`object` string

The type of object returned, must be `list`.

```
  ],
  "first_id": "msg_abc123",
  "last_id": "msg_abc123",
  "has_more": false
}
```

Streaming

When you create a Response with `stream` set to `true`, the server will emit server-sent events to the client as the Response is generated. This section contains the events that are emitted by the server.

Learn more about streaming responses.

response.created

An event that is emitted when a response is created.

`response` object

The response that was created.

Show properties

`type` string

The type of the event. Always `response.created`.

OBJECT response.created

```
{
  "type": "response.created",
  "response": {
    "id": "resp_67ccfcdd16748190a91872c75d3853
    "object": "response",
    "created_at": 1741487325,
    "status": "in_progress",
    "error": null,
    "incomplete_details": null,
    "instructions": null,
    "max_output_tokens": null,
    "model": "gpt-4o-2024-08-06",
    "output": [],
    "parallel_tool_calls": true,
    "previous_response_id": null,
    "reasoning": {
      "effort": null,
      "summary": null
    },
    "store": true,
    "temperature": 1,
    "text": {
      "format": {
        "type": "text"
      }
    },
    "tool_choice": "auto",
    "tools": [],
    "top_p": 1,
    "truncation": "disabled",
    "usage": null,
    "user": null,
    "metadata": {}
  }
}
```

response.in_progress

Emitted when the response is in progress.

`response` object

The response that is in progress.

Show properties

OBJECT response.in_progress

```
{
  "type": "response.in_progress",
  "response": {
    "id": "resp_67ccfcdd16748190a91872c75d3853
```

type string

The type of the event. Always `response.in_progress`.

```
    "object": "response",
    "created_at": 1741487325,
    "status": "in_progress",
    "error": null,
    "incomplete_details": null,
    "instructions": null,
    "max_output_tokens": null,
    "model": "gpt-4o-2024-08-06",
    "output": [],
    "parallel_tool_calls": true,
    "previous_response_id": null,
    "reasoning": {
      "effort": null,
      "summary": null
    },
    "store": true,
    "temperature": 1,
    "text": {
      "format": {
        "type": "text"
      }
    },
    "tool_choice": "auto",
    "tools": [],
    "top_p": 1,
    "truncation": "disabled",
    "usage": null,
    "user": null,
    "metadata": {}
  }
}
```

response.completed

Emitted when the model response is complete.

response object

Properties of the completed response.

Show properties

type string

The type of the event. Always `response.completed`.

OBJECT response.completed

```
{
  "type": "response.completed",
  "response": {
    "id": "resp_123",
    "object": "response",
    "created_at": 1740855869,
    "status": "completed",
    "error": null,
    "incomplete_details": null,
    "input": [],
    "instructions": null,
    "max_output_tokens": null,
    "model": "gpt-4o-mini-2024-07-18",
    "output": [
      {
        "id": "msg_123",
        "type": "message",
        "role": "assistant",
        "content": [
          {
            "type": "output_text",
            "text": "In a shimmering forest un
            "annotations": []
          }
        ]
      }
    ],
    "previous_response_id": null,
    "reasoning_effort": null,
    "store": false,
    "temperature": 1,
    "text": {
      "format": {
        "type": "text"
      }
    },
    "tool_choice": "auto",
    "tools": [],
    "top_p": 1,
    "truncation": "disabled",
    "usage": {
      "input_tokens": 0,
      "output_tokens": 0,
      "output_tokens_details": {
        "reasoning_tokens": 0
      },
      "total_tokens": 0
    },
    "user": null,
    "metadata": {}
  }
}
```

response.failed

An event that is emitted when a response fails.

`response` object

The response that failed.

Show properties

`type` string

The type of the event. Always `response.failed`.

OBJECT response.failed

```
{
  "type": "response.failed",
  "response": {
    "id": "resp_123",
    "object": "response",
    "created_at": 1740855869,
    "status": "failed",
    "error": {
      "code": "server_error",
      "message": "The model failed to generate
    },
    "incomplete_details": null,
    "instructions": null,
    "max_output_tokens": null,
    "model": "gpt-4o-mini-2024-07-18",
    "output": [],
    "previous_response_id": null,
    "reasoning_effort": null,
    "store": false,
    "temperature": 1,
    "text": {
      "format": {
        "type": "text"
      }
    },
    "tool_choice": "auto",
    "tools": [],
    "top_p": 1,
    "truncation": "disabled",
    "usage": null,
    "user": null,
    "metadata": {}
  }
}
```

response.incomplete

An event that is emitted when a response finishes as incomplete.

