

Building with Azure OpenAI Codex-5: Deployment to VS Code Integration

This slide is created for the Feb 13, 2026 UTokyo Azure Usage Briefing #2.
Azure services and UI change frequently. If the following does not work, please refer to [the Azure OpenAI Service documentation](#).

About the Previous Session:

UTokyo Azure Usage Briefing #1

- If you are interested in learning the basics of how to use key Azure services, please refer to the slides and recorded talk from **UTokyo Azure Usage Briefing #1**.
<https://utelecon.adm.u-tokyo.ac.jp/en/events/2025-04-18/>
- Topics covered in the previous session
 - a. Assign the Owner Role**

By assigning the “Owner” role to a user, they can receive alert emails when the usage fee for the “[Guaranteed Free Tier](#)” exceeds a certain threshold.
 - b. Using Azure OpenAI Service**

How to use OpenAI models through a conversational interface like ChatGPT.
 - c. Create a GPU-Enabled Virtual Machine**

How to create a GPU-equipped Linux (Ubuntu) virtual machine on Azure and run deep learning models on it.
 - d. Using Notebooks**

How to use a Jupyter Notebook on Azure.

Today's Overview

1. What is OpenAI Codex-5?

How Codex works and what advantages it brings to your development workflow.

2. Deploying Codex in Azure

Screenshots and important notes at each configuration step.

3. Preparing VS Code for Codex

Benefits of using VS Code with Codex and how to install necessary tools.

4. Connecting VS Code to Your Azure Codex Deployment

Connect the Codex model to the VS Code using the Endpoint URI and API Key.

5. Using Codex in VS Code

Example: fetch data, generate code, refine via chat.

6. Usage & Cost Monitoring

Check pricing and usage amount.

1. What is OpenAI Codex-5?

How Codex works and what advantages it brings to your development workflow.

What is Codex?

- **AI model that generates and explains code from natural language.**

- **Helps beginners and experts: faster coding, fewer repetitive tasks**

88% of U.S. developers say their companies support Code AI use*.

- Commercial code-generation AIs include Codex, GitHub Copilot, Claude Code (Anthropic), Gemini Code Assist (Google), Cursor, DeepSeek Coder, and others.

- However, their free tiers come with strict usage limits, and the paid tiers are expensive (e.g., Claude Code costs \$10-\$200 per month)

→ **Thanks to the MS support, let's use Azure Codex.**



*ref. Kyle Daigle & GitHub Staff, "[Survey: The AI wave continues to grow on software development teams](#)," accessed 26th Jan. 2026.

Choose the right region for your resource

Model summary table and region availability In this article

Models by deployment type

Azure OpenAI provides customers with choices on usage patterns. The service offers two main types of deployment:

- Standard:** Has a global deployment option, resulting in higher throughput.
- Provisioned:** Also has a global deployment option, but with provisioned throughput units across Azure global infrastructure.

All deployments can perform the exact same inference operations, but the billing, scale, and performance are substantially different. To learn more about Azure OpenAI deployment types, see our [Deployment types guide](#).

Global Standard	Global Provisioned managed	Global Batch	Data Zone Standard	Data Zone Provisioned managed	Data Zone Batch	Standard	Provisioned managed
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Global Standard model availability Expand table

Region	gpt-5.2, 2025-12-11	gpt-5.2-chat, 2025-12-11	gpt-5.1, 2025-11-13	gpt-5.1-chat, 2025-11-13	gpt-5.1-codex, 2025-11-13	gpt-5.1-codex-mini, 2025-11-13	gpt-5-pro, 2025-10-06	gpt-5, 2025-08-07	gpt-5-mini, 2025-08-07	gpt-5-nano, 2025-08-07
australiaeast	-	-	-	-	-	-	-	✓	✓	✓

Not all models are available in every region!
Link: [Foundry Models sold directly by Azure - Microsoft Foundry | Microsoft Learn](#)

Was this page helpful?

Region	gpt-5.2-codex, 2026-01-14	gpt-5.2, 2025-12-11	gpt-5.2-chat, 2025-12-11	gpt-5.1-codex-max, 2025-12-04	gpt-5.1, 2025-11-13	gpt-5.1-chat, 2025-11-13	gpt-5.1-codex, 2025-11-13	gpt-5.1-codex-mini, 2025-11-13	gpt-5-pro, 2025-10-06	gpt-5-codex, 2025-09-15	gpt-5, 2025-08-07	gpt-5-mini, 2025-08-07
australiaeast	-	-	-	-	✓	✓	✓	✓	-	-	✓	✓
brazilsouth	-	-	-	-	-	-	-	-	-	-	✓	✓
canadacentral	-	-	-	-	-	-	-	-	-	-	-	-
canadaeast	-	-	-	-	✓	✓	✓	✓	-	-	✓	✓
centralus	-	-	-	-	-	-	-	-	✓	✓	✓	✓
eastus	-	-	-	-	-	-	-	-	-	-	✓	✓
eastus2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
francecentral	-	-	-	-	-	-	-	-	-	-	✓	✓
germanywestcentral	-	-	-	-	-	-	-	-	-	-	✓	✓
italynorth	-	-	-	-	-	-	-	-	-	-	✓	✓
japaneast	-	-	-	-	✓	✓	✓	✓	-	-	✓	✓
koreacentral	-	-	-	-	✓	✓	✓	✓	-	-	✓	✓
northcentralus	-	-	-	-	-	-	-	-	-	-	✓	✓
norwayeast	-	-	-	-	-	-	-	-	-	-	✓	✓
polandcentral	-	-	-	-	-	-	-	-	-	-	✓	✓
southafricanorth	-	-	-	-	-	-	-	-	-	-	✓	✓
southcentralus	-	✓	-	-	-	-	-	-	-	-	✓	✓
southeastasia	-	-	-	-	-	-	-	-	-	-	✓	✓
southindia	-	-	-	-	-	-	-	-	-	-	✓	✓
swedencentral	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
switzerlandwest	-	-	-	-	-	-	-	-	-	-	-	-
uaenorth	-	-	-	-	-	-	-	-	-	-	✓	✓
uksouth	-	-	-	-	✓	✓	✓	✓	-	-	✓	✓
westeurope	-	-	-	-	-	-	-	-	-	-	✓	✓

As of January 25, 2026, gpt-5.2-codex and gpt-5.1 max are only available in the **US East 2** and **Sweden Central** regions. Model availability depends on region and may change over time. Check the official region availability table.

For many day-to-day tasks, GPT-5.1-Codex is often sufficient.

Official Documentation (Azure Codex)

Learn | Documentation | Training | Q&A | Topics

Azure | Products | Architecture | Develop | Learn Azure | Troubleshooting | Resources

Version: Microsoft Foundry (classic)

Find by title

- Codex
- Computer Use
- Deep research
- Web search
- Function calling
- Predicted outputs
- Prompt caching
- Structured outputs
- Vision-enabled chats
- > Additional features
- > Embeddings
- Evaluation
- > Image & video generation
- Stored completions
- Webhooks
- > Concepts
- > How-to

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... / Azure / Microsoft Foundry / Azure OpenAI /

Codex with Azure OpenAI in Foundry Models

OpenAI's [Codex CLI](#) is the same coding agent that powers ChatGPT's Codex coding agent entirely on Azure infrastructure, while keeping your data inside your organization's boundary with the added advantages of enterprise-grade security, private network access control, and predictable cost management. Codex is more than a simple code agent – it's an asynchronous coding agent that can be triggered from your terminal, VS Code, or from a GitHub Actions runner. Codex allows you to automatically open pull requests, refactor files, and write tests with the credentials of your Foundry project and Azure OpenAI deployments.

Prerequisites

- An Azure subscription - [Create one for free](#)
- Contributor permissions in [Microsoft Foundry](#).
- [homebrew](#) or [npm](#) for installing the Codex CLI or VS Code with the Codex extension.

Expand table

Requirements	Details
Operating systems	macOS 12+, Ubuntu 20.04+/Debian 10+, or Windows 11 via WSL2
Git (optional, recommended)	2.23+ for built-in pull request helpers

Was this page helpful?

Yes No

Link:
<https://learn.microsoft.com/en-us/azure/ai-foundry/openai/how-to/codex>

2. Deploying Codex in Azure

Screenshots and important notes at each configuration step.

Azure services

Create a resource

Subscriptions

Network Watcher

More services

All Services (3)

Services

- Microsoft Foundry
- Language
Keywords: Foundry
- Network foundation

Microsoft Entra ID [See more](#)

- ai-foundry-shared-playground-ai-foundry-shar... Application
- lscf-ai-foundry-swc1-resource-lscf-ai-foundry-... Application
- ai-foundry-CyberAgent-ttani-ai-foundry-Cyber... Application
- monkeyplayground-foundry Service Principal

Marketplace [See more](#)

Continue searching in Microsoft Entra ID

Searching all subscriptions. [Change](#) [Give feedback](#)

Open "Azure Portal" with your UT Account.
<https://portal.azure.com/>

Search and click "Microsoft Foundry"

Resources

Recent Favorite

Name
1923306880-YamakataTrainin
UTCodexGP2026
yamakata-gpt5

es Azure Databricks AI Search

Last Viewed

a few seconds ago
14 minutes ago
5 days ago

Home > Microsoft Foundry



Search

Overview Dashboard

Overview

- All resources
- > Use with Foundry
- > More services
- > Classic AI services
- > Help



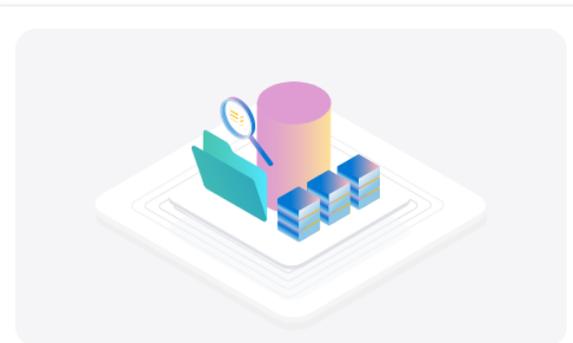
Create a Foundry Resource
Start building a Foundry resource to start building, customizing and evaluating AI solutions using Foundry.

[Create a resource](#)



Manage AI Resources
View and manage all your AI services.

[View all resources](#)



Home > Microsoft Foundry | Foundry >

Create a Foundry resource

Basics | Storage | Network | Identity | Encryption | Tags | Review + create

Design, customize, and manage AI apps and agents at scale. [Learn More](#)

Instance Details

Select the subscription to manage deployed resources and costs. Use resources group to manage all your resources.

Subscription * ⓘ

Resource group * ⓘ
[Create new](#)

Name * ⓘ

Region ⓘ

If you own multiple subscriptions, select the one you want to associate this time from the list.

Home > Microsoft Foundry | Foundry >

Create a Foundry resource

Basics Storage Network Identity Encryption Tags Review

Design, customize, and manage AI apps and

Instance Details

Select the subscription to manage deployed resources and manage all your resources.

Subscription * ⓘ

Resource group * ⓘ

Name * ⓘ

Region ⓘ

A resource group is a container for related resources for an Azure solution.

Name *

 ✓

OK Cancel

[Create new](#)

East US

Creating a separate resource group for each research project makes it easy to delete all related resources simply by deleting that resource group once the project is complete.

Previous Next Review + create

Give feedback

Create a Foundry resource

Basics Storage Network Identity Encryption Tags Review + create

Design, customize, and manage AI apps and agents at scale. [Learn More](#)

Instance Details

Select the subscription to manage deployed resources and costs. Use resource groups to manage all your resources.

Subscription * ⓘ 1923306880-YamakataTraining

Resource group * ⓘ (New) UTokyoAzureGP2026

[Create new](#)

Name * ⓘ UTokyoAzureGP2026CodeAI

Region ⓘ East US 2

This "Name" will be used for endpoint URI so it has to be globally unique.

If you want to use gpt-5.2-codex or gpt-5.1 max, choose East US 2 or Sweden Central.

Previous Next **Review + create**

Home > Microsoft Foundry | Foundry >

Create a Foundry resource

Basics Storage Network Identity Encryption Tags Review + create

[View automation template](#)

Basics

Subscription	1923306880-YamakataTraining
Resource group	UTokyoAzureGP2026
Name	UTokyoAzureGP2026CodeAI
Region	East US 2
Default project name	proj-default

Storage

[Previous](#) [Next](#) **Create**

[Give feedback](#)

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Create a Foundry resource

Basics Storage Network Identity Encryption Tags Review + create

[View automation template](#)

Basics

Subscription	1923306880-YamakataTraining
Resource group	UTokyoAzureGP2026
Name	UTokyoAzureGP2026CodeAI
Region	East US 2
Default project name	proj-default

Storage

■ ■ ■ Initializing deployment...

Initializing template deployment to resource group 'UTokyoAzureGP2026'.

Previous

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Create

[Give feedback](#)

Home >



AIFoundryCreate-20251228180537 | Overview

Deployment

Search

- Delete
- Cancel
- Redeploy
- Download
- Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress



Deployment name : AIFoundryCreate-20251228180537

Subscription : [1923306880-YamakataTraining](#)

Resource group : [UTokyoAzureGP2026](#)

Start time : 12/28/2025, 6:25:15 PM

Correlation ID : 3c706cb5-9b0c-4623-aa23-653ae74ec4f9

Deployment details

Resource	Type	Status	Operation data
----------	------	--------	----------------

There are no resources to display.

Home >



AIFoundryCreate-20251228180537 | Overview

Deployment

Search

- Delete
- Cancel
- Redeploy
- Download
- Refresh

Overview

Inputs

Outputs

Template

Deployment succeeded
Deployment 'AIFoundryCreate-20251228180537' to resource group 'UTokyoAzureGP2026' was successful.
[Go to resource](#) [Go to resource group](#)

Your deployment is complete

Deployment name : AIFoundryCreate-20251228180537
Subscription : [1923306880-YamakataTraining](#)
Resource group : [UTokyoAzureGP2026](#)
Start time : 12/28/2025, 6:25:18 PM
Correlation ID : 3c706cb5-9b0c-4623-aa23-653ae74ec4f9

> Deployment details

✓ Next steps

[Go to resource](#)

Home > AIFoundryCreate-20251228180537 | Overview >

UTokyoAzureGP2026CodeAI Foundry Show platform metrics for this AI resource +2

Search

Go to Foundry portal Delete

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource visualizer
- > Resource Management
- > Security
- > Monitoring
- > Automation
- > Help

Essentials JSON View

Resource group [\(move\)](#)
[UTokyoAzureGP2026](#)

Subscription [\(move\)](#)
[1923306880-YamakataTraining](#)

Subscription ID
a600356d-63a3-483e-b4bb-59629c01a212

Endpoints
[Click here to view endpoints](#)

Tags [\(edit\)](#)
[Add tags](#)

API Kind
AIServices

Location
eastus2

Status
Succeeded



Scroll down



Home > AIFoundryCreate-20251228180537 | Overview >

UTokyoAzureGP2026CodeAI Foundry Show platform metrics for this AI resource +2

Search

Go to Foundry portal Delete

- Overview**
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource visualizer
- > Resource Management
- > Security
- > Monitoring
- > Automation
- > Help

Subscription ID: a600356d-63a3-483e-b4bb-59629c01a212 Status: Succeeded

Endpoints
[Click here to view endpoints](#)

