

```
> [!NOTE]
> **Beta** : This API is in Beta. Endpoints are under `/v1beta/`.
```

Triggers allow you to schedule agent executions on a cron schedule, enabling automated and recurring tasks.
[View as markdown](https://ai.google.dev/static/api/triggers.md.txt) [View the OpenAPI Spec](https://ai.google.dev/static/api/interactions.openapi.json)

CreateTrigger

post https://generativelanguage.googleapis.com/v1beta/triggers Creates a new trigger that will invoke the specified agent on the given cron schedule.

- [Request body](https://ai.google.dev/api/triggers#CreateTrigger.request_body)
- [Response](https://ai.google.dev/api/triggers#CreateTrigger.response)

Request body

The request body contains data with the following structure:

display_name string (optional) Optional. The display name of the trigger.
environment_id string (optional) Optional. The environment ID for the trigger execution.
execution_timeout_seconds integer (optional) Optional. The execution timeout for the triggered interaction.
interaction CreateAgentInteractionParams or CreateModelInteractionParams (required) Required. The interaction request template to be executed.
max_consecutive_failures integer (optional) Optional. The maximum number of consecutive failures allowed before the trigger is automatically paused (status becomes ERROR).
schedule string (required) Required. The cron schedule on which the trigger should run. Standard cron format.
time_zone string (required) Required. Time zone in which the schedule should be interpreted.

Response

If successful, the response body contains data with the following structure:

consecutive_failure_count integer (optional) Output only. The number of consecutive failures that have occurred since the last successful execution.
create_time string (optional) Output only. The time when the trigger was created.
display_name string (optional) Optional. The display name of the trigger.
environment_id string (optional) Optional. The environment ID for the trigger execution.
execution_timeout_seconds integer (optional) Optional. The execution timeout for the triggered interaction.
id string (optional) Required. Output only. Identifier. The ID of the trigger.
interaction Interaction (optional) Required. The interaction request template to be executed.
The Interaction resource.

Fields

agent AgentOption (optional) The name of the \Agent\ used for generating the interaction. The agent to interact with.

Possible values

- `deep-research-pro-preview-12-2025`

Gemini Deep Research Agent

- `deep-research-preview-04-2026`

Gemini Deep Research Agent

- `deep-research-max-preview-04-2026`

Gemini Deep Research Max Agent

- `antigravity-preview-05-2026`

Use the Antigravity managed agent to perform multi-step tasks that require reasoning, file operations, and tool use.

agent_config object (optional) Configuration parameters for the agent interaction.

Possible Types

Polymorphic discriminator: `type`

DynamicAgentConfig Configuration for dynamic agents.

type object (required) No description provided.

Always set to `"dynamic"`.

DeepResearchAgentConfig Configuration for the Deep Research agent.

collaborative_planning boolean (optional) Enables human-in-the-loop planning for the Deep Research agent. If set to

true, the Deep Research agent will provide a research plan in its response.

The agent will then proceed only if the user confirms the plan in the next turn.

enable_bigquery_tool boolean (optional) Enables bigquery tool for the Deep Research agent.

thinking_summaries ThinkingSummaries (optional) Whether to include thought summaries in the response.

Possible values

- `auto`

Auto thinking summaries.

- `none`

No thinking summaries.

type object (required) No description provided.

Always set to `"deep-research"`.

visualization enum (string) (optional) Whether to include visualizations in the response.

Possible

values:

- `off`

Do not include visualizations.

- `auto`

Automatically include visualizations.

CodeMenderAgentConfig Configuration for the CodeMender agent.

find_request FindRequest (optional) Parameters for finding vulnerabilities.

Request parameters specific to FIND sessions, used for discovering vulnerabilities in a codebase.

Fields

description string (optional) Additional context or custom instructions provided by the user to guide

the vulnerability analysis.

finding_id string (optional) The identifier of a specific finding to verify. This is primarily used in

VERIFY mode to focus the agent's execution-based validation on a single vulnerability.

mode enum (string) (optional) The mode of the find session.

Possible

values:

- `scan`

Fast scan using only the initial classifier.
- `verify`

Performs classification followed by detailed investigation.
source_files FileContent (optional) A list of source files to provide as context for the scan.
Content of a single file in the codebase.

Fields

content string (optional) The UTF-8 encoded text content of the file.
path string (optional) The relative path of the file from the project root.
fix_request FixRequest (optional) Parameters for fixing vulnerabilities.
Request parameters specific to FIX sessions, used for generating and validating security patches.

Fields

description string (optional) Additional context or custom instructions provided by the user to guide the patch generation process.
finding_id string (optional) The identifier of the specific security finding to be remediated. This ID maps to a previously discovered vulnerability.
source_files FileContent (optional) A list of source files providing context for the remediation. These files are typically the ones containing the identified vulnerability.
Content of a single file in the codebase.

Fields

content string (optional) The UTF-8 encoded text content of the file.
path string (optional) The relative path of the file from the project root.
model string (optional) The name of the model to use for the CodeMender agent. One CodeMender session will only use one model.
session_config SessionConfig (optional) Optional session-specific configurations to override default agent behavior.
The configuration of CodeMender sessions.

Fields

max_rounds integer (optional) The maximum number of interaction rounds the agent is allowed to perform before reaching a timeout.
session_id string (optional) Parameter for grouping multiple interactions that belong to the same CodeMender session.
type object (required) No description provided.

Always set to `code-mender`.
AntigravityAgentConfig Configuration for the Antigravity agent runtime.
Provides server-side control over the agent's execution environment and tool configuration.
max_total_tokens string (optional) Max total tokens for the agent run.
type object (required) No description provided.

Always set to `antigravity`.
created string (optional) Output only. The time at which the response was created in ISO 8601 format (YYYY-MM-DDThh:mm:ssZ).
environment EnvironmentConfig (optional) The environment configuration for the interaction. Can be an object specifying remote environment sources or a string referencing an existing environment ID.
Configuration for a custom environment.

Fields

environment_id string (optional) Optional. The environment ID for the interaction. If specified, the request will update the existing environment instead of creating a new one.

network EnvironmentNetworkEgressAllowlist (optional) Network configuration for the environment.

Outbound networking configuration for the sandbox. Accepts an object with an 'allowlist' array to restrict traffic, or the string 'disabled' to turn off all network access. Omit entirely to allow all outbound traffic with no header injection.

Possible Types

object Outbound networking configuration for the sandbox. When specified, restricts which external domains the sandbox can reach. Omit entirely to allow all outbound traffic with no header injection.

allowlist AllowlistEntry (optional) List of allowed outbound domains. Only requests to listed domains are permitted. Use \['domain': '*'\] to allow all domains while still injecting headers on specific ones.

A single domain allowlist rule with optional header injection.

Fields

domain string (optional) Domain to allow outbound requests to. Supports wildcards (e.g. '*.googleapis.com'). Use '*' to allow all domains.

transform array (object) or object (optional) Headers to inject on all outbound requests matching this domain. Accepts a single dict or a list of dicts. The egress proxy injects these automatically.

string Turns all network off.

Possible values

- 'disabled'

Turns all network off.

sources Source (optional) No description provided.

A source to be mounted into the environment.

Fields

content string (optional) The inline content if 'type' is 'INLINE'.

encoding string (optional) Optional encoding for inline content (e.g. 'base64').

source string (optional) The source of the environment.

For GCS, this is the GCS path.

For GitHub, this is the GitHub path.

target string (optional) Where the source should appear in the environment.

type enum (string) (optional) No description provided.

Possible values:

- 'gcs'

A GCS bucket.

- 'inline'

Inline content.

- 'repository'

A generic repository. The protocol prefix in the source URL identifies the provider (e.g., github://, gcs://).

- 'skill_registry'

A skill resource from the Skill Registry Service.

Skill: projects/{project}/locations/{location}/skills/{skill}

SkillRevision:
projects/{project}/locations/{location}/skills/{skill}/revisions/{revision}
Support mounting all skills under a project:
projects/{project}/locations/{location}/skills.
type object (optional) No description provided.

Always set to `"remote"`.
environment_id string (optional) Output only. The environment ID for the interaction. Only populated if environment config is set in the request.
id string (optional) Required. Output only. A unique identifier for the interaction completion.

Defaults to:
input Content or array (Content) or array (Step) or array (Turn) or string (optional) The input for the interaction.
labels object (optional) The labels with user-defined metadata for the request.
model ModelOption (optional) The name of the `Model` used for generating the interaction. The model that will complete your prompt.\\n\\nSee [models](https://ai.google.dev/gemini-api/docs/models) for additional details.

Possible values

- `gemini-2.5-flash`

Our first hybrid reasoning model which supports a 1M token context window and has thinking budgets.

- `gemini-2.5-pro`

Our state-of-the-art multipurpose model, which excels at coding and complex reasoning tasks.

- `gemma-4-26b-a4b-it`

Gemma 4 26B A4B IT

- `gemma-4-31b-it`

Gemma 4 31B IT

- `gemini-flash-latest`

Latest release of Gemini Flash

- `gemini-flash-lite-latest`

Latest release of Gemini Flash-Lite

- `gemini-pro-latest`

Latest release of Gemini Pro

- `gemini-2.5-flash-lite`

Our smallest and most cost effective model, built for at scale usage.

- `gemini-2.5-flash-image`

Our native image generation model, optimized for speed, flexibility, and contextual understanding. Text input and output is priced the same as 2.5 Flash.

- `gemini-3-flash-preview`

Our most intelligent model built for speed, combining frontier intelligence with superior search and grounding.

- `gemini-3.1-pro-preview`

Our latest SOTA reasoning model with unprecedented depth and nuance, and powerful multimodal understanding and coding capabilities.

- `gemini-3.1-pro-preview-customtools`

Gemini 3.1 Pro Preview optimized for custom tool usage

- `gemini-3.1-flash-lite`

Our most cost-efficient model, optimized for high-volume agentic tasks, translation, and simple data processing.

- `gemini-3-pro-image`

Gemini 3 Pro Image

- `nano-banana-pro-preview`

Gemini 3 Pro Image Preview

- `gemini-3.1-flash-image`

Gemini 3.1 Flash Image.

- `gemini-3.5-flash`

Our most intelligent model for sustained frontier performance in agentic and coding tasks.

- `lyria-3-clip-preview`

Our low-latency, music generation model optimized for high-fidelity audio clips and precise rhythmic control.

- `lyria-3-pro-preview`

Our advanced, full-song generative model with deep compositional understanding, optimized for precise structural control and complex transitions across diverse musical styles.

- `gemini-robotics-er-1.6-preview`

Gemini Robotics-ER 1.6 Preview

output_audio AudioContent (optional) The last audio generated by the model in response to the current request.

Note: this is added by the SDK.

An audio content block.

Fields

channels integer (optional) The number of audio channels.

data string (optional) The audio content.

mime_type enum (string) (optional) The mime type of the audio.

Possible

values:

- `audio/wav`

WAV audio format

- `audio/mp3`

MP3 audio format

- `audio/aiff`

AIFF audio format

- `audio/aac`

AAC audio format

- `audio/ogg`

OGG audio format

- `audio/flac`

FLAC audio format

- `audio/mpeg`

MPEG audio format

- `audio/m4a`

M4A audio format

- `audio/l16`

L16 audio format

- `audio/opus`

OPUS audio format

- `audio/alaw`

ALAW audio format

- `audio/mulaw`

MULAW audio format

sample_rate integer (optional) The sample rate of the audio.

type object (optional) No description provided.

Always set to `"audio"`.

uri string (optional) The URI of the audio.

output_image ImageContent (optional) The last image generated by the model in response to the current request.

Note: this is added by the SDK.

An image content block.

Fields

data string (optional) The image content.

mime_type enum (string) (optional) The mime type of the image.

Possible

values:

- `image/png`

PNG image format

- `image/jpeg`

JPEG image format

- `image/webp`

WebP image format

- `image/heic`

HEIC image format

- `image/heif`

HEIF image format

- `image/gif`

GIF image format

- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format

resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.
- `high`

High resolution.
- `ultra\_high`

Ultra high resolution.
type object (optional) No description provided.

Always set to `"image"`.
uri string (optional) The URI of the image.
output_text string (optional) Concatenated text from the last model output in response to the current request.

Note: this is added by the SDK.
output_video VideoContent (optional) The last video generated by the model in response to the current request.

Note: this is added by the SDK.
A video content block.

Fields

data string (optional) The video content.
mime_type enum (string) (optional) The mime type of the video.

Possible
values:

- `video/mp4`

MP4 video format
- `video/mpeg`

MPEG video format
- `video/mpg`

MPG video format
- `video/mov`

MOV video format
- `video/avi`

AVI video format
- `video/x-flv`

FLV video format
- `video/webm`

WebM video format
- `video/wmv`

WMV video format
- `video/3gpp`

3GPP video format
resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.
- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (optional) No description provided.

Always set to `"video"`.

uri string (optional) The URI of the video.

previous_interaction_id string (optional) The ID of the previous interaction, if any.

response_format ResponseFormat (optional) Enforces that the generated response is a JSON object that complies with the JSON schema specified in this field.

Possible Types

AudioResponseFormat Configuration for audio output format.

bit_rate integer (optional) Bit rate in bits per second (bps). Only applicable for compressed formats

(MP3, Opus).

delivery enum (string) (optional) The delivery mode for the audio output.

Possible

values:

- `inline`

Audio data is returned inline in the response.

- `uri`

Audio data is returned as a URI.

mime_type enum (string) (optional) The MIME type of the audio output.

Possible

values:

- `audio/mp3`

MP3 audio format.

- `audio/ogg\_opus`

OGG Opus audio format.

- `audio/l16`

Raw PCM (L16) audio format.

- `audio/wav`

WAV audio format.

- `audio/alaw`

A-law audio format.

- `audio/mulaw`

Mu-law audio format.

sample_rate integer (optional) Sample rate in Hz.

type object (required) No description provided.

Always set to `"audio"`.

TextResponseFormat Configuration for text output format.

mime_type enum (string) (optional) The MIME type of the text output.

Possible

values:

- `application/json`

JSON output format.

- `text/plain`

Plain text output format.

schema object (optional) The JSON schema that the output should conform to. Only applicable when

mime_type is application/json.

type object (required) No description provided.

Always set to `"text"`.

ImageResponseFormat Configuration for image output format.

aspect_ratio enum (string) (optional) The aspect ratio for the image output.

Possible

values:

- `1:1`

1:1 aspect ratio.

- `2:3`

2:3 aspect ratio.

- `3:2`

3:2 aspect ratio.

- `3:4`

3:4 aspect ratio.

- `4:3`

4:3 aspect ratio.

- `4:5`

4:5 aspect ratio.

- `5:4`

5:4 aspect ratio.

- `9:16`

9:16 aspect ratio.

- `16:9`

16:9 aspect ratio.

- `21:9`

21:9 aspect ratio.

- `1:8`

1:8 aspect ratio.

- `8:1`

8:1 aspect ratio.

- `1:4`

1:4 aspect ratio.

- `4:1`

4:1 aspect ratio.

delivery enum (string) (optional) The delivery mode for the image output.

Possible

values:

- `inline`

Image data is returned inline in the response.

- `uri`

Image data is returned as a URI.

image_size enum (string) (optional) The size of the image output.

Possible

values:

- `512`

512px image size.

- `1K`

1K image size.

- `2K`

2K image size.

- `4K`

4K image size.

mime_type enum (string) (optional) The MIME type of the image output.

Possible

values:

- `image/jpeg`

JPEG image format.

type object (required) No description provided.

Always set to `"image"`.

VideoResponseFormat Configuration for video output format.

aspect_ratio enum (string) (optional) The aspect ratio for the video output.

Possible

values:

- `16:9`

16:9 aspect ratio.

- `9:16`

9:16 aspect ratio.

delivery enum (string) (optional) The delivery mode for the video output.

Possible

values:

- `inline`

Video data is returned inline in the response.

- `uri`

Video data is returned as a URI.

duration string (optional) The duration for the video output.

gcs_uri string (optional) The GCS URI to store the video output. Required for Vertex if delivery mode

is URI.

type object (required) No description provided.

Always set to `"video"`.

`response_modalities` `ResponseModality` (optional) The requested modalities of the response (TEXT, IMAGE, AUDIO).

Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

`safety_settings` `SafetySetting` (optional) Safety settings for the interaction.

A safety setting that affects the safety-blocking behavior.

A `SafetySetting` consists of a harm category and a threshold for that category.

Fields

`method` `enum` (string) (optional) Optional. The method for blocking content. If not specified, the default behavior is to use the probability score.

Possible values:

- `severity`

The harm block method uses both probability and severity scores.

- `probability`

The harm block method uses the probability score.

`threshold` `enum` (string) (optional) Required. The threshold for blocking content. If the harm probability exceeds this threshold, the content will be blocked.

Possible values:

- `block\_low\_and\_above`

Block content with a low harm probability or higher.

- `block\_medium\_and\_above`

Block content with a medium harm probability or higher.

- `block\_only\_high`

Block content with a high harm probability.

- `block\_none`

Do not block any content, regardless of its harm probability.

- `off`

Turn off the safety filter entirely.
type HarmCategory (optional) Required. The type of harm category to be blocked.

Possible values

- `hate\_speech`
Content that promotes violence or incites hatred against individuals or groups based on certain attributes.
- `dangerous\_content`
Content that promotes, facilitates, or enables dangerous activities.
- `harassment`
Abusive, threatening, or content intended to bully, torment, or ridicule.
- `sexually\_explicit`
Content that contains sexually explicit material.
- `civic\_integrity`
Deprecated: Election filter is not longer supported.
The harm category is civic integrity.
- `image\_hate`
Images that contain hate speech.
- `image\_dangerous\_content`
Images that contain dangerous content.
- `image\_harassment`
Images that contain harassment.
- `image\_sexually\_explicit`
Images that contain sexually explicit content.
- `jailbreak`

Prompts designed to bypass safety filters.
service_tier ServiceTier (optional) The service tier for the interaction.

Possible values

- `flex`
Flex service tier.
- `standard`
Standard service tier.
- `priority`
Priority service tier.

status enum (string) (optional) Required. Output only. The status of the interaction.

Possible
values:

- `in\_progress`
The interaction is in progress.
- `requires\_action`
The interaction requires action/input from the user.
- `completed`

The interaction is completed.
- `failed`

The interaction failed.
- `cancelled`

The interaction was cancelled.
- `incomplete`

The interaction is completed, but contains incomplete results (e.g. hitting max_tokens).
- `budget\_exceeded`

The interaction was halted because the token budget was exceeded.
steps Step (optional) Output only. The steps that make up the interaction, when included in the response.

A step in the interaction.

Possible Types

Polymorphic discriminator: `type`
UserInputStep Input provided by the user.
content Content (optional) No description provided.
The content of the response.

Possible Types

Polymorphic discriminator: `type`
TextContent A text content block.
annotations Annotation (optional) Citation information for model-generated content.
Citation information for model-generated content.

Possible Types

Polymorphic discriminator: `type`
UrlCitation A URL citation annotation.
end_index integer (optional) End of the attributed segment, exclusive.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
title string (optional) The title of the URL.
type object (required) No description provided.

Always set to `"url\_citation"`.
url string (optional) The URL.
FileCitation A file citation annotation.
custom_metadata object (optional) User provided metadata about the retrieved context.
document_uri string (optional) The URI of the file.
end_index integer (optional) End of the attributed segment, exclusive.
file_name string (optional) The name of the file.
media_id string (optional) Media ID in-case of image citations, if applicable.
page_number integer (optional) Page number of the cited document, if applicable.
source string (optional) Source attributed for a portion of the text.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
type object (required) No description provided.

Always set to `"file\_citation"`.
PlaceCitation A place citation annotation.
end_index integer (optional) End of the attributed segment, exclusive.
name string (optional) Title of the place.

place_id string (optional) The ID of the place, in ``places/{place\_id}`` format.
review_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate answers about the features of a given place in Google Maps.
Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

Fields

review_id string (optional) The ID of the review snippet.
title string (optional) Title of the review.
url string (optional) A link that corresponds to the user review on Google Maps.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
type object (required) No description provided.

Always set to ``"place\_citation"``.
url string (optional) URI reference of the place.
text string (required) Required. The text content.
type object (required) No description provided.

Always set to ``"text"``.
ImageContent An image content block.
data string (optional) The image content.
mime_type enum (string) (optional) The mime type of the image.

Possible
values:

- ``image/png``

PNG image format

- ``image/jpeg``

JPEG image format

- ``image/webp``

WebP image format

- ``image/heic``

HEIC image format

- ``image/heif``

HEIF image format

- ``image/gif``

GIF image format

- ``image/bmp``

BMP image format

- ``image/tiff``

TIFF image format

resolution MediaResolution (optional) The resolution of the media.

Possible values

- ``low``

Low resolution.

- ``medium``

Medium resolution.
- `high`

High resolution.
- `ultra\_high`

Ultra high resolution.
type object (required) No description provided.

Always set to `"image"`.
uri string (optional) The URI of the image.
AudioContent An audio content block.
channels integer (optional) The number of audio channels.
data string (optional) The audio content.
mime_type enum (string) (optional) The mime type of the audio.

Possible
values:

- `audio/wav`

WAV audio format
- `audio/mp3`

MP3 audio format
- `audio/aiff`

AIFF audio format
- `audio/aac`

AAC audio format
- `audio/ogg`

OGG audio format
- `audio/flac`

FLAC audio format
- `audio/mpeg`

MPEG audio format
- `audio/m4a`

M4A audio format
- `audio/l16`

L16 audio format
- `audio/opus`

OPUS audio format
- `audio/alaw`

ALAW audio format
- `audio/mulaw`

MULAW audio format
sample_rate integer (optional) The sample rate of the audio.
type object (required) No description provided.

Always set to `"audio"`.
uri string (optional) The URI of the audio.
DocumentContent A document content block.
data string (optional) The document content.
mime_type enum (string) (optional) The mime type of the document.

Possible

values:

- `application/pdf`

PDF document format

- `text/csv`

CSV document format

type object (required) No description provided.

Always set to `"document"`.

uri string (optional) The URI of the document.

VideoContent A video content block.

data string (optional) The video content.

mime_type enum (string) (optional) The mime type of the video.

Possible

values:

- `video/mp4`

MP4 video format

- `video/mpeg`

MPEG video format

- `video/mpg`

MPG video format

- `video/mov`

MOV video format

- `video/avi`

AVI video format

- `video/x-flv`

FLV video format

- `video/webm`

WebM video format

- `video/wmv`

WMV video format

- `video/3gpp`

3GPP video format

resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (required) No description provided.

Always set to `"video"`.
uri string (optional) The URI of the video.
type object (required) No description provided.

Always set to `"user\_input"`.
ModelOutputStep Output generated by the model.
content Content (optional) No description provided.
The content of the response.

Possible Types

Polymorphic discriminator: `type`
TextContent A text content block.
annotations Annotation (optional) Citation information for model-generated content.
Citation information for model-generated content.

