# File generated from our OpenAPI spec by Stainless. See CONTRIBUTING.md for details. from \_\_future\_\_ import annotations from typing import Dict, List, Type, Union, Iterable, Optional, cast from functools import partial from typing extensions import Literal import httpx from .... import legacy response from .... types import NOT GIVEN, Body, Query, Headers, NotGiven from ....\_utils import maybe\_transform, async\_maybe\_transform from ....\_compat import cached\_property from ....\_resource import SyncAPIResource, AsyncAPIResource from ....\_response import to\_streamed\_response\_wrapper, async\_to\_streamed\_response\_wrapper from ....\_streaming import Stream from ....types.chat import completion create params from .... base client import make request options from ....lib. parsing import ( ResponseFormatT, validate input tools as validate input tools, parse chat completion parse chat completion, as type\_to\_response\_format\_param as \_type\_to\_response\_format, ) from ....types.chat\_model import ChatModel from ....lib.streaming.chat import ChatCompletionStreamManager, AsyncChatCompletionStreamManager from ....types.chat.chat\_completion import ChatCompletion from ....types.chat.chat completion chunk import ChatCompletionChunk from ....types.chat.parsed\_chat\_completion import ParsedChatCompletion from ....types.chat.chat\_completion\_modality import ChatCompletionModality from ChatCompletionToolParam ....types.chat.chat\_completion\_tool\_param import from ....types.chat.chat\_completion\_audio\_param import ChatCompletionAudioParam from ....types.chat.chat completion message param import ChatCompletionMessageParam from ....types.chat.chat completion stream options param import ChatCompletionStreamOptionsParam from ....types.chat.chat\_completion\_prediction\_content\_param import ChatCompletionPredictionContentParam from ....types.chat.chat\_completion\_tool\_choice\_option\_param import ChatCompletionToolChoiceOptionParam \_\_all\_\_ = ["Completions", "AsyncCompletions"] class Completions(SyncAPIResource): @cached\_property def with raw response(self) CompletionsWithRawResponse: """ This property can be used as a prefix for any HTTP method call to return the the raw response object instead of the parsed content. For more information, see

https://www.github.com/openai/openai-python#accessing-raw-response-data-eg-headers """ return CompletionsWithRawResponse(self) @cached\_property def with\_streaming\_response(self) -> CompletionsWithStreamingResponse: """ An alternative to `.with raw response` that doesn't eagerly read the response body. For more information. see ..... https://www.github.com/openai/openai-python#with\_streaming\_response return CompletionsWithStreamingResponse(self) def parse( self. messages: Iterable[ChatCompletionMessageParam], Union[str, model: ChatModel], audio: Optional[ChatCompletionAudioParam] NotGiven NOT GIVEN, response format: type[ResponseFormatT] | NotGiven = NOT GIVEN, frequency penalty: Optional[float] | NotGiven = NOT GIVEN, function call: completion create params.FunctionCall | NotGiven = NOT GIVEN, functions: Iterable[completion create params.Function] | NotGiven = NOT GIVEN, logit bias: Optional[Dict[str, int]] | NotGiven = NOT\_GIVEN, logprobs: Optional[bool] | NotGiven = NOT\_GIVEN, max\_completion\_tokens: Optional[int] | NotGiven = NOT\_GIVEN, max\_tokens: Optional[int] | NotGiven = NOT GIVEN, metadata: Optional[Dict[str, str]] | NotGiven = NOT GIVEN, modalities: Optional[List[ChatCompletionModality]] | NotGiven = NOT GIVEN, n: Optional[int] | NotGiven = NOT\_GIVEN, parallel\_tool\_calls: bool | NotGiven = NOT\_GIVEN, prediction: Optional[ChatCompletionPredictionContentParam] | NotGiven = NOT\_GIVEN, presence\_penalty: Optional[float] | NotGiven = NOT GIVEN, seed: Optional[int] | NotGiven = NOT GIVEN, service tier: Optional[Literal["auto", "default"]] | NotGiven = NOT GIVEN, stop: Union[Optional[str], List[str]] | NotGiven = NOT GIVEN, store: Optional[bool] | NotGiven = NOT GIVEN, stream\_options: Optional[ChatCompletionStreamOptionsParam] | NotGiven = NOT\_GIVEN, tool\_choice: temperature: Optional[float] 1 NotGiven = NOT\_GIVEN, ChatCompletionToolChoiceOptionParam 1 NotGiven NOT GIVEN. tools: Iterable[ChatCompletionToolParam] | NotGiven = NOT\_GIVEN, top\_logprobs: Optional[int] | NotGiven = NOT\_GIVEN, top\_p: Optional[float] | NotGiven = NOT\_GIVEN, user: str | NotGiven = NOT GIVEN, # Use the following arguments if you need to pass additional parameters to the API that aren't available via kwargs. # The extra values given here take precedence over values defined

on the client or passed to this method, extra headers: Headers | None = None, extra guery: Query | None = None, extra\_body: Body | None = None, timeout: float | httpx.Timeout | None | NotGiven = ParsedChatCompletion[ResponseFormatT]: NOT GIVEN, ) -> """Wrapper over the `client.chat.completions.create()` method that provides richer integrations with Python specific types & returns a `ParsedChatCompletion` object, which is a subclass of the standard `ChatCompletion` class. You can pass a pydantic model to this method and it will automatically convert the model into a JSON schema, send it to the API and parse the response content back into the given model. This method will also automatically parse `function` tool calls if: the `openai.pydantic function tool()` helper method \- You mark your tool schema with `"strict": True` Example usage: ```py from pydantic import BaseModel from openai import OpenAl class Step(BaseModel): explanation: str output: str class MathResponse(BaseModel): steps: List[Step] final\_answer: str client OpenAI() completion = client.beta.chat.completions.parse( model="gpt-4o-2024-08-06", messages=[ {"role": "system", "content": "You are a helpful math tutor.", {"role": "user", "content": "solve 8x + 31 = 2"}, response format=MathResponse, ) message = completion.choices[0].message if message.parsed: print(message.parsed.steps) print("answer: ", message.parsed.final\_answer) ``` """ \_validate\_input\_tools(tools) extra\_headers = { "X-Stainless-Helper-Method": "beta.chat.completions.parse", \*\*(extra\_headers or def parser(raw\_completion: ChatCompletion) -> ParsedChatCompletion[ResponseFormatT]: return parse chat completion( response format=response format, chat completion=raw completion, input tools=tools, ) return self. post( "/chat/completions", body=maybe transform( { "messages": messages, "model": model, "audio": audio, "frequency\_penalty": frequency\_penalty, "function\_call": function call, "functions": functions, "logit\_bias": logit\_bias, "logprobs": logprobs, "max\_completion\_tokens": max\_completion\_tokens, "max\_tokens": max\_tokens, "metadata": metadata, "modalities": modalities, "n": n, "parallel\_tool\_calls": parallel\_tool\_calls, "prediction": prediction, "presence\_penalty": presence\_penalty, "response format": type to response format(response format), "seed": seed, "service tier": service tier, "stop": stop, "store": store, "stream": False, "stream\_options": stream\_options, "temperature": temperature,