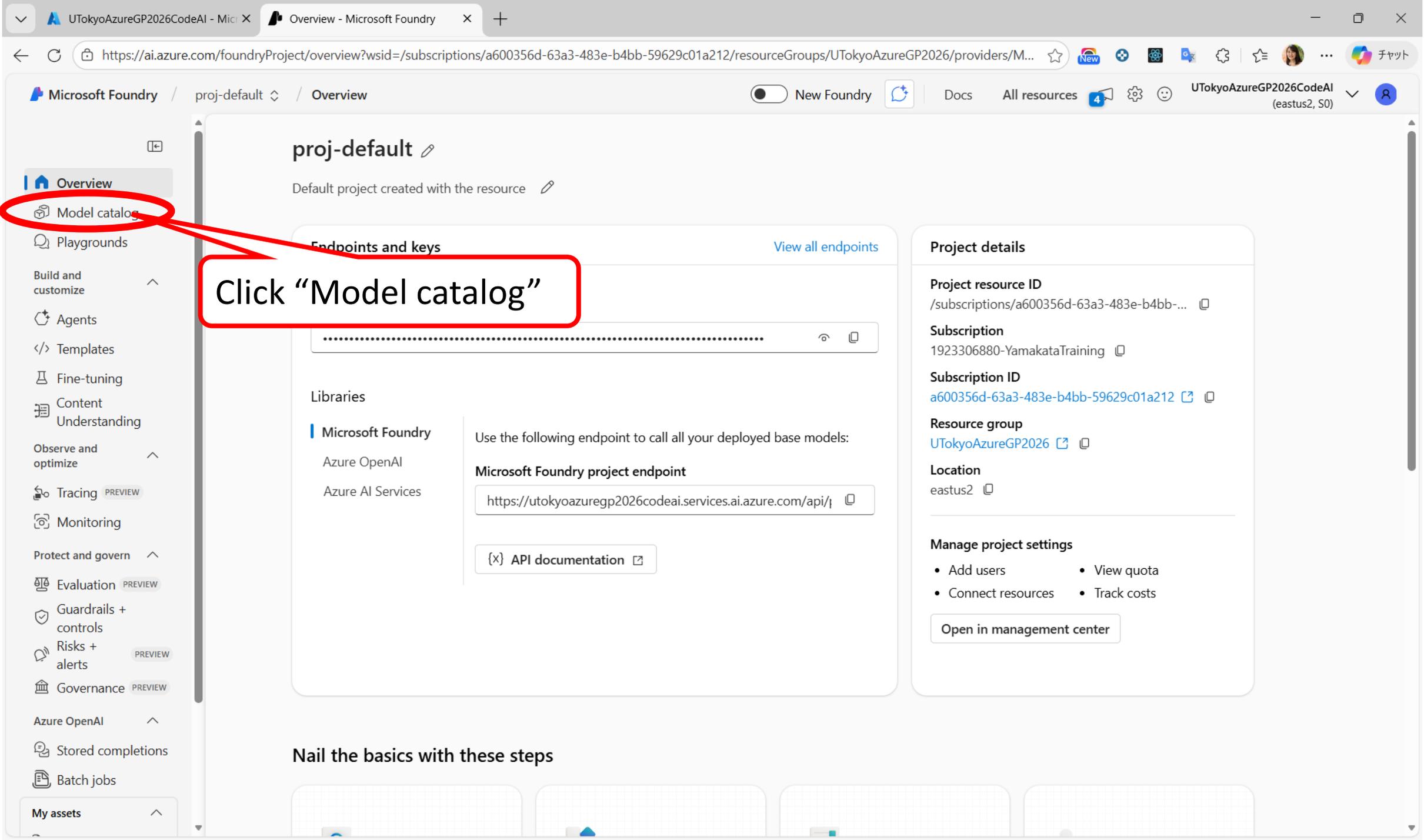
Tags ([edit](#))
[Add tags](#)



Build apps and agents in Foundry

Unlock advanced AI capabilities, seamlessly integrate with your systems, and accelerate AI application development with Foundry.

Go to Foundry portal



Click "Model catalog"

- Microsoft Foundry / proj-default / Model catalog
- Overview
- Model catalog**
- Playgrounds
- Build and customize
 - Agents
 - Templates
 - Fine-tuning
 - Content Understanding
- Observe and optimize
 - Tracing PREVIEW
 - Monitoring
- Protect and govern
 - Evaluation PREVIEW
 - Guardrails + controls
 - Risks + alerts PREVIEW
 - Governance PREVIEW
- Azure OpenAI
 - Stored completions
 - Batch jobs

Find the right model to build your custom AI solution

Models shown are available for deployment in this project. [See all models](#)

Announcements

Introducing GPT-image-1.5

GPT-image-1.5 is OpenAI's most cutting-edge image model. It excels in face preservation and...

[Check out model](#) [Read blog](#)

Introducing gpt-realtime-mini, gpt-4o-mini-transcribe, and gpt-4o-mini-tts

These improvements deliver significant gains in accuracy, naturalness, and real-time performance

[Check out models](#) [Read blog](#)

Introducing FLUX.2-pro

FLUX.2-pro delivers high quality and greater prompt adherence while generating faster at...

[Check out models](#) [Read blog](#)

Introducing DeepSeek V3.2

DeepSeek-V3.2, a model that harmonizes high computational efficiency with superior reasonin...

[Check out models](#) [Read blog](#)



Model leaderboards

See what models are performing best in different criteria. [Learn more](#) about our scoring methodology.

Quality

- gpt-5.2
- claude-opus-4-5
- claude-sonnet-4-5

Safety

- gpt-5-pro
- claude-haiku-4-5
- gpt-5.1-codex-mini

Cost

- gpt-5-nano
- mistral-small-2503
- gpt-4.1-nano

Throughput

- gpt-oss-120b
- gpt-5-nano
- grok-code-fast-1

- Collections
- Capabilities
- Inference tasks
- Fine-tuning tasks
- Licenses

[Compare models](#)

Search

Models

Scroll down



Find the right model to build your custom AI solution

Models shown are available for deployment in this project. [See all models](#)

Model leaderboards

See what models are performing best in different criteria. [Learn more](#) about our scoring methodology.

Quality

- 1 gpt-5.2-codex
- 2 gpt-5.2
- 3 claude-opus-4-5

Safety

Cost

Throughput

- 1 gpt-oss-120b
- 2 gpt-5-nano
- 3 grok-code-fast-1

Search with "codex" and you can find the list of available models.

Collections Capabilities Fine-tuning tasks Licenses

codex

Compare models

Models 6

codex-mini
Responses

gpt-5.1-codex-max
Responses

gpt-5.1-codex
Responses

gpt-5.1-codex-mini
Responses

gpt-5.2-codex
Responses

When you chose "gpt 5.2-codex"

Prev Next

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- My assets
 - Data + indexes
 - Models + endpoints

gpt-5.2-codex

Help

Use this model

If this button is available, go to the slide #28.

Registration is required to use this model: Access will be granted according to Microsoft's eligibility criteria; you may not be eligible for access at this time. If you have already requested access, thank you for your patience while your submission is reviewed. [Request access](#)

Details Existing deployments License

Direct from Azure model

Direct from Azure models are a select portfolio of models that are:

- Secure and managed by Microsoft: Pure Microsoft models with no third-party dependencies, full Microsoft support, and no third-party dependencies.
- Streamlined operations: Benefit from unified billing, governance, and seamless PTU portability across models hosted on Azure - all part of Microsoft Foundry.
- Future-ready flexibility: Access the latest models as they become available, and easily test, deploy, or switch between them within Microsoft Foundry, reducing integration effort.

[See more](#)

If you see "Registration is required to use this model," click "Request access."

Direct from Azure

Training data last updated
September 2024

Pricing
[See pricing](#)

Model ID

Reference this model ID when deploying the model in code

```
azureml://registries/azure-openai/models/gpt-5.2-codex/versions/2026-01-14
```

Model Versions

Access to the model is required to be able to see the model versions:

Access will be granted according to Microsoft's eligibility criteria; you may not be eligible for access at this time. If you have already requested access, thank you for your patience while your submission is reviewed.

[Request access](#)

Data, media and languages

Property	Description
----------	-------------

- Overview
- Model catalog
- Playgrounds
- Build and customize
 - Agents
 - Templates
 - Fine-tuning
 - Content Understanding
- Observe and optimize
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Azure OpenAI Services Limited Access Application

Fill out the form to register.
Note "Subscription ID" is not
the name of "Subscription".

* 必須

Please read all instructions carefully and complete form as instructed

The Azure OpenAI Service gpt-5.2, gpt-5.1, gpt-5, gpt-5-pro, gpt-5.2-codex, gpt-5.1-codex-max, gpt-5.1-codex, gpt-5-codex, o3, o3-pro, deep research, reasoning summary, Sora 2, gpt-image-1.5, gpt-image-1, and gpt-image-1-mini require registration. Due to high demand, customers may remain on the waitlist until space is available.

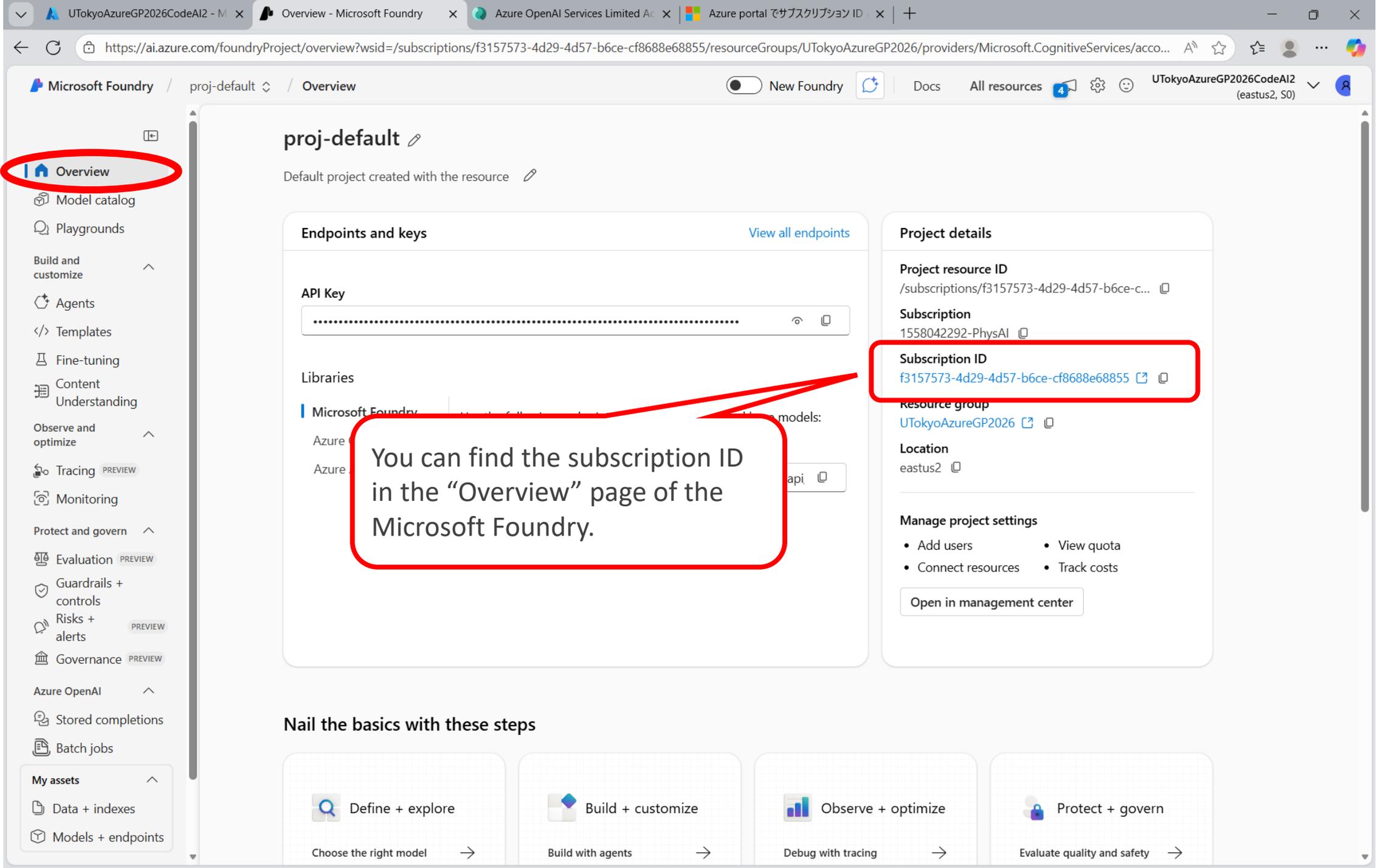
Other models (listed [here](#)) do not require registration. [Learn more about limited access to Azure OpenAI Service here.](#)

Please visit the [Overview of Responsible AI Practices](#) and [Azure OpenAI's transparency note](#), which provides information and guidelines for responsible use of the service as well as system limitations that may be applicable to your scenario.

Possible causes for a denied application:

- 1) You submitted an invalid subscription
- 2) You submitted with a personal email (Example: [@gmail.com](#), [@yahoo.com](#), [@hotmail.com](#), etc.)

Updates about your request: Please add maccount@microsoft.com and csgate@microsoft.com to your Safe Senders



Overview

proj-default

Default project created with the resource

Endpoints and keys

[View all endpoints](#)

API Key

.....

Libraries

Microsoft Foundry

Azure

Azure

models:

api

Project details

Project resource ID

/subscriptions/f3157573-4d29-4d57-b6ce-c...

Subscription

1558042292-PhysAI

Subscription ID

f3157573-4d29-4d57-b6ce-cf8688e68855

Resource group

UTokyoAzureGP2026

Location

eastus2

Manage project settings

- Add users
- View quota
- Connect resources
- Track costs

[Open in management center](#)

You can find the subscription ID in the "Overview" page of the Microsoft Foundry.

Nail the basics with these steps

Define + explore

Choose the right model →

Build + customize

Build with agents →

Observe + optimize

Debug with tracing →

Protect + govern

Evaluate quality and safety →

Approved within 2 hours,
but it depends on the timing.

[Application 3320500] Thank you for your request for the Azure OpenAI Service models! External 受信トレイ x

Cognitive Services Gating Support <csgate@microsoft.com>
To [redacted]

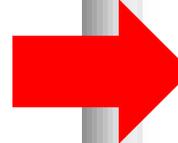
2025/11/21 17:56 ☆ ⏪ ⋮

Thank you for your interest

Thank you for your application for the Azure OpenAI Service gpt-5.1, gpt-5, gpt-5-pro, gpt-5.1-codex, gpt-5-codex, o3, o3-pro, deep research, Sora 2, gpt-image-1, and gpt-image-1-mini. Due to high demand, we do not have an estimated time for onboarding eligible customers. We will notify you when your application has been approved or denied.

Sincerely,
Azure OpenAI Service Gating Team
[Azure OpenAI Service](#)

Microsoft respects your privacy. Review our online [Privacy Statement](#)
Microsoft Corporation
One Microsoft Way
Redmond, WA, USA 98052



Welcome to the Azure OpenAI Service models! [ApplicationID 3320500] External

Cognitive Services Gating Support <csgate@microsoft.com>
To [redacted]

2025/11/21 19:03 ☆ ⏪ ⋮

Onboarding to the Azure OpenAI Service gpt-5.1, gpt-5, gpt-5-pro, gpt-5-codex, o3, o3-pro, deep research, Sora 2, gpt-image-1, and gpt-image-1-mini

Congratulations! After reviewing your application, we are pleased to inform you that you have been onboarded to the Azure OpenAI Service gpt-5, gpt-5-pro, gpt-5-codex, o3, o3-pro, deep research, Sora 2, gpt-image-1, and gpt-image-1-mini models.

To get started, please see our [documentation](#).

Questions? Need help? Visit Support and Troubleshooting within the Azure Portal

Subscription ID: [redacted]

Thank you,
Azure OpenAI Service Gating Team
[Azure OpenAI Service](#)

Microsoft respects your privacy. Review our online [Privacy Statement](#)
Microsoft Corporation
One Microsoft Way
Redmond, WA, USA 98052

gpt-5.2-codex



Use this model

Now you can click "Use this model."

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 - Data + indexes
 - Models + endpoints

Details Existing deployments Licen

Direct from Azure models

Direct from Azure models are a select portfolio curated for their market-differentiated capabilities:

- Secure and managed by Microsoft: Purchase and manage models directly through Azure with a single license, consistent support, and no third-party dependencies, backed by Azure's enterprise-grade infrastructure.
- Streamlined operations: Benefit from unified billing, governance, and seamless PTU portability across models hosted on Azure - all part of Microsoft Foundry.
- Future-ready flexibility: Access the latest models as they become available, and easily test, deploy, or switch between them within Microsoft Foundry, reducing integration effort.