Possible Types

Polymorphic discriminator: `type`
UrlCitation A URL citation annotation.
end_index integer (optional) End of the attributed segment, exclusive.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
title string (optional) The title of the URL.
type object (required) No description provided.

Always set to `"url\_citation"`.
url string (optional) The URL.
FileCitation A file citation annotation.
custom_metadata object (optional) User provided metadata about the retrieved context.
document_uri string (optional) The URI of the file.
end_index integer (optional) End of the attributed segment, exclusive.
file_name string (optional) The name of the file.
media_id string (optional) Media ID in-case of image citations, if applicable.
page_number integer (optional) Page number of the cited document, if applicable.
source string (optional) Source attributed for a portion of the text.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
type object (required) No description provided.

Always set to `"file\_citation"`.
PlaceCitation A place citation annotation.
end_index integer (optional) End of the attributed segment, exclusive.
name string (optional) Title of the place.
place_id string (optional) The ID of the place, in `places/{place\_id}` format.
review_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate answers about the features of a given place in Google Maps.
Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

Fields

review_id string (optional) The ID of the review snippet.
title string (optional) Title of the review.
url string (optional) A link that corresponds to the user review on Google Maps.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
type object (required) No description provided.

Always set to `"place\_citation"`.
url string (optional) URI reference of the place.
text string (required) Required. The text content.
type object (required) No description provided.

Always set to `"text"`.
ImageContent An image content block.
data string (optional) The image content.
mime_type enum (string) (optional) The mime type of the image.

Possible
values:

- `image/png`

PNG image format

- `image/jpeg`

JPEG image format

- `image/webp`

WebP image format

- `image/heic`

HEIC image format

- `image/heif`

HEIF image format

- `image/gif`

GIF image format

- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format

resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (required) No description provided.

Always set to `"image"`.
uri string (optional) The URI of the image.
AudioContent An audio content block.
channels integer (optional) The number of audio channels.
data string (optional) The audio content.
mime_type enum (string) (optional) The mime type of the audio.

Possible

values:

- `audio/wav`
WAV audio format
- `audio/mp3`
MP3 audio format
- `audio/aiff`
AIFF audio format
- `audio/aac`
AAC audio format
- `audio/ogg`
OGG audio format
- `audio/flac`
FLAC audio format
- `audio/mpeg`
MPEG audio format
- `audio/m4a`
M4A audio format
- `audio/l16`
L16 audio format
- `audio/opus`
OPUS audio format
- `audio/alaw`
ALAW audio format
- `audio/mulaw`
MULAW audio format

sample_rate integer (optional) The sample rate of the audio.

type object (required) No description provided.

Always set to `"audio"`.

uri string (optional) The URI of the audio.

DocumentContent A document content block.

data string (optional) The document content.

mime_type enum (string) (optional) The mime type of the document.

Possible

values:

- `application/pdf`
PDF document format
- `text/csv`
CSV document format

CSV document format

type object (required) No description provided.

Always set to `"document"`.

uri string (optional) The URI of the document.

VideoContent A video content block.

data string (optional) The video content.

mime_type enum (string) (optional) The mime type of the video.

Possible

values:

- `video/mp4`
MP4 video format
- `video/mpeg`
MPEG video format
- `video/mpg`
MPG video format
- `video/mov`
MOV video format
- `video/avi`
AVI video format
- `video/x-flv`
FLV video format
- `video/webm`
WebM video format
- `video/wmv`
WMV video format
- `video/3gpp`
3GPP video format

resolution `MediaResolution` (optional) The resolution of the media.

Possible values

- `low`
Low resolution.
- `medium`
Medium resolution.
- `high`
High resolution.
- `ultra\_high`
Ultra high resolution.

type `object` (required) No description provided.

Always set to `"video"`.

`uri` `string` (optional) The URI of the video.

`error` `Status` (optional) The error result of the operation in case of failure or cancellation.

The `\`Status\`` type defines a logical error model that is suitable for different programming environments, including REST APIs and RPC APIs. It is used by `\[gRPC\]`(<https://github.com/grpc>). Each `\`Status\`` message contains three pieces of data: error code, error message, and error details.

You can find out more about this error model and how to work with it in the `\[API Design Guide\]`(<https://cloud.google.com/apis/design/errors>).

Fields

`code` `integer` (optional) The status code, which should be an enum value of `google.rpc.Code`.
`details` `array` (`object`) (optional) A list of messages that carry the error details. There is a common set of

message types for APIs to use.

message string (optional) A developer-facing error message, which should be in English. Any user-facing error message should be localized and sent in the `google.rpc.Status.details` field, or localized by the client.

type object (required) No description provided.

Always set to ``"model_output"``.

ThoughtStep A thought step.

signature string (optional) A signature hash for backend validation.

summary ThoughtSummaryContent (optional) A summary of the thought.

Possible Types

Polymorphic discriminator: ``type``

TextContent A text content block.

annotations Annotation (optional) Citation information for model-generated content.

Citation information for model-generated content.

Possible Types

Polymorphic discriminator: ``type``

UrlCitation A URL citation annotation.

end_index integer (optional) End of the attributed segment, exclusive.

start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

title string (optional) The title of the URL.

type object (required) No description provided.

Always set to ``"url_citation"``.

url string (optional) The URL.

FileCitation A file citation annotation.

custom_metadata object (optional) User provided metadata about the retrieved context.

document_uri string (optional) The URI of the file.

end_index integer (optional) End of the attributed segment, exclusive.

file_name string (optional) The name of the file.

media_id string (optional) Media ID in-case of image citations, if applicable.

page_number integer (optional) Page number of the cited document, if applicable.

source string (optional) Source attributed for a portion of the text.

start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

type object (required) No description provided.

Always set to ``"file_citation"``.

PlaceCitation A place citation annotation.

end_index integer (optional) End of the attributed segment, exclusive.

name string (optional) Title of the place.

place_id string (optional) The ID of the place, in ``places/{place_id}`` format.

review_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate answers about the

features of a given place in Google Maps.

Encapsulates a snippet of a user review that answers a question about

the features of a specific place in Google Maps.

Fields

review_id string (optional) The ID of the review snippet.

title string (optional) Title of the review.

url string (optional) A link that corresponds to the user review on Google Maps.

start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
type object (required) No description provided.

Always set to `"place\_citation"`.
url string (optional) URI reference of the place.
text string (required) Required. The text content.
type object (required) No description provided.

Always set to `"text"`.
ImageContent An image content block.
data string (optional) The image content.
mime_type enum (string) (optional) The mime type of the image.

Possible
values:

- `image/png`
PNG image format
- `image/jpeg`
JPEG image format
- `image/webp`
WebP image format
- `image/heic`
HEIC image format
- `image/heif`
HEIF image format
- `image/gif`
GIF image format
- `image/bmp`
BMP image format
- `image/tiff`
TIFF image format

resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`
Low resolution.
- `medium`
Medium resolution.
- `high`
High resolution.
- `ultra\_high`
Ultra high resolution.

type object (required) No description provided.

Always set to `"image"`.
uri string (optional) The URI of the image.
type object (required) No description provided.

Always set to `"thought"`.

FunctionCallStep A function tool call step.
arguments object (required) Required. The arguments to pass to the function.
id string (required) Required. A unique ID for this specific tool call.
name string (required) Required. The name of the tool to call.
type object (required) No description provided.

Always set to ``"function_call"``.

CodeExecutionCallStep Code execution call step.

arguments CodeExecutionCallStepArguments (required) Required. The arguments to pass to the code execution.

The arguments to pass to the code execution.

Fields

code string (optional) The code to be executed.

language enum (string) (optional) Programming language of the ``code``.

Possible

values:

- ``python``

Python `\>= 3.10`, with numpy and simpy available.

id string (required) Required. A unique ID for this specific tool call.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to ``"code_execution_call"``.

UrlContextCallStep URL context call step.

arguments UrlContextCallArguments (required) Required. The arguments to pass to the URL context.

The arguments to pass to the URL context.

Fields

urls array (string) (optional) The URLs to fetch.

id string (required) Required. A unique ID for this specific tool call.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to ``"url_context_call"``.

McpServerToolCallStep MCPServer tool call step.

arguments object (required) Required. The JSON object of arguments for the function.

id string (required) Required. A unique ID for this specific tool call.

name string (required) Required. The name of the tool which was called.

server_name string (required) Required. The name of the used MCP server.

type object (required) No description provided.

Always set to ``"mcp_server_tool_call"``.

GoogleSearchCallStep Google Search call step.

arguments GoogleSearchCallStepArguments (required) Required. The arguments to pass to Google Search.

The arguments to pass to Google Search.

Fields

queries array (string) (optional) Web search queries for the following-up web search.

id string (required) Required. A unique ID for this specific tool call.

search_type enum (string) (optional) The type of search grounding enabled.

Possible

values:

- ``web_search``

Setting this field enables web search. Only text results are returned.
- `image\_search`

Setting this field enables image search. Image bytes are returned.
- `enterprise\_web\_search`

Setting this field enables enterprise web search.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"google\_search\_call"`.
FileSearchCallStep File Search call step.
id string (required) Required. A unique ID for this specific tool call.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"file\_search\_call"`.
GoogleMapsCallStep Google Maps call step.
arguments GoogleMapsCallStepArguments (optional) The arguments to pass to the Google Maps tool.
The arguments to pass to the Google Maps tool.

Fields

queries array (string) (optional) The queries to be executed.
id string (required) Required. A unique ID for this specific tool call.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"google\_maps\_call"`.
FunctionResultStep Result of a function tool call.
call_id string (required) Required. ID to match the ID from the function call block.
is_error boolean (optional) Whether the tool call resulted in an error.
name string (optional) The name of the tool that was called.
result array (ImageContent or TextContent) or object or string (required) The result of the tool call.
type object (required) No description provided.

Always set to `"function\_result"`.
CodeExecutionResultStep Code execution result step.
call_id string (required) Required. ID to match the ID from the function call block.
is_error boolean (optional) Whether the code execution resulted in an error.
result string (required) Required. The output of the code execution.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"code\_execution\_result"`.
UrlContextResultStep URL context result step.
call_id string (required) Required. ID to match the ID from the function call block.
is_error boolean (optional) Whether the URL context resulted in an error.
result UrlContextResult (required) Required. The results of the URL context.
The result of the URL context.

Fields

status enum (string) (optional) The status of the URL retrieval.

Possible
values:

- `success`

Url retrieval is successful.
- `error`

Url retrieval is failed due to error.
- `paywall`

Url retrieval is failed because the content is behind paywall.
- `unsafe`

Url retrieval is failed because the content is unsafe.
url string (optional) The URL that was fetched.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"url\_context\_result"`.
GoogleSearchResultStep Google Search result step.
call_id string (required) Required. ID to match the ID from the function call block.
is_error boolean (optional) Whether the Google Search resulted in an error.
result GoogleSearchResultItem (required) Required. The results of the Google Search.
The result of the Google Search.

Fields

search_suggestions string (optional) Web content snippet that can be embedded in a web page or an app webview.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"google\_search\_result"`.
McpServerToolResultStep MCPServer tool result step.
call_id string (required) Required. ID to match the ID from the function call block.
name_string (optional) Name of the tool which is called for this specific tool call.
result array (ImageContent or TextContent) or object or string (required) The output from the MCP server call. Can be simple text or rich content.
server_name string (optional) The name of the used MCP server.
type object (required) No description provided.

Always set to `"mcp\_server\_tool\_result"`.
FileSearchResultStep File Search result step.
call_id string (required) Required. ID to match the ID from the function call block.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"file\_search\_result"`.
GoogleMapsResultStep Google Maps result step.
call_id string (required) Required. ID to match the ID from the function call block.
result GoogleMapsResultItem (required) No description provided.
The result of the Google Maps.

Fields

places GoogleMapsResultPlaces (optional) No description provided.

Fields

name string (optional) No description provided.
place_id string (optional) No description provided.
review_snippets ReviewSnippet (optional) No description provided.
Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

Fields

review_id string (optional) The ID of the review snippet.
title string (optional) Title of the review.
url string (optional) A link that corresponds to the user review on Google Maps.
url string (optional) No description provided.

widget_context_token string (optional) No description provided.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"google\_maps\_result"`.
system_instruction string (optional) System instruction for the interaction.
tools Tool (optional) A list of tool declarations the model may call during interaction.
A tool that can be used by the model.

Possible Types

Polymorphic discriminator: `type`
Function A tool that can be used by the model.
description string (optional) A description of the function.
name string (optional) The name of the function.
parameters object (optional) The JSON Schema for the function's parameters.
type object (required) No description provided.

Always set to `"function"`.
CodeExecution A tool that can be used by the model to execute code.
type object (required) No description provided.

Always set to `"code\_execution"`.
UrlContext A tool that can be used by the model to fetch URL context.
type object (required) No description provided.

Always set to `"url\_context"`.
ComputerUse A tool that can be used by the model to interact with the computer.
disabled_safety_policies array (enum (string)) (optional) Optional. Disabled safety policies for computer use.

Possible
values:

- `financial\_transactions`

- Safety policy for financial transactions.

- `sensitive\_data\_modification`

- Safety policy for sensitive data modification.

- `communication\_tool`

- Safety policy for communication tools (e.g. Gmail, Chat, Meet).

- `account\_creation`

- Safety policy for account creation.

- `data\_modification`

- Safety policy for data modification.

- `user\_consent\_management`

- Safety policy for user consent management.

- `legal\_terms\_and\_agreements`

- Safety policy for legal terms and agreements.

enable_prompt_injection_detection boolean (optional) Whether enable the prompt injection detection check on computer-use request.

environment enum (string) (optional) The environment being operated.

Possible
values:

- `browser`

Operates in a web browser.
- `mobile`

Operates in a mobile environment.
- `desktop`

Operates in a desktop environment.
excluded_predefined_functions array (string) (optional) The list of predefined functions that are excluded from the model call.
type object (required) No description provided.

Always set to `"computer\_use"`.
McpServer A MCPServer is a server that can be called by the model to perform actions.
allowed_tools AllowedTools (optional) The allowed tools.
The configuration for allowed tools.

Fields

mode enum (string) (optional) The mode of the tool choice.

Possible
values:

- `auto`

Auto tool choice.
- `any`

Any tool choice.
- `none`

No tool choice.
- `validated`

Validated tool choice.
tools array (string) (optional) The names of the allowed tools.
headers object (optional) Optional: Fields for authentication headers, timeouts, etc., if needed.
name string (optional) The name of the MCPServer.
type object (required) No description provided.

Always set to `"mcp\_server"`.
url string (optional) The full URL for the MCPServer endpoint.
Example: "https://api.example.com/mcp"
GoogleSearch A tool that can be used by the model to search Google.
search_types array (enum (string)) (optional) The types of search grounding to enable.

Possible
values:

- `web\_search`

Setting this field enables web search. Only text results are returned.
- `image\_search`

Setting this field enables image search. Image bytes are returned.
- `enterprise\_web\_search`

Setting this field enables enterprise web search.
type object (required) No description provided.

Always set to `"google\_search"`.
FileSearch A tool that can be used by the model to search files.
file_search_store_names array (string) (optional) The file search store names to search.
metadata_filter string (optional) Metadata filter to apply to the semantic retrieval

documents and chunks.
top_k integer (optional) The number of semantic retrieval chunks to retrieve.
type object (required) No description provided.

Always set to `"file\_search"`.

GoogleMaps A tool that can be used by the model to call Google Maps.

enable_widget boolean (optional) Whether to return a widget context token in the tool call result of the response.

latitude number (optional) The latitude of the user's location.

longitude number (optional) The longitude of the user's location.

type object (required) No description provided.

Always set to `"google\_maps"`.

Retrieval A tool that can be used by the model to retrieve files.

exa_ai_search_config ExaAISearchConfig (optional) Used to specify configuration for ExaAISearch.

Used to specify configuration for ExaAISearch.

Fields

api_key string (optional) Required. The API key for ExaAISearch.

custom_config object (optional) Optional. This field can be used to pass any parameter from the Exa.ai Search API.

parallel_ai_search_config ParallelAISearchConfig (optional) Used to specify configuration for ParallelAISearch.

Used to specify configuration for ParallelAISearch.

Fields

api_key string (optional) Optional. The API key for ParallelAiSearch.

custom_config object (optional) Optional. Custom configs for ParallelAiSearch.

rag_store_config RagStoreConfig (optional) Used to specify configuration for RagStore.

Use to specify configuration for RAG Store.

Fields

rag_resources RagResource (optional) Optional. The representation of the rag source.
The definition of the Rag resource.

Fields

rag_corpus string (optional) Optional. RagCorpora resource name.

rag_file_ids array (string) (optional) Optional. rag_file_id. The files should be in the same rag_corpus set in

rag_corpus field.

rag_retrieval_config RagRetrievalConfig (optional) Optional. The retrieval config for the Rag query.

Specifies the context retrieval config.

Fields

filter Filter (optional) Optional. Config for filters.

Config for filters.

Fields

metadata_filter string (optional) Optional. String for metadata filtering.

vector_distance_threshold number (optional) Optional. Only returns contexts with vector distance smaller than the

threshold.

vector_similarity_threshold number (optional) Optional. Only returns contexts with vector similarity larger than the

threshold.

hybrid_search HybridSearch (optional) Optional. Config for Hybrid Search.

Config for Hybrid Search.

Fields

alpha number (optional) Optional. Alpha value controls the weight between dense and sparse vector search results.

ranking Ranking (optional) Optional. Config for ranking and reranking.
Config for ranking and reranking.

top_k integer (optional) Optional. The number of contexts to retrieve.

retrieval_types array (enum (string)) (optional) The types of file retrieval to enable.

Possible
values:

- `rag\_store`
- `exa\_ai\_search`
- `parallel\_ai\_search`

type object (required) No description provided.

Always set to `"retrieval"`.

updated string (optional) Output only. The time at which the response was last updated in ISO 8601 format
(YYYY-MM-DDThh:mm:ssZ).

usage Usage (optional) Output only. Statistics on the interaction request's token usage.
Statistics on the interaction request's token usage.

Fields

cached_tokens_by_modality ModalityTokens (optional) A breakdown of cached token usage by modality.

The token count for a single response modality.

Fields

modality ResponseModality (optional) The modality associated with the token count.

Possible values

- `text`

Indicates the model should return text.
- `image`

Indicates the model should return images.
- `audio`

Indicates the model should return audio.
- `video`

Indicates the model should return video.
- `document`

Indicates the model should return documents.

tokens integer (optional) Number of tokens for the modality.

grounding_tool_count GroundingToolCount (optional) Grounding tool count.
The number of grounding tool counts.

Fields

count integer (optional) The number of grounding tool counts.

type enum (string) (optional) The grounding tool type associated with the count.

Possible

values:

- `google\_search`

Grounding with Google Web Search and Image Search, \& Web Grounding for Enterprise.

- `google\_maps`

Grounding with Google Maps.

- `retrieval`

Grounding with customer's data, for example, VertexAISearch.

input_tokens_by_modality ModalityTokens (optional) A breakdown of input token usage by modality.

The token count for a single response modality.

Fields

modality ResponseModality (optional) The modality associated with the token count.

Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

tokens integer (optional) Number of tokens for the modality.

output_tokens_by_modality ModalityTokens (optional) A breakdown of output token usage by modality.

The token count for a single response modality.

Fields

modality ResponseModality (optional) The modality associated with the token count.

Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

tokens integer (optional) Number of tokens for the modality.
tool_use_tokens_by_modality ModalityTokens (optional) A breakdown of tool-use token usage by modality.
The token count for a single response modality.

Fields

modality ResponseModality (optional) The modality associated with the token count.

Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

tokens integer (optional) Number of tokens for the modality.

total_cached_tokens integer (optional) Number of tokens in the cached part of the prompt (the cached content).

total_input_tokens integer (optional) Number of tokens in the prompt (context).

total_output_tokens integer (optional) Total number of tokens across all the generated responses.

total_thought_tokens integer (optional) Number of tokens of thoughts for thinking models.

total_tokens integer (optional) Total token count for the interaction request (prompt + responses + other internal tokens).

total_tool_use_tokens integer (optional) Number of tokens present in tool-use prompt(s).

webhook_config WebhookConfig (optional) Optional. Webhook configuration for receiving notifications when the interaction completes.

Message for configuring webhook events for a request.

Fields

uris array (string) (optional) Optional. If set, these webhook URIs will be used for webhook events instead of the registered webhooks.

user_metadata object (optional) Optional. The user metadata that will be returned on each event emission to the webhooks.

last_pause_time string (optional) Output only. The time when the trigger was last paused.

last_resume_time string (optional) Output only. The time when the trigger was last resumed.

last_run_time string (optional) Output only. The time when the trigger was last run.

max_consecutive_failures integer (optional) Optional. The maximum number of consecutive failures allowed before the trigger is automatically paused (status becomes ERROR).

next_run_time string (optional) Output only. The time when the trigger is scheduled to run next.

previous_interaction_id string (optional) Output only. The ID of the last interaction created by this trigger.

schedule string (optional) Required. The cron schedule on which the trigger should run. Standard cron format.

status enum (string) (optional) Output only. The current status of the trigger.

Possible
values:

- `active`

The trigger is active and will fire on schedule.

- `paused`

The trigger is paused and will not fire.

- `error`

The trigger has entered an error state due to consecutive failures.

time_zone_string (optional) Required. Time zone in which the schedule should be interpreted.

update_time_string (optional) Output only. The time when the trigger was last updated.