"tool\_choice": tool\_choice, "tools": tools, "top\_logprobs": top\_logprobs, "top\_p": top\_p, "user": user, }, completion\_create\_params.CompletionCreateParams, ), options=make\_request\_options( extra headers=extra headers, extra query=extra query, extra body=extra body, timeout=timeout, post parser=parser, ), # we turn the `ChatCompletion` instance into a `ParsedChatCompletion` # in above cast\_to=cast(Type[ParsedChatCompletion[ResponseFormatT]], the `parser` function ChatCompletion), stream=False. ) def stream( self. messages: Iterable[ChatCompletionMessageParam], Union[str, ChatModel], model: audio: Optional[ChatCompletionAudioParam] NotGiven NOT GIVEN, response format: completion create params.ResponseFormat | type[ResponseFormatT] | NotGiven = NOT GIVEN, frequency penalty: Optional[float] NotGiven NOT GIVEN, function call: completion\_create\_params.FunctionCall NotGiven NOT GIVEN. functions: = Iterable[completion\_create\_params.Function] NotGiven NOT\_GIVEN, logit\_bias: Optional[Dict[str, int]] | NotGiven = NOT\_GIVEN, logprobs: Optional[bool] | NotGiven = NOT GIVEN, max completion tokens: Optional[int] | NotGiven = NOT GIVEN, max tokens: Optional[int] | NotGiven = NOT GIVEN, metadata: Optional[Dict[str, str]] | NotGiven = NOT GIVEN, modalities: Optional[List[ChatCompletionModality]] | NotGiven = NOT\_GIVEN, n: Optional[int] | NotGiven = NOT\_GIVEN, parallel\_tool\_calls: bool | NotGiven = NOT\_GIVEN, prediction: Optional[ChatCompletionPredictionContentParam] | NotGiven = NOT GIVEN, presence penalty: Optional[float] | NotGiven = NOT GIVEN, seed: Optional[int] | NotGiven = NOT GIVEN, service tier: Optional[Literal["auto", "default"]] | NotGiven = NOT GIVEN, stop: Union[Optional[str], List[str]] | NotGiven = NOT\_GIVEN, store: Optional[bool] | NotGiven = NOT\_GIVEN, stream\_options: Optional[ChatCompletionStreamOptionsParam] | NotGiven = NOT\_GIVEN, temperature: Optional[float] NotGiven NOT GIVEN, tool choice: ChatCompletionToolChoiceOptionParam 1 NotGiven NOT\_GIVEN, tools: Iterable[ChatCompletionToolParam] | NotGiven = NOT\_GIVEN, top\_logprobs: Optional[int] | NotGiven = NOT GIVEN, top p: Optional[float] | NotGiven = NOT GIVEN, user: str | NotGiven = NOT\_GIVEN, # Use the following arguments if you need to pass additional parameters to the API

that aren't available via kwargs. # The extra values given here take precedence over values defined on the client or passed to this method. extra\_headers: Headers | None = None, extra\_query: Query | None = None, extra body: Body | None = None, timeout: float | httpx.Timeout | None | NotGiven = NOT GIVEN, ) -> ChatCompletionStreamManager[ResponseFormatT]: """Wrapper over the `client.chat.completions.create(stream=True)` method that provides a more granular event API and automatic accumulation of each delta. This also supports all of the parsing utilities that `.parse()` does. Unlike `.create(stream=True)`, the `.stream()` method requires usage within a context manager prevent accidental leakage of the response: ```py with client.beta.chat.completions.stream( model="gpt-4o-2024-08-06", messages=[...], ) as stream: for event in stream: if event.type == "content.delta": print(event.delta, flush=True, end="") ``` When the context manager is entered, a 'ChatCompletionStream' instance is returned which, like `.create(stream=True)` is an iterator. The full list of events that are yielded by the iterator are outlined in **[these** docs](https://github.com/openai/openai-python/blob/main/helpers.md#chat-completions-events). When the context manager exits, the response will be closed, however the 'stream' instance is still available outside the context manager. """ extra\_headers = { "X-Stainless-Helper-Method": "beta.chat.completions.stream", \*\*(extra\_headers **{})**, } api\_request: or partial[Stream[ChatCompletionChunk]] = partial( self.\_client.chat.completions.create, model=model, messages=messages, audio=audio, stream=True, response format= type to response format(response format), frequency\_penalty=frequency\_penalty, function\_call=function\_call, functions=functions. logit\_bias=logit\_bias, logprobs=logprobs, max\_completion\_tokens=max\_completion\_tokens, max tokens=max tokens, metadata=metadata, modalities=modalities. n=n, parallel\_tool\_calls=parallel\_tool\_calls, prediction=prediction, presence\_penalty=presence\_penalty, seed=seed, service\_tier=service\_tier, store=store, stop=stop, stream\_options=stream\_options, temperature=temperature, tool choice=tool choice, tools=tools, top logprobs=top logprobs, top\_p=top\_p, user=user, extra\_headers=extra\_headers, extra\_query=extra\_query,