[See more](#)

Model Versions

[Learn more about region availability](#)

East US 2

Model ID	Deployment type	Lifecycle	Max request	Retirement Date
2026-01-14	Global Standard	Generally available	Input: N/A Output: N/A	2027年1月14日(木)

Data, media and languages

Property	Description
Supported data types	Inputs text, image Outputs text

Quick facts OpenAI

gpt-5.2-codex

Responses

Direct from Azure

Training data last updated
September 2024

Pricing
[See pricing](#)

Model ID

Reference this model ID when deploying the model in code

```
azureml://registries/azure-openai/models/gpt-5.2-codex/versions/2026-01-14
```

Name: 山肩 洋子
Email: 1923306880@utac.u-tokyo.ac.jp
Directory: The University of Tokyo
(f07baf4f-2b70-47d7-9a02-0875caf94c84)

gpt-5.2-codex

Use this model Fine-tune

Details Existing deployments

Direct from Azure

Direct from Azure models are a...
• Secure and managed by Mic... support, and no third-party c...
• Streamlined operations: Ben... - all part of Microsoft Found...
• Future-ready flexibility: Acc... within Microsoft Foundry: re...
[See more](#)

Model Versions

[Learn more about region availabi](#)

East US 2

Model ID

2026-01-14

Data, media and languages

Property	Description
Supported data types	Inputs text, image Outputs text

Deploy gpt-5.2-codex

Deployment name *

Deployment type

Global Standard: Pay per API call with the highest rate limits. [Learn more about Global deployment types](#)

Data might be processed globally, outside of the resource's Azure geography, but data storage remains in the AI resource's Azure geography. [Learn more about data residency](#)

Deployment details Customize

Model version	2026-01-14	Authentication type	Key
Capacity	250K tokens per minute (TPM)	Resource location	East US 2
Content safety	DefaultV2	Version upgrade policy	Once a new default version is available

Deploy Cancel

Quick facts OpenAI

gpt-5.2-codex

Responses

Direct from Azure

Training data last updated
September 2024

Pricing
[See pricing](#)

Model ID
Reference this model ID when deploying the model in code

```
azureml://registries/azure-openai/models/gpt-5.2-codex/versions/2026-01-14
```

← gpt-5.2-codex

Details Metrics

Request quota Edit Delete

Information required for remote access.

Endpoint

Target URI
https://codeai-test.cognitiveservices.azure.com/openai/r...
Key
.....

Language REST SDK curl Authentication type Key Authentication

Get Started

1. Authentication using API Key

For Serverless API Endpoints, deploy the Model to generate the endpoint URL and an API key to authenticate against the service. In this sample endpoint and key are strings holding the endpoint URL and the API Key. The API endpoint URL and API key can be found on the Deployments + Endpoint page once th

If you're using bash:

```
export AZURE_API_KEY="<your-api-key>"
```

If you're in powershell:

```
$Env:AZURE_API_KEY = "<your-api-key>"
```

If you're using Windows command prompt:

```
set AZURE_API_KEY = <your-api-key>
```

This explains how use this model remotely.

2. Run a basic code sample

Paste the following into a shell

```
curl -X POST "https://codeai-test.cognitiveservices.azure.com/openai/responses?api-version=2025-04" \
-H "Content-Type: application/json" \
-H "Authorization: Bearer $AZURE_API_KEY" \
```

Deployment info

Name	gpt-5.2-codex	Provisioning state	Succeeded
Deployment type	Global Standard	Created on	2026-01-25T08:51:09.9659016Z
Created by	1923306880@utac.u-tokyo.ac.jp	Modified on	Jan 25, 2026 5:51 PM
Modified by	1923306880@utac.u-tokyo.ac.jp	Version upgrade policy	Once a new default version is available
Rate limit (Tokens per minute)	250,000	Rate limit (Requests per minute)	2,500

Model name	gpt-5.2-codex	Model version	2026-01-14
Life cycle status	GenerallyAvailable	Date created	Jan 13, 2026 9:00 AM
Date updated		Model retirement date	

- Overview
- Model catalog
- Playgrounds
- Build and customize
 - Agents
 - Templates
 - Fine-tuning
 - Content Understanding
- Observe and optimize
 - Tracing PREVIEW
 - Monitoring
- Protect and govern
 - Evaluation PREVIEW
 - Guardrails + controls
 - Risks + alerts PREVIEW
 - Governance PREVIEW
- Azure OpenAI
 - Stored completions
 - Batch jobs
- My assets
 - Data + indexes
 - Models + endpoints

3. Preparing VS Code for Codex

Benefits of using VS Code with Codex and how to install necessary tools.

Why VS Code?

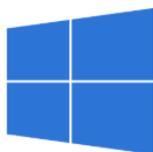
- **Widely used** and has **strong support for AI coding extensions**, Git, and an integrated terminal.
- **Lightweight and fast**, yet powerful enough for large projects.
- **Rich extension ecosystem**, supporting AI coding tools, linters, debuggers, and language servers.
- **Integrated terminal**, making it easy to run commands without leaving the editor.
- **Excellent Git integration**, including stage, commit, diff, and history views.
- **Cross-platform support** (Windows, macOS, Linux) with a consistent experience.
- **Customizable UI and keybindings**, allowing developers to tune the environment to their workflow.
- The **Codex extension** makes it easy to integrate with **Azure Codex**

Install VS Code from the page below: [Download Visual Studio Code - Mac, Linux, Windows](https://code.visualstudio.com/download)

Version 1.108 is now available! Read about the new features and fixes from December.

Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.



↓ Windows
Windows 10, 11

- User Installer [x64](#) [Arm64](#)
- System Installer [x64](#) [Arm64](#)
- .zip [x64](#) [Arm64](#)
- CLI [x64](#) [Arm64](#)



↓ .deb ↓ .rpm
Debian, Ubuntu Red Hat, Fedora, SUSE

- .deb [x64](#) [Arm32](#) [Arm64](#)
- .rpm [x64](#) [Arm32](#) [Arm64](#)
- .tar.gz [x64](#) [Arm32](#) [Arm64](#)
- Snap [Snap Store](#)
- CLI [x64](#) [Arm32](#) [Arm64](#)



↓ Mac
macOS 11.0+

- .zip [Intel chip](#) [Apple silicon](#) [Universal](#)
- CLI [Intel chip](#) [Apple silicon](#)

By downloading and using Visual Studio Code, you agree to the [license terms](#) and [privacy statement](#).

Want new features sooner?
Get the [Insiders build](#) instead.

Use [vscode.dev](#) for quick
edits online!

- If you want to use Codex with an existing project, open that folder.
- Here is an example to open an empty folder to create a new program.

Visual Studio

Editing evolved

Start

- New File...
- Open File...
- Open Folder...**
- Clone Git Repository...
- Connect to...

Recent

- BERT ~/research/l_wang [SSH: iroha]
- yamakata /home [SSH: iroha]
- BERT ~/research/l_wang [SSH: winry]
- Multitask-Learning-for-Food-Ingredient-Recognition ~/research/l_wang [SSH...]
- MapView /var/www/html [SSH: mdx]
- More...

GitHub Copilot

Supercharge your coding experience for as little as \$10/month with cutting edge AI code generation.

Walkthroughs

- Get Started with VS Code**
Discover the best customizations to make VS Code yours.
- Learn the Fundamentals**
- Boost your Productivity**
- Get Started with Python Development** Updated
- Get Started with Jupyter Notebooks** Updated

Show welcome page on startup

EXPLORER

Welcome x

SAMPLECODE



Visual Studio Code

Editing evolved

Start

- New File...
- Open File...
- Open Folder...
- Connect to...

Recent

- BERT ~/research
- yamakata /home
- BERT ~/research
- Multitask-Learnin
- MapView /var/
- More...



Do you trust the authors of the files in this folder?

Code provides features that may automatically execute files in this folder.

If you don't trust the authors of these files, we recommend to continue in restricted mode as the files may be malicious. See [our docs](#) to learn more.

C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode

Trust the authors of all files in the parent folder '20260213説明会'

Yes, I trust the authors

No, I don't trust the authors

Browse folder in restricted mode

Recommended

Get Started with Copilot

Upgrade your coding experience for as little as \$10/month with Copilot, your edge AI code generation.

Tutorials

Get Started with VS Code

Discover the best customizations to make VS Code yours.

Learn the Fundamentals

Boost your Productivity

Get Started with Python Development Updated

Get Started with Jupyter Notebooks Updated

Show welcome page on startup



OUTLINE

TIMELINE

EXPLORER

Welcome x

SAMPLECODE

Visual Studio Code

Editing evolved

Extensions (Ctrl+Shift+X)

Click "Extension"

Connect to...

Recent

- BERT ~/research/l_wang [SSH: iroha]
- yamakata /home [SSH: iroha]
- BERT ~/research/l_wang [SSH: winry]
- Multitask-Learning-for-Food-Ingredient-Recognition ~/research/l_wang [SS...]
- MapView /var/www/html [SSH: mdx]
- More...

Recommended

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 **Get Started with VS Code**
Discover the best customizations to make VS Code yours.

 **Learn the Fundamentals**

 **Boost your Productivity**

 **Get Started with Python Development** Updated

 **Get Started with Jupyter Notebooks** Updated

Show welcome page on startup

Search with "codex"

Click "Codex - OpenAI's coding agent"

The screenshot shows the Visual Studio Code interface with the Extensions Marketplace open. The search bar at the top left contains the text "codex". The search results list several extensions, with "Codex - OpenAI's coding agent" by OpenAI highlighted. A red circle is drawn around the search bar and the extension name. A red arrow points from the text "Click 'Codex - OpenAI's coding agent'" to the extension name. The main editor area shows the "Start" and "Walkthroughs" sections. The "Start" section includes options like "New File...", "Open File...", "Open Folder...", "Clone Git Repository...", "Connect to...", and "Generate New Workspace...". The "Walkthroughs" section includes "Get started with VS Code", "Learn the Fundamentals", "Get Started with Jupyter Not...", "Browse & Edit Remote Reposi...", and "Getting Started with Contain...". The right sidebar shows the "CHAT" panel with "RECENT SESSIONS" and a "Build with Agent" section.

EXTENSIONS: MARKETPLACE

codex

Codex – OpenAI’s codin... 258ms
 Codex is a coding agent that works ...
 OpenAI

Codex 52K ★ 5
 Codex gives new meaning to your c...
 Codex **Install**

Codex 3K
 Codex is a collection of Visual Studi...
 Laczik Dávid **Install**

CodeX 1K
 A simple minimalistic dark theme fo...
 WorriedArrow **Install**

Claude Opus 4.5, G
 Claude 4, GPT-5, De...
 Sixth

Codex Effect
 A dark sci-fi col...
 steamforge

Codex-AI
 An AI code complet...
 Mohammed Abdul Ra...

codaz codex 184
 Codaz **Install**

Codex UI 144
 Use Codex CLI (app-server) inside V...
 harukary7518 **Install**

Fabarta CodeX 511
 AI Autocomplete for OSS code-gen ...
 Ruanqi **Install**

andromeda codex 675 ★ 5
 OpenAI’s Codex CLI for VScode
 ThomasYiu0447 **Install**

codex-vscode 2K
 OpenAI Codex (and more) powered...

Extension: Codex – OpenAI’s coding agent



Codex – OpenAI’s coding agent

OpenAI openai.com 3,340,268 ★★★★★ (229)

Codex is a coding agent that works with you everywhere you code — included in ChatGPT Plus, Pro...

Disable Uninstall Switch to Pre-Release Version Auto Update

DETAILS FEATURES

Codex is OpenAI’s coding agent that helps you write, re... by-side in your IDE or delegate larger tasks to the cloud

Pair with Codex

Sign in with your ChatGPT account

Codex works with Plus, Pro, Business, Edu, and Enterprise in your plan at the Help Center.

Learn more about Codex

See the docs at <https://developers.openai.com/codex/ide>.

(MacOS only) Work with the ChatGPT macOS app

The OpenAI Codex extension also supports connecting the ChatGPT macOS app to VS Code so

Click “install”

Visual Studio Code

Can't install 'openai.chatgpt' extension because it is not compatible with the current version of Visual Studio Code (version 1.83.1).

OK

If you see this message, update VS Code.

CHAT

RECENT SESSIONS

- コードのリファクタリングをしてくださ... Completed Codex • 1 mo
- Are you Azure? Completed Codex • 1 mo
- Are you Azure? Completed Codex • 1 mo

Show More



Build with Agent

AI responses may be inaccurate. Generate Agent Instructions to onboard AI onto your codebase.

Add Context...

Describe what to build next

Agent Auto

EXTENSIONS: MARKETPLACE

openai

- Codex – OpenAI's ...** 95ms
Codex is a coding agent tha...
OpenAI
- vscode-ope...** 109K 4.5
vscode-openai seamlessly in...
Andrew Butson
- OpenAI Deve...** 44K 4.5
Integration with OpenAI mo...
Manas Sahu
- OpenAI Helper** 30K 3
This extension helps you to ...
Akkaya
- vs-openai** 6K
Extension useful to combine...
FabianHuerfano
- OpenAI Translate** 8K 5
Translate your code using O...
Stark.me
- OpenAI Debugger** 413
Extend the VS Code debugg...
flashboss
- OpenAI Forge** 1K
OpenAI Forge Visual Studio ...
Ivan Gabriele
- OpenAI Assistant** 4K
Use the Official OpenAI API ...
Alexandru Podgoreanu

Release Notes: 1.107.1

Extension: Codex – OpenAI's coding agent

Codex – OpenAI's coding agent

OpenAI openai.com | 2,824,000 | ★★★★★ (212)

Codex is a coding agent that works with you everywhere you code — included in ChatGPT Plus, Pro, Business, Edu, and Enterprise plans.

Disable | Uninstall | Switch to Pre-Release Version | Auto Update

DETAILS | FEATURES

Codex is OpenAI's coding agent that helps you write, review, and ship code faster. Use it side-by-side in your IDE or delegate larger tasks to the cloud.

Pair with Codex

Codex as a panel in VS Code to chat, edit, and preview changes seamlessly. With context from opened files and selected code, you get shorter prompts and get faster, more relevant results. (Tip: many users like moving the Codex panel to the right side of the IDE.)

Delegate to Codex in the cloud

Offload bigger jobs to Codex in the cloud, then track progress and review results without leaving your IDE. For finishing touches, open tasks locally. Codex keeps the context consistent.

Sign in with your ChatGPT account

Codex works with Plus, Pro, Business, Edu, and Enterprise ChatGPT plans. Learn what's included in your plan at the Help Center.

Learn more about Codex

See the docs at <https://developers.openai.com/codex/ide>.

(MacOS only) Work with the ChatGPT macOS app

The OpenAI Codex extension also supports connecting the ChatGPT macOS app to VS Code so ChatGPT can answer questions or make

Marketplace

Identifier	openai.chatgpt
Version	0.4.56
Published	9 months ago
Last Released	1 week ago

Categories

AI Chat

Resources

- License
- OpenAI
- Marketplace

Codex tab appears so click to open it.

CODEX

Release Notes: 1.107.1

Extension: Codex – OpenAI's coding agent



Codex

OpenAI openai.com | 2,824,000 | ★★★★★ (212)

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Disable | Uninstall | Switch to Pre-Release Version | Auto Update

DETAILS | FEATURES

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Sign in with your ChatGPT account

Codex works with Plus, Pro, Business, Edu, and Enterprise ChatGPT plans. Learn what's included in your plan at the Help Center.

Learn more about Codex

See the docs at <https://developers.openai.com/codex/ide>.