Example

```
<iframe
src="https://frame/api/triggers_63a15043982e498c2a55a26eaab4a27bd6f757a589b32ec0de43aef16bd
67305.frame" class="framebox inherit-locale " allow="clipboard-write https://"
allowfullscreen is-upgraded></iframe>
```

Example Response

```json

```
{
 "consecutive_failure_count": 0,
 "create_time": "string",
 "display_name": "string",
 "environment_id": "string",
 "execution_timeout_seconds": 0,
 "id": "string",
 "interaction": {
 "created": "2025-12-04T15:01:45Z",
 "id": "v1_ChdxS0l4YWZXTk9xbk0xZThQczhEcmlR0BIXV0tJeGFmV05PcW5NMWU4UHM4RHJpUTg",
 "model": "gemini-3.5-flash",
 "object": "interaction",
 "steps": [
 {
 "type": "model_output",
 "content": [
 {
 "type": "text",
 "text": "Hello! I'm doing well, functioning as expected. Thank you for asking!
How are you doing today?"
 }
]
 }
],
 "status": "completed",
 "updated": "2025-12-04T15:01:45Z",
 "usage": {
 "input_tokens_by_modality": [
 {
 "modality": "text",
 "tokens": 7
 }
],
 "total_cached_tokens": 0,
 "total_input_tokens": 7,
 "total_output_tokens": 23,
 "total_thought_tokens": 49,
 "total_tokens": 79,
 "total_tool_use_tokens": 0
 }
 }
}
```

```

 },
 "last_pause_time": "string",
 "last_resume_time": "string",
 "last_run_time": "string",
 "max_consecutive_failures": 0,
 "next_run_time": "string",
 "previous_interaction_id": "string",
 "schedule": "string",
 "status": "active",
 "time_zone": "string",
 "update_time": "string"
 }
}

```

## ## RunTrigger

post [https://generativelanguage.googleapis.com/v1beta/triggers/{trigger\\_id}/executions](https://generativelanguage.googleapis.com/v1beta/triggers/{trigger_id}/executions) Runs a trigger immediately.

- [Response](<https://ai.google.dev/api/triggers#RunTrigger.response>)

## ### Response

If successful, the response body contains data with the following structure:

end\_time string (optional) Output only. The time when the execution finished.  
 environment\_id string (optional) Output only. The environment ID used for the execution.  
 error string (optional) Output only. The error message if the execution failed.  
 id string (optional) Required. Output only. Identifier. The ID of the trigger execution.  
 interaction\_id string (optional) Output only. The ID of the interaction created by this execution, if any.  
 scheduled\_time string (optional) Output only. The time when the execution was scheduled to run.  
 start\_time string (optional) Output only. The time when the execution started.  
 status enum (string) (optional) Output only. The status of the execution.

Possible values:

- `in\_progress`

The execution is currently in progress.

- `completed`

The execution completed successfully.

- `failed`

The execution failed.

- `skipped`

The execution was skipped (e.g., previous execution still running).

- `timed\_out`

The execution timed out.

trigger\_id string (optional) Required. Output only. Identifier. The ID of the trigger that created this execution.

## ### Example

```

<iframe
src="https://ai.google.dev/api/triggers_e1331871767008a10ddd9fcf15fdb6ed30d023f5e3c0f32ef161ad17cc1cla4c.frame" class="framebox inherit-locale " allow="clipboard-write https://"
allowfullscreen is-upgraded></iframe>

```

## #### Example Response

```

```json

```

```
{
  "end_time": "string",
  "environment_id": "string",
  "error": "string",
  "id": "string",
  "interaction_id": "string",
  "scheduled_time": "string",
  "start_time": "string",
  "status": "in_progress",
  "trigger_id": "string"
}
..
```

ListTriggers

get <https://generativelanguage.googleapis.com/v1beta/triggers> Lists triggers for a project.
 - [Path / Query parameters](https://ai.google.dev/api/triggers#ListTriggers.PATH_PARAMETERS)
 - [Response](<https://ai.google.dev/api/triggers#ListTriggers.response>)

Path / Query Parameters

filter string (optional) Optional. Filter expression (e.g., by state).
 page_size integer (optional) Optional. The maximum number of triggers to return per page.
 page_token string (optional) Optional. A page token from a previous ListTriggers call.

Response

If successful, the response body contains data with the following structure:
 next_page_token string (optional) A page token, received from a previous `ListTriggers` call.
 Provide this to retrieve the subsequent page.
 triggers array ([Trigger](<https://ai.google.dev/api/triggers#Resource:Trigger>)) (optional)
 The list of triggers.

Example

```
<iframe
src="https://frame/api/triggers_88d4ce9cd00dfdb0d58650ad142188cdc7a715b46fc632f001253acce33
dd756.frame" class="framebox inherit-locale " allow="clipboard-write https://"
allowfullscreen is-upgraded></iframe>
```

