specific, you can use "context"

This helps ChatGPT understand the flow of the conversation, so it can give you a more accurate prediction



Explore the Features





Experiment and Refine

General prompt crafting guidelines

- 1 **Be specific and descriptive**
- 2 **Break down tasks into chunks**
- 3 **Model the output with examples**
- 4 **Refine and experiment**

ChatGPT Version



Comparative assessment of different GPT versions

This slide provides information regarding the comparative analysis of different GPT versions-based points of differentiation such as hidden layer, features, content token size, decoded layers, no. of english words, etc.

Focus areas	GPT 1	GPT 2	GPT 3	GPT 3-5	GPT 4
Launched	Jun 2019	Feb 2020	May 2021	Jan 2023	Nov 2023
Parameters	117 mm	1.5 bn	175 bn	3 variants: 1.3 bn, 6 bn, 175 bn	100 tn
Decoded layers	12	48	96	12	XXXXX
Hidden layer	768	1600	12288	XXXX	XXXXX
Content token size	512	1024	2048	4,096	8,192 (8k) 32,768 (32k)
No. of English words	XXXX	768	1,536-3,000	3,000- 8,000	24,000- 64,000
Feature	Add text here	Generate human-like text	Improved answers	State of art with lesser toxic outputs	Highly accurate output with data variants such as image, text, speech and numerical data
Model type	Uni-model	Uni-model	Uni-model	Multi-model	Multi-model

This slide is 100% editable. Adapt it to your need and capture your audience's attention.

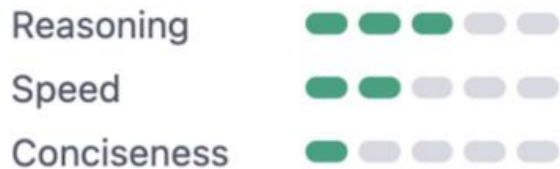




ChatGPT Version

Legacy (GPT-3.5)

The previous ChatGPT Plus model



Default (GPT-3.5)

Optimized for speed, currently available to Plus users



GPT-4

Our most advanced model, available to Plus subscribers.

GPT-4 excels at tasks that require advanced reasoning, complex instruction understanding, and more creativity.





Drag your dot to how you are feeling:



Pear Deck

Keep going, I understand



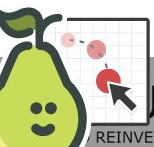
Pear Deck

I'm a little confused



Pear Deck

Stop, I need help!



Students, drag the icon!







THANKS!

Any questions?