(MacOS only) Work with the ChatGPT macOS app

The OpenAI Codex extension also supports connecting the ChatGPT macOS app to VS Code so ChatGPT can answer questions or make

Sign in with ChatGPT

Use API Key

Cloud tasks disabled with API key

Marketplace

Identifier	openai.chatgpt
Version	0.4.56
Published	9 months ago
Last Released	1 week ago

Categories

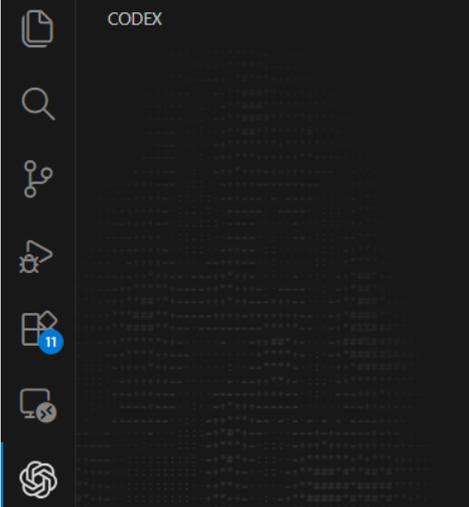
AI Chat

Resources

- License
- OpenAI
- Marketplace

4. Connecting VS Code to Your Azure Codex Deployment

Connect the Codex model to the VS Code using the Endpoint URI and API Key.



Release Notes: 1.107.1

Extension: Codex – OpenAI's coding agent



Codex – OpenAI's coding agent

OpenAI openai.com | 2,824,000 | ★★★★★ (212)

Codex is a coding agent that works with you everywhere you code — included in ChatGPT Plus, Pro, Business, Edu, and Enterprise plans.

[Disable](#) [Uninstall](#) [Switch to Pre-Release Version](#) Auto Update

DETAILS FEATURES

Codex is OpenAI's coding agent that helps you write, review, and ship code faster. Use it side-by-side in your IDE or delegate larger tasks to the cloud.

Pair with Codex

Add Codex as a panel in VS Code to chat, edit, and preview changes seamlessly. With context from opened files and selected code, you can write shorter prompts and get faster, more relevant results. (Tip: many users like moving the Codex panel to the right side of the editor.)

Delegate to Codex in the cloud

Offload bigger jobs to Codex in the cloud, then track progress and review results without leaving your IDE. For finishing touches, open cloud tasks locally. Codex keeps the context consistent.

Marketplace

Identifier	openai.chatgpt
Version	0.4.56
Published	9 months ago
Last Released	1 week ago

Categories

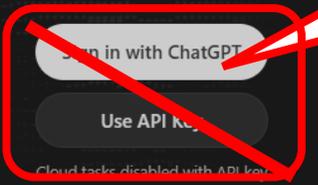
- AI
- Chat

Resources

- [License](#)
- [OpenAI Marketplace](#)

Codex

Do not use this function.
 These buttons are for the original OpenAI service,
 not Azure.



(MacOS only) Work with the ChatGPT macOS app

The OpenAI Codex extension also supports connecting the ChatGPT macOS app to VS Code so ChatGPT can answer questions or make

Prepare the configuration file for Codex

To use Azure Codex, you need to create a folder named **".codex"** inside your home directory and place the file **"config.toml"** inside that folder.

On macOS and Linux:

1. Your home directory is usually: **/Users/<your username>**
2. Open Terminal and run: **"mkdir ~/.codex"** to create a folder named **".codex"** in your home directory.
3. Save **"config.toml"** inside that folder: **"~/.codex/config.toml"**

On Windows

1. Open File Explorer
2. Go to **"C:¥Users¥<your username>"**
3. Create a new folder named **".codex"**
4. Put **"config.toml"** inside it:
The config file path: **C:¥Users¥<your username>¥.codex¥config.toml**

Write the following content to the “config.toml” file

Please replace **A** and **B** according to your environment.

 model = "gpt-5.2-codex" # Replace with your Azure deployment name
model_provider = "azure"
model_reasoning_effort = "medium"

[model_providers.azure]
name = "Azure OpenAI"
base_url = "https://utokyoazuregp2026codeai.cognitiveservices.azure.com/openai/v1"
env_key = "AZURE_OPENAI_API_KEY_GPT52CODEX"
wire_api = "responses"

Writing API keys directly into configuration files poses a **risk of leakage**, so we'll set them as environment variables instead. This is the environment variable name I use.

A

← gpt-5.2-codex

Details Metrics

Request quota Edit Delete

Endpoint

Target URI
https://codeai-test.cognitiveservices.azure.com/openai/

Key
.....

B. Use the endpoint target uri up to “/openai/” (do not include responses?api-version=...).
https://utokyoazuregp2026codeai.cognitiveservices.azure.com/openai/
responses?api-version=2025-04-01-preview

Replace with “v1”

Click to copy the API Key

Deployment info

Name	gpt-5.2-codex	Provisioning state	Succeeded
Deployment type	Global Standard	Created on	2026-01-25T08:51:09.9659016Z
Created by	1923306880@utac.u-tokyo.ac.jp	Modified on	Jan 25, 2026 5:51 PM
Modified by	1923306880@utac.u-tokyo.ac.jp	Version upgrade policy	Once a new default version is available
Rate limit (Tokens per minute)	250,000	Rate limit (Requests per minute)	2,500
Model name	gpt-5.2-codex	Model version	2026-01-14
Life cycle status	GenerallyAvailable	Date created	Jan 13, 2026 9:00 AM
Date updated		Model retirement date	

Authentication using API Key

URL and an API key to authenticate against the URL and the API Key. The API endpoint URL and model is deployed.

If you're using bash:

```
export AZURE_API_KEY="<your-api-key>"
```

If you're in powershell:

```
$Env:AZURE_API_KEY = "<your-api-key>"
```

If you're using Windows command prompt:

```
set AZURE_API_KEY = <your-api-key>
```

2. Run a basic code sample

Paste the following into a shell

```
curl -X POST "https://codeai-test.cognitiveservices.azure.com/openai/responses?api-version=2025-04-01-preview" \
```

- Overview
- Model catalog
- Playgrounds
- Build and customize
 - Agents
 - Templates
 - Fine-tuning
 - Content Understanding
- Observe and optimize
 - Tracing PREVIEW
 - Monitoring
- Protect and govern
 - Evaluation PREVIEW
 - Guardrails + controls
 - Risks + alerts PREVIEW
 - Governance PREVIEW
- Azure OpenAI
 - Stored completions
 - Batch jobs
 - My assets
 - Data + indexes
 - Models + endpoints

Setting Environment Variables

On macOS and Linux:

1. Open Terminal
2. Add the variable to your shell profile file:

```
echo 'export AZURE_OPENAI_API_KEY_GPT52CODEX="[your-api-key]"' >> ~/.zshrc
```

3. Apply the changes:

```
source ~/.zshrc
```

Replace with your API Key

On Windows:

1. Open Start Menu → type "Environment Variables"
→ select "Edit the system environment variables"
2. Click "Environment Variables ..."
3. Under User variables, click "New..."
4. Set:
 - Variable name: `AZURE_OPENAI_API_KEY_GPT52CODEX`
 - Variable value: `[your-api-key]`
5. Click "OK" to save.

Replace with your API Key

最も一致する検索結果

 システム環境変数の編集
コントロール パネル

環境変数
検索結果をさらに表示する >

設定

 環境変数を編集 >

Web の検索

環境変数 設定 - 検索結果をさらに表示する >

環境変数とは >

環境変数 path >

環境変数 確認 >

環境変数 windows11 >



システム環境変数の編集
コントロール パネル

開く



新しいユーザー変数

変数名(N): AZURE_OPENAI_API_KEY_GPT52CODEX

変数値(V):

ディレクトリの参照(D)... ファイルの参照(F)... OK キャンセル

Paste the API Key

Note: Never disclose your API Key to third parties!

Even if your API Key is used fraudulently, you will be held responsible for the associated charges.



Restart VS Code to apply the environment variables, then it will be ready for use.

Visual Studio Code

Editing evolved

Start

- New File...
- Open File...
- Open Folder...
- Clone Git Repository...
- Connect to...
- Generate New Workspace...

Recent

- food-prod [SSH: yamakata-lab2-y-vscode] /var/w...
- SampleCode3 C:\Users\yamak\Dropbox\情報基盤...
- ...

Walkthroughs

- Get started with VS Code
Customize your editor, learn the basics, and start coding
- Learn the Fundamentals
- GitHub Copilot Updated
- Get Started with Python Deve... Updated
- Get Started with Jupyter Not... Updated

Build with Agent

AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.

Ask Codex anything, @ to add files, / for ...

Add Context...

Describe what to build next

Agent Auto

Show welcome page on startup

If you want to write the api key in the “config.toml” file

Please replace **A** and **B** according to your environment.

A

```
model = "gpt-5.2-codex" # Replace with your Azure deployment name
model_provider = "azure"
model_reasoning_effort = "medium"
```

```
[model_providers.azure]
name = "Azure OpenAI"
base_url = "https://utokyoazuregp2026codeai.cognitiveservices.azure.com/openai/v1"
api_key = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
wire_api = "responses"
```

B

It must be “v1”

If you store the API key directly in “**config.toml**”, restrict the “**.codex**” directory so that only your user account can read and write it.

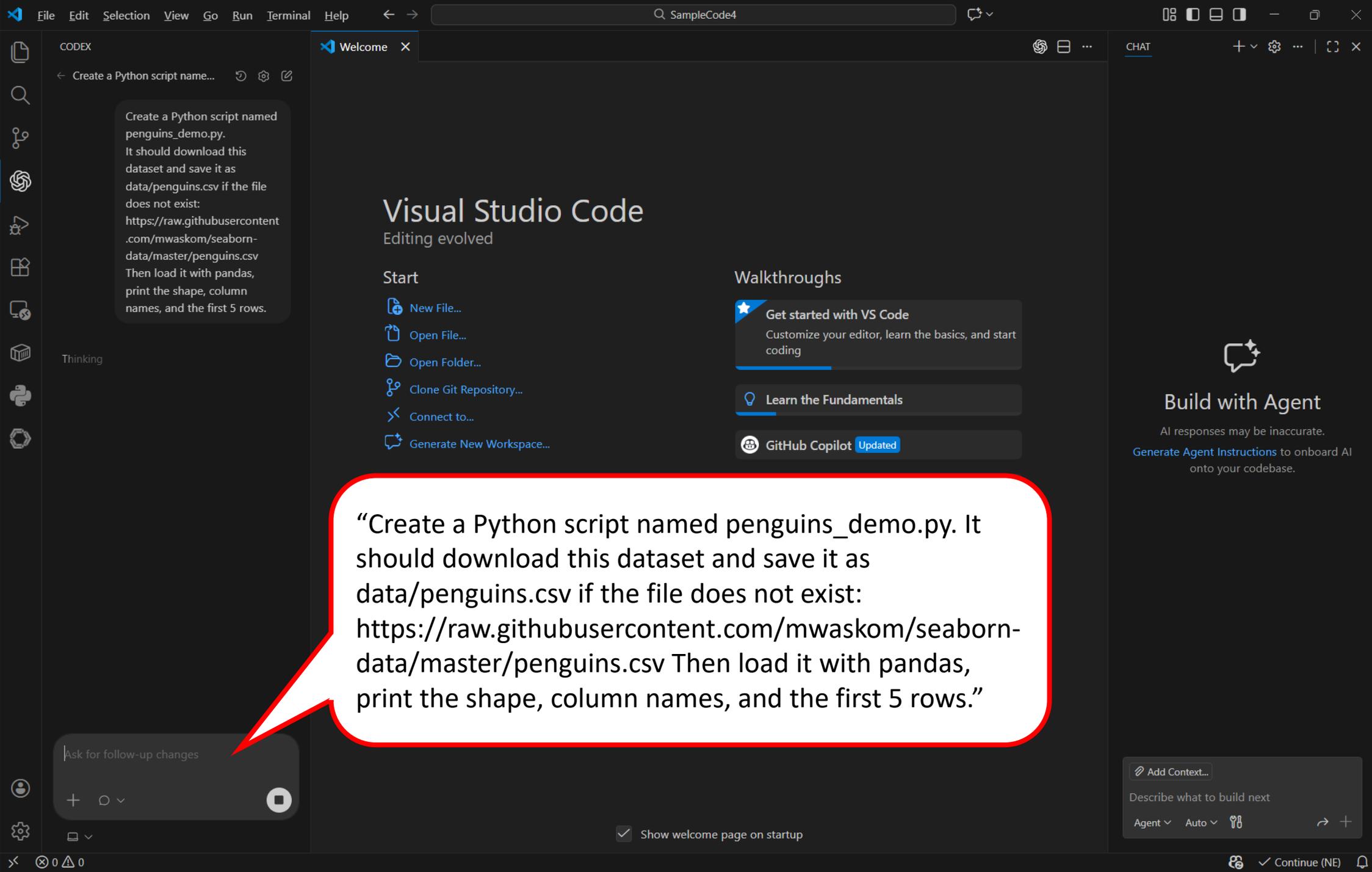
5. Using Codex in VS Code

Example: fetch data, generate code, refine via chat.

Sample Scenario

The following pages show examples of using Codex for the purposes outlined below.

1. Download body measurement data for three penguin species (CSV file) from the web and extract the sample data at the beginning.
2. Plot the sample size for each species as a bar chart, and plot the distribution of flipper length and body mass for each species as scatter plots.
3. Create a README document explaining how to use the created code.



Create a Python script named penguins_demo.py. It should download this dataset and save it as data/penguins.csv if the file does not exist: https://raw.githubusercontent.com/mwaskom/seaborn-data/master/penguins.csv Then load it with pandas, print the shape, column names, and the first 5 rows.

Thinking

“Create a Python script named penguins_demo.py. It should download this dataset and save it as data/penguins.csv if the file does not exist: https://raw.githubusercontent.com/mwaskom/seaborn-data/master/penguins.csv Then load it with pandas, print the shape, column names, and the first 5 rows.”

Ask for follow-up changes

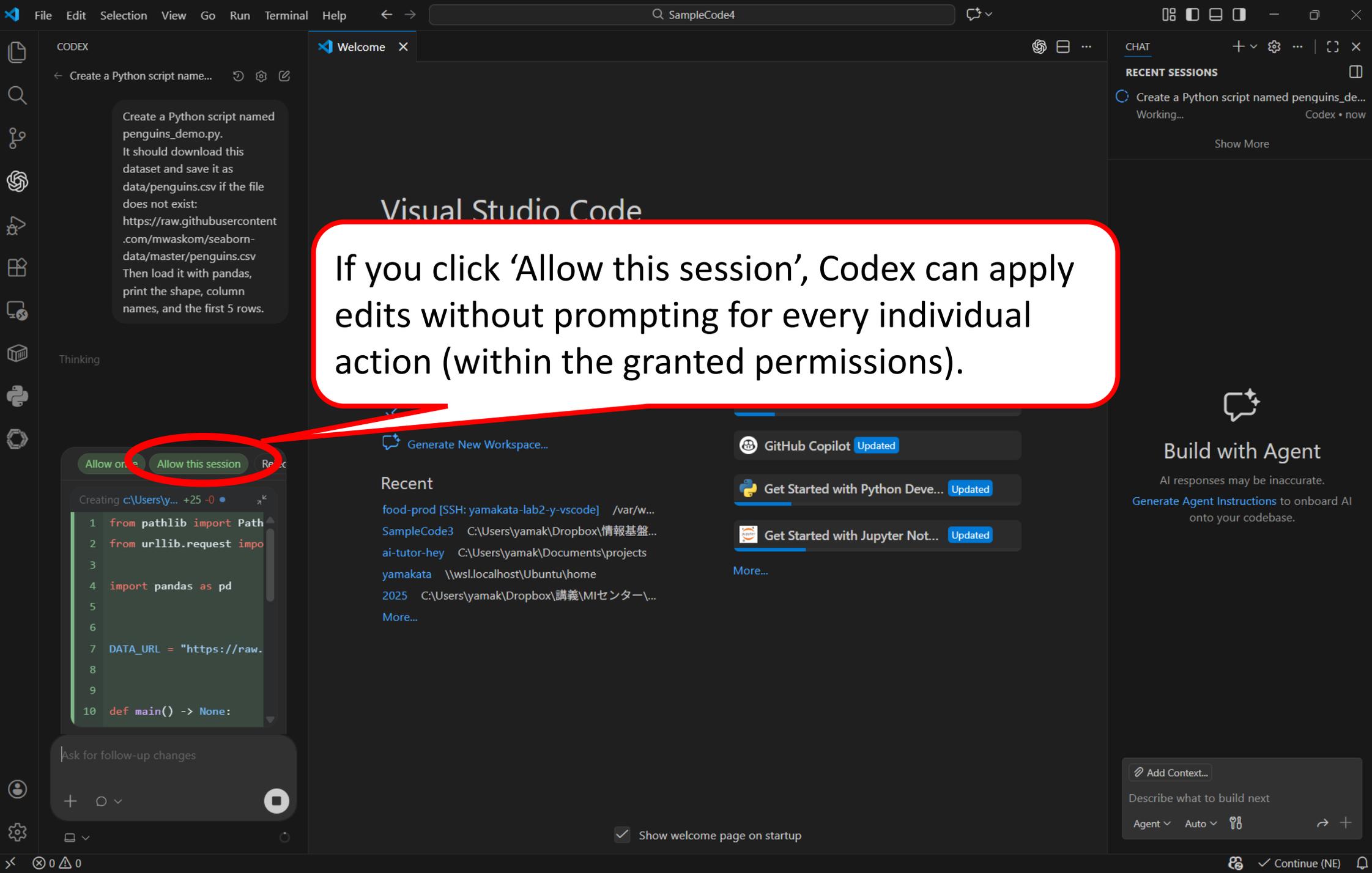
Show welcome page on startup

CHAT + ⚙️ ⋮ | 🗨️ ✕

Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.