Example Response

```
```json
{
 "next_page_token": "string",
 "triggers": [
 {
 "consecutive_failure_count": 0,
 "create_time": "string",
 "display_name": "string",
 "environment_id": "string",
 "execution_timeout_seconds": 0,
 "id": "string",
 "interaction": {
 "created": "2025-12-04T15:01:45Z",
 "id": "v1_ChdxS0l4YWZXTk9xbk0xZThQczhEcmIR0BIXV0tJeGFmV05Pcw5NMWU4UHM4RHJpUTg",
 "model": "gemini-3.5-flash",
 "object": "interaction",
 "steps": [
 {
 "type": "model_output",
 "content": [
 {
 "type": "text",
```



#### #### Possible values

- `deep-research-pro-preview-12-2025`

Gemini Deep Research Agent

- `deep-research-preview-04-2026`

Gemini Deep Research Agent

- `deep-research-max-preview-04-2026`

Gemini Deep Research Max Agent

- `antigravity-preview-05-2026`

Use the Antigravity managed agent to perform multi-step tasks that require reasoning, file operations, and tool use.

agent\_config object (optional) Configuration parameters for the agent interaction.

#### #### Possible Types

Polymorphic discriminator: `type`

DynamicAgentConfig Configuration for dynamic agents.

type object (required) No description provided.

Always set to `"dynamic"`.

DeepResearchAgentConfig Configuration for the Deep Research agent.

collaborative\_planning boolean (optional) Enables human-in-the-loop planning for the Deep Research agent. If set to

true, the Deep Research agent will provide a research plan in its response.

The agent will then proceed only if the user confirms the plan in the next turn.

enable\_bigquery\_tool boolean (optional) Enables bigquery tool for the Deep Research agent.

thinking\_summaries ThinkingSummaries (optional) Whether to include thought summaries in the response.

<br />

#### #### Possible values

- `auto`

Auto thinking summaries.

- `none`

No thinking summaries.

type object (required) No description provided.

Always set to `"deep-research"`.

visualization enum (string) (optional) Whether to include visualizations in the response.

Possible  
values:

- `off`

Do not include visualizations.

- `auto`

Automatically include visualizations.

CodeMenderAgentConfig Configuration for the CodeMender agent.

find\_request FindRequest (optional) Parameters for finding vulnerabilities.

Request parameters specific to FIND sessions, used for discovering vulnerabilities in a codebase.

#### #### Fields

description string (optional) Additional context or custom instructions provided by the user

to guide  
the vulnerability analysis.  
finding\_id string (optional) The identifier of a specific finding to verify. This is  
primarily used in  
VERIFY mode to focus the agent's execution-based validation on a single  
vulnerability.  
mode enum (string) (optional) The mode of the find session.

Possible  
values:

- `scan`

Fast scan using only the initial classifier.

- `verify`

Performs classification followed by detailed investigation.

source\_files FileContent (optional) A list of source files to provide as context for the  
scan.

Content of a single file in the codebase.

#### Fields

content string (optional) The UTF-8 encoded text content of the file.

path string (optional) The relative path of the file from the project root.

fix\_request FixRequest (optional) Parameters for fixing vulnerabilities.

Request parameters specific to FIX sessions, used for generating and  
validating security patches.

#### Fields

description string (optional) Additional context or custom instructions provided by the user  
to guide

the patch generation process.

finding\_id string (optional) The identifier of the specific security finding to be  
remediated. This ID

maps to a previously discovered vulnerability.

source\_files FileContent (optional) A list of source files providing context for the  
remediation. These files

are typically the ones containing the identified vulnerability.

Content of a single file in the codebase.

#### Fields

content string (optional) The UTF-8 encoded text content of the file.

path string (optional) The relative path of the file from the project root.

model string (optional) The name of the model to use for the CodeMender agent. One  
CodeMender session will only use one model.

session\_config SessionConfig (optional) Optional session-specific configurations to override  
default agent

behavior.

The configuration of CodeMender sessions.

#### Fields

max\_rounds integer (optional) The maximum number of interaction rounds the agent is allowed  
to perform

before reaching a timeout.

session\_id string (optional) Parameter for grouping multiple interactions that belong to  
the same CodeMender session.

type object (required) No description provided.

Always set to `code-mender`.

AntigravityAgentConfig Configuration for the Antigravity agent runtime.

Provides server-side control over the agent's execution environment

and tool configuration.

max\_total\_tokens string (optional) Max total tokens for the agent run.

type object (required) No description provided.

Always set to ``"antigravity"``.

created string (optional) Output only. The time at which the response was created in ISO 8601 format

(YYYY-MM-DDThh:mm:ssZ).

environment EnvironmentConfig (optional) The environment configuration for the interaction. Can be an object specifying remote environment sources or a string referencing an existing environment ID.

Configuration for a custom environment.

#### #### Fields

environment\_id string (optional) Optional. The environment ID for the interaction. If specified, the request will

update the existing environment instead of creating a new one.

network EnvironmentNetworkEgressAllowlist (optional) Network configuration for the environment.

Outbound networking configuration for the sandbox. Accepts an object with an 'allowlist' array to restrict traffic, or the string 'disabled' to turn off all network access. Omit entirely to allow all outbound traffic with no header injection.

#### #### Possible Types

object Outbound networking configuration for the sandbox. When specified, restricts which external domains the sandbox can reach. Omit entirely to allow all outbound traffic with no header injection.

allowlist AllowlistEntry (optional) List of allowed outbound domains. Only requests to listed domains are permitted. Use `\[{'domain': '*'}\]` to allow all domains while still injecting headers on specific ones.

A single domain allowlist rule with optional header injection.

#### #### Fields

domain string (optional) Domain to allow outbound requests to. Supports wildcards (e.g. `'*.googleapis.com'`). Use `'*'` to allow all domains.

transform array (object) or object (optional) Headers to inject on all outbound requests matching this domain. Accepts a single dict or a list of dicts. The egress proxy injects these automatically.

string Turns all network off.

#### #### Possible values

- ``disabled``

Turns all network off.

sources Source (optional) No description provided.

A source to be mounted into the environment.

#### #### Fields

content string (optional) The inline content if ``type`` is ``INLINE``.

encoding string (optional) Optional encoding for inline content (e.g. ``base64``).

source string (optional) The source of the environment.

For GCS, this is the GCS path.

For GitHub, this is the GitHub path.

target string (optional) Where the source should appear in the environment.

type enum (string) (optional) No description provided.

Possible

values:

- ``gcs``

A GCS bucket.  
- `inline`

Inline content.  
- `repository`

A generic repository. The protocol prefix in the source URL identifies the provider (e.g., github://, gcs://).  
- `skill\_registry`

A skill resource from the Skill Registry Service.  
Skill: projects/{project}/locations/{location}/skills/{skill}  
SkillRevision:  
projects/{project}/locations/{location}/skills/{skill}/revisions/{revision}  
Support mounting all skills under a project:  
projects/{project}/locations/{location}/skills.  
type object (optional) No description provided.

Always set to `"remote"`.  
environment\_id string (optional) Output only. The environment ID for the interaction. Only populated if environment config is set in the request.  
id string (optional) Required. Output only. A unique identifier for the interaction completion.

\*Defaults to:\*

input Content or array (Content) or array (Step) or array (Turn) or string (optional) The input for the interaction.  
labels object (optional) The labels with user-defined metadata for the request.  
model ModelOption (optional) The name of the `Model` used for generating the interaction. The model that will complete your prompt.\\n\\nSee [\[models\]](https://ai.google.dev/gemini-api/docs/models)(<https://ai.google.dev/gemini-api/docs/models>) for additional details.

#### Possible values

- `gemini-2.5-flash`

Our first hybrid reasoning model which supports a 1M token context window and has thinking budgets.

- `gemini-2.5-pro`

Our state-of-the-art multipurpose model, which excels at coding and complex reasoning tasks.

- `gemma-4-26b-a4b-it`

Gemma 4 26B A4B IT

- `gemma-4-31b-it`

Gemma 4 31B IT

- `gemini-flash-latest`

Latest release of Gemini Flash

- `gemini-flash-lite-latest`

Latest release of Gemini Flash-Lite

- `gemini-pro-latest`

Latest release of Gemini Pro

- `gemini-2.5-flash-lite`

Our smallest and most cost effective model, built for at scale usage.

- `gemini-2.5-flash-image`

Our native image generation model, optimized for speed, flexibility, and contextual



understanding. Text input and output is priced the same as 2.5 Flash.

- `gemini-3-flash-preview`

Our most intelligent model built for speed, combining frontier intelligence with superior search and grounding.

- `gemini-3.1-pro-preview`

Our latest SOTA reasoning model with unprecedented depth and nuance, and powerful multimodal understanding and coding capabilities.

- `gemini-3.1-pro-preview-customtools`

Gemini 3.1 Pro Preview optimized for custom tool usage

- `gemini-3.1-flash-lite`

Our most cost-efficient model, optimized for high-volume agentic tasks, translation, and simple data processing.

- `gemini-3-pro-image`

Gemini 3 Pro Image

- `nano-banana-pro-preview`

Gemini 3 Pro Image Preview

- `gemini-3.1-flash-image`

Gemini 3.1 Flash Image.

- `gemini-3.5-flash`

Our most intelligent model for sustained frontier performance in agentic and coding tasks.

- `lyria-3-clip-preview`

Our low-latency, music generation model optimized for high-fidelity audio clips and precise rhythmic control.

- `lyria-3-pro-preview`

Our advanced, full-song generative model with deep compositional understanding, optimized for precise structural control and complex transitions across diverse musical styles.

- `gemini-robotics-er-1.6-preview`

Gemini Robotics-ER 1.6 Preview

output\_audio AudioContent (optional) The last audio generated by the model in response to the current request.

Note: this is added by the SDK.

An audio content block.

#### Fields

channels integer (optional) The number of audio channels.

data string (optional) The audio content.

mime\_type enum (string) (optional) The mime type of the audio.

Possible

values:

- `audio/wav`

WAV audio format

- `audio/mp3`

MP3 audio format

- `audio/aiff`

AIFF audio format

- `audio/aac`

AAC audio format  
- `audio/ogg`

OGG audio format  
- `audio/flac`

FLAC audio format  
- `audio/mpeg`

MPEG audio format  
- `audio/m4a`

M4A audio format  
- `audio/l16`

L16 audio format  
- `audio/opus`

OPUS audio format  
- `audio/alaw`

ALAW audio format  
- `audio/mulaw`

MULAW audio format  
sample\_rate integer (optional) The sample rate of the audio.  
type object (optional) No description provided.

Always set to `"audio"`.  
uri string (optional) The URI of the audio.  
output\_image ImageContent (optional) The last image generated by the model in response to the current request.

Note: this is added by the SDK.  
An image content block.

#### #### Fields

data string (optional) The image content.  
mime\_type enum (string) (optional) The mime type of the image.

Possible  
values:

- `image/png`

PNG image format  
- `image/jpeg`

JPEG image format  
- `image/webp`

WebP image format  
- `image/heic`

HEIC image format  
- `image/heif`

HEIF image format  
- `image/gif`

GIF image format  
- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format  
resolution MediaResolution (optional) The resolution of the media.  
<br />

#### #### Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (optional) No description provided.

Always set to `"image"`.

uri string (optional) The URI of the image.

output\_text string (optional) Concatenated text from the last model output in response to the current request.

Note: this is added by the SDK.

output\_video VideoContent (optional) The last video generated by the model in response to the current request.

Note: this is added by the SDK.

A video content block.

#### #### Fields

data string (optional) The video content.

mime\_type enum (string) (optional) The mime type of the video.

Possible  
values:

- `video/mp4`

MP4 video format

- `video/mpeg`

MPEG video format

- `video/mpg`

MPG video format

- `video/mov`

MOV video format

- `video/avi`

AVI video format

- `video/x-flv`

FLV video format

- `video/webm`

WebM video format

- `video/wmv`

WMV video format  
- `video/3gpp`

3GPP video format  
resolution MediaResolution (optional) The resolution of the media.  
<br />

#### #### Possible values

- `low`

Low resolution.  
- `medium`

Medium resolution.  
- `high`

High resolution.  
- `ultra\_high`

Ultra high resolution.  
type object (optional) No description provided.

Always set to `"video"`.  
uri string (optional) The URI of the video.  
previous\_interaction\_id string (optional) The ID of the previous interaction, if any.  
response\_format ResponseFormat (optional) Enforces that the generated response is a JSON object that complies with the JSON schema specified in this field.  
<br />

#### #### Possible Types

AudioResponseFormat Configuration for audio output format.  
bit\_rate integer (optional) Bit rate in bits per second (bps). Only applicable for compressed formats (MP3, Opus).  
delivery enum (string) (optional) The delivery mode for the audio output.

Possible values:

- `inline`

Audio data is returned inline in the response.  
- `uri`

Audio data is returned as a URI.  
mime\_type enum (string) (optional) The MIME type of the audio output.

Possible values:

- `audio/mp3`

MP3 audio format.  
- `audio/ogg\_opus`

OGG Opus audio format.  
- `audio/l16`

Raw PCM (L16) audio format.  
- `audio/wav`

WAV audio format.  
- `audio/alaw`

A-law audio format.  
- `audio/mulaw`

Mu-law audio format.  
sample\_rate integer (optional) Sample rate in Hz.  
type object (required) No description provided.

Always set to `"audio"`.  
TextResponseFormat Configuration for text output format.  
mime\_type enum (string) (optional) The MIME type of the text output.

Possible  
values:

- `application/json`

JSON output format.  
- `text/plain`

Plain text output format.  
schema object (optional) The JSON schema that the output should conform to. Only applicable when  
mime\_type is application/json.  
type object (required) No description provided.

Always set to `"text"`.  
ImageResponseFormat Configuration for image output format.  
aspect\_ratio enum (string) (optional) The aspect ratio for the image output.

Possible  
values:

- `1:1`

1:1 aspect ratio.  
- `2:3`

2:3 aspect ratio.  
- `3:2`

3:2 aspect ratio.  
- `3:4`

3:4 aspect ratio.  
- `4:3`

4:3 aspect ratio.  
- `4:5`

4:5 aspect ratio.  
- `5:4`

5:4 aspect ratio.  
- `9:16`

9:16 aspect ratio.  
- `16:9`

16:9 aspect ratio.  
- `21:9`

21:9 aspect ratio.  
- `1:8`

1:8 aspect ratio.  
- `8:1`

8:1 aspect ratio.  
- `1:4`

1:4 aspect ratio.  
- `4:1`

4:1 aspect ratio.  
delivery enum (string) (optional) The delivery mode for the image output.

Possible  
values:

- `inline`

Image data is returned inline in the response.  
- `uri`

Image data is returned as a URI.  
image\_size enum (string) (optional) The size of the image output.

Possible  
values:

- `512`

512px image size.  
- `1K`

1K image size.  
- `2K`

2K image size.  
- `4K`

4K image size.  
mime\_type enum (string) (optional) The MIME type of the image output.

Possible  
values:

- `image/jpeg`

JPEG image format.  
type object (required) No description provided.

Always set to `"image"`.  
VideoResponseFormat Configuration for video output format.  
aspect\_ratio enum (string) (optional) The aspect ratio for the video output.

Possible  
values:

- `16:9`

16:9 aspect ratio.  
- `9:16`

9:16 aspect ratio.  
delivery enum (string) (optional) The delivery mode for the video output.

Possible  
values:

- `inline`

Video data is returned inline in the response.

- `uri`

Video data is returned as a URI.

duration string (optional) The duration for the video output.

gcs\_uri string (optional) The GCS URI to store the video output. Required for Vertex if delivery mode

is URI.

type object (required) No description provided.

Always set to `"video"`.

response\_modalities ResponseModality (optional) The requested modalities of the response (TEXT, IMAGE, AUDIO).

<br />

#### #### Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

safety\_settings SafetySetting (optional) Safety settings for the interaction.

A safety setting that affects the safety-blocking behavior.

A SafetySetting consists of a harm category and a threshold for that category.

#### #### Fields

method enum (string) (optional) Optional. The method for blocking content. If not specified, the default behavior is to use the probability score.

Possible values:

- `severity`

The harm block method uses both probability and severity scores.

- `probability`

The harm block method uses the probability score.

threshold enum (string) (optional) Required. The threshold for blocking content. If the harm probability

exceeds this threshold, the content will be blocked.

Possible values:

- `block\_low\_and\_above`

Block content with a low harm probability or higher.

- `block\_medium\_and\_above`

Block content with a medium harm probability or higher.

- `block\_only\_high`

Block content with a high harm probability.

- `block\_none`

Do not block any content, regardless of its harm probability.

- `off`

Turn off the safety filter entirely.

type HarmCategory (optional) Required. The type of harm category to be blocked.

<br />

#### Possible values

- `hate\_speech`

Content that promotes violence or incites hatred against individuals or groups based on certain attributes.

- `dangerous\_content`

Content that promotes, facilitates, or enables dangerous activities.

- `harassment`

Abusive, threatening, or content intended to bully, torment, or ridicule.

- `sexually\_explicit`

Content that contains sexually explicit material.

- `civic\_integrity`

Deprecated: Election filter is not longer supported.

The harm category is civic integrity.

- `image\_hate`

Images that contain hate speech.

- `image\_dangerous\_content`

Images that contain dangerous content.

- `image\_harassment`

Images that contain harassment.

- `image\_sexually\_explicit`

Images that contain sexually explicit content.

- `jailbreak`

Prompts designed to bypass safety filters.

service\_tier ServiceTier (optional) The service tier for the interaction.

<br />

#### Possible values

- `flex`

Flex service tier.

- `standard`

Standard service tier.

- `priority`



Priority service tier.  
status enum (string) (optional) Required. Output only. The status of the interaction.

Possible  
values:

- `in\_progress`

The interaction is in progress.

- `requires\_action`

The interaction requires action/input from the user.

- `completed`

The interaction is completed.

- `failed`

The interaction failed.

- `cancelled`

The interaction was cancelled.

- `incomplete`

The interaction is completed, but contains incomplete results (e.g. hitting max\_tokens).

- `budget\_exceeded`

The interaction was halted because the token budget was exceeded.

steps Step (optional) Output only. The steps that make up the interaction, when included in the response.

A step in the interaction.

#### #### Possible Types

Polymorphic discriminator: `type`

UserInputStep Input provided by the user.

content Content (optional) No description provided.

The content of the response.

#### #### Possible Types

Polymorphic discriminator: `type`

TextContent A text content block.

annotations Annotation (optional) Citation information for model-generated content.

Citation information for model-generated content.

#### #### Possible Types

Polymorphic discriminator: `type`

UrlCitation A URL citation annotation.

end\_index integer (optional) End of the attributed segment, exclusive.

start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

title string (optional) The title of the URL.

type object (required) No description provided.

Always set to `"url\_citation"`.

url string (optional) The URL.

FileCitation A file citation annotation.

custom\_metadata object (optional) User provided metadata about the retrieved context.

document\_uri string (optional) The URI of the file.

end\_index integer (optional) End of the attributed segment, exclusive.

file\_name string (optional) The name of the file.

media\_id string (optional) Media ID in-case of image citations, if applicable.  
page\_number integer (optional) Page number of the cited document, if applicable.  
source string (optional) Source attributed for a portion of the text.  
start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.  
type object (required) No description provided.

Always set to `"file\_citation"`.  
PlaceCitation A place citation annotation.  
end\_index integer (optional) End of the attributed segment, exclusive.  
name string (optional) Title of the place.  
place\_id string (optional) The ID of the place, in `places/{place\_id}` format.  
review\_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate answers about the features of a given place in Google Maps.  
Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

#### #### Fields

review\_id string (optional) The ID of the review snippet.  
title string (optional) Title of the review.  
url string (optional) A link that corresponds to the user review on Google Maps.  
start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.  
type object (required) No description provided.

Always set to `"place\_citation"`.  
url string (optional) URI reference of the place.  
text string (required) Required. The text content.  
type object (required) No description provided.

Always set to `"text"`.  
ImageContent An image content block.  
data string (optional) The image content.  
mime\_type enum (string) (optional) The mime type of the image.

Possible  
values:

- `image/png`  
PNG image format
- `image/jpeg`  
JPEG image format
- `image/webp`  
WebP image format
- `image/heic`  
HEIC image format
- `image/heif`  
HEIF image format
- `image/gif`  
GIF image format
- `image/bmp`  
BMP image format

- `image/tiff`

TIFF image format  
resolution MediaResolution (optional) The resolution of the media.  
<br />

#### Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (required) No description provided.

Always set to `"image"`.

uri string (optional) The URI of the image.

AudioContent An audio content block.

channels integer (optional) The number of audio channels.

data string (optional) The audio content.

mime\_type enum (string) (optional) The mime type of the audio.

Possible  
values:

- `audio/wav`

WAV audio format

- `audio/mp3`

MP3 audio format

- `audio/aiff`

AIFF audio format

- `audio/aac`

AAC audio format

- `audio/ogg`

OGG audio format

- `audio/flac`

FLAC audio format

- `audio/mpeg`

MPEG audio format

- `audio/m4a`

M4A audio format

- `audio/l16`

L16 audio format

- `audio/opus`

OPUS audio format

- `audio/alaw`

ALAW audio format

- `audio/mulaw`

MULAW audio format

sample\_rate integer (optional) The sample rate of the audio.

type object (required) No description provided.

Always set to `"audio"`.

uri string (optional) The URI of the audio.

DocumentContent A document content block.

data string (optional) The document content.

mime\_type enum (string) (optional) The mime type of the document.

Possible

values:

- `application/pdf`

PDF document format

- `text/csv`

CSV document format

type object (required) No description provided.

Always set to `"document"`.

uri string (optional) The URI of the document.

VideoContent A video content block.

data string (optional) The video content.

mime\_type enum (string) (optional) The mime type of the video.

Possible

values:

- `video/mp4`

MP4 video format

- `video/mpeg`

MPEG video format

- `video/mpg`

MPG video format

- `video/mov`

MOV video format

- `video/avi`

AVI video format

- `video/x-flv`

FLV video format

- `video/webm`

WebM video format

- `video/wmv`

WMV video format

- `video/3gpp`

3GPP video format

resolution MediaResolution (optional) The resolution of the media.

<br />

#### Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (required) No description provided.

Always set to `"video"`.

uri string (optional) The URI of the video.

type object (required) No description provided.

Always set to `"user\_input"`.

ModelOutputStep Output generated by the model.

content Content (optional) No description provided.

The content of the response.

#### #### Possible Types

Polymorphic discriminator: `type`

TextContent A text content block.

annotations Annotation (optional) Citation information for model-generated content.

Citation information for model-generated content.

#### #### Possible Types

Polymorphic discriminator: `type`

UrlCitation A URL citation annotation.

end\_index integer (optional) End of the attributed segment, exclusive.

start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

title string (optional) The title of the URL.

type object (required) No description provided.

Always set to `"url\_citation"`.

url string (optional) The URL.

FileCitation A file citation annotation.

custom\_metadata object (optional) User provided metadata about the retrieved context.

document\_uri string (optional) The URI of the file.

end\_index integer (optional) End of the attributed segment, exclusive.

file\_name string (optional) The name of the file.

media\_id string (optional) Media ID in-case of image citations, if applicable.

page\_number integer (optional) Page number of the cited document, if applicable.

source string (optional) Source attributed for a portion of the text.

start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

type object (required) No description provided.

Always set to `"file\_citation"`.

PlaceCitation A place citation annotation.

end\_index integer (optional) End of the attributed segment, exclusive.

name string (optional) Title of the place.

place\_id string (optional) The ID of the place, in `places/{place\_id}` format.

review\_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate answers about the

features of a given place in Google Maps.

Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

#### #### Fields

review\_id string (optional) The ID of the review snippet.  
title string (optional) Title of the review.  
url string (optional) A link that corresponds to the user review on Google Maps.  
start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.  
type object (required) No description provided.

Always set to `"place\_citation"`.  
url string (optional) URI reference of the place.  
text string (required) Required. The text content.  
type object (required) No description provided.

Always set to `"text"`.  
ImageContent An image content block.  
data string (optional) The image content.  
mime\_type enum (string) (optional) The mime type of the image.

Possible  
values:

- `image/png`

PNG image format

- `image/jpeg`

JPEG image format

- `image/webp`

WebP image format

- `image/heic`

HEIC image format

- `image/heif`

HEIF image format

- `image/gif`

GIF image format

- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format

resolution MediaResolution (optional) The resolution of the media.

<br />

#### #### Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.  
type object (required) No description provided.

Always set to `"image"`.  
uri string (optional) The URI of the image.  
AudioContent An audio content block.  
channels integer (optional) The number of audio channels.  
data string (optional) The audio content.  
mime\_type enum (string) (optional) The mime type of the audio.

Possible  
values:

- `audio/wav`

WAV audio format  
- `audio/mp3`

MP3 audio format  
- `audio/aiff`

AIFF audio format  
- `audio/aac`

AAC audio format  
- `audio/ogg`

OGG audio format  
- `audio/flac`

FLAC audio format  
- `audio/mpeg`

MPEG audio format  
- `audio/m4a`

M4A audio format  
- `audio/l16`

L16 audio format  
- `audio/opus`

OPUS audio format  
- `audio/alaw`

ALAW audio format  
- `audio/mulaw`

MULAW audio format  
sample\_rate integer (optional) The sample rate of the audio.  
type object (required) No description provided.

Always set to `"audio"`.  
uri string (optional) The URI of the audio.  
DocumentContent A document content block.  
data string (optional) The document content.  
mime\_type enum (string) (optional) The mime type of the document.

Possible  
values:

- `application/pdf`

PDF document format  
- `text/csv`

CSV document format  
type object (required) No description provided.

Always set to `"document"`.  
uri string (optional) The URI of the document.  
VideoContent A video content block.  
data string (optional) The video content.  
mime\_type enum (string) (optional) The mime type of the video.

Possible  
values:

- `video/mp4`

MP4 video format  
- `video/mpeg`

MPEG video format  
- `video/mpg`

MPG video format  
- `video/mov`

MOV video format  
- `video/avi`

AVI video format  
- `video/x-flv`

FLV video format  
- `video/webm`

WebM video format  
- `video/wmv`

WMV video format  
- `video/3gpp`

3GPP video format  
resolution MediaResolution (optional) The resolution of the media.  
<br />

#### Possible values

- `low`

Low resolution.  
- `medium`

Medium resolution.  
- `high`

High resolution.  
- `ultra\_high`

Ultra high resolution.  
type object (required) No description provided.

Always set to `"video"`.  
uri string (optional) The URI of the video.  
error Status (optional) The error result of the operation in case of failure or  
cancellation.



The `\`Status\`` type defines a logical error model that is suitable for different programming environments, including REST APIs and RPC APIs. It is used by `\[gRPC\]`(<https://github.com/grpc>). Each `\`Status\`` message contains three pieces of data: error code, error message, and error details.

You can find out more about this error model and how to work with it in the `\[API Design Guide\]`(<https://cloud.google.com/apis/design/errors>).

#### #### Fields

`code` integer (optional) The status code, which should be an enum value of `google.rpc.Code`.  
`details` array (object) (optional) A list of messages that carry the error details. There is a common set of message types for APIs to use.  
`message` string (optional) A developer-facing error message, which should be in English. Any user-facing error message should be localized and sent in the `google.rpc.Status.details` field, or localized by the client.  
`type` object (required) No description provided.

Always set to `\`"model_output"\``.

`ThoughtStep` A thought step.

`signature` string (optional) A signature hash for backend validation.

`summary` `ThoughtSummaryContent` (optional) A summary of the thought.

<br />

#### #### Possible Types

Polymorphic discriminator: `\`type\``

`TextContent` A text content block.

`annotations` `Annotation` (optional) Citation information for model-generated content.

Citation information for model-generated content.

#### #### Possible Types

Polymorphic discriminator: `\`type\``

`UrlCitation` A URL citation annotation.

`end_index` integer (optional) End of the attributed segment, exclusive.

`start_index` integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

`title` string (optional) The title of the URL.

`type` object (required) No description provided.

Always set to `\`"url_citation"\``.

`url` string (optional) The URL.

`FileCitation` A file citation annotation.

`custom_metadata` object (optional) User provided metadata about the retrieved context.

`document_uri` string (optional) The URI of the file.

`end_index` integer (optional) End of the attributed segment, exclusive.

`file_name` string (optional) The name of the file.

`media_id` string (optional) Media ID in-case of image citations, if applicable.

`page_number` integer (optional) Page number of the cited document, if applicable.

`source` string (optional) Source attributed for a portion of the text.

`start_index` integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

`type` object (required) No description provided.

Always set to `\`"file_citation"\``.

`PlaceCitation` A place citation annotation.

`end_index` integer (optional) End of the attributed segment, exclusive.

`name` string (optional) Title of the place.

`place_id` string (optional) The ID of the place, in `\`places/{place_id}\`` format.

review\_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate answers about the features of a given place in Google Maps.  
Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

#### #### Fields

review\_id string (optional) The ID of the review snippet.  
title string (optional) Title of the review.  
url string (optional) A link that corresponds to the user review on Google Maps.  
start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.  
type object (required) No description provided.

Always set to `"place\_citation"`.  
url string (optional) URI reference of the place.  
text string (required) Required. The text content.  
type object (required) No description provided.

Always set to `"text"`.  
ImageContent An image content block.  
data string (optional) The image content.  
mime\_type enum (string) (optional) The mime type of the image.

Possible values:

- `image/png`

PNG image format

- `image/jpeg`

JPEG image format

- `image/webp`

WebP image format

- `image/heic`

HEIC image format

- `image/heif`

HEIF image format

- `image/gif`

GIF image format

- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format

resolution MediaResolution (optional) The resolution of the media.

<br />

#### #### Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (required) No description provided.

Always set to `"image"`.

uri string (optional) The URI of the image.

type object (required) No description provided.

Always set to `"thought"`.

FunctionCallStep A function tool call step.

arguments object (required) Required. The arguments to pass to the function.

id string (required) Required. A unique ID for this specific tool call.

name string (required) Required. The name of the tool to call.

type object (required) No description provided.

Always set to `"function\_call"`.

CodeExecutionCallStep Code execution call step.

arguments CodeExecutionCallStepArguments (required) Required. The arguments to pass to the code execution.

The arguments to pass to the code execution.

#### #### Fields

code string (optional) The code to be executed.

language enum (string) (optional) Programming language of the ``code``.

Possible

values:

- `python`

Python  $\geq 3.10$ , with numpy and simpy available.

id string (required) Required. A unique ID for this specific tool call.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"code\_execution\_call"`.

UrlContextCallStep URL context call step.

arguments UrlContextCallArguments (required) Required. The arguments to pass to the URL context.

The arguments to pass to the URL context.

#### #### Fields

urls array (string) (optional) The URLs to fetch.

id string (required) Required. A unique ID for this specific tool call.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"url\_context\_call"`.

McpServerToolCallStep MCPServer tool call step.

arguments object (required) Required. The JSON object of arguments for the function.

id string (required) Required. A unique ID for this specific tool call.

name string (required) Required. The name of the tool which was called.

server\_name string (required) Required. The name of the used MCP server.

type object (required) No description provided.

Always set to `"mcp\_server\_tool\_call"`.

GoogleSearchCallStep Google Search call step.

arguments GoogleSearchCallStepArguments (required) Required. The arguments to pass to Google Search.

The arguments to pass to Google Search.

#### #### Fields

queries array (string) (optional) Web search queries for the following-up web search.  
id string (required) Required. A unique ID for this specific tool call.  
search\_type enum (string) (optional) The type of search grounding enabled.

Possible  
values:

- `web\_search`

Setting this field enables web search. Only text results are returned.

- `image\_search`

Setting this field enables image search. Image bytes are returned.

- `enterprise\_web\_search`

Setting this field enables enterprise web search.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"google\_search\_call"`.

FileSearchCallStep File Search call step.

id string (required) Required. A unique ID for this specific tool call.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"file\_search\_call"`.

GoogleMapsCallStep Google Maps call step.

arguments GoogleMapsCallStepArguments (optional) The arguments to pass to the Google Maps tool.

The arguments to pass to the Google Maps tool.

#### #### Fields

queries array (string) (optional) The queries to be executed.

id string (required) Required. A unique ID for this specific tool call.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"google\_maps\_call"`.

FunctionResultStep Result of a function tool call.

call\_id string (required) Required. ID to match the ID from the function call block.

is\_error boolean (optional) Whether the tool call resulted in an error.

name string (optional) The name of the tool that was called.

result array (ImageContent or TextContent) or object or string (required) The result of the tool call.

type object (required) No description provided.

Always set to `"function\_result"`.

CodeExecutionResultStep Code execution result step.

call\_id string (required) Required. ID to match the ID from the function call block.

is\_error boolean (optional) Whether the code execution resulted in an error.

result string (required) Required. The output of the code execution.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"code\_execution\_result"`.

UrlContextResultStep URL context result step.

call\_id string (required) Required. ID to match the ID from the function call block.

is\_error boolean (optional) Whether the URL context resulted in an error.

result UrlContextResult (required) Required. The results of the URL context.

The result of the URL context.

#### #### Fields

status enum (string) (optional) The status of the URL retrieval.

Possible  
values:

- `success`

Url retrieval is successful.

- `error`

Url retrieval is failed due to error.

- `paywall`

Url retrieval is failed because the content is behind paywall.

- `unsafe`

Url retrieval is failed because the content is unsafe.

url string (optional) The URL that was fetched.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"url\_context\_result"`.

GoogleSearchResultStep Google Search result step.

call\_id string (required) Required. ID to match the ID from the function call block.

is\_error boolean (optional) Whether the Google Search resulted in an error.

result GoogleSearchResultItem (required) Required. The results of the Google Search.

The result of the Google Search.

#### #### Fields

search\_suggestions string (optional) Web content snippet that can be embedded in a web page or an app webview.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"google\_search\_result"`.

McpServerToolResultStep MCPServer tool result step.

call\_id string (required) Required. ID to match the ID from the function call block.

name string (optional) Name of the tool which is called for this specific tool call.

result array (ImageContent or TextContent) or object or string (required) The output from the MCP server call. Can be simple text or rich content.

server\_name string (optional) The name of the used MCP server.

type object (required) No description provided.

Always set to `"mcp\_server\_tool\_result"`.

FileSearchResultStep File Search result step.

call\_id string (required) Required. ID to match the ID from the function call block.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"file\_search\_result"`.

GoogleMapsResultStep Google Maps result step.

call\_id string (required) Required. ID to match the ID from the function call block.

result GoogleMapsResultItem (required) No description provided.

The result of the Google Maps.

#### #### Fields

places GoogleMapsResultPlaces (optional) No description provided.

<br />

#### #### Fields

name string (optional) No description provided.  
place\_id string (optional) No description provided.  
review\_snippets ReviewSnippet (optional) No description provided.  
Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

#### #### Fields

review\_id string (optional) The ID of the review snippet.  
title string (optional) Title of the review.  
url string (optional) A link that corresponds to the user review on Google Maps.  
url string (optional) No description provided.  
widget\_context\_token string (optional) No description provided.  
signature string (optional) A signature hash for backend validation.  
type object (required) No description provided.

Always set to `"google\_maps\_result"`.  
system\_instruction string (optional) System instruction for the interaction.  
tools Tool (optional) A list of tool declarations the model may call during interaction.  
A tool that can be used by the model.

#### #### Possible Types

Polymorphic discriminator: `type`  
Function A tool that can be used by the model.  
description string (optional) A description of the function.  
name string (optional) The name of the function.  
parameters object (optional) The JSON Schema for the function's parameters.  
type object (required) No description provided.

Always set to `"function"`.  
CodeExecution A tool that can be used by the model to execute code.  
type object (required) No description provided.

Always set to `"code\_execution"`.  
UrlContext A tool that can be used by the model to fetch URL context.  
type object (required) No description provided.

Always set to `"url\_context"`.  
ComputerUse A tool that can be used by the model to interact with the computer.  
disabled\_safety\_policies array (enum (string)) (optional) Optional. Disabled safety policies for computer use.

Possible  
values:

- `financial\_transactions`

Safety policy for financial transactions.

- `sensitive\_data\_modification`

Safety policy for sensitive data modification.

- `communication\_tool`

Safety policy for communication tools (e.g. Gmail, Chat, Meet).

- `account\_creation`

Safety policy for account creation.

- `data\_modification`

Safety policy for data modification.

- `user\_consent\_management`

Safety policy for user consent management.

- `legal\_terms\_and\_agreements`

Safety policy for legal terms and agreements.

`enable_prompt_injection_detection` boolean (optional) Whether enable the prompt injection detection check on computer-use

`request`.

`environment` enum (string) (optional) The environment being operated.

Possible

values:

- `browser`

Operates in a web browser.

- `mobile`

Operates in a mobile environment.

- `desktop`

Operates in a desktop environment.

`excluded_predefined_functions` array (string) (optional) The list of predefined functions that are excluded from the model call.

`type` object (required) No description provided.

Always set to `"computer\_use"`.

`McpServer` A MCPServer is a server that can be called by the model to perform actions.

`allowed_tools` AllowedTools (optional) The allowed tools.

The configuration for allowed tools.

#### Fields

`mode` enum (string) (optional) The mode of the tool choice.

Possible

values:

- `auto`

Auto tool choice.

- `any`

Any tool choice.

- `none`

No tool choice.

- `validated`

Validated tool choice.

`tools` array (string) (optional) The names of the allowed tools.

`headers` object (optional) Optional: Fields for authentication headers, timeouts, etc., if needed.

`name` string (optional) The name of the MCPServer.

`type` object (required) No description provided.

Always set to `"mcp\_server"`.

`url` string (optional) The full URL for the MCPServer endpoint.

Example: "https://api.example.com/mcp"

`GoogleSearch` A tool that can be used by the model to search Google.

`search_types` array (enum (string)) (optional) The types of search grounding to enable.

Possible

values:

- `web\_search`

Setting this field enables web search. Only text results are returned.  
- `image\_search`

Setting this field enables image search. Image bytes are returned.  
- `enterprise\_web\_search`

Setting this field enables enterprise web search.  
type object (required) No description provided.

Always set to `"google\_search"`.  
FileSearch A tool that can be used by the model to search files.  
file\_search\_store\_names array (string) (optional) The file search store names to search.  
metadata\_filter string (optional) Metadata filter to apply to the semantic retrieval documents and chunks.  
top\_k integer (optional) The number of semantic retrieval chunks to retrieve.  
type object (required) No description provided.

Always set to `"file\_search"`.  
GoogleMaps A tool that can be used by the model to call Google Maps.  
enable\_widget boolean (optional) Whether to return a widget context token in the tool call result of the response.  
latitude number (optional) The latitude of the user's location.  
longitude number (optional) The longitude of the user's location.  
type object (required) No description provided.

Always set to `"google\_maps"`.  
Retrieval A tool that can be used by the model to retrieve files.  
exa\_ai\_search\_config ExaAISearchConfig (optional) Used to specify configuration for ExaAISearch.  
Used to specify configuration for ExaAISearch.

#### #### Fields

api\_key string (optional) Required. The API key for ExaAiSearch.  
custom\_config object (optional) Optional. This field can be used to pass any parameter from the Exa.ai Search API.  
parallel\_ai\_search\_config ParallelAISearchConfig (optional) Used to specify configuration for ParallelAISearch.  
Used to specify configuration for ParallelAISearch.

#### #### Fields

api\_key string (optional) Optional. The API key for ParallelAiSearch.  
custom\_config object (optional) Optional. Custom configs for ParallelAiSearch.  
rag\_store\_config RagStoreConfig (optional) Used to specify configuration for RagStore.  
Use to specify configuration for RAG Store.

#### #### Fields

rag\_resources RagResource (optional) Optional. The representation of the rag source.  
The definition of the Rag resource.

#### #### Fields

rag\_corpus string (optional) Optional. RagCorpora resource name.  
rag\_file\_ids array (string) (optional) Optional. rag\_file\_id. The files should be in the same rag\_corpus set in rag\_corpus field.  
rag\_retrieval\_config RagRetrievalConfig (optional) Optional. The retrieval config for the Rag query.  
Specifies the context retrieval config.

#### #### Fields



filter Filter (optional) Optional. Config for filters.  
Config for filters.

#### #### Fields

metadata\_filter string (optional) Optional. String for metadata filtering.  
vector\_distance\_threshold number (optional) Optional. Only returns contexts with vector distance smaller than the threshold.  
vector\_similarity\_threshold number (optional) Optional. Only returns contexts with vector similarity larger than the threshold.  
hybrid\_search HybridSearch (optional) Optional. Config for Hybrid Search.  
Config for Hybrid Search.

#### #### Fields

alpha number (optional) Optional. Alpha value controls the weight between dense and sparse vector search results.  
ranking Ranking (optional) Optional. Config for ranking and reranking.  
Config for ranking and reranking.  
top\_k integer (optional) Optional. The number of contexts to retrieve.  
retrieval\_types array (enum (string)) (optional) The types of file retrieval to enable.

Possible  
values:

- `rag\_store`
- `exa\_ai\_search`
- `parallel\_ai\_search`

type object (required) No description provided.

Always set to `"retrieval"`.  
updated string (optional) Output only. The time at which the response was last updated in ISO 8601 format (YYYY-MM-DDThh:mm:ssZ).  
usage Usage (optional) Output only. Statistics on the interaction request's token usage. Statistics on the interaction request's token usage.

#### #### Fields

cached\_tokens\_by\_modality ModalityTokens (optional) A breakdown of cached token usage by modality.  
The token count for a single response modality.

#### #### Fields

modality ResponseModality (optional) The modality associated with the token count.  
<br />

#### #### Possible values

- `text`  
  
Indicates the model should return text.
- `image`  
  
Indicates the model should return images.
- `audio`  
  
Indicates the model should return audio.
- `video`  
  
Indicates the model should return video.

- `document`

Indicates the model should return documents.  
tokens integer (optional) Number of tokens for the modality.  
grounding\_tool\_count GroundingToolCount (optional) Grounding tool count.  
The number of grounding tool counts.

#### #### Fields

count integer (optional) The number of grounding tool counts.  
type enum (string) (optional) The grounding tool type associated with the count.

Possible  
values:

- `google\_search`

Grounding with Google Web Search and Image Search, \& Web Grounding  
for Enterprise.

- `google\_maps`

Grounding with Google Maps.

- `retrieval`

Grounding with customer's data, for example, VertexAISearch.  
input\_tokens\_by\_modality ModalityTokens (optional) A breakdown of input token usage by  
modality.  
The token count for a single response modality.

#### #### Fields

modality ResponseModality (optional) The modality associated with the token count.  
<br />

#### #### Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.  
tokens integer (optional) Number of tokens for the modality.  
output\_tokens\_by\_modality ModalityTokens (optional) A breakdown of output token usage by  
modality.  
The token count for a single response modality.

#### #### Fields

modality ResponseModality (optional) The modality associated with the token count.  
<br />

#### #### Possible values

- `text`

Indicates the model should return text.  
- `image`

Indicates the model should return images.  
- `audio`

Indicates the model should return audio.  
- `video`

Indicates the model should return video.  
- `document`

Indicates the model should return documents.  
tokens integer (optional) Number of tokens for the modality.  
tool\_use\_tokens\_by\_modality ModalityTokens (optional) A breakdown of tool-use token usage by modality.  
The token count for a single response modality.

#### #### Fields

modality ResponseModality (optional) The modality associated with the token count.  
<br />

#### #### Possible values

- `text`

Indicates the model should return text.  
- `image`

Indicates the model should return images.  
- `audio`

Indicates the model should return audio.  
- `video`

Indicates the model should return video.  
- `document`

Indicates the model should return documents.  
tokens integer (optional) Number of tokens for the modality.  
total\_cached\_tokens integer (optional) Number of tokens in the cached part of the prompt (the cached content).  
total\_input\_tokens integer (optional) Number of tokens in the prompt (context).  
total\_output\_tokens integer (optional) Total number of tokens across all the generated responses.  
total\_thought\_tokens integer (optional) Number of tokens of thoughts for thinking models.  
total\_tokens integer (optional) Total token count for the interaction request (prompt + responses + other internal tokens).  
total\_tool\_use\_tokens integer (optional) Number of tokens present in tool-use prompt(s).  
webhook\_config WebhookConfig (optional) Optional. Webhook configuration for receiving notifications when the interaction completes.  
Message for configuring webhook events for a request.

#### #### Fields

uris array (string) (optional) Optional. If set, these webhook URIs will be used for webhook events instead of the registered webhooks.  
user\_metadata object (optional) Optional. The user metadata that will be returned on each event emission to the webhooks.  
last\_pause\_time string (optional) Output only. The time when the trigger was last paused.

last\_resume\_time string (optional) Output only. The time when the trigger was last resumed.  
last\_run\_time string (optional) Output only. The time when the trigger was last run.  
max\_consecutive\_failures integer (optional) Optional. The maximum number of consecutive failures allowed before the trigger is automatically paused (status becomes ERROR).  
next\_run\_time string (optional) Output only. The time when the trigger is scheduled to run next.  
previous\_interaction\_id string (optional) Output only. The ID of the last interaction created by this trigger.  
schedule string (optional) Required. The cron schedule on which the trigger should run. Standard cron format.  
status enum (string) (optional) Output only. The current status of the trigger.

Possible values:

- `active`

The trigger is active and will fire on schedule.

- `paused`

The trigger is paused and will not fire.

- `error`

The trigger has entered an error state due to consecutive failures.

time\_zone string (optional) Required. Time zone in which the schedule should be interpreted.

update\_time string (optional) Output only. The time when the trigger was last updated.

### Example