extra\_body=extra\_body, timeout=timeout, ) return ChatCompletionStreamManager( api\_request, response\_format=response\_format, input\_tools=tools, ) class AsyncCompletions(AsyncAPIResource): @cached property def with raw response(self) AsyncCompletionsWithRawResponse: """ This property can be used as a prefix for any HTTP method call to return the the raw response object instead of the parsed content. For more information, see https://www.github.com/openai/openai-python#accessing-raw-response-data-eg-headers """ return AsyncCompletionsWithRawResponse(self) @cached property def with streaming response(self) -> AsyncCompletionsWithStreamingResponse: """ An alternative to `.with\_raw\_response` that doesn't eagerly read the body. For information, response more see https://www.github.com/openai/openai-python#with streaming response return AsyncCompletionsWithStreamingResponse(self) async def parse( self, messages: Iterable[ChatCompletionMessageParam], model: Union[str, ChatModel]. audio: Optional[ChatCompletionAudioParam] NotGiven NOT GIVEN, response format: type[ResponseFormatT] | NotGiven = NOT\_GIVEN, frequency\_penalty: Optional[float] | NotGiven = NOT\_GIVEN, function\_call: completion\_create\_params.FunctionCall | NotGiven = NOT\_GIVEN, functions: Iterable[completion\_create\_params.Function] | NotGiven = NOT\_GIVEN, logit\_bias: Optional[Dict[str, int]] | NotGiven = NOT GIVEN, logprobs: Optional[bool] | NotGiven = NOT GIVEN, max completion tokens: Optional[int] | NotGiven = NOT GIVEN, max tokens: Optional[int] | NotGiven = NOT GIVEN, metadata: Optional[Dict[str, str]] | NotGiven = NOT GIVEN, modalities: Optional[List[ChatCompletionModality]] | NotGiven = NOT GIVEN, n: Optional[int] | NotGiven = NOT\_GIVEN, parallel\_tool\_calls: bool | NotGiven = NOT\_GIVEN, prediction: Optional[ChatCompletionPredictionContentParam] | NotGiven = NOT GIVEN, presence penalty: Optional[float] | NotGiven = NOT\_GIVEN, seed: Optional[int] | NotGiven = NOT\_GIVEN, service\_tier: Optional[Literal["auto", "default"]] | NotGiven = NOT\_GIVEN, stop: Union[Optional[str], List[str]] | NotGiven = NOT GIVEN, store: Optional[bool] | NotGiven = NOT GIVEN, stream\_options: Optional[ChatCompletionStreamOptionsParam] | NotGiven = NOT\_GIVEN,

temperature: Optional[float] NotGiven NOT\_GIVEN, tool\_choice: ChatCompletionToolChoiceOptionParam NotGiven NOT\_GIVEN, tools: Iterable[ChatCompletionToolParam] | NotGiven = NOT GIVEN, top logprobs: Optional[int] | NotGiven = NOT GIVEN, top p: Optional[float] | NotGiven = NOT GIVEN, user: str | NotGiven = NOT GIVEN, # Use the following arguments if you need to pass additional parameters to the API that aren't available via kwargs. # The extra values given here take precedence over values defined on the client or passed to this method. extra\_headers: Headers | None = None, extra\_query: Query | None = None, extra body: Body | None = None, timeout: float | httpx.Timeout | None | NotGiven = ParsedChatCompletion[ResponseFormatT]: """Wrapper NOT GIVEN. the `client.chat.completions.create()` method that provides richer integrations with Python specific types & returns a `ParsedChatCompletion` object, which is a subclass of the standard `ChatCompletion` class. You can pass a pydantic model to this method and it will automatically convert the model into a JSON schema, send it to