OBJECT response.incomplete

response object

The response that was incomplete.

Show properties

type string

The type of the event. Always `response.incomplete`.

```
{
  "type": "response.incomplete",
  "response": {
    "id": "resp_123",
    "object": "response",
    "created_at": 1740855869,
    "status": "incomplete",
    "error": null,
    "incomplete_details": {
      "reason": "max_tokens"
    },
    "instructions": null,
    "max_output_tokens": null,
    "model": "gpt-4o-mini-2024-07-18",
    "output": [],
    "previous_response_id": null,
    "reasoning_effort": null,
    "store": false,
    "temperature": 1,
    "text": {
      "format": {
        "type": "text"
      }
    },
    "tool_choice": "auto",
    "tools": [],
    "top_p": 1,
    "truncation": "disabled",
    "usage": null,
    "user": null,
    "metadata": {}
  }
}
```

response.output_item.added

Emitted when a new output item is added.

item object

The output item that was added.

Show possible types

output_index integer

The index of the output item that was added.

type string

The type of the event. Always `response.output_item.added`.

OBJECT response.output_item.added

```
{
  "type": "response.output_item.added",
  "output_index": 0,
  "item": {
    "id": "msg_123",
    "status": "in_progress",
    "type": "message",
    "role": "assistant",
    "content": []
  }
}
```

response.output_item.done

Emitted when an output item is marked done.

item object

The output item that was marked done.

Show possible types

output_index integer

The index of the output item that was marked done.

type string

OBJECT response.output_item.done

```
{
  "type": "response.output_item.done",
  "output_index": 0,
  "item": {
    "id": "msg_123",
    "status": "completed",
    "type": "message",
    "role": "assistant",
    "content": [
      {
```

The type of the event. Always `response.output_item.done`.

```
        "type": "output_text",
        "text": "In a shimmering forest under a
        "annotations": []
      }
    ]
  }
}
```

response.content_part.added

Emitted when a new content part is added.

`content_index` integer

The index of the content part that was added.

`item_id` string

The ID of the output item that the content part was added to.

`output_index` integer

The index of the output item that the content part was added to.

`part` object

The content part that was added.

Show possible types

`type` string

The type of the event. Always `response.content_part.added`.

OBJECT response.content_part.added

```
{
  "type": "response.content_part.added",
  "item_id": "msg_123",
  "output_index": 0,
  "content_index": 0,
  "part": {
    "type": "output_text",
    "text": "",
    "annotations": []
  }
}
```

response.content_part.done

Emitted when a content part is done.

`content_index` integer

The index of the content part that is done.

`item_id` string

The ID of the output item that the content part was added to.

`output_index` integer

The index of the output item that the content part was added to.

`part` object

The content part that is done.

Show possible types

`type` string

The type of the event. Always `response.content_part.done`.

OBJECT response.content_part.done

```
{
  "type": "response.content_part.done",
  "item_id": "msg_123",
  "output_index": 0,
  "content_index": 0,
  "part": {
    "type": "output_text",
    "text": "In a shimmering forest under a sky
    "annotations": []
  }
}
```

response.output_text.delta

Emitted when there is an additional text delta.

`content_index` integer

The index of the content part that the text delta was added to.

`delta` string

OBJECT response.output_text.delta

```
{
  "type": "response.output_text.delta",
  "item_id": "msg_123",
  "output_index": 0,
  "content_index": 0,
```

The text delta that was added.

```
  "delta": "In"
}
```

item_id string

The ID of the output item that the text delta was added to.

output_index integer

The index of the output item that the text delta was added to.

type string

The type of the event. Always `response.output_text.delta` .

response.output_text.annotation.added

Emitted when a text annotation is added.

annotation object

Show possible types

annotation_index integer

The index of the annotation that was added.

content_index integer

The index of the content part that the text annotation was added to.

item_id string

The ID of the output item that the text annotation was added to.

output_index integer

The index of the output item that the text annotation was added to.

type string

The type of the event. Always `response.output_text.annotation.added` .