```
<iframe
src="https://frame/api/triggers_892e9f2b810313e63b3bd47c6343735a49e8d336477a131eb5bc29ca83c47471.frame" class="framebox inherit-locale " allow="clipboard-write https://"
allowfullscreen is-upgraded></iframe>
```

#### Example Response

```json

```
{
  "consecutive_failure_count": 0,
  "create_time": "string",
  "display_name": "string",
  "environment_id": "string",
  "execution_timeout_seconds": 0,
  "id": "string",
  "interaction": {
    "created": "2025-12-04T15:01:45Z",
    "id": "v1_ChdxS0l4YWZXtk9xbk0xZThQczhEcmlROBIXV0tJeGFmV05Pcw5NMWU4UHM4RHJpUTg",
    "model": "gemini-3.5-flash",
    "object": "interaction",
    "steps": [
      {
        "type": "model_output",
        "content": [
          {
            "type": "text",
            "text": "Hello! I'm doing well, functioning as expected. Thank you for asking!
How are you doing today?"
          }
        ]
      }
    ],
    "status": "completed",
    "updated": "2025-12-04T15:01:45Z",
    "usage": {
```

```

    "input_tokens_by_modality": [
      {
        "modality": "text",
        "tokens": 7
      }
    ],
    "total_cached_tokens": 0,
    "total_input_tokens": 7,
    "total_output_tokens": 23,
    "total_thought_tokens": 49,
    "total_tokens": 79,
    "total_tool_use_tokens": 0
  }
},
"last_pause_time": "string",
"last_resume_time": "string",
"last_run_time": "string",
"max_consecutive_failures": 0,
"next_run_time": "string",
"previous_interaction_id": "string",
"schedule": "string",
"status": "active",
"time_zone": "string",
"update_time": "string"
}

```

ListTriggerExecutions

get https://generativelanguage.googleapis.com/v1beta/triggers/{trigger_id}/executions Lists executions for a trigger.

- [Path / Query parameters]

(<https://ai.google.dev/api/triggers#ListTriggerExecutions>.PATH_PARAMETERS)

- [Response](<https://ai.google.dev/api/triggers#ListTriggerExecutions>.response)

Path / Query Parameters

page_size integer (optional) Optional. The maximum number of executions to return per page.

page_token string (optional) Optional. A page token from a previous ListTriggerExecutions call.

Response

If successful, the response body contains data with the following structure:

next_page_token string (optional) A page token, received from a previous

\`ListTriggerExecutions\` call.

Provide this to retrieve the subsequent page.

trigger_executions array ([TriggerExecution])

(<https://ai.google.dev/api/triggers#Resource:TriggerExecution>)) (optional) The list of trigger executions.

Example

```

<iframe
src="https://ai.google.dev/api/triggers_d38ba4d65ae2de3c341cbf5acbcdb7c642f39bed084f90073b0de1f6b2a71df6.frame" class="framebox inherit-locale " allow="clipboard-write https://"
allowfullscreen is-upgraded></iframe>