the API and parse the response content back into the given model. This method will also automatically `function` tool calls if: You parse use the `openai.pydantic\_function\_tool()` helper method \- You mark your tool schema with `"strict": True` Example usage: ```py from pydantic import BaseModel from openai import AsyncOpenAl class Step(BaseModel): explanation: str output: str class MathResponse(BaseModel): steps: List[Step] final answer: str client = AsyncOpenAI() completion = await client.beta.chat.completions.parse( model="gpt-4o-2024-08-06", messages=[ {"role": "system", "content": "You are a helpful math tutor.", {"role": "user", "content": "solve 8x + 31 = 2"}, response format=MathResponse, message = completion.choices[0].message if message.parsed: print(message.parsed.steps) print("answer: ", message.parsed.final\_answer) ``` """ \_validate\_input\_tools(tools) extra\_headers = { "X-Stainless-Helper-Method": "beta.chat.completions.parse", \*\*(extra\_headers or {}), parser(raw\_completion: ChatCompletion) -> ParsedChatCompletion[ResponseFormatT]: return \_parse\_chat\_completion( response\_format=response\_format, chat\_completion=raw\_completion, input tools=tools, self. post( "/chat/completions", ) return await bodv=await async\_maybe\_transform( "messages": messages, "model": "audio": { model, audio,

"frequency\_penalty": frequency\_penalty, "function\_call": function\_call, "functions": functions, "logit\_bias": logit\_bias, "logprobs": logprobs, "max\_completion\_tokens": max\_completion\_tokens, "metadata": metadata, "modalities": "max tokens": max tokens, modalities, "n": n, "parallel tool calls": parallel tool calls, "prediction": prediction. "presence penalty": presence\_penalty, "response\_format": \_type\_to\_response\_format(response\_format), "seed": seed, "service\_tier": service\_tier, "store": store, "stop": stop, "stream": False, "stream options": tool\_choice, stream\_options, "temperature": temperature, "tool\_choice": "tools": tools, "user": "top logprobs": top logprobs, "top p": top\_p, }, user, completion create params. Completion Create Params, ). options=make request options( extra headers=extra headers, extra query=extra query, extra body=extra body, timeout=timeout, post\_parser=parser, ), # we turn the `ChatCompletion` instance into a `ParsedChatCompletion` # in above cast\_to=cast(Type[ParsedChatCompletion[ResponseFormatT]], the `parser` function ChatCompletion), stream=False. ) def stream( self. messages: Iterable[ChatCompletionMessageParam], model: Union[str, ChatModel], audio: Optional[ChatCompletionAudioParam] NotGiven NOT GIVEN, response format: completion\_create\_params.ResponseFormat | type[ResponseFormatT] | NotGiven = NOT\_GIVEN, frequency\_penalty: Optional[float] NotGiven NOT\_GIVEN, = function\_call: completion create params.FunctionCall NotGiven NOT GIVEN. functions: = Iterable[completion create params.Function] NotGiven NOT GIVEN, = logit bias: Optional[Dict[str, int]] | NotGiven = NOT GIVEN, logprobs: Optional[bool] | NotGiven = NOT\_GIVEN, max\_completion\_tokens: Optional[int] | NotGiven = NOT\_GIVEN, max tokens: Optional[int] | NotGiven = NOT\_GIVEN, metadata: Optional[Dict[str, str]] | NotGiven = NOT\_GIVEN, modalities: Optional[List[ChatCompletionModality]] | NotGiven = NOT GIVEN, n: Optional[int] | NotGiven = NOT\_GIVEN, parallel\_tool\_calls: bool | NotGiven = NOT\_GIVEN, prediction: Optional[ChatCompletionPredictionContentParam] | NotGiven = NOT\_GIVEN, presence\_penalty: Optional[float] | NotGiven = NOT GIVEN, seed: Optional[int] | NotGiven = NOT GIVEN, service\_tier: Optional[Literal["auto", "default"]] | NotGiven = NOT\_GIVEN, stop: Union[Optional[str],