OBJECT response.output_text.annotation.added

```
{
  "type": "response.output_text.annotation.adde
  "item_id": "msg_abc123",
  "output_index": 1,
  "content_index": 0,
  "annotation_index": 0,
  "annotation": {
    "type": "file_citation",
    "index": 390,
    "file_id": "file-4wDz5b167pAf72nx1h9eiN",
    "filename": "dragons.pdf"
  }
}
```

response.output_text.done

Emitted when text content is finalized.

content_index integer

The index of the content part that the text content is finalized.

item_id string

The ID of the output item that the text content is finalized.

output_index integer

The index of the output item that the text content is finalized.

text string

The text content that is finalized.

type string

The type of the event. Always `response.output_text.done` .

OBJECT response.output_text.done

```
{
  "type": "response.output_text.done",
  "item_id": "msg_123",
  "output_index": 0,
  "content_index": 0,
  "text": "In a shimmering forest under a sky fu
}
```

response.refusal.delta

Emitted when there is a partial refusal text.

`content_index` integer
The index of the content part that the refusal text is added to.

`delta` string
The refusal text that is added.

`item_id` string
The ID of the output item that the refusal text is added to.

`output_index` integer
The index of the output item that the refusal text is added to.

`type` string
The type of the event. Always `response.refusal.delta`.

OBJECT response.refusal.delta

```
{
  "type": "response.refusal.delta",
  "item_id": "msg_123",
  "output_index": 0,
  "content_index": 0,
  "delta": "refusal text so far"
}
```

response.refusal.done

Emitted when refusal text is finalized.

`content_index` integer
The index of the content part that the refusal text is finalized.

`item_id` string
The ID of the output item that the refusal text is finalized.

`output_index` integer
The index of the output item that the refusal text is finalized.

`refusal` string
The refusal text that is finalized.

`type` string
The type of the event. Always `response.refusal.done`.

OBJECT response.refusal.done

```
{
  "type": "response.refusal.done",
  "item_id": "item-abc",
  "output_index": 1,
  "content_index": 2,
  "refusal": "final refusal text"
}
```

response.function_call_arguments.delta

Emitted when there is a partial function-call arguments delta.

`delta` string
The function-call arguments delta that is added.

`item_id` string
The ID of the output item that the function-call arguments delta is added to.

`output_index` integer
The index of the output item that the function-call arguments delta is added to.

`type` string
The type of the event. Always `response.function_call_arguments.delta`.

OBJECT response.function_call_arguments.delta

```
{
  "type": "response.function_call_arguments.del
  "item_id": "item-abc",
  "output_index": 0,
  "delta": "{ \"arg\":"
}
```

response.function_call_arguments.done

Emitted when function-call arguments are finalized.

`arguments` string
The function-call arguments.

`item_id` string
The ID of the item.

`output_index` integer
The index of the output item.

`type` string

OBJECT response.function_call_arguments.done

```
{
  "type": "response.function_call_arguments.don
  "item_id": "item-abc",
  "output_index": 1,
  "arguments": "{ \"arg\": 123 }"
}
```

response.file_search_call.in_progress

Emitted when a file search call is initiated.

`item_id` string
The ID of the output item that the file search call is initiated.

`output_index` integer
The index of the output item that the file search call is initiated.

`type` string
The type of the event. Always `response.file_search_call.in_progress` .

OBJECT response.file_search_call.in_progress

```
{
  "type": "response.file_search_call.in_progres
  "output_index": 0,
  "item_id": "fs_123",
}
```

response.file_search_call.searching

Emitted when a file search is currently searching.

`item_id` string
The ID of the output item that the file search call is initiated.

`output_index` integer
The index of the output item that the file search call is searching.

`type` string
The type of the event. Always `response.file_search_call.searching` .

OBJECT response.file_search_call.searching

```
{
  "type": "response.file_search_call.searching"
  "output_index": 0,
  "item_id": "fs_123",
}
```

response.file_search_call.completed

Emitted when a file search call is completed (results found).

`item_id` string
The ID of the output item that the file search call is initiated.

`output_index` integer
The index of the output item that the file search call is initiated.