🔗 Add Context...
Describe what to build next
Agent ▾ Auto ▾ 🛠️ → +

🔄 ✓ Continue (NE) 🔔



If you click 'Allow this session', Codex can apply edits without prompting for every individual action (within the granted permissions).

CODEX

← Create a Python script name...   

`https://raw.githubusercontent.com/mwaskom/seaborn-data/master/penguins.csv`
Then load it with pandas, print the shape, column names, and the first 5 rows.

```
Created c:\Users\ya... +25 -0
```

```

1 from pathlib import Path
2 from urllib.request import
3
4 import pandas as pd
5
6
7 DATA_URL = "https://raw.g
8
9
10 def main() -> None:

```

Created the script to download the dataset if missing and then load and print the requested info in `penguins_demo.py`.

Next steps:

1. Run `python penguins_demo.py`
2. (Optional) Add a virtualenv and install `pandas` if needed

1 file changed Undo  

penguins_demo.py +25 -0

Ask for follow-up changes

Welcome

Visual Studio Code

Editing evolved

Start

- New File...
- Open File...
- Open Folder...
- Clone Git Repository...
- Connect to...
- Generate New Workspace...

Recent

- food-prod [SSH: yamakata-lab2-y-vscode] /var/w...
- SampleCode3 C:\Users\yamak\Dropbox\情報基盤...
- ai-tutor-hey C:\Users\yamak\Documents\projects
- yamakata \\wsl.localhost\Ubuntu\home
- 2025 C:\Users\yamak\Dropbox\講義\MIセンター\...

More...

Walkthroughs

-  **Get started with VS Code**
Customize your editor, learn the basics, and start coding
-  **Learn the Fundamentals**
-  **GitHub Copilot** Updated
-  **Get Started with Python Deve...** Updated
-  **Get Started with Jupyter Not...** Updated

More...

Show welcome page on startup

CHAT

RECENT SESSIONS

- Create a Python script named penguins_de...
Completed in 43s. Codex • 1 min

Show More

Build with Agent

AI responses may be inaccurate.

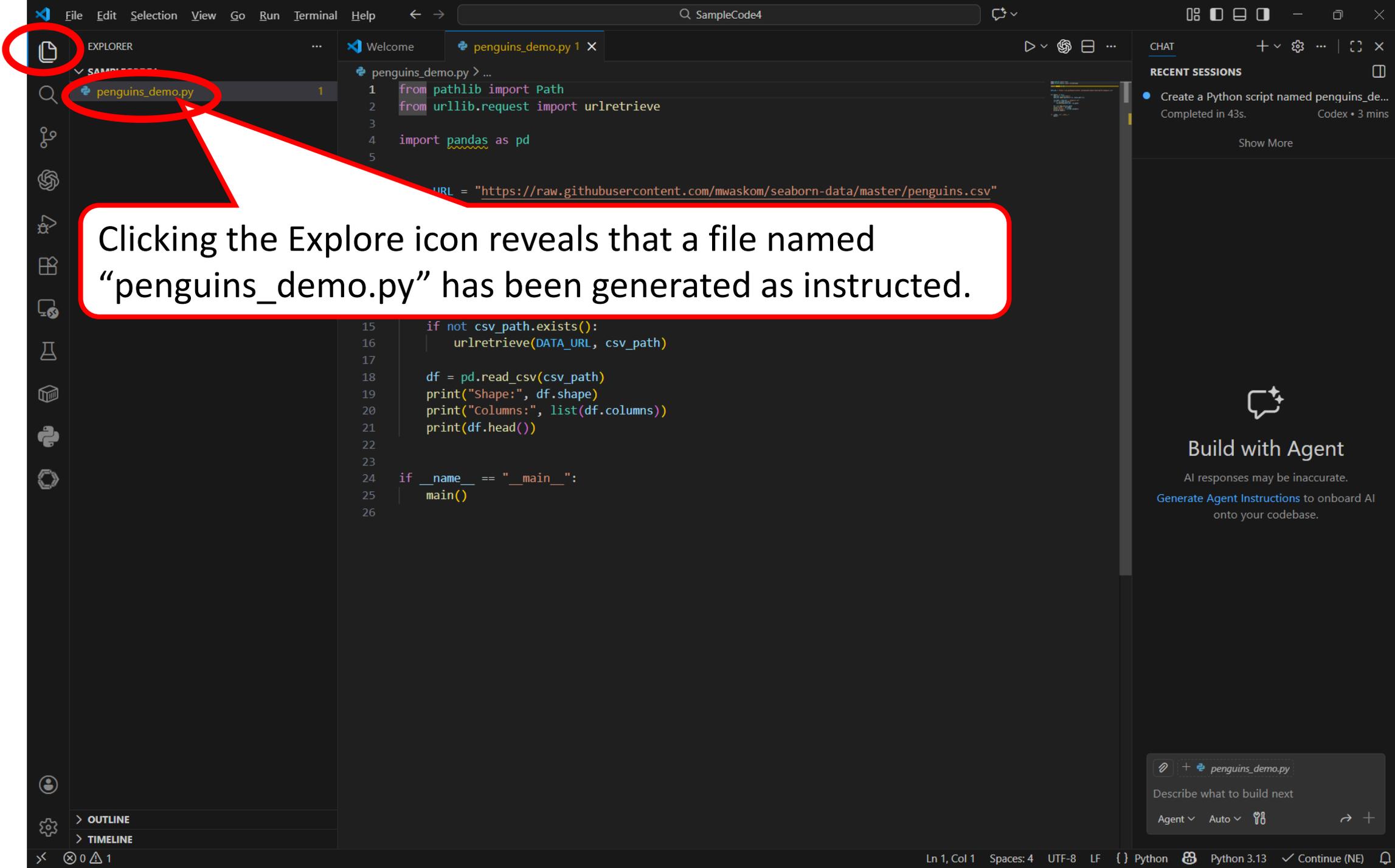
[Generate Agent Instructions](#) to onboard AI onto your codebase.

 Add Context...

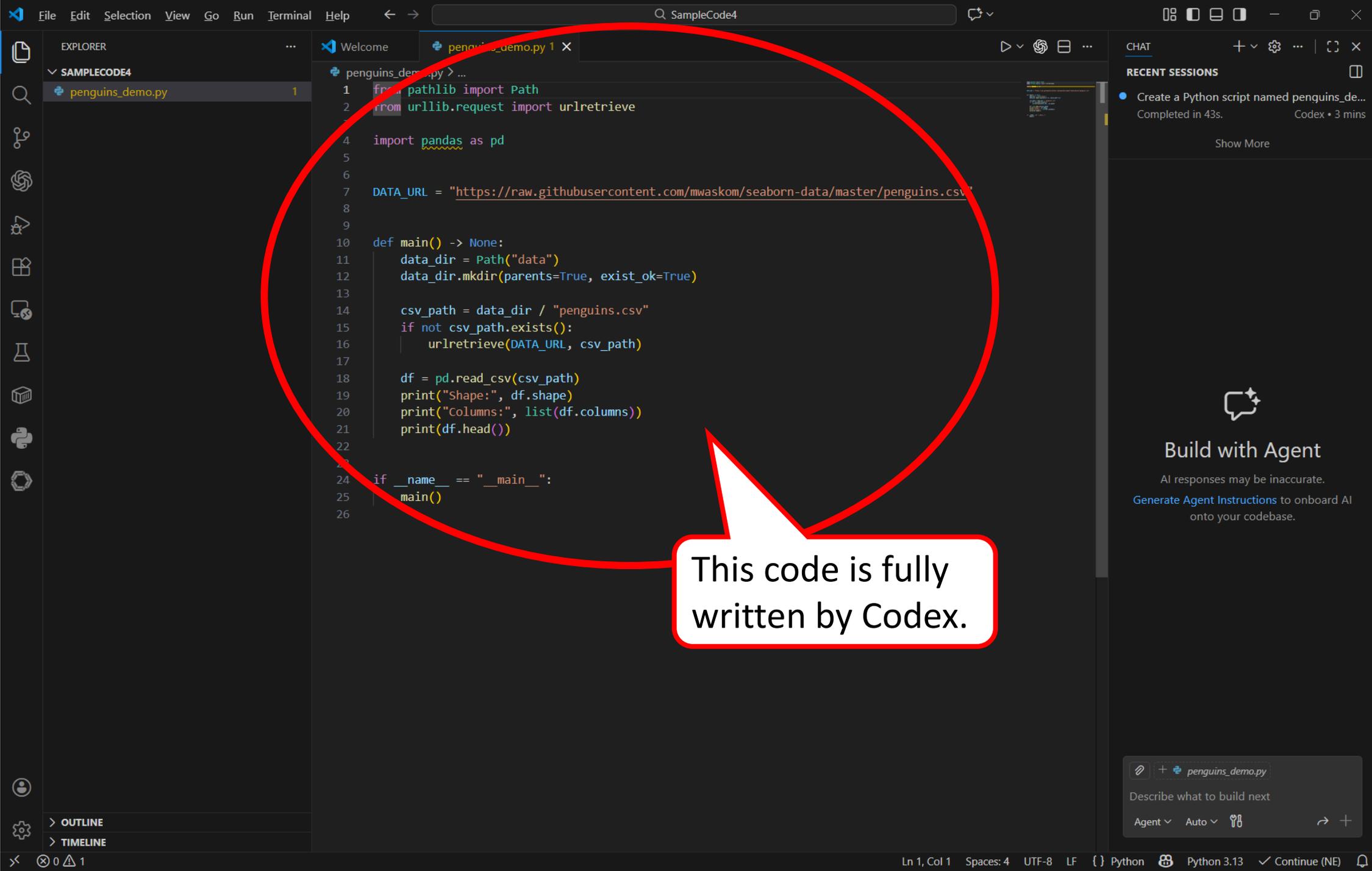
Describe what to build next

Agent  Auto    

 ✓ Continue (NE) 



Clicking the Explore icon reveals that a file named "penguins_demo.py" has been generated as instructed.



This code is fully written by Codex.

CODEX

← Create a Python script name...   

<https://raw.githubusercontent.com/mwaskom/seaborn-data/master/penguins.csv>
Then load it with pandas, print the shape, column names, and the first 5 rows.

```
Created c:\Users\ya... +25 -0
```

```

1 from pathlib import Path
2 from urllib.request import
3
4 import pandas as pd
5
6
7 DATA_URL = "https://raw.g
8
9
10 def main() -> None:

```

Created the script to download the dataset if missing and then load and print the requested info in `penguins_demo.py`.

Next steps:

1. Run `python penguins_demo.py`
2. (Optional) Add a virtualenv and install `pandas` if needed

1 file changed Undo  

penguins_demo.py +25 -0

Ask for follow-up changes

Visual Studio Code

Editing evolved

Start

- New File...
- Open File...
- Open Folder...
- Clone Git Repository...
- Connect to...
- Generate New Workspace...

Recent

- food-prod [SSH: yamakata-lab2-y-vscode] /var/w...
- SampleCode3 C:\Users\yamak\Dropbox\情報基盤...
- ai-tutor-hey C:\Users\yamak\Documents\projects
- yamakata \\wsl.localhost\Ubuntu\home
- 2025 C:\Users\yamak\Dropbox\講義\MIセンター\...

Walkthroughs

- Get started with VS Code
Customize your editor, learn the basics, and start coding
- Learn the Fundamentals
- GitHub Copilot Updated
- Get Started with Python Deve... Updated
- Get Started with Jupyter Not... Updated

Show welcome page on startup

Codex also explains how to execute this code.

CHAT     

RECENT SESSIONS

- Create a Python script named penguins_de...
Completed in 43s. Codex • 1 min

Show More



Build with Agent

AI responses may be inaccurate.

Generate Agent Instructions to onboard AI onto your codebase.

 Add Context...

Describe what to build next

Agent  Auto    

New Terminal

Ctrl+Shift+@

Open new terminal.

```
16         uriretrieve(DATA_URL, csv_path)
17
18     df = pd.read_csv(csv_path)
19     print("Shape:", df.shape)
20     print("Columns:", list(df.columns))
21     print(df.head())
22
23
24 if __name__ == "__main__":
25     main()
26
```

PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4>

Terminal appears.

CHAT
RECENT SESSIONS
● Create a Python script named penguins_de...
Completed in 43s. Codex + 5 mins
Show More

Build with Agent

AI responses may be inaccurate.
Generate Agent Instructions to onboard AI
onto your codebase.

+ penguins_demo.py
Describe what to build next
Agent Auto

Input the command
the codex specified.

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\ [redacted] \SampleCode4> python penguins_demo.py
Shape: (344, 7)
Columns: ['species', 'island', 'bill_length_mm', 'bill_depth_mm', 'flipper_length_mm', 'body_mass_g',
'sex']
species    island    bill_length_mm    bill_depth_mm    flipper_length_mm    body_mass_g    sex
0  Adelie  Torgersen    39.1    18.7    181.0    3750.0    MALE
1  Adelie  Torgersen    39.5    17.4    186.0    3800.0    FEMALE
2  Adelie  Torgersen    40.3    18.0    195.0    3250.0    FEMALE
3  Adelie  Torgersen    NaN     NaN     NaN     NaN     NaN
4  Adelie  Torgersen    36.7    19.3    193.0    3450.0    FEMALE
PS C:\Users\ [redacted] \SampleCode4>
```

Then, you can get
the results.

CODEX

Create a Python script name... <https://raw.githubusercontent.com/mwaskom/seaborn-data/master/penguins.csv>
Then load it with pandas, print the shape, column names, and the first 5 rows.

```

1 from pathlib import Path
2 from urllib.request import
3
4 import pandas as pd
5
6
7 DATA_URL = "https://raw.g
8
9
10 def main() -> None:

```

Created the script to download the dataset if missing and then load and print the requested info in `penguins_demo.py`.

Next steps:

1. Run `python penguins_demo.py`
2. (Optional) Add a virtualenv and install

Extend the script to generate and save these plots into outputs/:

1. A bar chart of the number of penguins per species
2. A scatter plot of flipper_length_mm vs body_mass_g colored by species Save as species_count.png and flipper_vs_mass.png.