```

Example Response

```

```json

```

```

{
 "next_page_token": "string",
 "trigger_executions": [
 {

```

```

 "end_time": "string",
 "environment_id": "string",
 "error": "string",
 "id": "string",
 "interaction_id": "string",
 "scheduled_time": "string",
 "start_time": "string",
 "status": "in_progress",
 "trigger_id": "string"
 }
]
}
\..

```

## ## UpdateTrigger

patch <https://generativelanguage.googleapis.com/v1beta/triggers/{id}> Updates a trigger.  
- [Request body]([https://ai.google.dev/api/triggers#UpdateTrigger.request\\_body](https://ai.google.dev/api/triggers#UpdateTrigger.request_body))  
- [Response](<https://ai.google.dev/api/triggers#UpdateTrigger.response>)

### ### Request body

The request body contains data with the following structure:  
display\_name string (optional) Optional. The display name of the trigger.  
status enum (string) (optional) Optional. The status of the trigger.

Possible  
values:

- `active`

The trigger is active and will fire on schedule.

- `paused`

The trigger is paused and will not fire.

- `error`

The trigger has entered an error state due to consecutive failures.

### ### Response

If successful, the response body contains data with the following structure:  
consecutive\_failure\_count integer (optional) Output only. The number of consecutive failures that have occurred since the last successful execution.  
create\_time string (optional) Output only. The time when the trigger was created.  
display\_name string (optional) Optional. The display name of the trigger.  
environment\_id string (optional) Optional. The environment ID for the trigger execution.  
execution\_timeout\_seconds integer (optional) Optional. The execution timeout for the triggered interaction.  
id string (optional) Required. Output only. Identifier. The ID of the trigger.  
interaction Interaction (optional) Required. The interaction request template to be executed.  
The Interaction resource.

### #### Fields

agent AgentOption (optional) The name of the `Agent` used for generating the interaction. The agent to interact with.

### #### Possible values

- `deep-research-pro-preview-12-2025`

Gemini Deep Research Agent

- `deep-research-preview-04-2026`

Gemini Deep Research Agent

- `deep-research-max-preview-04-2026`

Gemini Deep Research Max Agent

- `antigravity-preview-05-2026`

Use the Antigravity managed agent to perform multi-step tasks that require reasoning, file operations, and tool use.

agent\_config object (optional) Configuration parameters for the agent interaction.

#### #### Possible Types

Polymorphic discriminator: `type`

DynamicAgentConfig Configuration for dynamic agents.

type object (required) No description provided.

Always set to `"dynamic"`.

DeepResearchAgentConfig Configuration for the Deep Research agent.

collaborative\_planning boolean (optional) Enables human-in-the-loop planning for the Deep Research agent. If set to

true, the Deep Research agent will provide a research plan in its response.

The agent will then proceed only if the user confirms the plan in the next turn.

enable\_bigquery\_tool boolean (optional) Enables bigquery tool for the Deep Research agent.

thinking\_summaries ThinkingSummaries (optional) Whether to include thought summaries in the response.

<br />

#### #### Possible values

- `auto`

Auto thinking summaries.

- `none`

No thinking summaries.

type object (required) No description provided.

Always set to `"deep-research"`.

visualization enum (string) (optional) Whether to include visualizations in the response.

Possible  
values:

- `off`

Do not include visualizations.

- `auto`

Automatically include visualizations.

CodeMenderAgentConfig Configuration for the CodeMender agent.

find\_request FindRequest (optional) Parameters for finding vulnerabilities.

Request parameters specific to FIND sessions, used for discovering vulnerabilities in a codebase.

#### #### Fields

description string (optional) Additional context or custom instructions provided by the user to guide

the vulnerability analysis.

finding\_id string (optional) The identifier of a specific finding to verify. This is primarily used in

VERIFY mode to focus the agent's execution-based validation on a single

vulnerability.

mode enum (string) (optional) The mode of the find session.

Possible  
values:

- `scan`

Fast scan using only the initial classifier.

- `verify`

Performs classification followed by detailed investigation.

source\_files FileContent (optional) A list of source files to provide as context for the scan.

Content of a single file in the codebase.

#### Fields

content string (optional) The UTF-8 encoded text content of the file.

path string (optional) The relative path of the file from the project root.

fix\_request FixRequest (optional) Parameters for fixing vulnerabilities.

Request parameters specific to FIX sessions, used for generating and validating security patches.

#### Fields

description string (optional) Additional context or custom instructions provided by the user to guide

the patch generation process.

finding\_id string (optional) The identifier of the specific security finding to be remediated. This ID

maps to a previously discovered vulnerability.

source\_files FileContent (optional) A list of source files providing context for the remediation. These files

are typically the ones containing the identified vulnerability.

Content of a single file in the codebase.

#### Fields

content string (optional) The UTF-8 encoded text content of the file.

path string (optional) The relative path of the file from the project root.

model string (optional) The name of the model to use for the CodeMender agent. One CodeMender session will only use one model.

session\_config SessionConfig (optional) Optional session-specific configurations to override default agent

behavior.

The configuration of CodeMender sessions.

#### Fields

max\_rounds integer (optional) The maximum number of interaction rounds the agent is allowed to perform

before reaching a timeout.

session\_id string (optional) Parameter for grouping multiple interactions that belong to the same CodeMender session.

type object (required) No description provided.

Always set to `code-mender`.

AntigravityAgentConfig Configuration for the Antigravity agent runtime.

Provides server-side control over the agent's execution environment and tool configuration.

max\_total\_tokens string (optional) Max total tokens for the agent run.

type object (required) No description provided.

Always set to `antigravity`.



created string (optional) Output only. The time at which the response was created in ISO 8601 format (YYYY-MM-DDThh:mm:ssZ).  
environment EnvironmentConfig (optional) The environment configuration for the interaction. Can be an object specifying remote environment sources or a string referencing an existing environment ID.  
Configuration for a custom environment.

#### #### Fields

environment\_id string (optional) Optional. The environment ID for the interaction. If specified, the request will update the existing environment instead of creating a new one.  
network EnvironmentNetworkEgressAllowlist (optional) Network configuration for the environment.  
Outbound networking configuration for the sandbox. Accepts an object with an 'allowlist' array to restrict traffic, or the string 'disabled' to turn off all network access. Omit entirely to allow all outbound traffic with no header injection.

#### #### Possible Types

object Outbound networking configuration for the sandbox. When specified, restricts which external domains the sandbox can reach. Omit entirely to allow all outbound traffic with no header injection.  
allowlist AllowlistEntry (optional) List of allowed outbound domains. Only requests to listed domains are permitted. Use \['domain': '\*'\] to allow all domains while still injecting headers on specific ones.  
A single domain allowlist rule with optional header injection.

#### #### Fields

domain string (optional) Domain to allow outbound requests to. Supports wildcards (e.g. '\*.googleapis.com'). Use '\*' to allow all domains.  
transform array (object) or object (optional) Headers to inject on all outbound requests matching this domain. Accepts a single dict or a list of dicts. The egress proxy injects these automatically.  
string Turns all network off.

#### #### Possible values

- 'disabled'  
Turns all network off.  
sources Source (optional) No description provided.  
A source to be mounted into the environment.

#### #### Fields

content string (optional) The inline content if 'type' is 'INLINE'.  
encoding string (optional) Optional encoding for inline content (e.g. 'base64').  
source string (optional) The source of the environment.  
For GCS, this is the GCS path.  
For GitHub, this is the GitHub path.  
target string (optional) Where the source should appear in the environment.  
type enum (string) (optional) No description provided.

Possible values:

- 'gcs'  
A GCS bucket.  
- 'inline'  
Inline content.

- `repository`

A generic repository. The protocol prefix in the source URL identifies the provider (e.g., github://, gcs://).

- `skill\_registry`

A skill resource from the Skill Registry Service.

Skill: projects/{project}/locations/{location}/skills/{skill}

SkillRevision:

projects/{project}/locations/{location}/skills/{skill}/revisions/{revision}

Support mounting all skills under a project:

projects/{project}/locations/{location}/skills.

type object (optional) No description provided.

Always set to `"remote"`.

environment\_id string (optional) Output only. The environment ID for the interaction. Only populated if environment

config is set in the request.

id string (optional) Required. Output only. A unique identifier for the interaction completion.

\*Defaults to:\*

input Content or array (Content) or array (Step) or array (Turn) or string (optional) The input for the interaction.

labels object (optional) The labels with user-defined metadata for the request.

model ModelOption (optional) The name of the `Model` used for generating the interaction. The model that will complete your prompt.\\n\\nSee [models](https://ai.google.dev/gemini-api/docs/models) for additional details.

#### Possible values

- `gemini-2.5-flash`

Our first hybrid reasoning model which supports a 1M token context window and has thinking budgets.

- `gemini-2.5-pro`

Our state-of-the-art multipurpose model, which excels at coding and complex reasoning tasks.

- `gemma-4-26b-a4b-it`

Gemma 4 26B A4B IT

- `gemma-4-31b-it`

Gemma 4 31B IT

- `gemini-flash-latest`

Latest release of Gemini Flash

- `gemini-flash-lite-latest`

Latest release of Gemini Flash-Lite

- `gemini-pro-latest`

Latest release of Gemini Pro

- `gemini-2.5-flash-lite`

Our smallest and most cost effective model, built for at scale usage.

- `gemini-2.5-flash-image`

Our native image generation model, optimized for speed, flexibility, and contextual understanding. Text input and output is priced the same as 2.5 Flash.

- `gemini-3-flash-preview`

Our most intelligent model built for speed, combining frontier intelligence with superior search and grounding.

- `gemini-3.1-pro-preview`

Our latest SOTA reasoning model with unprecedented depth and nuance, and powerful multimodal understanding and coding capabilities.

- `gemini-3.1-pro-preview-customtools`

Gemini 3.1 Pro Preview optimized for custom tool usage

- `gemini-3.1-flash-lite`

Our most cost-efficient model, optimized for high-volume agentic tasks, translation, and simple data processing.

- `gemini-3-pro-image`

Gemini 3 Pro Image

- `nano-banana-pro-preview`

Gemini 3 Pro Image Preview

- `gemini-3.1-flash-image`

Gemini 3.1 Flash Image.

- `gemini-3.5-flash`

Our most intelligent model for sustained frontier performance in agentic and coding tasks.

- `lyria-3-clip-preview`

Our low-latency, music generation model optimized for high-fidelity audio clips and precise rhythmic control.

- `lyria-3-pro-preview`

Our advanced, full-song generative model with deep compositional understanding, optimized for precise structural control and complex transitions across diverse musical styles.

- `gemini-robotics-er-1.6-preview`

Gemini Robotics-ER 1.6 Preview

output\_audio AudioContent (optional) The last audio generated by the model in response to the current request.

Note: this is added by the SDK.

An audio content block.

#### Fields

channels integer (optional) The number of audio channels.

data string (optional) The audio content.

mime\_type enum (string) (optional) The mime type of the audio.

Possible  
values:

- `audio/wav`

WAV audio format

- `audio/mp3`

MP3 audio format

- `audio/aiff`

AIFF audio format

- `audio/aac`

AAC audio format

- `audio/ogg`

OGG audio format

- `audio/flac`

FLAC audio format  
- `audio/mpeg`

MPEG audio format  
- `audio/m4a`

M4A audio format  
- `audio/l16`

L16 audio format  
- `audio/opus`

OPUS audio format  
- `audio/alaw`

ALAW audio format  
- `audio/mulaw`

MULAW audio format  
sample\_rate integer (optional) The sample rate of the audio.  
type object (optional) No description provided.

Always set to `"audio"`.  
uri string (optional) The URI of the audio.  
output\_image ImageContent (optional) The last image generated by the model in response to the current request.

Note: this is added by the SDK.  
An image content block.

#### #### Fields

data string (optional) The image content.  
mime\_type enum (string) (optional) The mime type of the image.

Possible  
values:

- `image/png`

PNG image format  
- `image/jpeg`

JPEG image format  
- `image/webp`

WebP image format  
- `image/heic`

HEIC image format  
- `image/heif`

HEIF image format  
- `image/gif`

GIF image format  
- `image/bmp`

BMP image format  
- `image/tiff`

TIFF image format  
resolution MediaResolution (optional) The resolution of the media.  
<br />

#### #### Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (optional) No description provided.

Always set to `"image"`.

uri string (optional) The URI of the image.

output\_text string (optional) Concatenated text from the last model output in response to the current request.

Note: this is added by the SDK.

output\_video VideoContent (optional) The last video generated by the model in response to the current request.

Note: this is added by the SDK.

A video content block.

#### #### Fields

data string (optional) The video content.

mime\_type enum (string) (optional) The mime type of the video.

Possible  
values:

- `video/mp4`

MP4 video format

- `video/mpeg`

MPEG video format

- `video/mpg`

MPG video format

- `video/mov`

MOV video format

- `video/avi`

AVI video format

- `video/x-flv`

FLV video format

- `video/webm`

WebM video format

- `video/wmv`

WMV video format

- `video/3gpp`

3GPP video format

resolution MediaResolution (optional) The resolution of the media.

<br />

#### #### Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (optional) No description provided.

Always set to `"video"`.

uri string (optional) The URI of the video.

previous\_interaction\_id string (optional) The ID of the previous interaction, if any.

response\_format ResponseFormat (optional) Enforces that the generated response is a JSON object that complies with the JSON schema specified in this field.

<br />

#### #### Possible Types

AudioResponseFormat Configuration for audio output format.

bit\_rate integer (optional) Bit rate in bits per second (bps). Only applicable for compressed formats (MP3, Opus).

delivery enum (string) (optional) The delivery mode for the audio output.

Possible  
values:

- `inline`

Audio data is returned inline in the response.

- `uri`

Audio data is returned as a URI.

mime\_type enum (string) (optional) The MIME type of the audio output.

Possible  
values:

- `audio/mp3`

MP3 audio format.

- `audio/ogg\_opus`

OGG Opus audio format.

- `audio/l16`

Raw PCM (L16) audio format.

- `audio/wav`

WAV audio format.

- `audio/alaw`

A-law audio format.

- `audio/mulaw`

Mu-law audio format.

sample\_rate integer (optional) Sample rate in Hz.  
type object (required) No description provided.

Always set to `"audio"`.

TextResponseFormat Configuration for text output format.

mime\_type enum (string) (optional) The MIME type of the text output.

Possible  
values:

- `application/json`

JSON output format.

- `text/plain`

Plain text output format.

schema object (optional) The JSON schema that the output should conform to. Only applicable when

mime\_type is application/json.

type object (required) No description provided.

Always set to `"text"`.

ImageResponseFormat Configuration for image output format.

aspect\_ratio enum (string) (optional) The aspect ratio for the image output.

Possible  
values:

- `1:1`

1:1 aspect ratio.

- `2:3`

2:3 aspect ratio.

- `3:2`

3:2 aspect ratio.

- `3:4`

3:4 aspect ratio.

- `4:3`

4:3 aspect ratio.

- `4:5`

4:5 aspect ratio.

- `5:4`

5:4 aspect ratio.

- `9:16`

9:16 aspect ratio.

- `16:9`

16:9 aspect ratio.

- `21:9`

21:9 aspect ratio.

- `1:8`

1:8 aspect ratio.

- `8:1`

8:1 aspect ratio.

- `1:4`

1:4 aspect ratio.

- `4:1`

4:1 aspect ratio.

delivery enum (string) (optional) The delivery mode for the image output.

Possible  
values:

- `inline`

Image data is returned inline in the response.

- `uri`

Image data is returned as a URI.

image\_size enum (string) (optional) The size of the image output.

Possible  
values:

- `512`

512px image size.

- `1K`

1K image size.

- `2K`

2K image size.

- `4K`

4K image size.

mime\_type enum (string) (optional) The MIME type of the image output.

Possible  
values:

- `image/jpeg`

JPEG image format.

type object (required) No description provided.

Always set to `"image"`.

VideoResponseFormat Configuration for video output format.

aspect\_ratio enum (string) (optional) The aspect ratio for the video output.

Possible  
values:

- `16:9`

16:9 aspect ratio.

- `9:16`

9:16 aspect ratio.

delivery enum (string) (optional) The delivery mode for the video output.

Possible  
values:

- `inline`

Video data is returned inline in the response.

- `uri`



Video data is returned as a URI.  
duration string (optional) The duration for the video output.  
gcs\_uri string (optional) The GCS URI to store the video output. Required for Vertex if  
delivery mode  
is URI.  
type object (required) No description provided.

Always set to `"video"`.  
response\_modalities ResponseModality (optional) The requested modalities of the response  
(TEXT, IMAGE, AUDIO).  
<br />

#### #### Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

safety\_settings SafetySetting (optional) Safety settings for the interaction.  
A safety setting that affects the safety-blocking behavior.

A SafetySetting consists of a  
harm category and a  
threshold for that  
category.

#### #### Fields

method enum (string) (optional) Optional. The method for blocking content. If not specified,  
the default  
behavior is to use the probability score.

Possible  
values:

- `severity`

The harm block method uses both probability and severity scores.

- `probability`

The harm block method uses the probability score.

threshold enum (string) (optional) Required. The threshold for blocking content. If the harm  
probability  
exceeds this threshold, the content will be blocked.

Possible  
values:

- `block\_low\_and\_above`

Block content with a low harm probability or higher.

- `block\_medium\_and\_above`

Block content with a medium harm probability or higher.  
- `block\_only\_high`

Block content with a high harm probability.  
- `block\_none`

Do not block any content, regardless of its harm probability.  
- `off`

Turn off the safety filter entirely.  
type HarmCategory (optional) Required. The type of harm category to be blocked.  
<br />

#### Possible values

- `hate\_speech`  
Content that promotes violence or incites hatred against individuals or groups based on certain attributes.  
- `dangerous\_content`  
Content that promotes, facilitates, or enables dangerous activities.  
- `harassment`  
Abusive, threatening, or content intended to bully, torment, or ridicule.  
- `sexually\_explicit`

Content that contains sexually explicit material.  
- `civic\_integrity`

Deprecated: Election filter is not longer supported.  
The harm category is civic integrity.  
- `image\_hate`

Images that contain hate speech.  
- `image\_dangerous\_content`

Images that contain dangerous content.  
- `image\_harassment`

Images that contain harassment.  
- `image\_sexually\_explicit`

Images that contain sexually explicit content.  
- `jailbreak`

Prompts designed to bypass safety filters.  
service\_tier ServiceTier (optional) The service tier for the interaction.  
<br />

#### Possible values

- `flex`  
Flex service tier.  
- `standard`

Standard service tier.  
- `priority`

Priority service tier.  
status enum (string) (optional) Required. Output only. The status of the interaction.

Possible  
values:

- `in\_progress`

The interaction is in progress.

- `requires\_action`

The interaction requires action/input from the user.

- `completed`

The interaction is completed.

- `failed`

The interaction failed.

- `cancelled`

The interaction was cancelled.

- `incomplete`

The interaction is completed, but contains incomplete results (e.g. hitting max\_tokens).

- `budget\_exceeded`

The interaction was halted because the token budget was exceeded.

steps Step (optional) Output only. The steps that make up the interaction, when included in the response.

A step in the interaction.

#### #### Possible Types

Polymorphic discriminator: `type`

UserInputStep Input provided by the user.

content Content (optional) No description provided.

The content of the response.

#### #### Possible Types

Polymorphic discriminator: `type`

TextContent A text content block.

annotations Annotation (optional) Citation information for model-generated content.

Citation information for model-generated content.

#### #### Possible Types

Polymorphic discriminator: `type`

UrlCitation A URL citation annotation.

end\_index integer (optional) End of the attributed segment, exclusive.

start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

title string (optional) The title of the URL.

type object (required) No description provided.

Always set to `"url\_citation"`.

url string (optional) The URL.

FileCitation A file citation annotation.

custom\_metadata object (optional) User provided metadata about the retrieved context.

document\_uri string (optional) The URI of the file.

end\_index integer (optional) End of the attributed segment, exclusive.

file\_name string (optional) The name of the file.

media\_id string (optional) Media ID in-case of image citations, if applicable.

page\_number integer (optional) Page number of the cited document, if applicable.

source string (optional) Source attributed for a portion of the text.

start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.  
type object (required) No description provided.

Always set to `"file\_citation"`.

PlaceCitation A place citation annotation.

end\_index integer (optional) End of the attributed segment, exclusive.

name string (optional) Title of the place.

place\_id string (optional) The ID of the place, in `places/{place\_id}` format.

review\_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate answers about the

features of a given place in Google Maps.

Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

#### #### Fields

review\_id string (optional) The ID of the review snippet.

title string (optional) Title of the review.

url string (optional) A link that corresponds to the user review on Google Maps.

start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

type object (required) No description provided.

Always set to `"place\_citation"`.

url string (optional) URI reference of the place.

text string (required) Required. The text content.

type object (required) No description provided.

Always set to `"text"`.

ImageContent An image content block.

data string (optional) The image content.

mime\_type enum (string) (optional) The mime type of the image.

Possible  
values:

- `image/png`

PNG image format

- `image/jpeg`

JPEG image format

- `image/webp`

WebP image format

- `image/heic`

HEIC image format

- `image/heif`

HEIF image format

- `image/gif`

GIF image format

- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format

resolution MediaResolution (optional) The resolution of the media.

<br />

#### #### Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (required) No description provided.

Always set to `"image"`.

uri string (optional) The URI of the image.

AudioContent An audio content block.

channels integer (optional) The number of audio channels.

data string (optional) The audio content.

mime\_type enum (string) (optional) The mime type of the audio.

Possible  
values:

- `audio/wav`

WAV audio format

- `audio/mp3`

MP3 audio format

- `audio/aiff`

AIFF audio format

- `audio/aac`

AAC audio format

- `audio/ogg`

OGG audio format

- `audio/flac`

FLAC audio format

- `audio/mpeg`

MPEG audio format

- `audio/m4a`

M4A audio format

- `audio/l16`

L16 audio format

- `audio/opus`

OPUS audio format

- `audio/alaw`

ALAW audio format

- `audio/mulaw`

MULAW audio format

sample\_rate integer (optional) The sample rate of the audio.

type object (required) No description provided.

Always set to `"audio"`.  
uri string (optional) The URI of the audio.  
DocumentContent A document content block.  
data string (optional) The document content.  
mime\_type enum (string) (optional) The mime type of the document.

Possible  
values:

- `application/pdf`  
  
PDF document format
  - `text/csv`  
  
CSV document format
- type object (required) No description provided.

Always set to `"document"`.  
uri string (optional) The URI of the document.  
VideoContent A video content block.  
data string (optional) The video content.  
mime\_type enum (string) (optional) The mime type of the video.

Possible  
values:

- `video/mp4`  
  
MP4 video format
  - `video/mpeg`  
  
MPEG video format
  - `video/mpg`  
  
MPG video format
  - `video/mov`  
  
MOV video format
  - `video/avi`  
  
AVI video format
  - `video/x-flv`  
  
FLV video format
  - `video/webm`  
  
WebM video format
  - `video/wmv`  
  
WMV video format
  - `video/3gpp`  
  
3GPP video format
- resolution MediaResolution (optional) The resolution of the media.  
<br />

#### Possible values

- `low`  
  
Low resolution.
- `medium`  
  
Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (required) No description provided.

Always set to `"video"`.

uri string (optional) The URI of the video.

type object (required) No description provided.

Always set to `"user\_input"`.

ModelOutputStep Output generated by the model.

content Content (optional) No description provided.

The content of the response.

#### #### Possible Types

Polymorphic discriminator: `type`

TextContent A text content block.

annotations Annotation (optional) Citation information for model-generated content.

Citation information for model-generated content.

#### #### Possible Types

Polymorphic discriminator: `type`

UrlCitation A URL citation annotation.

end\_index integer (optional) End of the attributed segment, exclusive.

start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

title string (optional) The title of the URL.

type object (required) No description provided.

Always set to `"url\_citation"`.

url string (optional) The URL.

FileCitation A file citation annotation.

custom\_metadata object (optional) User provided metadata about the retrieved context.

document\_uri string (optional) The URI of the file.

end\_index integer (optional) End of the attributed segment, exclusive.

file\_name string (optional) The name of the file.

media\_id string (optional) Media ID in-case of image citations, if applicable.

page\_number integer (optional) Page number of the cited document, if applicable.

source string (optional) Source attributed for a portion of the text.

start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

type object (required) No description provided.

Always set to `"file\_citation"`.

PlaceCitation A place citation annotation.

end\_index integer (optional) End of the attributed segment, exclusive.

name string (optional) Title of the place.

place\_id string (optional) The ID of the place, in `places/{place\_id}` format.

review\_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate answers about the

features of a given place in Google Maps.

Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

#### #### Fields

review\_id string (optional) The ID of the review snippet.  
title string (optional) Title of the review.  
url string (optional) A link that corresponds to the user review on Google Maps.  
start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.  
type object (required) No description provided.

Always set to `"place\_citation"`.  
url string (optional) URI reference of the place.  
text string (required) Required. The text content.  
type object (required) No description provided.

Always set to `"text"`.  
ImageContent An image content block.  
data string (optional) The image content.  
mime\_type enum (string) (optional) The mime type of the image.

Possible  
values:

- `image/png`

PNG image format

- `image/jpeg`

JPEG image format

- `image/webp`

WebP image format

- `image/heic`

HEIC image format

- `image/heif`

HEIF image format

- `image/gif`

GIF image format

- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format

resolution MediaResolution (optional) The resolution of the media.

<br />

#### Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (required) No description provided.



Always set to `"image"`.  
uri string (optional) The URI of the image.  
AudioContent An audio content block.  
channels integer (optional) The number of audio channels.  
data string (optional) The audio content.  
mime\_type enum (string) (optional) The mime type of the audio.

Possible  
values:

- `audio/wav`  
  
WAV audio format
- `audio/mp3`  
  
MP3 audio format
- `audio/aiff`  
  
AIFF audio format
- `audio/aac`  
  
AAC audio format
- `audio/ogg`  
  
OGG audio format
- `audio/flac`  
  
FLAC audio format
- `audio/mpeg`  
  
MPEG audio format
- `audio/m4a`  
  
M4A audio format
- `audio/l16`  
  
L16 audio format
- `audio/opus`  
  
OPUS audio format
- `audio/alaw`  
  
ALAW audio format
- `audio/mulaw`  
  
MULAW audio format

sample\_rate integer (optional) The sample rate of the audio.  
type object (required) No description provided.

Always set to `"audio"`.  
uri string (optional) The URI of the audio.  
DocumentContent A document content block.  
data string (optional) The document content.  
mime\_type enum (string) (optional) The mime type of the document.

Possible  
values:

- `application/pdf`  
  
PDF document format
  - `text/csv`  
  
CSV document format
- type object (required) No description provided.

Always set to `"document"`.  
uri string (optional) The URI of the document.  
VideoContent A video content block.  
data string (optional) The video content.  
mime\_type enum (string) (optional) The mime type of the video.

Possible  
values:

- `video/mp4`  
MP4 video format
- `video/mpeg`  
MPEG video format
- `video/mpg`  
MPG video format
- `video/mov`  
MOV video format
- `video/avi`  
AVI video format
- `video/x-flv`  
FLV video format
- `video/webm`  
WebM video format
- `video/wmv`  
WMV video format
- `video/3gpp`  
3GPP video format

resolution MediaResolution (optional) The resolution of the media.  
<br />

#### Possible values

- `low`  
Low resolution.
- `medium`  
Medium resolution.
- `high`  
High resolution.
- `ultra\_high`  
Ultra high resolution.

type object (required) No description provided.

Always set to `"video"`.  
uri string (optional) The URI of the video.  
error Status (optional) The error result of the operation in case of failure or cancellation.  
The `Status` type defines a logical error model that is suitable for different programming environments, including REST APIs and RPC APIs. It is used by `gRPC` (<https://github.com/grpc>). Each `Status` message contains three pieces of data: error code, error message, and error details.

You can find out more about this error model and how to work with it in the  
[API Design Guide](https://cloud.google.com/apis/design/errors).

#### #### Fields

code integer (optional) The status code, which should be an enum value of google.rpc.Code.  
details array (object) (optional) A list of messages that carry the error details. There is  
a common set of  
message types for APIs to use.  
message string (optional) A developer-facing error message, which should be in English. Any  
user-facing error message should be localized and sent in the  
google.rpc.Status.details field, or localized by the client.  
type object (required) No description provided.

Always set to `"model\_output"`.

ThoughtStep A thought step.

signature string (optional) A signature hash for backend validation.

summary ThoughtSummaryContent (optional) A summary of the thought.

<br />

#### #### Possible Types

Polymorphic discriminator: `type`

TextContent A text content block.

annotations Annotation (optional) Citation information for model-generated content.

Citation information for model-generated content.

#### #### Possible Types

Polymorphic discriminator: `type`

UrlCitation A URL citation annotation.

end\_index integer (optional) End of the attributed segment, exclusive.

start\_index integer (optional) Start of segment of the response that is attributed to this  
source.

Index indicates the start of the segment, measured in bytes.

title string (optional) The title of the URL.

type object (required) No description provided.

Always set to `"url\_citation"`.

url string (optional) The URL.

FileCitation A file citation annotation.

custom\_metadata object (optional) User provided metadata about the retrieved context.

document\_uri string (optional) The URI of the file.

end\_index integer (optional) End of the attributed segment, exclusive.

file\_name string (optional) The name of the file.

media\_id string (optional) Media ID in-case of image citations, if applicable.

page\_number integer (optional) Page number of the cited document, if applicable.

source string (optional) Source attributed for a portion of the text.

start\_index integer (optional) Start of segment of the response that is attributed to this  
source.

Index indicates the start of the segment, measured in bytes.

type object (required) No description provided.

Always set to `"file\_citation"`.

PlaceCitation A place citation annotation.

end\_index integer (optional) End of the attributed segment, exclusive.

name string (optional) Title of the place.

place\_id string (optional) The ID of the place, in `places/{place\_id}` format.

review\_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate  
answers about the

features of a given place in Google Maps.

Encapsulates a snippet of a user review that answers a question about  
the features of a specific place in Google Maps.

#### #### Fields

review\_id string (optional) The ID of the review snippet.  
title\_string (optional) Title of the review.  
url string (optional) A link that corresponds to the user review on Google Maps.  
start\_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.  
type object (required) No description provided.

Always set to `"place\_citation"`.  
url string (optional) URI reference of the place.  
text string (required) Required. The text content.  
type object (required) No description provided.

Always set to `"text"`.  
ImageContent An image content block.  
data string (optional) The image content.  
mime\_type enum (string) (optional) The mime type of the image.

Possible  
values:

- `image/png`

PNG image format

- `image/jpeg`

JPEG image format

- `image/webp`

WebP image format

- `image/heic`

HEIC image format

- `image/heif`

HEIF image format

- `image/gif`

GIF image format

- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format

resolution MediaResolution (optional) The resolution of the media.

<br />

#### #### Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.  
type object (required) No description provided.

Always set to `"image"`.  
uri string (optional) The URI of the image.  
type object (required) No description provided.

Always set to `"thought"`.  
FunctionCallStep A function tool call step.  
arguments object (required) Required. The arguments to pass to the function.  
id string (required) Required. A unique ID for this specific tool call.  
name string (required) Required. The name of the tool to call.  
type object (required) No description provided.

Always set to `"function\_call"`.  
CodeExecutionCallStep Code execution call step.  
arguments CodeExecutionCallStepArguments (required) Required. The arguments to pass to the code execution.  
The arguments to pass to the code execution.

#### #### Fields

code string (optional) The code to be executed.  
language enum (string) (optional) Programming language of the `code`.

Possible  
values:

- `python`

Python  $\geq 3.10$ , with numpy and simpy available.  
id string (required) Required. A unique ID for this specific tool call.  
signature string (optional) A signature hash for backend validation.  
type object (required) No description provided.

Always set to `"code\_execution\_call"`.  
UrlContextCallStep URL context call step.  
arguments UrlContextCallArguments (required) Required. The arguments to pass to the URL context.  
The arguments to pass to the URL context.

#### #### Fields

urls array (string) (optional) The URLs to fetch.  
id string (required) Required. A unique ID for this specific tool call.  
signature string (optional) A signature hash for backend validation.  
type object (required) No description provided.

Always set to `"url\_context\_call"`.  
McpServerToolCallStep MCPServer tool call step.  
arguments object (required) Required. The JSON object of arguments for the function.  
id string (required) Required. A unique ID for this specific tool call.  
name string (required) Required. The name of the tool which was called.  
server\_name string (required) Required. The name of the used MCP server.  
type object (required) No description provided.

Always set to `"mcp\_server\_tool\_call"`.  
GoogleSearchCallStep Google Search call step.  
arguments GoogleSearchCallStepArguments (required) Required. The arguments to pass to Google Search.  
The arguments to pass to Google Search.

#### #### Fields

queries array (string) (optional) Web search queries for the following-up web search.

id string (required) Required. A unique ID for this specific tool call.  
search\_type enum (string) (optional) The type of search grounding enabled.

Possible  
values:

- `web\_search`

Setting this field enables web search. Only text results are returned.

- `image\_search`

Setting this field enables image search. Image bytes are returned.

- `enterprise\_web\_search`

Setting this field enables enterprise web search.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"google\_search\_call"`.

FileSearchCallStep File Search call step.

id string (required) Required. A unique ID for this specific tool call.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"file\_search\_call"`.

GoogleMapsCallStep Google Maps call step.

arguments GoogleMapsCallStepArguments (optional) The arguments to pass to the Google Maps tool.

The arguments to pass to the Google Maps tool.

#### #### Fields

queries array (string) (optional) The queries to be executed.

id string (required) Required. A unique ID for this specific tool call.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"google\_maps\_call"`.

FunctionResultStep Result of a function tool call.

call\_id string (required) Required. ID to match the ID from the function call block.

is\_error boolean (optional) Whether the tool call resulted in an error.

name string (optional) The name of the tool that was called.

result array (ImageContent or TextContent) or object or string (required) The result of the tool call.

type object (required) No description provided.

Always set to `"function\_result"`.

CodeExecutionResultStep Code execution result step.

call\_id string (required) Required. ID to match the ID from the function call block.

is\_error boolean (optional) Whether the code execution resulted in an error.

result string (required) Required. The output of the code execution.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"code\_execution\_result"`.

UrlContextResultStep URL context result step.

call\_id string (required) Required. ID to match the ID from the function call block.

is\_error boolean (optional) Whether the URL context resulted in an error.

result UrlContextResult (required) Required. The results of the URL context.

The result of the URL context.

#### #### Fields

status enum (string) (optional) The status of the URL retrieval.

Possible  
values:

- `success`

Url retrieval is successful.

- `error`

Url retrieval is failed due to error.

- `paywall`

Url retrieval is failed because the content is behind paywall.

- `unsafe`

Url retrieval is failed because the content is unsafe.

url string (optional) The URL that was fetched.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `url\_context\_result`.

GoogleSearchResultStep Google Search result step.

call\_id string (required) Required. ID to match the ID from the function call block.

is\_error boolean (optional) Whether the Google Search resulted in an error.

result GoogleSearchResultItem (required) Required. The results of the Google Search.

The result of the Google Search.

#### Fields

search\_suggestions string (optional) Web content snippet that can be embedded in a web page or an app webview.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `google\_search\_result`.

McpServerToolResultStep MCPServer tool result step.

call\_id string (required) Required. ID to match the ID from the function call block.

name\_string (optional) Name of the tool which is called for this specific tool call.

result array (ImageContent or TextContent) or object or string (required) The output from the MCP server call. Can be simple text or rich content.

server\_name string (optional) The name of the used MCP server.

type object (required) No description provided.

Always set to `mcp\_server\_tool\_result`.

FileSearchResultStep File Search result step.

call\_id string (required) Required. ID to match the ID from the function call block.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `file\_search\_result`.

GoogleMapsResultStep Google Maps result step.

call\_id string (required) Required. ID to match the ID from the function call block.

result GoogleMapsResultItem (required) No description provided.

The result of the Google Maps.

#### Fields

places GoogleMapsResultPlaces (optional) No description provided.

<br />

#### Fields

name string (optional) No description provided.

place\_id string (optional) No description provided.

review\_snippets ReviewSnippet (optional) No description provided.

Encapsulates a snippet of a user review that answers a question about

the features of a specific place in Google Maps.

#### #### Fields

review\_id string (optional) The ID of the review snippet.  
title string (optional) Title of the review.  
url string (optional) A link that corresponds to the user review on Google Maps.  
url string (optional) No description provided.  
widget\_context\_token string (optional) No description provided.  
signature string (optional) A signature hash for backend validation.  
type object (required) No description provided.

Always set to `"google\_maps\_result"`.  
system\_instruction string (optional) System instruction for the interaction.  
tools Tool (optional) A list of tool declarations the model may call during interaction.  
A tool that can be used by the model.

#### #### Possible Types

Polymorphic discriminator: `type`  
Function A tool that can be used by the model.  
description string (optional) A description of the function.  
name string (optional) The name of the function.  
parameters object (optional) The JSON Schema for the function's parameters.  
type object (required) No description provided.

Always set to `"function"`.  
CodeExecution A tool that can be used by the model to execute code.  
type object (required) No description provided.

Always set to `"code\_execution"`.  
UrlContext A tool that can be used by the model to fetch URL context.  
type object (required) No description provided.

Always set to `"url\_context"`.  
ComputerUse A tool that can be used by the model to interact with the computer.  
disabled\_safety\_policies array (enum (string)) (optional) Optional. Disabled safety policies for computer use.

Possible  
values:

- `financial\_transactions`

Safety policy for financial transactions.

- `sensitive\_data\_modification`

Safety policy for sensitive data modification.

- `communication\_tool`

Safety policy for communication tools (e.g. Gmail, Chat, Meet).

- `account\_creation`

Safety policy for account creation.

- `data\_modification`

Safety policy for data modification.

- `user\_consent\_management`

Safety policy for user consent management.

- `legal\_terms\_and\_agreements`

Safety policy for legal terms and agreements.

enable\_prompt\_injection\_detection boolean (optional) Whether enable the prompt injection detection check on computer-use



request.  
environment enum (string) (optional) The environment being operated.

Possible  
values:

- `browser`

Operates in a web browser.

- `mobile`

Operates in a mobile environment.

- `desktop`

Operates in a desktop environment.

excluded\_predefined\_functions array (string) (optional) The list of predefined functions that are excluded from the model call.

type object (required) No description provided.

Always set to `"computer\_use"`.

McpServer A MCPServer is a server that can be called by the model to perform actions.

allowed\_tools AllowedTools (optional) The allowed tools.

The configuration for allowed tools.

#### Fields

mode enum (string) (optional) The mode of the tool choice.

Possible  
values:

- `auto`

Auto tool choice.

- `any`

Any tool choice.

- `none`

No tool choice.

- `validated`

Validated tool choice.

tools array (string) (optional) The names of the allowed tools.

headers object (optional) Optional: Fields for authentication headers, timeouts, etc., if needed.

name string (optional) The name of the MCPServer.

type object (required) No description provided.

Always set to `"mcp\_server"`.

url string (optional) The full URL for the MCPServer endpoint.

Example: "https://api.example.com/mcp"

GoogleSearch A tool that can be used by the model to search Google.

search\_types array (enum (string)) (optional) The types of search grounding to enable.

Possible  
values:

- `web\_search`

Setting this field enables web search. Only text results are returned.

- `image\_search`

Setting this field enables image search. Image bytes are returned.

- `enterprise\_web\_search`

Setting this field enables enterprise web search.  
type object (required) No description provided.

Always set to `"google\_search"`.

FileSearch A tool that can be used by the model to search files.

file\_search\_store\_names array (string) (optional) The file search store names to search.

metadata\_filter string (optional) Metadata filter to apply to the semantic retrieval documents and chunks.

top\_k integer (optional) The number of semantic retrieval chunks to retrieve.

type object (required) No description provided.

Always set to `"file\_search"`.

GoogleMaps A tool that can be used by the model to call Google Maps.

enable\_widget boolean (optional) Whether to return a widget context token in the tool call result of the response.

latitude number (optional) The latitude of the user's location.

longitude number (optional) The longitude of the user's location.

type object (required) No description provided.

Always set to `"google\_maps"`.

Retrieval A tool that can be used by the model to retrieve files.

exa\_ai\_search\_config ExaAISearchConfig (optional) Used to specify configuration for ExaAISearch.

Used to specify configuration for ExaAISearch.

#### Fields

api\_key string (optional) Required. The API key for ExaAiSearch.

custom\_config object (optional) Optional. This field can be used to pass any parameter from the Exa.ai Search API.

parallel\_ai\_search\_config ParallelAISearchConfig (optional) Used to specify configuration for ParallelAISearch.

Used to specify configuration for ParallelAISearch.

#### Fields

api\_key string (optional) Optional. The API key for ParallelAiSearch.

custom\_config object (optional) Optional. Custom configs for ParallelAiSearch.

rag\_store\_config RagStoreConfig (optional) Used to specify configuration for RagStore.

Use to specify configuration for RAG Store.

#### Fields

rag\_resources RagResource (optional) Optional. The representation of the rag source.

The definition of the Rag resource.

#### Fields

rag\_corpus string (optional) Optional. RagCorpora resource name.

rag\_file\_ids array (string) (optional) Optional. rag\_file\_id. The files should be in the same rag\_corpus set in

rag\_corpus field.

rag\_retrieval\_config RagRetrievalConfig (optional) Optional. The retrieval config for the Rag query.

Specifies the context retrieval config.

#### Fields

filter Filter (optional) Optional. Config for filters.

Config for filters.

#### Fields

metadata\_filter string (optional) Optional. String for metadata filtering.  
vector\_distance\_threshold number (optional) Optional. Only returns contexts with vector distance smaller than the threshold.  
vector\_similarity\_threshold number (optional) Optional. Only returns contexts with vector similarity larger than the threshold.  
hybrid\_search HybridSearch (optional) Optional. Config for Hybrid Search.  
Config for Hybrid Search.

#### #### Fields

alpha number (optional) Optional. Alpha value controls the weight between dense and sparse vector search results.  
ranking Ranking (optional) Optional. Config for ranking and reranking.  
Config for ranking and reranking.  
top\_k integer (optional) Optional. The number of contexts to retrieve.  
retrieval\_types array (enum (string)) (optional) The types of file retrieval to enable.

Possible values:

- `rag\_store`
- `exa\_ai\_search`
- `parallel\_ai\_search`

type object (required) No description provided.

Always set to `"retrieval"`.  
updated string (optional) Output only. The time at which the response was last updated in ISO 8601 format (YYYY-MM-DDThh:mm:ssZ).  
usage Usage (optional) Output only. Statistics on the interaction request's token usage. Statistics on the interaction request's token usage.

#### #### Fields

cached\_tokens\_by\_modality ModalityTokens (optional) A breakdown of cached token usage by modality.  
The token count for a single response modality.

#### #### Fields

modality ResponseModality (optional) The modality associated with the token count.  
<br />

#### #### Possible values

- `text`  
  
Indicates the model should return text.
- `image`  
  
Indicates the model should return images.
- `audio`  
  
Indicates the model should return audio.
- `video`  
  
Indicates the model should return video.
- `document`  
  
Indicates the model should return documents.

tokens integer (optional) Number of tokens for the modality.  
grounding\_tool\_count GroundingToolCount (optional) Grounding tool count.

The number of grounding tool counts.

#### #### Fields

count integer (optional) The number of grounding tool counts.

type enum (string) (optional) The grounding tool type associated with the count.

Possible  
values:

- `google\_search`

Grounding with Google Web Search and Image Search, \& Web Grounding for Enterprise.

- `google\_maps`

Grounding with Google Maps.

- `retrieval`

Grounding with customer's data, for example, VertexAISearch.

input\_tokens\_by\_modality ModalityTokens (optional) A breakdown of input token usage by modality.

The token count for a single response modality.

#### #### Fields

modality ResponseModality (optional) The modality associated with the token count.

<br />

#### #### Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

tokens integer (optional) Number of tokens for the modality.

output\_tokens\_by\_modality ModalityTokens (optional) A breakdown of output token usage by modality.

The token count for a single response modality.

#### #### Fields

modality ResponseModality (optional) The modality associated with the token count.

<br />

#### #### Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.  
- `video`

Indicates the model should return video.  
- `document`

Indicates the model should return documents.  
tokens integer (optional) Number of tokens for the modality.  
tool\_use\_tokens\_by\_modality ModalityTokens (optional) A breakdown of tool-use token usage by modality.  
The token count for a single response modality.

#### #### Fields

modality ResponseModality (optional) The modality associated with the token count.  
<br />

#### #### Possible values

- `text`

Indicates the model should return text.  
- `image`

Indicates the model should return images.  
- `audio`

Indicates the model should return audio.  
- `video`

Indicates the model should return video.  
- `document`

Indicates the model should return documents.  
tokens integer (optional) Number of tokens for the modality.  
total\_cached\_tokens integer (optional) Number of tokens in the cached part of the prompt (the cached content).  
total\_input\_tokens integer (optional) Number of tokens in the prompt (context).  
total\_output\_tokens integer (optional) Total number of tokens across all the generated responses.  
total\_thought\_tokens integer (optional) Number of tokens of thoughts for thinking models.  
total\_tokens integer (optional) Total token count for the interaction request (prompt + responses + other internal tokens).  
total\_tool\_use\_tokens integer (optional) Number of tokens present in tool-use prompt(s).  
webhook\_config WebhookConfig (optional) Optional. Webhook configuration for receiving notifications when the interaction completes.  
Message for configuring webhook events for a request.

#### #### Fields

uris array (string) (optional) Optional. If set, these webhook URIs will be used for webhook events instead of the registered webhooks.  
user\_metadata object (optional) Optional. The user metadata that will be returned on each event emission to the webhooks.  
last\_pause\_time string (optional) Output only. The time when the trigger was last paused.  
last\_resume\_time string (optional) Output only. The time when the trigger was last resumed.  
last\_run\_time string (optional) Output only. The time when the trigger was last run.  
max\_consecutive\_failures integer (optional) Optional. The maximum number of consecutive failures allowed before the trigger is automatically paused (status becomes ERROR).

next\_run\_time string (optional) Output only. The time when the trigger is scheduled to run next.  
previous\_interaction\_id string (optional) Output only. The ID of the last interaction created by this trigger.  
schedule string (optional) Required. The cron schedule on which the trigger should run. Standard cron format.  
status enum (string) (optional) Output only. The current status of the trigger.

Possible  
values:

- `active`

The trigger is active and will fire on schedule.

- `paused`

The trigger is paused and will not fire.

- `error`

The trigger has entered an error state due to consecutive failures.

time\_zone string (optional) Required. Time zone in which the schedule should be interpreted.

update\_time string (optional) Output only. The time when the trigger was last updated.

### Example

