


[!](/)

* [Home](/)

* [Docs](/docs)

* [Github](<https://github.com/mlc-ai/xgrammar>)

XGrammar: Efficient, Flexible and Portable Structured Generation

[GitHub](<https://github.com/mlc-ai/xgrammar>) [Documentation

](<https://xgrammar.mlc.ai/docs/>)

Overview

XGrammar is open-source solution for flexible, portable, and fast structured generations, aiming at bring flexible zero-overhead structure generation everywhere. It supports general context-free grammar to enable a broad range of structures while bringing careful system optimizations to enable fast executions. XGrammar features a minimal and portable C++ backend that can be easily integrated into multiple environments and frameworks, and is co-designed with the LLM inference engine and enables zero-overhead structured generation in LLM inference.

Get Started

Please visit our [documentation](<https://xgrammar.mlc.ai/docs/>) to get started with XGrammar.

* [Installation](https://xgrammar.mlc.ai/docs/start/install)

* [Quick start](https://xgrammar.mlc.ai/docs/start/quick_start)

Links

* [XGrammar Github](https://github.com/mlc-ai/xgrammar)