```

Welcome penguins_demo.py 1 x
penguins_demo.py > ...
1 from pathlib import Path
2 from urllib.request import urllretrieve
3
4 import pandas as pd
5
6
7 DATA_URL = "https://raw.githubusercontent.com/mwaskom/seaborn-data/master/penguins.csv"
8
9
10 def main() -> None:
11     data_dir = Path("data")
12     data_dir.mkdir(parents=True, exist_ok=True)
13
14     csv_path = data_dir / "penguins.csv"
15     if not csv_path.exists():
16         urllretrieve(DATA_URL, csv_path)
17
18
19
20
21
22
23
24 if
25
26

```

```

species
1 Adelle Torgersen
2 Adelle Torgersen 40.3 18.0 195.0 3250.0 FEMALE
3 Adelle Torgersen NaN NaN NaN NaN
4 Adelle Torgersen 36.7 19.3 193.0 3450.0 FEMALE

```

PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4>

“Extend the script to generate and save these plots into outputs/:

1. A bar chart of the number of penguins per species
2. A scatter plot of flipper_length_mm vs body_mass_g colored by species Save as species_count.png and flipper_vs_mass.png.”

CHAT

RECENT SESSIONS

- Create a Python script named penguins_de... Completed in 43s. Codex • 26 mins

Show More

Build with Agent

AI responses may be inaccurate.

Generate Agent Instructions to onboard AI onto your codebase.

+ penguins_demo.py

Describe what to build next

Agent Auto

CODEX

Create a Python script name...

```

import pandas as pd
13 data_dir.mkdir(parent
14 output_dir = Path("ou
15 output_dir.mkdir(pare
16
25
26 species_counts = df["
27 plt.figure(figsize=(6

```

Added matplotlib plotting and output handling, saving both requested charts into outputs/ while keeping the data download/loading flow intact in penguins_demo.py .

Details:

- Creates outputs/ if missing in penguins_demo.py .
- Saves species_count.png from a species count bar chart in penguins_demo.py .
- Saves flipper_vs_mass.png scatter plot colored by species with NaNs removed in penguins_demo.py .

Next steps:

- Run python penguins_demo.py
- If needed, install matplotlib: pip install matplotlib

1 file changed Undo

penguins_demo.py +30 -0

Ask for follow-up changes

```

Welcome penguins_demo.py 2 X
penguins_demo.py > ...
1 from pathlib import Path
2 from urllib.request import urlopen, urretrieve
3
4 import matplotlib.pyplot as plt
5 import pandas as pd
6
7
8 DATA_URL = "https://raw.githubusercontent.com/mwaskom/seaborn-data/master/penguins.csv"
9
10
11 def main() -> None:
12     data_dir = Path("data")
13     data_dir.mkdir(parents=True, exist_ok=True)
14     output_dir = Path("outputs")
15     output_dir.mkdir(parents=True, exist_ok=True)
16
17     csv_path = data_dir / "penguins.csv"
18     if not csv_path.exists():
19         urretrieve(DATA_URL, csv_path)
20
21     df = pd.read_csv(csv_path)
22     print("Shape:", df.shape)
23     print("Columns:", list(df.columns))
24     print(df.head())
25
26     species_counts = df["species"].value_counts().sort_index()
27     plt.figure(figsize=(6, 4))
28     species_counts.plot(kind="bar", color="steelblue")

```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL

```

PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4> python penguins_demo.py
Shape: (344, 7)
Columns: ['species', 'island', 'bill_length_mm', 'bill_depth_mm', 'flipper_length_mm', 'sex']
species island bill_length_mm bill_depth_mm
0 Adelle Torgersen 39.1 18.7
1 Adelle Torgersen 39.5 17.4
2 Adelle Torgersen 40.3 18.0
3 Adelle Torgersen NaN NaN
4 Adelle Torgersen 36.7 19.3

```

PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4>

CHAT

RECENT SESSIONS

- Create a Python script named penguins_de... Completed in 23s. Codex • now

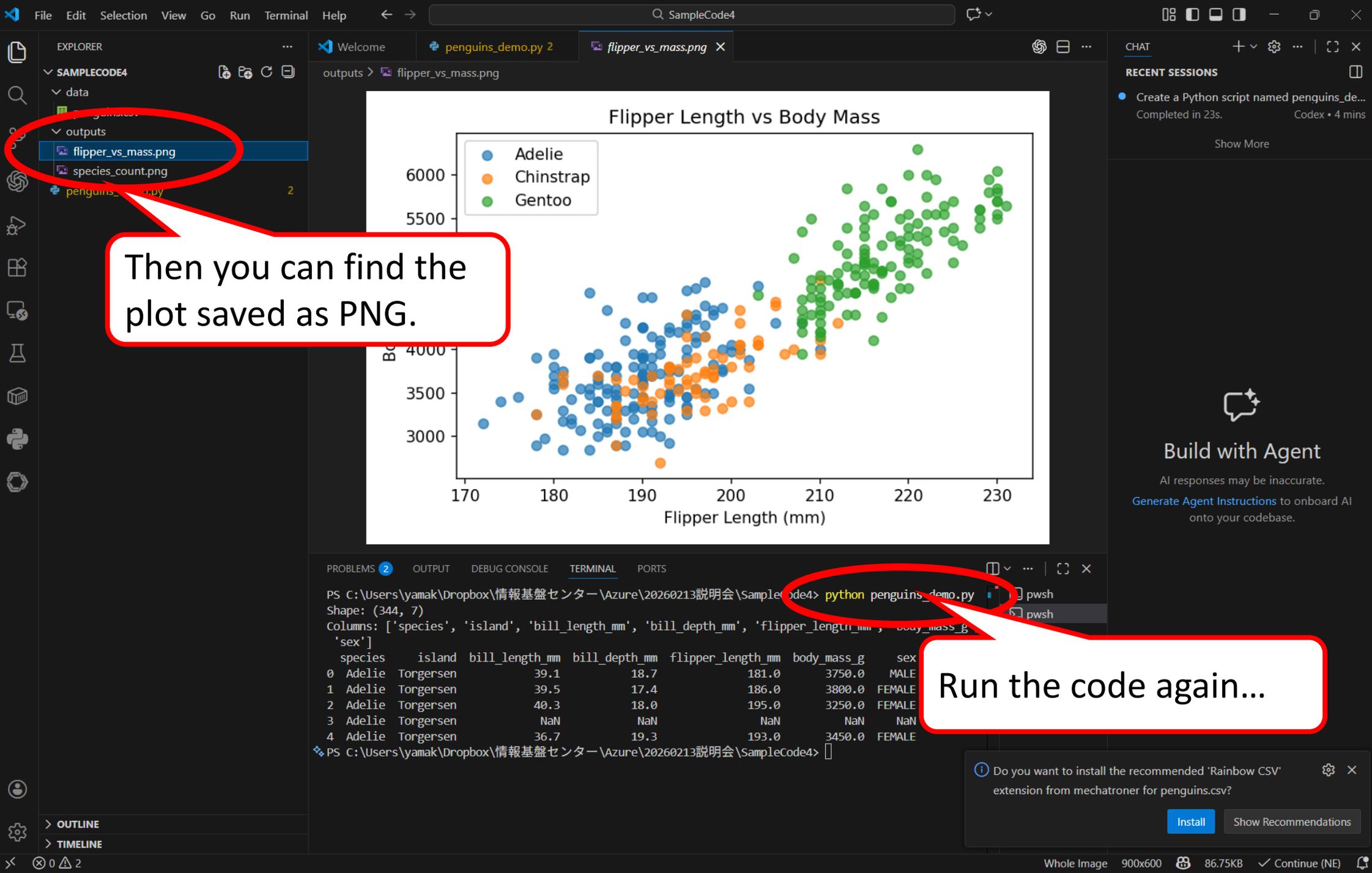
Show More

Build with Agent

AI responses may be inaccurate.

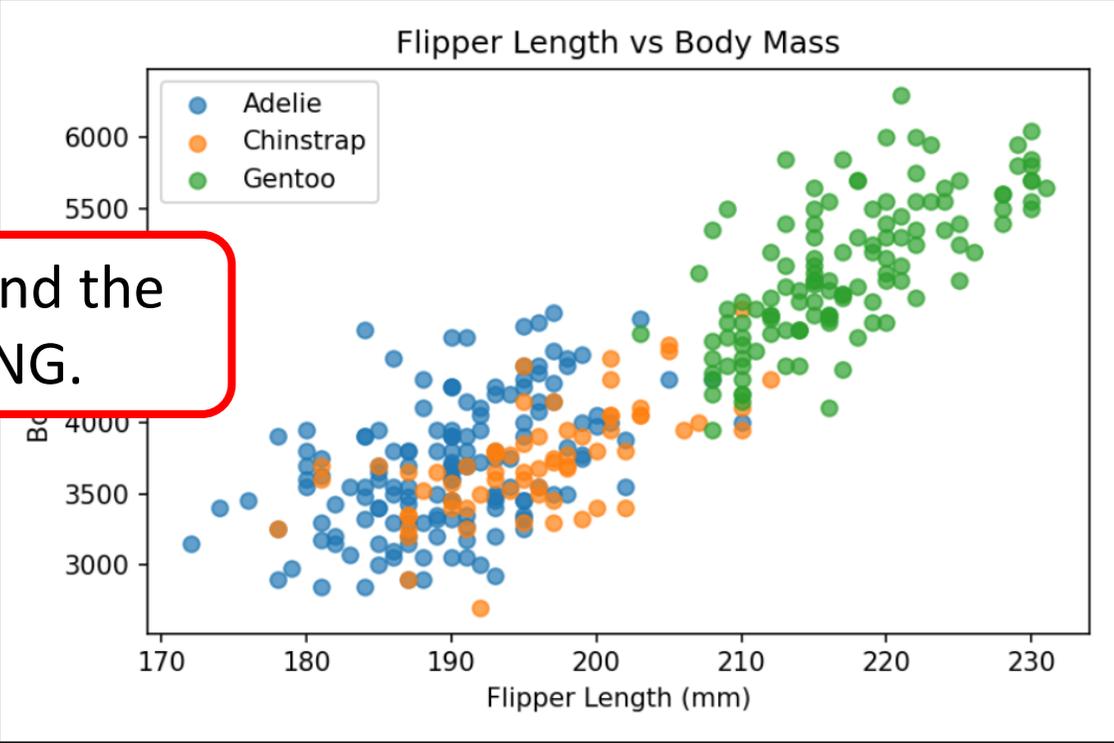
Generate Agent Instructions to onboard AI onto your codebase.

The code is automatically updated.



Then you can find the plot saved as PNG.

Run the code again...



```
PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4> python penguins_demo.py
Shape: (344, 7)
Columns: ['species', 'island', 'bill_length_mm', 'bill_depth_mm', 'flipper_length_mm', 'body_mass_g', 'sex']
species  island  bill_length_mm  bill_depth_mm  flipper_length_mm  body_mass_g  sex
0  Adelie  Torgersen    39.1          18.7            181.0         3750.0  MALE
1  Adelie  Torgersen    39.5          17.4            186.0         3800.0  FEMALE
2  Adelie  Torgersen    40.3          18.0            195.0         3250.0  FEMALE
3  Adelie  Torgersen    NaN           NaN             NaN           NaN     NaN
4  Adelie  Torgersen    36.7          19.3            193.0         3450.0  FEMALE
PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4>
```

Do you want to install the recommended 'Rainbow CSV' extension from mechatroner for penguins.csv?

```

CODEX
Create a Python script name...
import pandas as pd

13 data_dir.mkdir(parent
14 output_dir = Path("ou
15 output_dir.mkdir(pare
16
25
26 species_counts = df["
27 plt.figure(figsize=(6

```

Added matplotlib plotting and output handling, saving both requested charts into `outputs/` while keeping the data download/loading flow intact in `penguins_demo.py`.

Details:

- Creates `outputs/` if missing in `penguins_demo.py`.
- Saves `species_count.png` from a species count bar chart in `penguins_demo.py`.
- Saves `flipper_vs_mass.png` scatter plot colored by species with NaNs removed in `penguins_demo.py`.

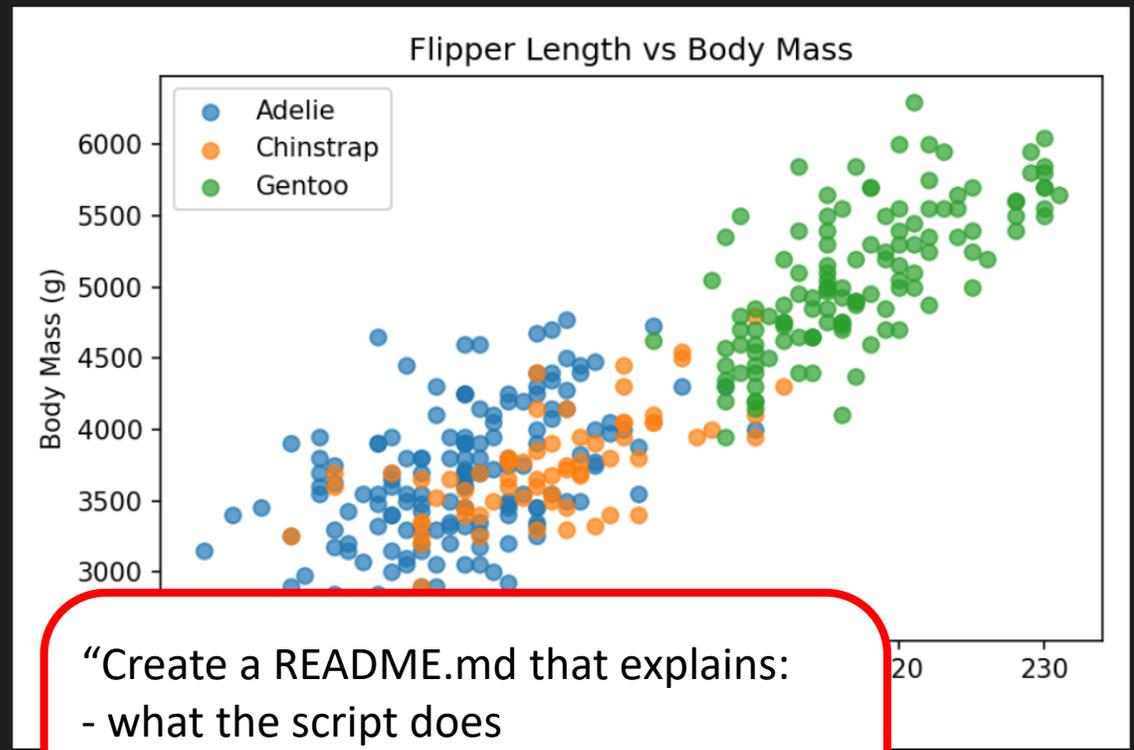
Next steps:

- Run `python penguins_demo.py`
- If needed, install matplotlib: `pip install matplotlib`

1 file changed Undo

Create a README.md that explains:
 - what the script does
 - how to install dependencies
 - how to run the script
 Keep it short (about 8–10 lines).

outputs > flipper_vs_mass.png



“Create a README.md that explains:
 - what the script does
 - how to install dependencies
 - how to run the script
 Keep it short (about 8–10 lines).”

PROBLEMS

```

PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4>
Shape
Col1

```

species	island	sex	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g
Adelie	Torgersen	MALE	39.5	17.4	186.0	3800.0
Adelie	Torgersen	FEMALE	40.3	18.0	195.0	3250.0
Adelie	Torgersen	NaN	NaN	NaN	NaN	NaN
Adelie	Torgersen	FEMALE	36.7	19.3	193.0	3450.0

CHAT

RECENT SESSIONS

- Create a Python script named penguins_de...
Completed in 23s. Codex • 8 mins

Show More

Build with Agent

AI responses may be inaccurate.
 Generate Agent Instructions to onboard AI onto your codebase.

Do you want to install the recommended 'Rainbow CSV' extension from mechatroner for penguins.csv?

Install Show Recommendations

CODEX
Create a Python script name...

Create a README.md that explains:
- what the script does
- how to install dependencies
- how to run the script
Keep it short (about 8-10 lines).