List[str]] | NotGiven = NOT\_GIVEN, store: Optional[bool] | NotGiven = NOT\_GIVEN, NotGiven = NOT\_GIVEN, stream\_options: Optional[ChatCompletionStreamOptionsParam] | NotGiven temperature: Optional[float] NOT GIVEN, tool choice: ChatCompletionToolChoiceOptionParam NotGiven NOT GIVEN. tools: Iterable[ChatCompletionToolParam] | NotGiven = NOT GIVEN, top logprobs: Optional[int] | NotGiven = NOT\_GIVEN, top\_p: Optional[float] | NotGiven = NOT\_GIVEN, user: str | NotGiven = NOT\_GIVEN, # Use the following arguments if you need to pass additional parameters to the API that aren't available via kwargs. # The extra values given here take precedence over values defined on the client or passed to this method. extra headers: Headers | None = None, extra query: Query | None = None, extra body: Body | None = None, timeout: float | httpx.Timeout | None | NotGiven = NOT GIVEN, ) -> AsyncChatCompletionStreamManager[ResponseFormatT]: """Wrapper over the `client.chat.completions.create(stream=True)` method that provides a more granular event API and automatic accumulation of each delta. This also supports all of the parsing utilities that `.parse()` does. Unlike `.create(stream=True)`, the `.stream()` method requires usage within a context manager to prevent accidental leakage of the response: ```py async with client.beta.chat.completions.stream( model="gpt-4o-2024-08-06", messages=[...], ) as stream: async for event in stream: if event.type == "content.delta": print(event.delta, flush=True, end="") ``` When the context manager is entered, an `AsyncChatCompletionStream` instance is returned which, like `.create(stream=True)` is an async iterator. The full list of events that are yielded by the iterator are outlined in [these docs](https://github.com/openai/openai-python/blob/main/helpers.md#chat-completions-events). When the context manager exits, the response will be closed, however the 'stream' instance is still available outside the context manager. """ \_validate\_input\_tools(tools) extra\_headers = { "X-Stainless-Helper-Method": "beta.chat.completions.stream", \*\*(extra\_headers or {}), } api\_request self. client.chat.completions.create( messages=messages, model=model, audio=audio, stream=True, response format= type to response format(response format), frequency\_penalty=frequency\_penalty, function\_call=function\_call, functions=functions,

logit bias=logit bias, logprobs=logprobs. max\_completion\_tokens=max\_completion\_tokens, max\_tokens=max\_tokens, metadata=metadata, modalities=modalities, n=n, parallel tool calls=parallel tool calls, prediction=prediction, presence penalty=presence penalty, seed=seed, service tier=service tier, stop=stop, store=store, stream options=stream options, temperature=temperature, tool choice=tool choice, tools=tools, top logprobs=top logprobs, top\_p=top\_p, user=user. extra\_headers=extra\_headers, extra\_query=extra\_query, extra\_body=extra\_body, timeout=timeout, ) return AsyncChatCompletionStreamManager( response format=response format, input tools=tools, class api request, def init (self. CompletionsWithRawResponse: completions: Completions) None: self.\_completions = completions self.parse = \_legacy\_response.to\_raw\_response\_wrapper( completions.parse, ) class AsyncCompletionsWithRawResponse: def init (self, completions: AsyncCompletions) -> None: self.\_completions = completions self.parse \_legacy\_response.async\_to\_raw\_response\_wrapper( completions.parse. ) class CompletionsWithStreamingResponse: def init (self, completions: Completions) -> None: self. completions = completions self.parse = to streamed response wrapper(completions.parse,) class AsyncCompletionsWithStreamingResponse: def completions: init (self, AsyncCompletions) self.\_completions completions self.parse None: = async\_to\_streamed\_response\_wrapper( completions.parse, )