OBJECT response.file_search_call.completed

```
{
  "type": "response.file_search_call.completed"
  "output_index": 0,
  "item_id": "fs_123",
}
```

type string
The type of the event. Always `response.file_search_call.completed`.

response.web_search_call.in_progress

Emitted when a web search call is initiated.

item_id string
Unique ID for the output item associated with the web search call.

output_index integer
The index of the output item that the web search call is associated with.

type string
The type of the event. Always `response.web_search_call.in_progress`.

```
OBJECT response.web_search_call.in_progress
{
  "type": "response.web_search_call.in_progress"
  "output_index": 0,
  "item_id": "ws_123",
}
```

response.web_search_call.searching

Emitted when a web search call is executing.

item_id string
Unique ID for the output item associated with the web search call.

output_index integer
The index of the output item that the web search call is associated with.

type string
The type of the event. Always `response.web_search_call.searching`.

```
OBJECT response.web_search_call.searching
{
  "type": "response.web_search_call.searching",
  "output_index": 0,
  "item_id": "ws_123",
}
```

response.web_search_call.completed

Emitted when a web search call is completed.

item_id string
Unique ID for the output item associated with the web search call.

output_index integer
The index of the output item that the web search call is associated with.

type string
The type of the event. Always `response.web_search_call.completed`.

```
OBJECT response.web_search_call.completed
{
  "type": "response.web_search_call.completed",
  "output_index": 0,
  "item_id": "ws_123",
}
```

response.reasoning_summary_part.added

Emitted when a new reasoning summary part is added.

item_id string
The ID of the item this summary part is associated with.

output_index integer

```
OBJECT response.reasoning_summary_part.added
 {
   "type": "response.reasoning_summary_part.adde
   "item_id": "rs_6806bfca0b2481918a5748308061a
   "output_index": 0,
   "summary_index": 0,
```

The index of the output item this summary part is associated with.

`part` object

The summary part that was added.

Show properties

`summary_index` integer

The index of the summary part within the reasoning summary.

`type` string

The type of the event. Always `response.reasoning_summary_part.added`.

```
  "part": {
    "type": "summary_text",
    "text": ""
  }
}
```

response.reasoning_summary_part.done

Emitted when a reasoning summary part is completed.

`item_id` string

The ID of the item this summary part is associated with.

`output_index` integer

The index of the output item this summary part is associated with.

`part` object

The completed summary part.

Show properties

`summary_index` integer

The index of the summary part within the reasoning summary.

`type` string

The type of the event. Always `response.reasoning_summary_part.done`.

OBJECT response.reasoning_summary_part.done

```
{
  "type": "response.reasoning_summary_part.done
  "item_id": "rs_6806bfca0b2481918a5748308061a
  "output_index": 0,
  "summary_index": 0,
  "part": {
    "type": "summary_text",
    "text": "**Responding to a greeting**\n\nT
  }
}
```

response.reasoning_summary_text.delta

Emitted when a delta is added to a reasoning summary text.

`delta` string

The text delta that was added to the summary.

`item_id` string

The ID of the item this summary text delta is associated with.

`output_index` integer

The index of the output item this summary text delta is associated with.

`summary_index` integer

The index of the summary part within the reasoning summary.

`type` string

The type of the event. Always `response.reasoning_summary_text.delta`.

OBJECT response.reasoning_summary_text.delta

```
{
  "type": "response.reasoning_summary_text.delt
  "item_id": "rs_6806bfca0b2481918a5748308061a2
  "output_index": 0,
  "summary_index": 0,
  "delta": "**Respond"
}
```

response.reasoning_summary_text.done

Emitted when a reasoning summary text is completed.

`item_id` string
The ID of the item this summary text is associated with.

`output_index` integer
The index of the output item this summary text is associated with.

`summary_index` integer
The index of the summary part within the reasoning summary.

`text` string
The full text of the completed reasoning summary.

`type` string
The type of the event. Always `response.reasoning_summary_text.done`.

OBJECT response.reasoning_summary_text.done

```
{
  "type": "response.reasoning_summary_text.done'
  "item_id": "rs_6806bfca0b2481918a5748308061a2
  "output_index": 0,
  "summary_index": 0,
  "text": "**Responding to a greeting**\n\nThe
}
```

error

Emitted when an error occurs.

`code` string or null
The error code.

`message` string
The error message.

`param` string or null
The error parameter.

`type` string
The type of the event. Always `error`.

OBJECT error

```
{
  "type": "error",
  "code": "ERR_SOMETHING",
  "message": "Something went wrong",
  "param": null
}
```

Chat Completions

The Chat Completions API endpoint will generate a model response from a list of messages comprising a conversation.

Related guides:

- Quickstart
- Text inputs and outputs
- Image inputs
- Audio inputs and outputs
- Structured Outputs
- Function calling
- Conversation state

Starting a new project? We recommend trying Responses to take advantage of the latest OpenAI platform features. Compare Chat Completions with Responses.