```
Creating a README.md
Created c:\Users\ya... +11 -0
1 penguins_demo.py download
2 prints basic info, and sa
3 Dependencies: Python 3.8+
4 Install with:
5 pip install pandas matplo
6 Run the script from this
7 python penguins_demo.py
8 Outputs:
9 - data/penguins.csv (cach
10 - outputs/species_count.p
```

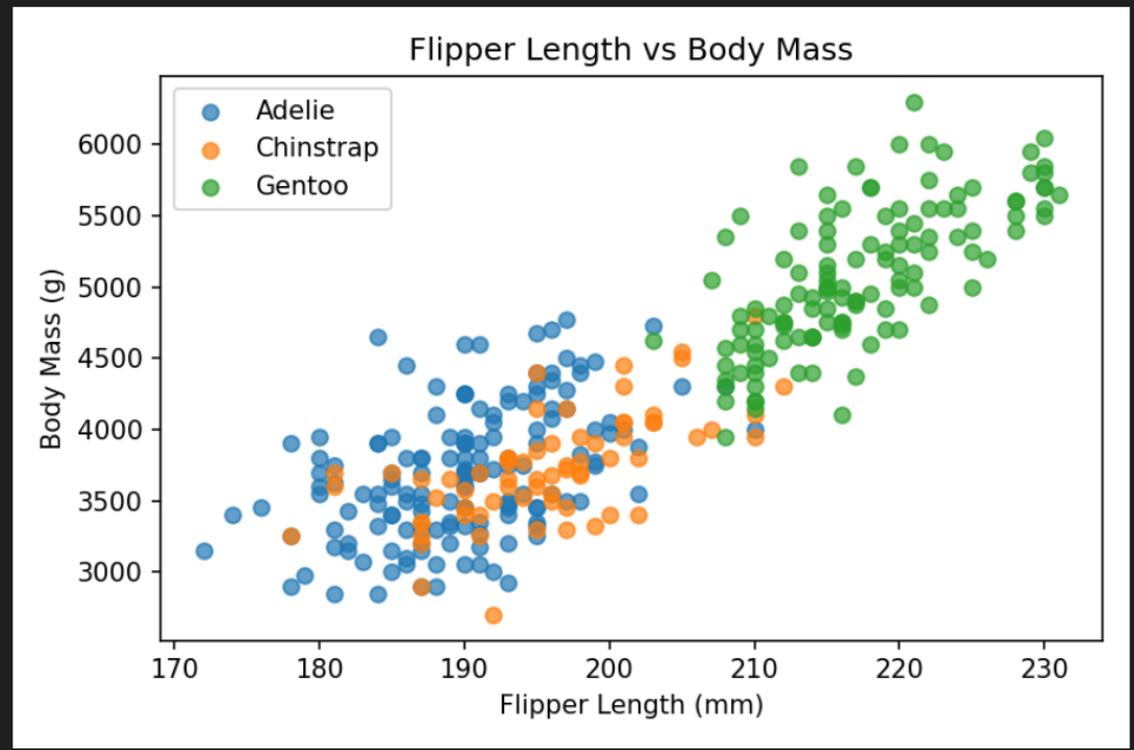
Created a short README with purpose, dependencies, and run instructions in README.md .
Next step: run python penguins_demo.py if you want to verify the outputs.

1 file changed Undo ↶ ↷
README.md +11 -0

Ask for follow-up changes

Welcome penguins_demo.py 2 flipper_vs_mass.png

outputs > flipper_vs_mass.png



```
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4> python penguins_demo.py
Shape: (344, 7)
Columns: ['species', 'island', 'bill_length_mm', 'bill_depth_mm', 'flipper_length_mm', 'body_mass_g', 'sex']
species  island  bill_length_mm  bill_depth_mm  flipper_length_mm  body_mass_g  sex
0 Adelie  Torgersen    39.1           18.7           181.0           3750.0      MALE
1 Adelie  Torgersen    39.5           17.4           186.0           3800.0      FEMALE
2 Adelie  Torgersen    40.3           18.0           195.0           3250.0      FEMALE
3 Adelie  Torgersen    NaN            NaN            NaN            NaN         NaN
4 Adelie  Torgersen    36.7           19.3           193.0           3450.0      FEMALE
PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4>
```

CHAT
RECENT SESSIONS
● Create a Python script named penguins_de...
Completed in 18s. Codex • now
Show More

Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.

Do you want to install the recommended 'Rainbow CSV' extension from mechatroner for penguins.csv?
Install Show Recommendations

Now you can find the "README.md" file.

Explain about this project.

The screenshot shows the Visual Studio Code interface. The Explorer view on the left shows a project named 'SAMPLECODE4' with a folder 'data' containing 'penguins.csv' and a folder 'outputs' containing 'flipper_vs_mass.png', 'species_count.png', and 'penguins_demo.py'. The 'README.md' file is selected and highlighted with a red circle. The main editor shows the content of 'README.md', which includes instructions for running a Python script and its outputs. The Terminal view at the bottom shows the execution of the script, displaying the shape and columns of the dataset, followed by a table of penguin data. The Chat panel on the right shows a recent session and a 'Build with Agent' section. A notification at the bottom right asks if the user wants to install the 'Rainbow CSV' extension.

```
1 penguins_demo.py downloads the Palmer Penguins dataset (if missing), loads it with pandas,
2 prints basic info, and saves two plots to outputs/.
3 Dependencies: Python 3.8+.
4 Install with:
5 pip install pandas matplotlib
6 Run the script from this folder:
7 python penguins_demo.py
8 Outputs:
9 - data/penguins.csv (cached dataset)
10 - outputs/species_count.png
11 - outputs/flipper_vs_mass.png
12
```

```
PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4> python penguins_demo.py
Shape: (344, 7)
Columns: ['species', 'island', 'bill_length_mm', 'bill_depth_mm', 'flipper_length_mm', 'body_mass_g',
'sex']
species  island  bill_length_mm  bill_depth_mm  flipper_length_mm  body_mass_g  sex
0  Adelie  Torgersen      39.1           18.7             181.0         3750.0    MALE
1  Adelie  Torgersen      39.5           17.4             186.0         3800.0    FEMALE
2  Adelie  Torgersen      40.3           18.0             195.0         3250.0    FEMALE
3  Adelie  Torgersen      NaN            NaN              NaN            NaN      NaN
4  Adelie  Torgersen      36.7           19.3             193.0         3450.0    FEMALE
PS C:\Users\yamak\Dropbox\情報基盤センター\Azure\20260213説明会\SampleCode4>
```

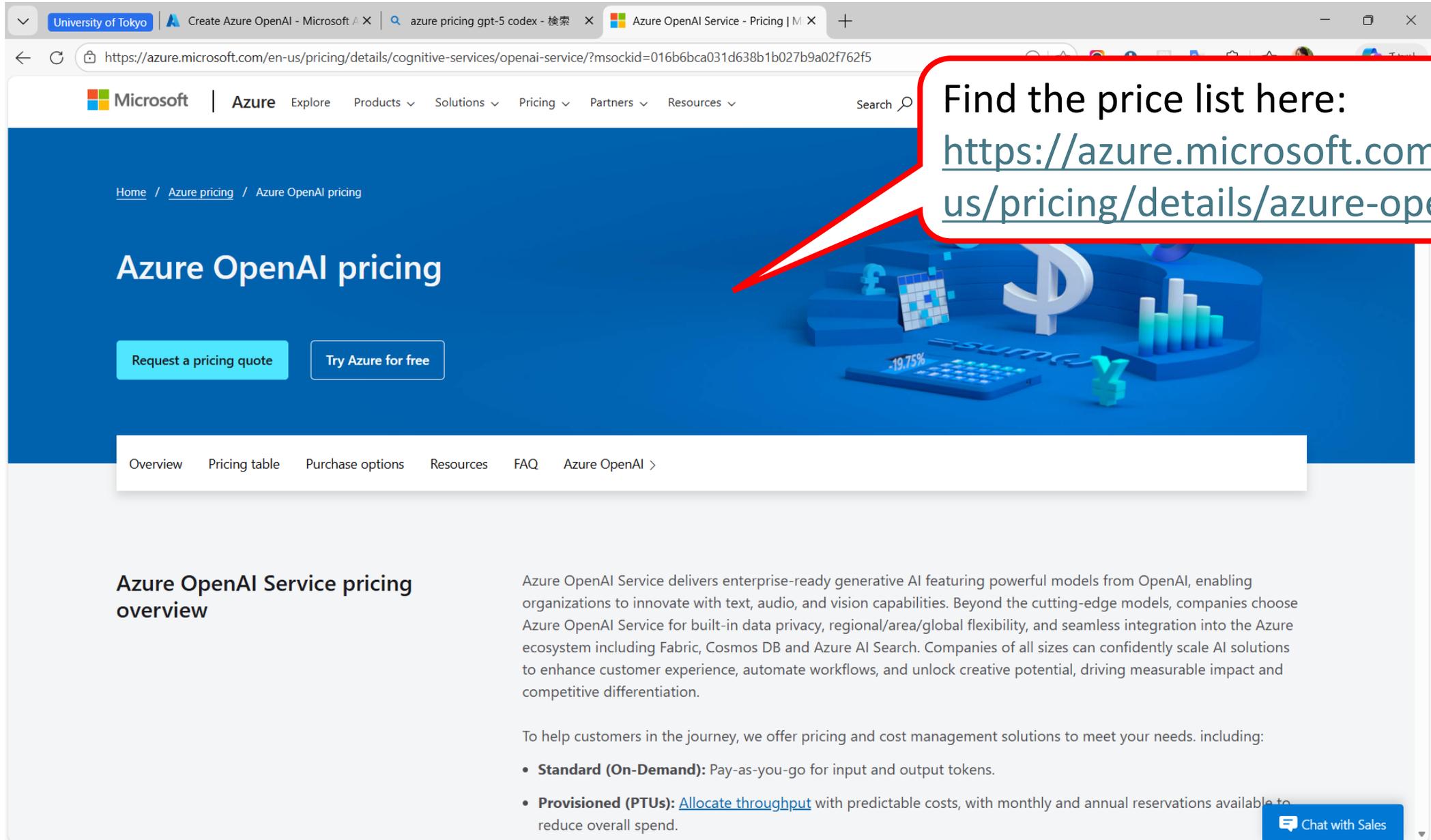
Do you want to install the recommended 'Rainbow CSV' extension from mechatroner for penguins.csv?

Install Show Recommendations

6. Usage & Cost Monitoring

Check pricing and usage amount.

Price of Codex on Azure



The image shows a browser window displaying the Azure OpenAI pricing page. A red callout box with a white background and a red border points to the URL in the address bar. The page content includes the Microsoft logo, navigation menus, a breadcrumb trail, a main heading, two buttons, a navigation bar, and introductory text about the service.

University of Tokyo | Create Azure OpenAI - Microsoft | azure pricing gpt-5 codex - 検索 | Azure OpenAI Service - Pricing | M X

https://azure.microsoft.com/en-us/pricing/details/cognitive-services/openai-service/?msockid=016b6bca031d638b1b027b9a02f762f5

Microsoft | Azure Explore Products Solutions Pricing Partners Resources Search

Home / Azure pricing / Azure OpenAI pricing

Azure OpenAI pricing

Request a pricing quote Try Azure for free

Overview Pricing table Purchase options Resources FAQ Azure OpenAI >

Azure OpenAI Service pricing overview

Azure OpenAI Service delivers enterprise-ready generative AI featuring powerful models from OpenAI, enabling organizations to innovate with text, audio, and vision capabilities. Beyond the cutting-edge models, companies choose Azure OpenAI Service for built-in data privacy, regional/area/global flexibility, and seamless integration into the Azure ecosystem including Fabric, Cosmos DB and Azure AI Search. Companies of all sizes can confidently scale AI solutions to enhance customer experience, automate workflows, and unlock creative potential, driving measurable impact and competitive differentiation.

To help customers in the journey, we offer pricing and cost management solutions to meet your needs. including:

- **Standard (On-Demand):** Pay-as-you-go for input and output tokens.
- **Provisioned (PTUs):** [Allocate throughput](#) with predictable costs, with monthly and annual reservations available to reduce overall spend.

Chat with Sales

Find the price list here:
<https://azure.microsoft.com/en-us/pricing/details/azure-openai/>

Region:

East US

Currency:

Japan

1 USD =

Pricing (1M Tokens): corresponds to roughly 3–4 million characters, i.e., on the order of tens of thousands of lines of code (depending on prompt size and coding style).

If you chose “East US” ...

Output: ¥1,559.51

GPT-5.1-codex Global

Input: **¥194.94**

Cached Input: **¥19.50**

Output: **¥1,559.51**

GPT-5.1-codex-max Global

Input: **¥194.94**

Cached Input: **¥19.50**

Output: **¥1,559.51**

GPT-5.1-codex-mini Global

Input: **¥38.99**

Cached Input: **¥3.90**

Output: **¥311.91**

Region:

Japan East

Currency:

Japan

If you chose "Japan East."
Prices may vary by region, but currently
the price for Codex is the same.

GPT-5.1-codex Global

Input: **¥194.94**

Cached Input: **¥19.50**

Output: **¥1,559.51**

GPT-5.1-codex-max Global

Input: **¥194.94**

Cached Input: **¥19.50**

Output: **¥1,559.51**

GPT-5.1-codex-mini Global

Input: **¥38.99**

Cached Input: **¥3.90**

Output: **¥311.91**

Price of Codex on Azure

The screenshot shows the Azure OpenAI pricing page. The main heading is "Azure OpenAI pricing". Below it are two buttons: "Request a pricing quote" and "Try Azure for free". A red callout box with a white background and a red border points to the navigation menu, containing the text "But the GPT-5.2 series is not listed here...". The navigation menu includes "Overview", "Pricing table", "Purchase options", "Resources", "FAQ", and "Azure OpenAI >". The page content below the navigation menu includes the heading "Azure OpenAI Service pricing overview" and a paragraph describing the service. A "Chat with Sales" button is visible in the bottom right corner.

University of Tokyo | Create Azure OpenAI - Microsoft | azure pricing gpt-5 codex - 検索 | Azure OpenAI Service - Pricing | M

https://azure.microsoft.com/en-us/pricing/details/cognitive-services/openai-service/?msocid=016b6bca031d638b1b027b9a02f762f5

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Home / Azure pricing / Azure OpenAI pricing

Azure OpenAI pricing

Request a pricing quote Try Azure for free

Overview Pricing table Purchase options Resources FAQ Azure OpenAI >

Azure OpenAI Service pricing overview

Azure OpenAI Service delivers enterprise-ready generative AI featuring powerful models from OpenAI, enabling organizations to innovate with text, audio, and vision capabilities. Beyond the cutting-edge models, companies choose Azure OpenAI Service for built-in data privacy, regional/area/global flexibility, and seamless integration into the Azure ecosystem including Fabric, Cosmos DB and Azure AI Search. Companies of all sizes can confidently scale AI solutions to enhance customer experience, automate workflows, and unlock creative potential, driving measurable impact and competitive differentiation.

To help customers in the journey, we offer pricing and cost management solutions to meet your needs. including:

- **Standard (On-Demand):** Pay-as-you-go for input and output tokens.
- **Provisioned (PTUs):** [Allocate throughput](#) with predictable costs, with monthly and annual reservations available to reduce overall spend.

Chat with Sales

Find the right model to build your custom AI solution

Models shown are available for deployment in this project. [See all models](#)

Model leaderboards

See what models are performing best in different criteria. [Learn more](#) about our scoring methodology.

[Browse leaderboards](#)

Quality	Safety	Cost	Throughput
1 gpt-5.2-codex	1 gpt-5-pro	1 gpt-5-nano	1 gpt-oss-120b
2 gpt-5.2	2 claude-haiku-4-5	2 mistral-small-2503	2 gpt-5-nano
3 claude-opus-4-5	3 gpt-5.2-codex	3 gpt-4.1-nano	3 grok-code-fast-1

[Collections](#) [Capabilities](#) [Inference tasks](#) [Fine-tuning tasks](#) [Licenses](#) [Compare models](#)

Search Models 149

gpt-5.2-codex Responses	DeepSeek-V3.2 Chat completion	DeepSeek-V3.2-Special Chat completion	gpt-5.2-chat Chat completion, Responses
gpt-5.2 Chat completion, Responses	Cohere-rerank-v4.0-pro Text classification	Cohere-rerank-v4.0-fast Text classification	Kimi-K2-Thinking Chat completion
gpt-5.1-codex-max Responses	claude-opus-4-5 Messages	claude-sonnet-4-5 Messages	gpt-5.1 Chat completion, Responses
gpt-5.1-codex Responses	DeepSeek-V3.1 Chat completion	Mistral-Large-3 Chat completion	gpt-5-chat Chat completion, Responses
claude-haiku-4-5 Messages	model-router Chat completion	claude-opus-4-1 Messages	grok-4 Chat completion

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gpt-5.2-codex

[Use this model](#) [Fine-tune](#)

Details Existing deployments License

Direct from Azure models

Direct from Azure models are a select portfolio curated for their market-differentiated capabilities:

- Secure and managed by Microsoft: Purchase and manage models directly through Azure with a single license, consistent support, and no third-party dependencies, backed by Azure's enterprise-grade infrastructure.
- Streamlined operations: Benefit from unified billing, governance, and seamless PTU portability across models hosted on Azure - all part of Microsoft Foundry.
- Future-ready flexibility: Access the latest models as they become available, and easily test, deploy, or switch between them

[See more](#)

Model Versions

[Learn more about region availability](#)

East US 2

Model ID	Deployment type	Lifecycle	Max request	Retirement Date
2026-01-14	Global Standard	Generally available	Input: N/A Output: N/A	2027年1月14日(木)

Data, media and languages

Property	Description
Supported data types	Inputs text, image Outputs text

Quick facts OpenAI

gpt-5.2-codex

Responses

[Direct from Azure](#)

Training data last updated
September 2024

Pricing
[See pricing](#)

Model ID

Reference this model ID when deploying the model in code