```
<iframe
src="https://frame/api/triggers_688432ac6861c110cf6e29cb42c21d64ee43c80a0b5ef324falb757c973
d2ab9.frame" class="framebox inherit-locale " allow="clipboard-write https://"
allowfullscreen is-upgraded></iframe>
```

#### Example Response

```json

```
{
  "consecutive_failure_count": 0,
  "create_time": "string",
  "display_name": "string",
  "environment_id": "string",
  "execution_timeout_seconds": 0,
  "id": "string",
  "interaction": {
    "created": "2025-12-04T15:01:45Z",
    "id": "v1_ChdxS0l4YWZXTk9xbk0xZThQczhEcmlROBIXV0tJeGFmV05PcW5NMWU4UHM4RHJpUTg",
    "model": "gemini-3.5-flash",
    "object": "interaction",
    "steps": [
      {
        "type": "model_output",
        "content": [
          {
            "type": "text",
            "text": "Hello! I'm doing well, functioning as expected. Thank you for asking!
How are you doing today?"
          }
        ]
      }
    ],
    "status": "completed",
    "updated": "2025-12-04T15:01:45Z",
    "usage": {
      "input_tokens_by_modality": [
        {
          "modality": "text",
          "tokens": 7
        }
      ]
    }
  }
}
```

```

    ],
    "total_cached_tokens": 0,
    "total_input_tokens": 7,
    "total_output_tokens": 23,
    "total_thought_tokens": 49,
    "total_tokens": 79,
    "total_tool_use_tokens": 0
  }
},
"last_pause_time": "string",
"last_resume_time": "string",
"last_run_time": "string",
"max_consecutive_failures": 0,
"next_run_time": "string",
"previous_interaction_id": "string",
"schedule": "string",
"status": "active",
"time_zone": "string",
"update_time": "string"
}

```

DeleteTrigger

delete <https://generativelanguage.googleapis.com/v1beta/triggers/{id}> Deletes a trigger.
 - [Response](<https://ai.google.dev/api/triggers#DeleteTrigger.response>)

Response

If successful, the response is empty.

Example

```

<iframe
src="https://frame/api/triggers_2f61d2ed63f72748ba633b64f7ccc8683e6a31cfce26bd5490f2037cdd9
fc1e8.frame" class="framebox inherit-locale " allow="clipboard-write https://"
allowfullscreen is-upgraded></iframe>

```

Resources

Trigger

A trigger configuration that is scheduled to run an agent.

Fields

consecutive_failure_count integer (optional) Output only. The number of consecutive failures that have occurred since the last successful execution.
 create_time string (optional) Output only. The time when the trigger was created.
 display_name string (optional) Optional. The display name of the trigger.
 environment_id string (optional) Optional. The environment ID for the trigger execution.
 execution_timeout_seconds integer (optional) Optional. The execution timeout for the triggered interaction.
 id string (optional) Required. Output only. Identifier. The ID of the trigger.
 interaction Interaction (optional) Required. The interaction request template to be executed.
 The Interaction resource.

Fields

agent AgentOption (optional) The name of the \Agent\ used for generating the interaction. The agent to interact with.

Possible values

- `deep-research-pro-preview-12-2025`

Gemini Deep Research Agent

- `deep-research-preview-04-2026`

Gemini Deep Research Agent

- `deep-research-max-preview-04-2026`

Gemini Deep Research Max Agent

- `antigravity-preview-05-2026`

Use the Antigravity managed agent to perform multi-step tasks that require reasoning, file operations, and tool use.

agent_config object (optional) Configuration parameters for the agent interaction.

Possible Types

Polymorphic discriminator: `type`

DynamicAgentConfig Configuration for dynamic agents.

type object (required) No description provided.

Always set to `"dynamic"`.

DeepResearchAgentConfig Configuration for the Deep Research agent.

collaborative_planning boolean (optional) Enables human-in-the-loop planning for the Deep Research agent. If set to

true, the Deep Research agent will provide a research plan in its response.

The agent will then proceed only if the user confirms the plan in the next turn.

enable_bigquery_tool boolean (optional) Enables bigquery tool for the Deep Research agent.

thinking_summaries ThinkingSummaries (optional) Whether to include thought summaries in the response.

Possible values

- `auto`

Auto thinking summaries.

- `none`

No thinking summaries.

type object (required) No description provided.

Always set to `"deep-research"`.

visualization enum (string) (optional) Whether to include visualizations in the response.

Possible

values:

- `off`

Do not include visualizations.

- `auto`

Automatically include visualizations.

CodeMenderAgentConfig Configuration for the CodeMender agent.

find_request FindRequest (optional) Parameters for finding vulnerabilities.

Request parameters specific to FIND sessions, used for discovering vulnerabilities in a codebase.

Fields

description string (optional) Additional context or custom instructions provided by the user to guide

the vulnerability analysis.
finding_id string (optional) The identifier of a specific finding to verify. This is primarily used in
VERIFY mode to focus the agent's execution-based validation on a single vulnerability.
mode enum (string) (optional) The mode of the find session.

Possible
values:

- `scan`

Fast scan using only the initial classifier.

- `verify`

Performs classification followed by detailed investigation.

source_files FileContent (optional) A list of source files to provide as context for the scan.

Content of a single file in the codebase.

Fields

content string (optional) The UTF-8 encoded text content of the file.

path string (optional) The relative path of the file from the project root.

fix_request FixRequest (optional) Parameters for fixing vulnerabilities.

Request parameters specific to FIX sessions, used for generating and validating security patches.

Fields

description string (optional) Additional context or custom instructions provided by the user to guide
the patch generation process.

finding_id string (optional) The identifier of the specific security finding to be remediated. This ID
maps to a previously discovered vulnerability.

source_files FileContent (optional) A list of source files providing context for the remediation. These files
are typically the ones containing the identified vulnerability.
Content of a single file in the codebase.

Fields

content string (optional) The UTF-8 encoded text content of the file.

path string (optional) The relative path of the file from the project root.

model string (optional) The name of the model to use for the CodeMender agent. One
CodeMender session will only use one model.

session_config SessionConfig (optional) Optional session-specific configurations to override
default agent
behavior.

The configuration of CodeMender sessions.

Fields

max_rounds integer (optional) The maximum number of interaction rounds the agent is allowed
to perform
before reaching a timeout.

session_id string (optional) Parameter for grouping multiple interactions that belong to
the same CodeMender session.

type object (required) No description provided.

Always set to `code-mender`.

AntigravityAgentConfig Configuration for the Antigravity agent runtime.
Provides server-side control over the agent's execution environment
and tool configuration.

max_total_tokens string (optional) Max total tokens for the agent run.
type object (required) No description provided.

Always set to `"antigravity"`.

created string (optional) Output only. The time at which the response was created in ISO 8601 format (YYYY-MM-DDThh:mm:ssZ).

environment EnvironmentConfig (optional) The environment configuration for the interaction. Can be an object specifying remote environment sources or a string referencing an existing environment ID.

Configuration for a custom environment.

Fields

environment_id string (optional) Optional. The environment ID for the interaction. If specified, the request will

update the existing environment instead of creating a new one.

network EnvironmentNetworkEgressAllowlist (optional) Network configuration for the environment.

Outbound networking configuration for the sandbox. Accepts an object with an 'allowlist' array to restrict traffic, or the string 'disabled' to turn off all network access. Omit entirely to allow all outbound traffic with no header injection.

Possible Types

object Outbound networking configuration for the sandbox. When specified, restricts which external domains the sandbox can reach. Omit entirely to allow all outbound traffic with no header injection.

allowlist AllowlistEntry (optional) List of allowed outbound domains. Only requests to listed domains are permitted. Use `\['domain': '*']` to allow all domains while still injecting headers on specific ones.

A single domain allowlist rule with optional header injection.

Fields

domain string (optional) Domain to allow outbound requests to. Supports wildcards (e.g. `*.googleapis.com`). Use `*` to allow all domains.

transform array (object) or object (optional) Headers to inject on all outbound requests matching this domain. Accepts a single dict or a list of dicts. The egress proxy injects these automatically.

string Turns all network off.

Possible values

- `disabled`

Turns all network off.

sources Source (optional) No description provided.

A source to be mounted into the environment.

Fields

content string (optional) The inline content if `type` is `INLINE`.

encoding string (optional) Optional encoding for inline content (e.g. `base64`).

source string (optional) The source of the environment.

For GCS, this is the GCS path.

For GitHub, this is the GitHub path.

target string (optional) Where the source should appear in the environment.

type enum (string) (optional) No description provided.

Possible
values:

- `gcs`

A GCS bucket.
- `inline`

Inline content.
- `repository`

A generic repository. The protocol prefix in the source URL identifies the provider (e.g., github://, gcs://).
- `skill\_registry`

A skill resource from the Skill Registry Service.
Skill: projects/{project}/locations/{location}/skills/{skill}
SkillRevision:
projects/{project}/locations/{location}/skills/{skill}/revisions/{revision}
Support mounting all skills under a project:
projects/{project}/locations/{location}/skills.
type object (optional) No description provided.

Always set to `"remote"`.
environment_id string (optional) Output only. The environment ID for the interaction. Only populated if environment config is set in the request.
id string (optional) Required. Output only. A unique identifier for the interaction completion.

Defaults to:

input Content or array (Content) or array (Step) or array (Turn) or string (optional) The input for the interaction.
labels object (optional) The labels with user-defined metadata for the request.
model ModelOption (optional) The name of the `Model` used for generating the interaction. The model that will complete your prompt.\\n\\nSee [models](https://ai.google.dev/gemini-api/docs/models) for additional details.

Possible values

- `gemini-2.5-flash`

Our first hybrid reasoning model which supports a 1M token context window and has thinking budgets.

- `gemini-2.5-pro`

Our state-of-the-art multipurpose model, which excels at coding and complex reasoning tasks.

- `gemma-4-26b-a4b-it`

Gemma 4 26B A4B IT

- `gemma-4-31b-it`

Gemma 4 31B IT

- `gemini-flash-latest`

Latest release of Gemini Flash

- `gemini-flash-lite-latest`

Latest release of Gemini Flash-Lite

- `gemini-pro-latest`

Latest release of Gemini Pro

- `gemini-2.5-flash-lite`

Our smallest and most cost effective model, built for at scale usage.

- `gemini-2.5-flash-image`

Our native image generation model, optimized for speed, flexibility, and contextual understanding. Text input and output is priced the same as 2.5 Flash.

- `gemini-3-flash-preview`

Our most intelligent model built for speed, combining frontier intelligence with superior search and grounding.

- `gemini-3.1-pro-preview`

Our latest SOTA reasoning model with unprecedented depth and nuance, and powerful multimodal understanding and coding capabilities.

- `gemini-3.1-pro-preview-customtools`

Gemini 3.1 Pro Preview optimized for custom tool usage

- `gemini-3.1-flash-lite`

Our most cost-efficient model, optimized for high-volume agentic tasks, translation, and simple data processing.

- `gemini-3-pro-image`

Gemini 3 Pro Image

- `nano-banana-pro-preview`

Gemini 3 Pro Image Preview

- `gemini-3.1-flash-image`

Gemini 3.1 Flash Image.

- `gemini-3.5-flash`

Our most intelligent model for sustained frontier performance in agentic and coding tasks.

- `lyria-3-clip-preview`

Our low-latency, music generation model optimized for high-fidelity audio clips and precise rhythmic control.

- `lyria-3-pro-preview`

Our advanced, full-song generative model with deep compositional understanding, optimized for precise structural control and complex transitions across diverse musical styles.

- `gemini-robotics-er-1.6-preview`

Gemini Robotics-ER 1.6 Preview

output_audio AudioContent (optional) The last audio generated by the model in response to the current request.

Note: this is added by the SDK.
An audio content block.

Fields

channels integer (optional) The number of audio channels.

data string (optional) The audio content.

mime_type enum (string) (optional) The mime type of the audio.

Possible
values:

- `audio/wav`

WAV audio format

- `audio/mp3`

MP3 audio format

- `audio/aiff`

AIFF audio format

- `audio/aac`

AAC audio format

- `audio/ogg`

OGG audio format

- `audio/flac`

FLAC audio format

- `audio/mpeg`

MPEG audio format

- `audio/m4a`

M4A audio format

- `audio/l16`

L16 audio format

- `audio/opus`

OPUS audio format

- `audio/alaw`

ALAW audio format

- `audio/mulaw`

MULAW audio format

sample_rate integer (optional) The sample rate of the audio.

type object (optional) No description provided.

Always set to `"audio"`.

uri string (optional) The URI of the audio.

output_image ImageContent (optional) The last image generated by the model in response to the current request.

Note: this is added by the SDK.

An image content block.

Fields

data string (optional) The image content.

mime_type enum (string) (optional) The mime type of the image.

Possible

values:

- `image/png`

PNG image format

- `image/jpeg`

JPEG image format

- `image/webp`

WebP image format

- `image/heic`

HEIC image format

- `image/heif`

HEIF image format

- `image/gif`

GIF image format

- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format
resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (optional) No description provided.

Always set to `"image"`.

uri string (optional) The URI of the image.

output_text string (optional) Concatenated text from the last model output in response to the current request.

Note: this is added by the SDK.

output_video VideoContent (optional) The last video generated by the model in response to the current request.

Note: this is added by the SDK.

A video content block.

Fields

data string (optional) The video content.

mime_type enum (string) (optional) The mime type of the video.

Possible
values:

- `video/mp4`

MP4 video format

- `video/mpeg`

MPEG video format

- `video/mpg`

MPG video format

- `video/mov`

MOV video format

- `video/avi`

AVI video format

- `video/x-flv`

FLV video format

- `video/webm`

WebM video format

- `video/wmv`

WMV video format

- `video/3gpp`

3GPP video format
resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (optional) No description provided.

Always set to `"video"`.

uri string (optional) The URI of the video.

previous_interaction_id string (optional) The ID of the previous interaction, if any.

response_format ResponseFormat (optional) Enforces that the generated response is a JSON object that complies with the JSON schema specified in this field.

Possible Types

AudioResponseFormat Configuration for audio output format.

bit_rate integer (optional) Bit rate in bits per second (bps). Only applicable for compressed formats (MP3, Opus).

delivery enum (string) (optional) The delivery mode for the audio output.

Possible
values:

- `inline`

Audio data is returned inline in the response.

- `uri`

Audio data is returned as a URI.

mime_type enum (string) (optional) The MIME type of the audio output.

Possible
values:

- `audio/mp3`

MP3 audio format.

- `audio/ogg\_opus`

OGG Opus audio format.

- `audio/l16`

Raw PCM (L16) audio format.

- `audio/wav`

WAV audio format.

- `audio/alaw`

A-law audio format.
- `audio/mulaw`

Mu-law audio format.
sample_rate integer (optional) Sample rate in Hz.
type object (required) No description provided.

Always set to `"audio"`.
TextResponseFormat Configuration for text output format.
mime_type enum (string) (optional) The MIME type of the text output.

Possible
values:

- `application/json`

JSON output format.
- `text/plain`

Plain text output format.
schema object (optional) The JSON schema that the output should conform to. Only applicable when
mime_type is application/json.
type object (required) No description provided.

Always set to `"text"`.
ImageResponseFormat Configuration for image output format.
aspect_ratio enum (string) (optional) The aspect ratio for the image output.

Possible
values:

- `1:1`

1:1 aspect ratio.
- `2:3`

2:3 aspect ratio.
- `3:2`

3:2 aspect ratio.
- `3:4`

3:4 aspect ratio.
- `4:3`

4:3 aspect ratio.
- `4:5`

4:5 aspect ratio.
- `5:4`

5:4 aspect ratio.
- `9:16`

9:16 aspect ratio.
- `16:9`

16:9 aspect ratio.
- `21:9`

21:9 aspect ratio.
- `1:8`

1:8 aspect ratio.

- `8:1`

8:1 aspect ratio.

- `1:4`

1:4 aspect ratio.

- `4:1`

4:1 aspect ratio.

delivery enum (string) (optional) The delivery mode for the image output.

Possible
values:

- `inline`

Image data is returned inline in the response.

- `uri`

Image data is returned as a URI.

image_size enum (string) (optional) The size of the image output.

