

Libraries

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Set up your development environment to use the OpenAI API with an SDK in your preferred language.

This page covers setting up your local development environment to use the [OpenAI API](#). You can use one of our officially supported SDKs, a community library, or your own preferred HTTP client.

Create and export an API key

Before you begin, [create an API key in the dashboard](#), which you'll use to securely [access the API](#). Store the key in a safe location, like a `.zshrc` file or another text file on your computer. Once you've generated an API key, export it as an [environment variable](#) in your terminal.

macOS / LinuxWindows

Export an environment variable on macOS or Linux systems

1 export OPENAI_API_KEY="your_api_key_here"

OpenAI SDKs are configured to automatically read your API key from the system environment.

Install an official SDK

JavaScriptPython.NETJavaGo

To use the OpenAI API in server-side JavaScript environments like Node.js, Deno, or Bun, you can use the official [OpenAI SDK for TypeScript and JavaScript](#). Get started by installing the SDK using [npm](#) or your preferred package manager:

Install the OpenAI SDK with npm

1 npm install openai

With the OpenAI SDK installed, create a file called `example.mjs` and copy the example code into it:

Test a basic API request

1 import OpenAI from "openai";
2 const client = new OpenAI();
3
4 const response = await client.responses.create({
5 model: "gpt-5-nano",
6 input: "Write a one-sentence bedtime story about a unicorn."
7 });
8
9 console.log(response.output_text);

Execute the code with `node example.mjs` (or the equivalent command for Deno or Bun). In a few moments, you should see the output of your API request.

</>Learn more on GitHub

Discover more SDK capabilities and options on the library's GitHub README.

Azure OpenAI libraries

Microsoft's Azure team maintains libraries that are compatible with both the OpenAI API and Azure OpenAI services. Read the library documentation below to learn how you can use them with the OpenAI API.

- [Azure OpenAI client library for .NET](#)
- [Azure OpenAI client library for JavaScript](#)
- [Azure OpenAI client library for Java](#)
- [Azure OpenAI client library for Go](#)

Community libraries

The libraries below are built and maintained by the broader developer community. You can also [watch our OpenAPI specification](#) repository on GitHub to get timely updates on when we make changes to our API.

Please note that OpenAI does not verify the correctness or security of these projects. **Use them at your own risk!**

C# / .NET

- [BetaGo.OpenAI](#) by [BetaGo](#)
- [OpenAI-API-dotnet](#) by [OkGoDolt](#)
- [OpenAI-DotNet](#) by [RageAgainstThePixel](#)

Configure an API key

- [Install an SDK](#)
- [Azure libraries](#)
- [Community libraries](#)
- [Other OpenAI repositories](#)

C++

[liboai](#) by [D7EAD](#)

Clojure

[openai-clojure](#) by [wkok](#)

Crystal

[openai-crystal](#) by [sferik](#)

Dart/Flutter

[openai](#) by [anasfik](#)

Delphi

[DelphiOpenAI](#) by [HemulGM](#)

Elixir

[openai.ex](#) by [mgallo](#)

Go

[go-gpt3](#) by [sashabaranov](#)

Java

[simple-openai](#) by [Sashir Estela](#)

[Spring AI](#)

Julia

[OpenAI.jl](#) by [rory-linehan](#)

Kotlin

[openai-kotlin](#) by [Mouaad Aallam](#)

Node.js

[openai-api](#) by [Njerschow](#)

[openai-api-node](#) by [erlapso](#)

[gpt-x](#) by [ceifa](#)

[gpt3](#) by [poteat](#)

[gpts](#) by [thencc](#)

[@dalenguyen/openai](#) by [dalenguyen](#)

[tectalic/openai](#) by [tectalic](#)

PHP

[orhanerday/open-ai](#) by [orhanerday](#)

[tectalic/openai](#) by [tectalic](#)

[openai-php client](#) by [openai-php](#)

Python

[chronology](#) by [OthersideAI](#)

R

[rgpt3](#) by [ben-aaron188](#)

Ruby

[openai](#) by [nilesshrivedi](#)

[ruby-openai](#) by [alexrudall](#)

Rust

[async-openai](#) by [64bit](#)

[fieri](#) by [lbkolev](#)

Scala

[openai-scala-client](#) by [cequence-io](#)

Swift

[AIProxySwift](#) by [Lou Zell](#)

[OpenAIKit](#) by [dylanshine](#)

[OpenAI](#) by [MacPaw](#)

Unity

- [OpenAi-Api-Unity](#) by [hexthede](#)v
- [com.openai.unity](#) by [RageAgainstThePixel](#)

Unreal Engine

- [OpenAI-Api-Unreal](#) by [KellanM](#)

Other OpenAI repositories

- [tiktoken](#) - counting tokens
- [simple-evals](#) - simple evaluation library
- [mle-bench](#) - library to evaluate machine learning engineer agents
- [gym](#) - reinforcement learning library
- [swarm](#) - educational orchestration repository