```
azureml://registries/azure-openai/models/gpt-5.2-codex/versions/2026-01-14
```

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gpt-5.2-codex

Help

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- Cost control and optimization: Scale on demand with pay-as-you-go flexibility or reserve PTUs for predictable performance and savings.

Learn more about [Direct from Azure models](#).

Key capabilities

About this model

This model is provided through the Azure OpenAI Service.

Key model capabilities

- Multimodal reasoning: Accepts both text and image inputs—ideal for reasoning across code, UI states, architecture diagrams, and design comps in single workflow.
- Context-aware code reviews: Surfaces critical flows and quality issues with AI-powered insights into your development surfaces.
- Asynchronous execution: Supports long-running tasks with model-guided loops that retain state and context across interactions.
- Repo-aware intelligence: Understands full repositories, enabling cohesive refactors, test automation, and visual verification via screenshots.

With these capabilities, developers can leverage gpt-5.2-codex for a wide range of intelligent, multimodal development tasks. For developers seeking smarter, safer, and more integrated AI assistance, this model offers a powerful new tool in your AI toolkit.

Quick facts OpenAI

gpt-5.2-codex

Responses

[Direct from Azure](#)

Training data last updated
September 2024

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gpt-5.2-codex

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Quick facts OpenAI

 **gpt-5.2-codex**

Responses

[Direct from Azure](#)

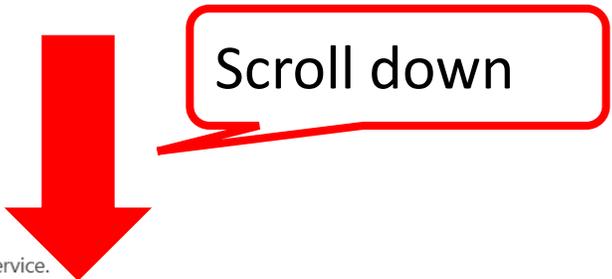
Training data last updated
September 2024

Pricing
[See pricing](#)

Model ID

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```
azureml://registries/azure-openai/models/gpt-5.2-codex/versions/2026-01-14
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b. Context-aware code reviews: Surfaces critical flows and quality issues with AI-powered insights into your development surfaces.

c. Asynchronous execution: Supports long-running tasks with model-guided loops that retain state and context across interactions.

d. Repo-aware intelligence: Understands full repositories, enabling cohesive refactors, test automation, and visual verification via screenshots.

With these capabilities, developers can leverage gpt-5.2-codex for a wide range of intelligent, multimodal development tasks. For developers seeking smarter, safer, and more integrated AI assistance, this model offers a powerful new tool in your AI toolkit.

Use cases

See Responsible AI for additional considerations for responsible use.

Key use cases

The provider has not supplied this information.

Out of scope use cases

Prompts and completions are passed through default configuration of Azure AI Content Safety classification to detect and prevent the output of harmful content. Learn more about [Azure AI Content Safety](#). Additional classification configuration options are available when you deploy an Azure OpenAI model in production; learn more [here](#).

Pricing

Pricing is based on a number of factors, including deployment type and tokens used. [See pricing details here.](#)

Technical specs

The provider has not supplied this information.

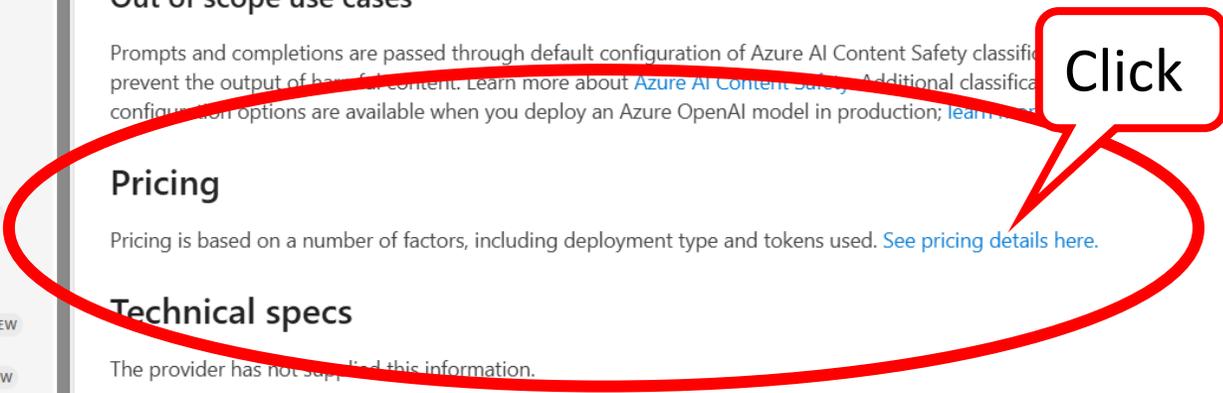
Training cut-off date

The provider has not supplied this information.

Training time

The provider has not supplied this information.

Input formats



UTokyoAzureGP2026CodeAI - Mi x Announcing GPT-5.2-Codex in Mi x Announcing GPT-5.2-Codex in Mi x Download Visual Studio Code - M x +

https://techcommunity.microsoft.com/blog/azure-ai-foundry-blog/announcing-gpt-5-2-codex-in-microsoft-foundry-enterprise-grade-ai-for-secure-sof/4485379

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MICROSOFT FOUNDRY BLOG 4 MIN READ

Announcing GPT-5.2-Codex in Microsoft Foundry: Enterprise-Grade AI for Secure Software Engineering

 **Naomi Moneypenny** MICROSOFT
Jan 14, 2026

Enterprise developers know the grind: wrestling with legacy code, navigating complex dependency challenges, and waiting on security reviews that stall releases. OpenAI's GPT-5.2-Codex flips that equation and helps engineers ship faster without cutting corners. It's not just autocomplete; it's a reasoning engine for real-world software engineering.

Generally available starting today through Azure OpenAI in Microsoft Foundry Models, GPT-5.2-Codex is built for the realities of enterprise codebases, large repos, evolving requirements, and security constraints that can't be overlooked. As OpenAI's most advanced agentic coding model, it brings sustained reasoning, and security-aware assistance directly into the workflows enterprise developers already rely on with Microsoft's secure and reliable infrastructure.

GPT-5.2-Codex at a Glance

GPT-5.2-Codex is designed for how software gets built in enterprise teams. You start with imperfect inputs including legacy code, partial docs, screenshots, diagrams, and work through multi-step changes, reviews, and fixes. The model helps keep context, intent, and standards intact across that entire lifecycle, so teams can move faster without sacrificing quality or security.

What it enables

- **Work across code and artifacts:** Reason over source code alongside screenshots, architecture diagrams, and UI mocks — so implementation stays aligned with design intent.
- **Stay productive in long-running tasks:** Maintain context across migrations, refactors, and investigations, even as requirements evolve.
- **Build and review with security in mind:** Get practical support for secure coding patterns, remediation, reviews, and vulnerability analysis — where correctness matters as much as speed.

Feature Specs (quick reference)



Pricing

Model	Input Price/1M Tokens	Cached Input Price/1M Tokens	Output Price/1M Tokens
GPT-5.2-Codex	\$1.75	\$0.175	\$14.00

UTokyoAzureGP2026C x Models + endpoints - x Announcing GPT-5.2-C x Announcing GPT-5.2-C x Download Visual Studi x 01.申請書類 - OneDrive x 01.申請書類 - OneDrive x

https://ai.azure.com/resource/deployments?wsid=/subscriptions/a600356d-63a3-483e-b4bb-59629c01a212/resourceGroups/UTokyoAzureGP2026/providers/Microsoft.CognitiveServices/accou... A ☆ ☆ ...

Microsoft Foundry / proj-default / Models + endpoints New Foundry Docs All resources 4 UTokyoAzureGP2026CodeAI (eastus2, S0)

Model deployments

Model deployments Service endpoints ? Help

+ Deploy model Refresh Edit Open in playground Reset view

Columns

Name	Model name	Model version	State	Model retirement date	Content filter	D
^ This resource						
gpt-5.1-codex	gpt-5.1-codex	2025-11-13	Succeeded	May 15, 2027 9:00 AM	DefaultV2 ⓘ	G
gpt-5.2-codex	gpt-5.2-codex	2026-01-14	Succeeded	Jan 14, 2027 9:00 AM	DefaultV2 ⓘ	G

To check the current usage, chose your model on the "Models + endpoints."

My assets Data + indexes Models + endpoints

← gpt-5.2-codex

Help

Detail Metrics

Request quota Edit Delete

Endpoint

Target URI

https://utokyoazureg...

Key

.....

Endpoint

SDK

curl

Authentication type

Key Authentication

Move to the "Metrics" page.

Started

Deployment info

Name	gpt-5.2-codex	Provisioning state	Succeeded
Deployment type	Global Standard	Created on	2026-01-25T11:50:14.097414Z
Created by	1923306880@utac.u-tokyo.ac.jp	Modified on	Jan 25, 2026 8:50 PM
Modified by	1923306880@utac.u-tokyo.ac.jp	Version upgrade policy	Once a new default version is available

Rate limit (Tokens per minute)	250,000	Rate limit (Requests per minute)	2,500
--------------------------------	---------	----------------------------------	-------

Model name	gpt-5.2-codex	Model version	2026-01-14
------------	---------------	---------------	------------

Life cycle status	GenerallyAvailable	Date created	Jan 13, 2026 9:00 AM
-------------------	--------------------	--------------	----------------------

1. Authentication using API Key

For Serverless API Endpoints, deploy the Model to generate the endpoint URL and an API key to authenticate against the service. In this sample endpoint and key are strings holding the endpoint URL and the API Key. The API endpoint URL and API key can be found on the Deployments + Endpoint page once the model is deployed.

If you're using bash:

```
export AZURE_API_KEY="<your-api-key>"
```

If you're in powershell:

```
$Env:AZURE_API_KEY = "<your-api-key>"
```

If you're using Windows command prompt:

```
set AZURE_API_KEY = <your-api-key>
```

2. Run a basic code sample

Paste the following into a shell

```
curl -X POST "https://utokyoazuregp2026codeai.cognitiveservices.azure.com/openai/responses?api-ver-  
-H "Content-Type: application/json" \  
-H "Authorization: Bearer $AZURE_API_KEY" \  
"
```

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← gpt-5.2-codex

Help

Details Metrics

01/19/2026 - 01/26/2026 Last day 7D 1M

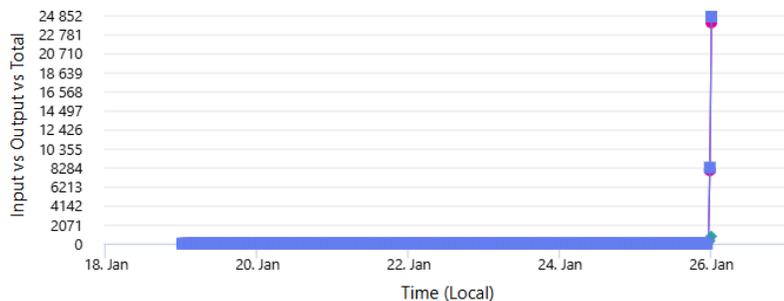
Summary

Total requests 7	Total token count 33.02K 4717 avg per request	Prompt token count 31.97K 4568 avg per request	Completion token count 1.05K 149 avg per request
----------------------------	--	---	---

View your resource cost details with [Azure Cost Management](#).

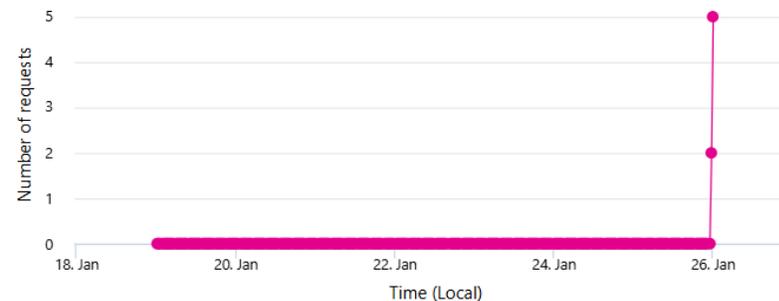
Usage metrics

Input vs Output vs Total



● Total prompt token count ● Total completion token count ■ Total token count

Number of requests



● Number of requests

Latency metrics

Time to first byte (in ms)

Time to last byte (in ms)

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How to calculate the cost from the metrics summary?

- Based on my Azure dashboard, my usage for gpt-5.2-codex is:
 - Total token count: 33.02K tokens
 - **Prompt tokens: 31.97K**
 - **Completion tokens: 1.05K**
 - Total requests: 7

- Pricing for GPT-5.2-Codex (per 1M tokens)

- **Input tokens:** USD \$1.75 / 1M tokens
- **Output tokens:** USD \$14.00 / 1M tokens

In terms of GPT series, **prompt tokens = input tokens**
and **completion tokens = output tokens.**

- Step-by-Step Cost Calculation

- **Input cost:** 31.97K input tokens = $31,970 / 1,000,000 \times \$1.75 \approx \$0.0559$ USD
- **Output cost:** 1.05K output tokens = $1,050 / 1,000,000 \times \$14 \approx \$0.0147$ USD
- **Total cost in USD: \$0.0706 USD \approx ¥11**

Please check the [UTokyo Azure: Subscription Management](#) page

- The safest approach is **to check [UTokyo Azure: Subscription Management](#) daily!**
- Usage status is generally updated every day.

Guaranteed free tier for this subscription on 2026/02: \$ [REDACTED]

Number of UTokyo Accounts having roles on this subscription: 6
Weight factor for this subscription: 1.0
Weight of this subscription: 3.4

As of 2026/02/10 14:36

Period	2026/02	2026/01	2025/12	2025/11	2025/10	2025/09	2025/08	2025/07	2025/06	2025/05
Guaranteed free tier	\$5631.8	\$6454.2	\$5163.8	\$5501.3	\$5930.1	\$6249.3	\$6412.1	\$6789.7	\$4321.1	\$4121.1
Usage (Carryover)	\$1198.7 (\$0.0)	\$1559.2 (\$0.0)	\$530.3 (\$0.0)	\$520.9 (\$0.0)	\$544.2 (\$0.0)	\$1027.5 (\$0.0)	\$3261.2 (\$0.0)	\$4758.8 (\$0.0)	\$3145.2 (\$0.0)	\$1452.1 (\$0.0)
Free Tier		\$1559.2	\$530.3	\$520.9	\$544.2	\$1027.5	\$3261.2	\$4758.8	\$3145.2	\$1452.1
Charge		(\$0.0)	(\$0.0)	(\$0.0)	(\$0.0)	\$0.0	(\$0.0)	(\$0.0)	(\$0.0)	(\$0.0)