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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

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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 Platforme

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

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~~claude_file_upload()~~ ~~claude_file_list()~~
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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Utilities

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