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Chatbots

ellmer provides a simple interface to a wide range of LLM providers. Use the `chat_` functions to initialize a `Chat` object for a specific provider and model. Once created, use the methods of the `Chat` object to send messages, receive responses, manage tools and extract structured data.

`chat()`

Chat with any provider

`chat_anthropic()` `chat_claude()` `models_claude()`

`models_anthropic()`

Chat with an Anthropic Claude model

`chat_aws_bedrock()` `models_aws_bedrock()`

Chat with an AWS bedrock model

`chat_azure_openai()`

Chat with a model hosted on Azure OpenAI

`chat_cloudflare()`

Chat with a model hosted on CloudFlare

`chat_databricks()`

Chat with a model hosted on Databricks

`chat_deepseek()`

Chat with a model hosted on DeepSeek

`chat_github()` `models_github()`

Chat with a model hosted on the GitHub model marketplace

Chat with a Google Gemini or Vertex AI model

[chat_groq\(\)](#)

Chat with a model hosted on Groq

[chat_huggingface\(\)](#)

Chat with a model hosted on Hugging Face Serverless Inference API

[chat_mistral\(\)](#) [models_mistral\(\)](#)

Chat with a model hosted on Mistral's La Plateforme

[chat_ollama\(\)](#) [models_ollama\(\)](#)

Chat with a local Ollama model

[chat_openai\(\)](#) [models_openai\(\)](#)

Chat with an OpenAI model

[chat_openai_compatible\(\)](#)

Chat with an OpenAI-compatible model

[chat_openrouter\(\)](#)

Chat with one of the many models hosted on OpenRouter

[chat_perplexity\(\)](#)

Chat with a model hosted on perplexity.ai

[chat_portkey\(\)](#) [models_portkey\(\)](#)

Chat with a model hosted on PortkeyAI

[chat_snowflake\(\)](#)

Chat with a model hosted on Snowflake

[chat_vllm\(\)](#) [models_vllm\(\)](#)

Chat with a model hosted by vLLM

[Chat](#)

The Chat object

[token_usage\(\)](#)

Report on token usage in the current session

Provider-specific helpers

ellmer 0.4.0

claude_file_upload() claude_file_get()
claude_file_get() claude_file_download()
claude_file_delete() **experimental**

Upload, download, and manage files for Claude

claude_tool_web_search()

Claude web search tool

claude_tool_web_fetch()

Claude web fetch tool

google_tool_web_search()

Google web search (grounding) tool

google_tool_web_fetch()

Google URL fetch tool

openai_tool_web_search()

OpenAI web search tool

Chat helpers

create_tool_def()

Create metadata for a tool

content_image_url() content_image_file()

content_image_plot()

Encode images for chat input

content_pdf_file() content_pdf_url()

Encode PDFs content for chat input

live_console() live_browser()

Open a live chat application

interpolate() interpolate_file()

interpolate_package()

Helpers for interpolating data into prompts

Parallel and batch chat

[parallel_chat\(\)](#) [parallel_chat_text\(\)](#)

[parallel_chat_structured\(\)](#)

Submit multiple chats in parallel

Tools and structured data

[tool\(\)](#)

Define a tool

[tool_annotations\(\)](#)

Tool annotations

[tool_reject\(\)](#)

Reject a tool call

[type_boolean\(\)](#) [type_integer\(\)](#) [type_number\(\)](#)

[type_string\(\)](#) [type_enum\(\)](#) [type_array\(\)](#)

[type_object\(\)](#) [type_from_schema\(\)](#) [type_ignore\(\)](#)

Type specifications

Objects

These classes abstract away behaviour differences in chat providers so that for typical ellmer use you don't need to worry about them. You'll need to learn more about the objects if you're doing something that's only supported by one provider, or if you're implementing a new provider.

[Provider\(\)](#)

A chatbot provider

[Turn\(\)](#) [UserTurn\(\)](#) [SystemTurn\(\)](#) [AssistantTurn\(\)](#)

A user, assistant, or system turn

[Content\(\)](#) [ContentText\(\)](#) [ContentImage\(\)](#)

[ContentImageRemote\(\)](#) [ContentImageInline\(\)](#)

[TypeBasic\(\)](#) [TypeEnum\(\)](#) [TypeArray\(\)](#)

[TypeJsonSchema\(\)](#) [TypeIgnore\(\)](#) [TypeObject\(\)](#)

Type definitions for function calling and structured data extraction.

Utilities

[contents_text\(\)](#) [contents_html\(\)](#)

[contents_markdown\(\)](#) [experimental](#)

Format contents into a textual representation

[contents_record\(\)](#) [contents_replay\(\)](#)

Record and replay content

[df_schema\(\)](#)

Describe the schema of a data frame, suitable for sending to an LLM

[params\(\)](#)

Standard model parameters

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