Changelog Aug 15th, 2024 Aug 6st, 2024 Aug 1st, 2024 Jul 24th, 2024 Jul 23rd, 2024 Jul 18th, 2024 Jul 17th, 2024 Jun 6th, 2024 Jun 3rd, 2024 May 15th, 2024 May 13th, 2024 May 9th, 2024 May 7th, 2024 May 6th, 2024 May 2nd, 2024 Apr 29th, 2024 Apr 17th, 2024 Apr 16th, 2024 Apr 15th, 2024 Apr 9th, 2024 Apr 4th, 2024 Apr 1st, 2024 Mar 29th, 2024 Mar 14th, 2024 Feb 9th, 2024 Feb 1st, 2024 Jan 25th, 2024 Dec 20th, 2023 Dec 15th, 2023 Dec 14th, 2023 Nov 30th, 2023 Nov 6th, 2023 Oct 16th, 2023 Oct 6th, 2023 Text generation models Quickstart **Python** Javascript - NodeJS

```
Curl
   Prompt engineering
   FAQ
       Which model should I use?
       How should I set the temperature parameter?
       Is fine-tuning available for the latest models?
       Do you store the data that is passed into the API?
       How can I make my application more safe?
       Should I use ChatGPT or the API?
Vision
   Introduction
   Quickstart
       Python
       Curl
       Node Javascript
   Uploading base 64 encoded images
       Python
   Multiple image inputs
       Python
       Node - Javascript
       Curl
   Low or high fidelity image understanding
       Python
       Node - Javascript
       Curl
   Managing images
   Limitations
   Calculating costs
   FAQ
       Can I fine-tune the image capabilities in gpt-4?
       Can I use qpt-4 to generate images?
       What type of files can I upload?
       Is there a limit to the size of the image I can upload?
       Can I delete an image I uploaded?
       Where can I learn more about the considerations of GPT-4 with Vision?
       How do rate limits for GPT-4 with Vision work?
       Can GPT-4 with Vision understand image metadata?
       What happens if my image is unclear?
Function calling
   <u>Introduction</u>
       Example use cases
```

```
The lifecycle of a function call
How to use function calling
   Step 1: Pick a function in your codebase that the model should be able to call
   Python
   NodeJS - Javascript
   Step 2: Describe your function to the model so it knows how to call it
   Step 3: Pass your function definitions as available "tools" to the model, along with the
   messages
   Python
   NodeJS - Javascript
   Step 4: Receive and handle the model response
       If the model decides that no function should be called
   Python
   Javascript
   Javascript - Node
       If the model generated a function call
   Python
   Javascript - NodeJS
       Handling the model response indicating that a function should be called
   Python
   NodeJS - Javascript
   Step 5: Provide the function call result back to the model
   Python
   Javascript
   Handling edge cases
   Python
   Javascript - Node
Function calling with Structured Outputs
   Curl
   Python
   NodeJS - Javascript
Supported schemas
Customizing function calling behavior
   Configuring parallel function calling
   Python
   Javascript - NodeJS
   Python
   Javascript - NodeJS
       Parallel function calling and Structured Outputs
   Configuring function calling behavior using the tool choice parameter
   Python
```

```
NodeJS - Javascript
   Understanding token usage
   Tips and best practices
       Turn on Structured Outputs by setting strict: "true"
       Name functions intuitively, with detailed descriptions
       Name function parameters intuitively, with detailed descriptions
       Consider providing additional information about how and when to call functions in your
       system message
       Use enums for function arguments when possible
       Keep the number of functions low for higher accuracy
       Set up evals to act as an aid in prompt engineering your function definitions and system
       messages
       Fine-tuning may help improve accuracy for function calling
   FAQ
       How do functions differ from tools?
       Should I include function call instructions in the tool specification or in the system
       prompt?
       Which models support function calling?
       What are some example functions?
       Can the model execute functions itself?
       What are Structured Outputs?
       Why might I not want to turn on Structured Outputs?
       How do I ensure the model calls the correct function?
       What does Structured Outputs mean for Zero Data Retention?
   Resources
Structured Outputs
   Introduction
       Python
       Javascript - Nodeis
   When to use Structured Outputs via function calling vs via response format
       Structured Outputs vs JSON mode
   Examples
       Chain of thought
          Pvthon
           Javascript - NodeJS
           Curl
          Example response
       Structured data extraction
          Python
          Javascript-Nodeis
           Curl
```

```
Example response
   UI Generation
       Python
       Javascript-Nodeis
       Curl
       Example response
   Moderation
       Python
       Javascript - NodeJS
       Curl
       Example response
How to use Structured Outputs with response format
   SDK Objects
       Step 1: Define your schema
       Tips for your JSON Schema
       Step 2: Supply your schema in the API call
          Python
          Javascript - NodeJS
          Curl
       Step 3: Handle edge cases
          Python
          Javascript - Nodejs
       Step 4: Use the generated structured data in a type-safe way
          Python
   Refusals with Structured Outputs
       Python
       Javascript - Nodejs
   Tips and best practices
       Handling user-generated input
       Handling mistakes
       Avoid JSON schema divergence
Supported schemas
       Supported types
      All fields must be required
       Objects have limitations on nesting depth and size
       additionalProperties: false must always be set in objects
       Key ordering
       Some type-specific keywords are not yet supported
       For anyOf, the nested schemas must each be a valid JSON Schema per this subset
       Definitions are supported
       Recursive schemas are supported
```

```
JSON mode
       Handling edge cases
          Python
          Javascript- NodeJS
   Resources
Advanced Usage
   Reproducible outputs
   <u>Beta</u>
   Managing tokens
   Parameter details
       Frequency and presence penalties
       Token log probabilities
       Other parameters
Chat Completions
   Overview
       Message roles
   Getting started
       Python
       Javascript - NodeJS
       Curl
   Chat Completions response format
       Python
       Javascript - NodeJS
   Next steps
Fine-tuning
   Introduction
       Which models can be fine-tuned?
   When to use fine-tuning
       Common use cases
   Preparing your dataset
       Example format
       Multi-turn chat examples
       Crafting prompts
       Example count recommendations
       Train and test splits
       Token limits
       Estimate costs
       Check data formatting
       Upload a training file
          Python
          Javascript-NodeJS
```

