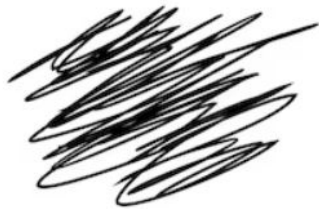


NLP from scratch



OpenAI 101: Getting Started with Python & GPT-4o

www.nlpfromscratch.com

myles@nlpfromscratch.com

Housekeeping



Camera on if comfortable doing so



Stay muted unless speaking



Be professional



Materials will be shared after the meeting

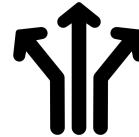
Manifesto



Knowledge is only valuable if it is useful.



The best way to learn is by doing.



Learning is a non-linear process.



Learning is not a journey, it is guided exploration.



Teaching and learning are complementary.

Let's get building!



Creating an API Key

To work with the OpenAI API and get responses, you will need an OpenAI account and API key.

After creating an OpenAI account, you will also need to create an API key. Navigate to the [API Key page](#), and click 'Create New Secret Key'.

[platform.openai.com/
api-keys](https://platform.openai.com/api-keys)

API keys

Your secret API keys are listed below. Please note that we do not display your secret API keys again after you generate them.

Do not share your API key with others, or expose it in the browser or other client-side code. In order to protect the security of your account, OpenAI may also automatically disable any API key that we've found has leaked publicly.

You currently do not have any API keys

Create one using the button below to get started

+ Create new secret key



Creating an OpenAI API Key

API keys

Your secret API keys are listed below. Please note that we do not display your secret API keys again after you generate them.

Do not share your API key with others, or expose it in the browser or other client-side code. In order to protect the security of your account, OpenAI may also automatically disable any API key that we've found has leaked publicly.

Create new secret key

Name Optional

Cancel

Create secret key

If you belong to multiple organizations, this setting controls which organization is used by default when making requests with the API keys above.

Costing - Language Models

Flagship models

GPT-4o New

Our fastest and most affordable flagship model

- ✧ Text and image input, text output
- 📄 128k context length
- 📁 Input: \$5 | Output: \$15*

GPT-4 Turbo

Our previous high-intelligence model

- ✧ Text and image input, text output
- 📄 128k context length
- 📁 Input: \$10 | Output: \$30*

GPT-3.5 Turbo

Our fast, inexpensive model for simple tasks

- ✧ Text input, text output
- 📄 16k context length
- 📁 Input: \$0.50 | Output: \$1.50*

** prices per 1 million tokens*

platform.openai.com/docs/models

Adding the API Key to Google Colab

OpenAI 101 - Getting Started with Python & GPT-




File Edit View Insert Runtime Tools Help [All changes saved](#)

Secrets

Configure your code by storing environment variables, file paths, or keys. Values stored here are private, visible only to you and the notebooks that you select.

{x}

Secret name cannot contain spaces.

Notebook access	Name	Value	Actions
<input checked="" type="checkbox"/>	OPENAI_API_KEY	  

[+ Add new secret](#)

Access your secret keys in Python via:

```
from google.colab import userdata
userdata.get('secretName')
```


Hello GPT World

```
from openai import OpenAI
client = OpenAI()

completion = client.chat.completions.create(
    model="gpt-4o",
    messages=[
        {"role": "system", "content": "You are a poetic assistant, skilled in explaining complex programming concepts with creative flair."},
        {"role": "user", "content": "Compose a poem that explains the concept of recursion in programming."}
    ]
)

print(completion.choices[0].message.content)
```

Step 3: Sending your first API request

✓ Making an API request

After you have Python configured and set up an

API

key

and

you

have

the

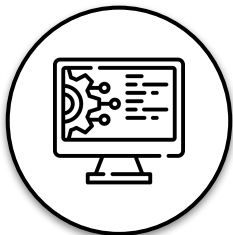
code

platform.openai.com/docs/quickstart/step-3-sending-your-first-api-request

Inside the file, copy and paste one of the examples below:

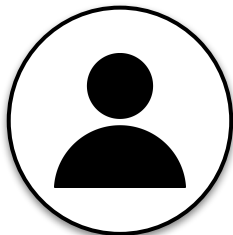
```
ChatCompletions ▾ 📄
1 from openai import OpenAI
2 client = OpenAI()
3
4 completion = client.chat.completions.cre
5     model="gpt-3.5-turbo",
6     messages=[
7         {"role": "system", "content": "You a
8         {"role": "user", "content": "Com
```

Message Roles



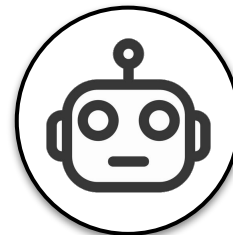
SYSTEM

Sets the behavior of the assistant - how it should behave at the conversation level (optional)



USER

Provide requests or input to which the assistant will respond (i.e. the prompts)



ASSISTANT

Responses from the model. Can be used to include conversation history when it is important (optional)

System prompts – Xena, Warrior Princess

```
completion = client.chat.completions.create(  
    model="gpt-4o",  
    messages=[  
        {"role": "system", "content": "You are Xena,  
Warrior Princess. You will only answer in ALL CAPS,  
incorporate characters from the TV show in your  
replies, and end each reponse with 'I AM XENA, HEAR  
ME ROAR!'"},  
        {"role": "user", "content": "Compose a poem that  
explains the concept of recursion in programming."}  
    ]  
)
```



[platform.openai.com/
docs/guides/text-genera
tion/](https://platform.openai.com/docs/guides/text-generation/)

Today ●



December 2023



Filters ▾

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28 Large Language M...	29	30	1	2
Sign up at nlpfromscratch.com/training!						
						9
10	11 Large Language M...	12	13 What the Heck is a...	14	15 Large Language M...	16
17	18	19	20	21	22	23

Upcoming events
Dec 01 - Feb 2

DEC 04 What the Heck is a... LLM? - F...

DEC 05 Deconstructing the Progress...

DEC 07 Zero to NLP FREE Workshop

DEC 11 Large Language Models a...

DEC 13 What the Heck is a... LLM? - F...

I would value your feedback.



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