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# GPT API tutorial

— Design Lab (CS69202) —

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# GPT (Generative Pre-trained Transformer)

1. GPT stands for Generative Pre-trained Transformer.
2. Developed by OpenAI, it utilizes a transformer architecture for natural language processing tasks.
3. The model is pre-trained on diverse internet text data, learning grammar and context.
4. GPT can generate human-like text when given a prompt.
5. GPT-4 is one of the most recent and powerful versions. ChatGPT uses GPT-3.5.
6. It has been applied to tasks such as text completion, translation, summarization, and question-answering.

# GPT - 3.5 api key

- You can make a gpt-3.5 api key :- <https://openai.com/blog/openai-api>
- Note:-
  - You need an **unique set of mobile number and email address** for the api. (Don't share the api)
  - You will get a **free credit of \$5.00** and roughly around **200 requests/day** limit. So, use wisely.
  - You can go through the pricing criteria <https://openai.com/pricing>

# Step - 1:- Create an account



Welcome back

Email address

Continue

Don't have an account? [Sign up](#)

OR



Continue with Google



Continue with Microsoft Account



Continue with Apple

## Step - 2:- API option



### ChatGPT



Interact with our flagship language models in a conversational interface

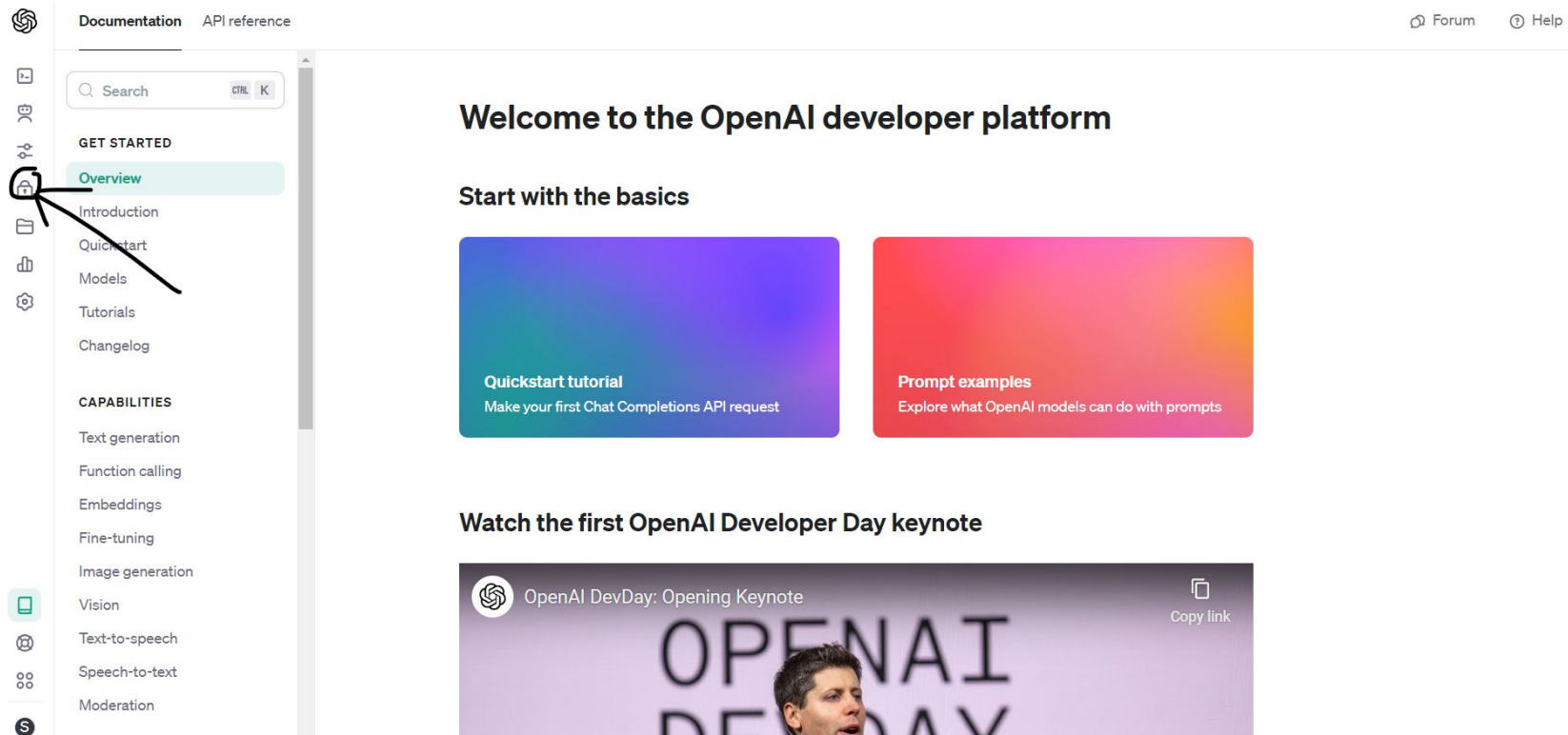
### API



Integrate OpenAI models into your application or business



# Step - 3:- API Key option



The screenshot shows the OpenAI Developer Platform documentation page. The left sidebar contains a navigation menu with the following sections:

- GET STARTED**
  - Overview (highlighted with a hand-drawn arrow)
  - Introduction
  - Quickstart
  - Models
  - Tutorials
  - Changelog
- CAPABILITIES**
  - Text generation
  - Function calling
  - Embeddings
  - Fine-tuning
  - Image generation
  - Vision
  - Text-to-speech
  - Speech-to-text
  - Moderation

The main content area features a search bar at the top right with the text "Search" and a "CTRL K" shortcut. Below the search bar, the heading "Welcome to the OpenAI developer platform" is displayed. Under the heading "Start with the basics", there are two cards:

- Quickstart tutorial**: Make your first Chat Completions API request
- Prompt examples**: Explore what OpenAI models can do with prompts

Below these cards, the heading "Watch the first OpenAI Developer Day keynote" is shown, followed by a video player. The video player displays the title "OpenAI DevDay: Opening Keynote" and a "Copy link" button. The video thumbnail shows a man speaking on a stage with "OPENAI DEV DAY" in the background.

# Step - 4:- Create new secret key option

## 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.

Enable tracking to see usage per API key on the [Usage page](#).

NAME	SECRET KEY	TRACKING ⓘ	CREATED	LAST USED ⓘ
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+ Create new secret key



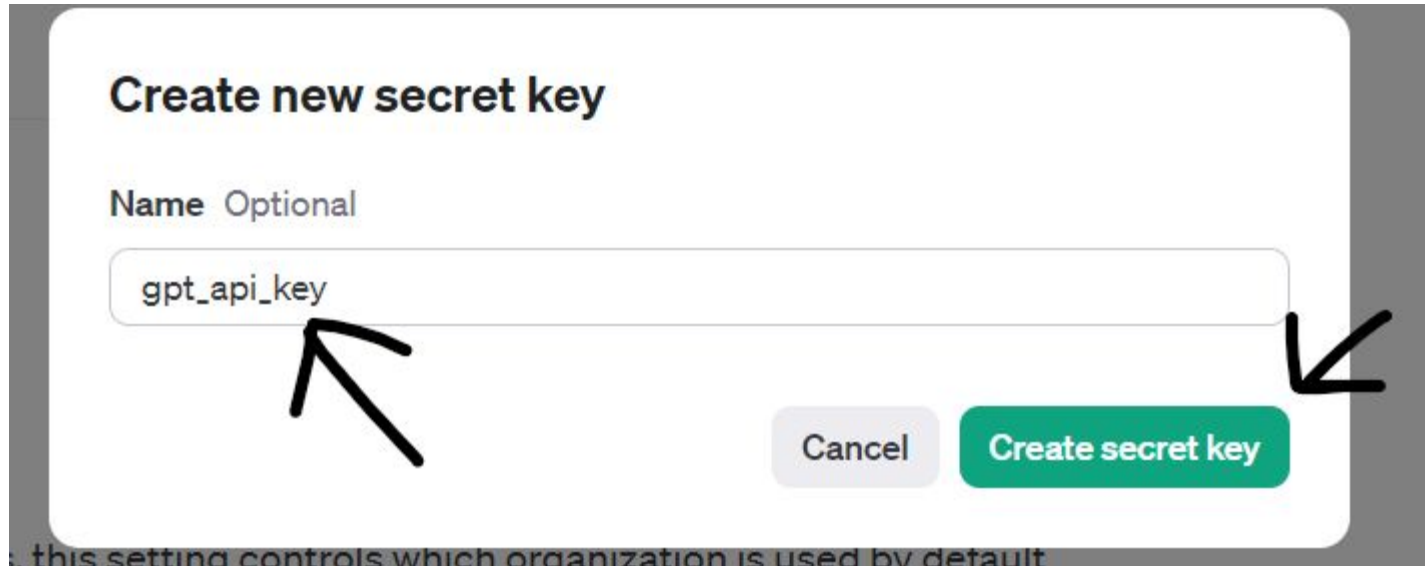
## Default organization

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

Personal

Note: You can also specify which organization to use for each API request. See [Authentication](#) to learn more.

## Step - 5:- Name the api and select create secret key



**Create new secret key**

Name Optional

gpt\_api\_key

Cancel Create secret key

this setting controls which organization is used by default



## Step - 6:- Save the api key and select done

### Create new secret key

Please save this secret key somewhere safe and accessible. For security reasons, **you won't be able to view it again** through your OpenAI account. If you lose this secret key, you'll need to generate a new one.



Done

# GPT-3.5 API usage

## 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.

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NAME	SECRET KEY	TRACKING ⓘ	CREATED	LAST USED ⓘ
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# Chat Completion and Response generation in gpt

Resource - <https://platform.openai.com/docs/guides/text-generation>

Chat completion -

<https://platform.openai.com/docs/guides/text-generation/chat-completions-api>

Api request -

<https://platform.openai.com/docs/guides/text-generation/json-mode>

## References:-

1. <https://platform.openai.com/docs/models>
2. <https://platform.openai.com/docs/guides/text-generation>