<u>Curl</u>
Create a fine-tuned model
<u>Python</u>
Javascript- NodeJS
<u>Python</u>
Javascript - NodeJS
Use a fine-tuned model
<u>Python</u>
Javascript - NodeJS
Use a checkpointed model
Analyzing your fine-tuned model
Iterating on data quality
Iterating on data quantity
<u>Iterating on hyperparameters</u>
Fine-tuning examples
<u>Fine-tuning Integrations</u>
Weights and Biases Integration
Authenticate your Weights and Biases account with OpenAl
Enable the Weights and Biases integration
View your fine-tuning job in Weights and Biases
<u>FAQ</u>
When should I use fine-tuning vs embeddings / retrieval augmented generation?
Can I fine-tune GPT-4o, GPT-4 Turbo or GPT-4?
How do I know if my fine-tuned model is actually better than the base model?
Can I continue fine-tuning a model that has already been fine-tuned?
How can I estimate the cost of fine-tuning a model?
How many fine-tuning jobs can I have running at once?
How do rate limits work on fine-tuned models?
Can I use the /v1/fine-tunes endpoint?

Changelog

Keep track of changes to the OpenAl API. You can also track changes via our public OpenAPI specification which is used to generate our SDKs, documentation, and more. This changelog is maintained in a best effort fashion and may not reflect all changes being made.

Aug 15th, 2024

Released dynamic model for chatgpt-4o-latest—this model will point to the latest GPT-4o model used by ChatGPT.

Aug 6st, 2024

Launched Structured Outputs—model outputs now reliability adhere to developer supplied JSON Schemas.

Released gpt-4o-2024-08-06, our newest model in the gpt-4o series.

Aug 1st, 2024

Launched Admin and Audit Log APIs, allowing customers to programmatically administer their organization and monitor changes using the audit logs. Audit logging must be enabled within settings.

Jul 24th, 2024

Launched self-serve SSO configuration, allowing Enterprise customers on custom and unlimited billing to set up authentication against their desired IDP.

Jul 23rd, 2024

Launched fine-tuning for GPT-40 mini, enabling even higher performance for specific use cases.

Jul 18th, 2024

Released GPT-40 mini, our affordable and intelligent small model for fast, lightweight tasks.

Jul 17th, 2024

Released Uploads to upload large files in multiple parts.

Jun 6th, 2024

Parallel function calling can be disabled in Chat Completions and the Assistants API by passing parallel_tool_calls=false.

.NET SDK launched in Beta.

Jun 3rd, 2024

Added support for file search customizations.

May 15th, 2024

Added support for archiving projects. Only organization owners can access this functionality.

Added support for setting cost limits on a per-project basis for pay as you go customers.

May 13th, 2024

Released GPT-40 in the API. GPT-40 is our fastest and most affordable flagship model.

May 9th, 2024

Added support for image inputs to the Assistants API.

May 7th, 2024

Added support for fine-tuned models to the Batch API.

May 6th, 2024

Added `stream_options: {"include_usage": true}` parameter to the Chat Completions and Completions APIs. Setting this gives developers access to usage stats when using streaming.

May 2nd, 2024

Added a new endpoint to delete a message from a thread in the Assistants API.

Apr 29th, 2024

Added a new function calling option `tool_choice: "required"` to the Chat Completions and Assistants APIs.

Added a guide for the Batch API and Batch API support for embeddings models

Apr 17th, 2024

Introduced a series of updates to the Assistants API, including a new file search tool allowing up to 10,000 files per assistant, new token controls, and support for tool choice.

Apr 16th, 2024

Introduced project based hierarchy for organizing work by projects, including the ability to create

API keys and manage rate and cost limits on a per-project basis (cost limits available only for Enterprise customers).

Apr 15th, 2024

Released Batch API

Apr 9th, 2024

Released GPT-4 Turbo with Vision in general availability in the API

Apr 4th, 2024

Added support for seed in the fine-tuning API

Added support for checkpoints in the fine-tuning API

Added support for adding Messages when creating a Run in the Assistants API

Apr 1st, 2024

Added support for filtering Messages by run_id in the Assistants API

Mar 29th, 2024

Added support for temperature and assistant message creation in the Assistants API

Mar 14th, 2024

Added support for streaming in the Assistants API

Feb 9th, 2024

Added timestamp_granularities parameter to the Audio API

Feb 1st, 2024

Released gpt-3.5-turbo-0125, an updated GPT-3.5 Turbo model

Jan 25th, 2024

Released embedding V3 models and an updated GPT-4 Turbo preview Added dimensions parameter to the Embeddings API

Dec 20th, 2023

Added additional_instructions parameter to run creation in the Assistants API

Dec 15th, 2023

Added logprobs and top_logprobs parameters to the Chat Completions API

Dec 14th, 2023

Changed function parameters argument on a tool call to be optional

Nov 30th, 2023

Released OpenAl Deno SDK

Nov 6th, 2023

Released GPT-4 Turbo Preview, updated GPT-3.5 Turbo, GPT-4 Turbo with Vision, Assistants API, DALL·E 3 in the API, and text-to-speech API Deprecated the Chat Completions functions parameter in favor oftools Released OpenAI Python SDK V1.0

Oct 16th, 2023

Added encoding_format parameter to the Embeddings API Added max_tokens to the Moderation models

Oct 6th, 2023

Added function calling support to the Fine-tuning API