Possible
values:

- `512`

512px image size.

- `1K`

1K image size.

- `2K`

2K image size.

- `4K`

4K image size.

mime_type enum (string) (optional) The MIME type of the image output.

Possible
values:

- `image/jpeg`

JPEG image format.

type object (required) No description provided.

Always set to `"image"`.

VideoResponseFormat Configuration for video output format.

aspect_ratio enum (string) (optional) The aspect ratio for the video output.

Possible
values:

- `16:9`

16:9 aspect ratio.

- `9:16`

9:16 aspect ratio.

delivery enum (string) (optional) The delivery mode for the video output.

Possible
values:

- `inline`

Video data is returned inline in the response.

- `uri`

Video data is returned as a URI.

duration string (optional) The duration for the video output.

gcs_uri string (optional) The GCS URI to store the video output. Required for Vertex if delivery mode

is URI.

type object (required) No description provided.

Always set to `"video"`.

response_modalities ResponseModality (optional) The requested modalities of the response (TEXT, IMAGE, AUDIO).

Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

safety_settings SafetySetting (optional) Safety settings for the interaction.

A safety setting that affects the safety-blocking behavior.

A SafetySetting consists of a harm category and a threshold for that category.

Fields

method enum (string) (optional) Optional. The method for blocking content. If not specified, the default behavior is to use the probability score.

Possible values:

- `severity`

The harm block method uses both probability and severity scores.

- `probability`

The harm block method uses the probability score.

threshold enum (string) (optional) Required. The threshold for blocking content. If the harm probability exceeds this threshold, the content will be blocked.

Possible values:

- `block\_low\_and\_above`

Block content with a low harm probability or higher.

- `block\_medium\_and\_above`

Block content with a medium harm probability or higher.

- `block\_only\_high`

Block content with a high harm probability.

- `block\_none`

Do not block any content, regardless of its harm probability.

- `off`

Turn off the safety filter entirely.

type HarmCategory (optional) Required. The type of harm category to be blocked.

Possible values

- `hate\_speech`

Content that promotes violence or incites hatred against individuals or groups based on certain attributes.

- `dangerous\_content`

Content that promotes, facilitates, or enables dangerous activities.

- `harassment`

Abusive, threatening, or content intended to bully, torment, or ridicule.

- `sexually\_explicit`

Content that contains sexually explicit material.

- `civic\_integrity`

Deprecated: Election filter is not longer supported.

The harm category is civic integrity.

- `image\_hate`

Images that contain hate speech.

- `image\_dangerous\_content`

Images that contain dangerous content.

- `image\_harassment`

Images that contain harassment.

- `image\_sexually\_explicit`

Images that contain sexually explicit content.

- `jailbreak`

Prompts designed to bypass safety filters.

service_tier ServiceTier (optional) The service tier for the interaction.

Possible values

- `flex`

Flex service tier.

- `standard`

Standard service tier.

- `priority`

Priority service tier.

status enum (string) (optional) Required. Output only. The status of the interaction.

Possible
values:

- `in\_progress`
The interaction is in progress.
 - `requires\_action`
The interaction requires action/input from the user.
 - `completed`
The interaction is completed.
 - `failed`
The interaction failed.
 - `cancelled`
The interaction was cancelled.
 - `incomplete`
The interaction is completed, but contains incomplete results (e.g. hitting max_tokens).
 - `budget\_exceeded`
The interaction was halted because the token budget was exceeded.
- steps Step (optional) Output only. The steps that make up the interaction, when included in the response.
A step in the interaction.

Possible Types

Polymorphic discriminator: `type`
UserInputStep Input provided by the user.
content Content (optional) No description provided.
The content of the response.

Possible Types

Polymorphic discriminator: `type`
TextContent A text content block.
annotations Annotation (optional) Citation information for model-generated content.
Citation information for model-generated content.

Possible Types

Polymorphic discriminator: `type`
UrlCitation A URL citation annotation.
end_index integer (optional) End of the attributed segment, exclusive.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
title string (optional) The title of the URL.
type object (required) No description provided.

Always set to `"url\_citation"`.
url string (optional) The URL.
FileCitation A file citation annotation.
custom_metadata object (optional) User provided metadata about the retrieved context.
document_uri string (optional) The URI of the file.
end_index integer (optional) End of the attributed segment, exclusive.
file_name string (optional) The name of the file.
media_id string (optional) Media ID in-case of image citations, if applicable.

page_number integer (optional) Page number of the cited document, if applicable.
source string (optional) Source attributed for a portion of the text.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
type object (required) No description provided.

Always set to `"file\_citation"`.
PlaceCitation A place citation annotation.
end_index integer (optional) End of the attributed segment, exclusive.
name string (optional) Title of the place.
place_id string (optional) The ID of the place, in `places/{place\_id}` format.
review_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate answers about the features of a given place in Google Maps.
Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

Fields

review_id string (optional) The ID of the review snippet.
title string (optional) Title of the review.
url string (optional) A link that corresponds to the user review on Google Maps.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
type object (required) No description provided.

Always set to `"place\_citation"`.
url string (optional) URI reference of the place.
text string (required) Required. The text content.
type object (required) No description provided.

Always set to `"text"`.
ImageContent An image content block.
data string (optional) The image content.
mime_type enum (string) (optional) The mime type of the image.

Possible
values:

- `image/png`
PNG image format
- `image/jpeg`
JPEG image format
- `image/webp`
WebP image format
- `image/heic`
HEIC image format
- `image/heif`
HEIF image format
- `image/gif`
GIF image format
- `image/bmp`
BMP image format
- `image/tiff`

TIFF image format
resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.

type object (required) No description provided.

Always set to `"image"`.

uri string (optional) The URI of the image.

AudioContent An audio content block.

channels integer (optional) The number of audio channels.

data string (optional) The audio content.

mime_type enum (string) (optional) The mime type of the audio.

Possible

values:

- `audio/wav`

WAV audio format

- `audio/mp3`

MP3 audio format

- `audio/aiff`

AIFF audio format

- `audio/aac`

AAC audio format

- `audio/ogg`

OGG audio format

- `audio/flac`

FLAC audio format

- `audio/mpeg`

MPEG audio format

- `audio/m4a`

M4A audio format

- `audio/l16`

L16 audio format

- `audio/opus`

OPUS audio format

- `audio/alaw`

ALAW audio format

- `audio/mulaw`

MULAW audio format
sample_rate integer (optional) The sample rate of the audio.
type object (required) No description provided.

Always set to `"audio"`.
uri string (optional) The URI of the audio.
DocumentContent A document content block.
data string (optional) The document content.
mime_type enum (string) (optional) The mime type of the document.

Possible
values:

- `application/pdf`

PDF document format
- `text/csv`

CSV document format
type object (required) No description provided.

Always set to `"document"`.
uri string (optional) The URI of the document.
VideoContent A video content block.
data string (optional) The video content.
mime_type enum (string) (optional) The mime type of the video.

Possible
values:

- `video/mp4`

MP4 video format
- `video/mpeg`

MPEG video format
- `video/mpg`

MPG video format
- `video/mov`

MOV video format
- `video/avi`

AVI video format
- `video/x-flv`

FLV video format
- `video/webm`

WebM video format
- `video/wmv`

WMV video format
- `video/3gpp`

3GPP video format
resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.
- `medium`

Medium resolution.
- `high`

High resolution.
- `ultra\_high`

Ultra high resolution.
type object (required) No description provided.

Always set to `"video"`.
uri string (optional) The URI of the video.
type object (required) No description provided.

Always set to `"user\_input"`.
ModelOutputStep Output generated by the model.
content Content (optional) No description provided.
The content of the response.

Possible Types

Polymorphic discriminator: `type`
TextContent A text content block.
annotations Annotation (optional) Citation information for model-generated content.
Citation information for model-generated content.

Possible Types

Polymorphic discriminator: `type`
UrlCitation A URL citation annotation.
end_index integer (optional) End of the attributed segment, exclusive.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
title string (optional) The title of the URL.
type object (required) No description provided.

Always set to `"url\_citation"`.
url string (optional) The URL.
FileCitation A file citation annotation.
custom_metadata object (optional) User provided metadata about the retrieved context.
document_uri string (optional) The URI of the file.
end_index integer (optional) End of the attributed segment, exclusive.
file_name string (optional) The name of the file.
media_id string (optional) Media ID in-case of image citations, if applicable.
page_number integer (optional) Page number of the cited document, if applicable.
source string (optional) Source attributed for a portion of the text.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
type object (required) No description provided.

Always set to `"file\_citation"`.
PlaceCitation A place citation annotation.
end_index integer (optional) End of the attributed segment, exclusive.
name string (optional) Title of the place.
place_id string (optional) The ID of the place, in `places/{place\_id}` format.
review_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate answers about the features of a given place in Google Maps.
Encapsulates a snippet of a user review that answers a question about

the features of a specific place in Google Maps.

Fields

review_id string (optional) The ID of the review snippet.
title string (optional) Title of the review.
url string (optional) A link that corresponds to the user review on Google Maps.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
type object (required) No description provided.

Always set to `"place\_citation"`.
url string (optional) URI reference of the place.
text string (required) Required. The text content.
type object (required) No description provided.

Always set to `"text"`.
ImageContent An image content block.
data string (optional) The image content.
mime_type enum (string) (optional) The mime type of the image.

Possible
values:

- `image/png`

PNG image format

- `image/jpeg`

JPEG image format

- `image/webp`

WebP image format

- `image/heic`

HEIC image format

- `image/heif`

HEIF image format

- `image/gif`

GIF image format

- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format

resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.

- `ultra\_high`

Ultra high resolution.
type object (required) No description provided.

Always set to `"image"`.
uri string (optional) The URI of the image.
AudioContent An audio content block.
channels integer (optional) The number of audio channels.
data string (optional) The audio content.
mime_type enum (string) (optional) The mime type of the audio.

Possible
values:

- `audio/wav`

WAV audio format

- `audio/mp3`

MP3 audio format

- `audio/aiff`

AIFF audio format

- `audio/aac`

AAC audio format

- `audio/ogg`

OGG audio format

- `audio/flac`

FLAC audio format

- `audio/mpeg`

MPEG audio format

- `audio/m4a`

M4A audio format

- `audio/l16`

L16 audio format

- `audio/opus`

OPUS audio format

- `audio/alaw`

ALAW audio format

- `audio/mulaw`

MULAW audio format

sample_rate integer (optional) The sample rate of the audio.
type object (required) No description provided.

Always set to `"audio"`.
uri string (optional) The URI of the audio.
DocumentContent A document content block.
data string (optional) The document content.
mime_type enum (string) (optional) The mime type of the document.

Possible
values:

- `application/pdf`

PDF document format

- `text/csv`

CSV document format
type object (required) No description provided.

Always set to `"document"`.
uri string (optional) The URI of the document.
VideoContent A video content block.
data string (optional) The video content.
mime_type enum (string) (optional) The mime type of the video.

Possible
values:

- `video/mp4`

MP4 video format
- `video/mpeg`

MPEG video format
- `video/mpg`

MPG video format
- `video/mov`

MOV video format
- `video/avi`

AVI video format
- `video/x-flv`

FLV video format
- `video/webm`

WebM video format
- `video/wmv`

WMV video format
- `video/3gpp`

3GPP video format
resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.
- `medium`

Medium resolution.
- `high`

High resolution.
- `ultra\_high`

Ultra high resolution.
type object (required) No description provided.

Always set to `"video"`.
uri string (optional) The URI of the video.
error Status (optional) The error result of the operation in case of failure or
cancellation.
The `Status` type defines a logical error model that is suitable for

different programming environments, including REST APIs and RPC APIs. It is used by \[gRPC\](https://github.com/grpc). Each \`Status\` message contains three pieces of data: error code, error message, and error details.

You can find out more about this error model and how to work with it in the \[API Design Guide\](https://cloud.google.com/apis/design/errors).

Fields

code integer (optional) The status code, which should be an enum value of google.rpc.Code.
details array (object) (optional) A list of messages that carry the error details. There is a common set of message types for APIs to use.
message string (optional) A developer-facing error message, which should be in English. Any user-facing error message should be localized and sent in the google.rpc.Status.details field, or localized by the client.
type object (required) No description provided.

Always set to \`"model\_output"\`.

ThoughtStep A thought step.

signature string (optional) A signature hash for backend validation.

summary ThoughtSummaryContent (optional) A summary of the thought.

Possible Types

Polymorphic discriminator: \`type\`

TextContent A text content block.

annotations Annotation (optional) Citation information for model-generated content.

Citation information for model-generated content.

Possible Types

Polymorphic discriminator: \`type\`

UrlCitation A URL citation annotation.

end_index integer (optional) End of the attributed segment, exclusive.

start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

title string (optional) The title of the URL.

type object (required) No description provided.

Always set to \`"url\_citation"\`.

url string (optional) The URL.

FileCitation A file citation annotation.

custom_metadata object (optional) User provided metadata about the retrieved context.

document_uri string (optional) The URI of the file.

end_index integer (optional) End of the attributed segment, exclusive.

file_name string (optional) The name of the file.

media_id string (optional) Media ID in-case of image citations, if applicable.

page_number integer (optional) Page number of the cited document, if applicable.

source string (optional) Source attributed for a portion of the text.

start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

type object (required) No description provided.

Always set to \`"file\_citation"\`.

PlaceCitation A place citation annotation.

end_index integer (optional) End of the attributed segment, exclusive.

name string (optional) Title of the place.

place_id string (optional) The ID of the place, in \`places/{place\_id}\` format.

review_snippets ReviewSnippet (optional) Snippets of reviews that are used to generate

answers about the features of a given place in Google Maps.
Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

Fields

review_id string (optional) The ID of the review snippet.
title string (optional) Title of the review.
url string (optional) A link that corresponds to the user review on Google Maps.
start_index integer (optional) Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.
type object (required) No description provided.

Always set to `"place\_citation"`.
url string (optional) URI reference of the place.
text string (required) Required. The text content.
type object (required) No description provided.

Always set to `"text"`.
ImageContent An image content block.
data string (optional) The image content.
mime_type enum (string) (optional) The mime type of the image.

Possible values:

- `image/png`

PNG image format

- `image/jpeg`

JPEG image format

- `image/webp`

WebP image format

- `image/heic`

HEIC image format

- `image/heif`

HEIF image format

- `image/gif`

GIF image format

- `image/bmp`

BMP image format

- `image/tiff`

TIFF image format

resolution MediaResolution (optional) The resolution of the media.

Possible values

- `low`

Low resolution.

- `medium`

Medium resolution.

- `high`

High resolution.
- `ultra\_high`

Ultra high resolution.
type object (required) No description provided.

Always set to `"image"`.
uri string (optional) The URI of the image.
type object (required) No description provided.

Always set to `"thought"`.
FunctionCallStep A function tool call step.
arguments object (required) Required. The arguments to pass to the function.
id string (required) Required. A unique ID for this specific tool call.
name string (required) Required. The name of the tool to call.
type object (required) No description provided.

Always set to `"function\_call"`.
CodeExecutionCallStep Code execution call step.
arguments CodeExecutionCallStepArguments (required) Required. The arguments to pass to the code execution.
The arguments to pass to the code execution.

Fields

code string (optional) The code to be executed.
language enum (string) (optional) Programming language of the `code`.

Possible
values:

- `python`

Python ≥ 3.10 , with numpy and simpy available.
id string (required) Required. A unique ID for this specific tool call.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"code\_execution\_call"`.
UrlContextCallStep URL context call step.
arguments UrlContextCallArguments (required) Required. The arguments to pass to the URL context.
The arguments to pass to the URL context.

Fields

urls array (string) (optional) The URLs to fetch.
id string (required) Required. A unique ID for this specific tool call.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"url\_context\_call"`.
McpServerToolCallStep MCPServer tool call step.
arguments object (required) Required. The JSON object of arguments for the function.
id string (required) Required. A unique ID for this specific tool call.
name string (required) Required. The name of the tool which was called.
server_name string (required) Required. The name of the used MCP server.
type object (required) No description provided.

Always set to `"mcp\_server\_tool\_call"`.
GoogleSearchCallStep Google Search call step.
arguments GoogleSearchCallStepArguments (required) Required. The arguments to pass to Google Search.
The arguments to pass to Google Search.

Fields

queries array (string) (optional) Web search queries for the following-up web search.
id string (required) Required. A unique ID for this specific tool call.
search_type enum (string) (optional) The type of search grounding enabled.

Possible
values:

- `web\_search`

Setting this field enables web search. Only text results are returned.

- `image\_search`

Setting this field enables image search. Image bytes are returned.

- `enterprise\_web\_search`

Setting this field enables enterprise web search.

signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"google\_search\_call"`.

FileSearchCallStep File Search call step.

id string (required) Required. A unique ID for this specific tool call.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"file\_search\_call"`.

GoogleMapsCallStep Google Maps call step.

arguments GoogleMapsCallStepArguments (optional) The arguments to pass to the Google Maps tool.

The arguments to pass to the Google Maps tool.

Fields

queries array (string) (optional) The queries to be executed.
id string (required) Required. A unique ID for this specific tool call.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"google\_maps\_call"`.

FunctionResultStep Result of a function tool call.

call_id string (required) Required. ID to match the ID from the function call block.

is_error boolean (optional) Whether the tool call resulted in an error.

name string (optional) The name of the tool that was called.

result array (ImageContent or TextContent) or object or string (required) The result of the tool call.

type object (required) No description provided.

Always set to `"function\_result"`.

CodeExecutionResultStep Code execution result step.

call_id string (required) Required. ID to match the ID from the function call block.

is_error boolean (optional) Whether the code execution resulted in an error.

result string (required) Required. The output of the code execution.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"code\_execution\_result"`.

UrlContextResultStep URL context result step.

call_id string (required) Required. ID to match the ID from the function call block.

is_error boolean (optional) Whether the URL context resulted in an error.

result UrlContextResult (required) Required. The results of the URL context.

The result of the URL context.

Fields

status enum (string) (optional) The status of the URL retrieval.

Possible
values:

- `success`

Url retrieval is successful.

- `error`

Url retrieval is failed due to error.

- `paywall`

Url retrieval is failed because the content is behind paywall.

- `unsafe`

Url retrieval is failed because the content is unsafe.

url string (optional) The URL that was fetched.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"url\_context\_result"`.

GoogleSearchResultStep Google Search result step.

call_id string (required) Required. ID to match the ID from the function call block.

is_error boolean (optional) Whether the Google Search resulted in an error.

result GoogleSearchResultItem (required) Required. The results of the Google Search.

The result of the Google Search.

Fields

search_suggestions string (optional) Web content snippet that can be embedded in a web page or an app webview.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"google\_search\_result"`.

McpServerToolResultStep MCPServer tool result step.

call_id string (required) Required. ID to match the ID from the function call block.

name string (optional) Name of the tool which is called for this specific tool call.

result array (ImageContent or TextContent) or object or string (required) The output from the MCP server call. Can be simple text or rich content.

server_name string (optional) The name of the used MCP server.

type object (required) No description provided.

Always set to `"mcp\_server\_tool\_result"`.

FileSearchResultStep File Search result step.

call_id string (required) Required. ID to match the ID from the function call block.

signature string (optional) A signature hash for backend validation.

type object (required) No description provided.

Always set to `"file\_search\_result"`.

GoogleMapsResultStep Google Maps result step.

call_id string (required) Required. ID to match the ID from the function call block.

result GoogleMapsResultItem (required) No description provided.

The result of the Google Maps.

Fields

places GoogleMapsResultPlaces (optional) No description provided.

Fields

name string (optional) No description provided.
place_id string (optional) No description provided.
review_snippets ReviewSnippet (optional) No description provided.
Encapsulates a snippet of a user review that answers a question about the features of a specific place in Google Maps.

Fields

review_id string (optional) The ID of the review snippet.
title string (optional) Title of the review.
url string (optional) A link that corresponds to the user review on Google Maps.
url string (optional) No description provided.
widget_context_token string (optional) No description provided.
signature string (optional) A signature hash for backend validation.
type object (required) No description provided.

Always set to `"google\_maps\_result"`.
system_instruction string (optional) System instruction for the interaction.
tools Tool (optional) A list of tool declarations the model may call during interaction.
A tool that can be used by the model.

Possible Types

Polymorphic discriminator: `type`
Function A tool that can be used by the model.
description string (optional) A description of the function.
name string (optional) The name of the function.
parameters object (optional) The JSON Schema for the function's parameters.
type object (required) No description provided.

Always set to `"function"`.
CodeExecution A tool that can be used by the model to execute code.
type object (required) No description provided.

Always set to `"code\_execution"`.
UrlContext A tool that can be used by the model to fetch URL context.
type object (required) No description provided.

Always set to `"url\_context"`.
ComputerUse A tool that can be used by the model to interact with the computer.
disabled_safety_policies array (enum (string)) (optional) Optional. Disabled safety policies for computer use.

Possible
values:

- `financial\_transactions`
Safety policy for financial transactions.
- `sensitive\_data\_modification`
Safety policy for sensitive data modification.
- `communication\_tool`
Safety policy for communication tools (e.g. Gmail, Chat, Meet).
- `account\_creation`
Safety policy for account creation.
- `data\_modification`
Safety policy for data modification.
- `user\_consent\_management`
Safety policy for user consent management.
- `legal\_terms\_and\_agreements`

Safety policy for legal terms and agreements.
enable_prompt_injection_detection boolean (optional) Whether enable the prompt injection detection check on computer-use request.
environment enum (string) (optional) The environment being operated.

Possible values:

- `browser`

Operates in a web browser.

- `mobile`

Operates in a mobile environment.

- `desktop`

Operates in a desktop environment.

excluded_predefined_functions array (string) (optional) The list of predefined functions that are excluded from the model call.

type object (required) No description provided.

Always set to `"computer\_use"`.

McpServer A MCPServer is a server that can be called by the model to perform actions.

allowed_tools AllowedTools (optional) The allowed tools.

The configuration for allowed tools.

Fields

mode enum (string) (optional) The mode of the tool choice.

Possible values:

- `auto`

Auto tool choice.

- `any`

Any tool choice.

- `none`

No tool choice.

- `validated`

Validated tool choice.

tools array (string) (optional) The names of the allowed tools.

headers object (optional) Optional: Fields for authentication headers, timeouts, etc., if needed.

name string (optional) The name of the MCPServer.

type object (required) No description provided.

Always set to `"mcp\_server"`.

url string (optional) The full URL for the MCPServer endpoint.

Example: "https://api.example.com/mcp"

GoogleSearch A tool that can be used by the model to search Google.

search_types array (enum (string)) (optional) The types of search grounding to enable.

Possible values:

- `web\_search`

Setting this field enables web search. Only text results are returned.

- `image\_search`

Setting this field enables image search. Image bytes are returned.

- `enterprise\_web\_search`

Setting this field enables enterprise web search.

type object (required) No description provided.

Always set to `"google\_search"`.

FileSearch A tool that can be used by the model to search files.

file_search_store_names array (string) (optional) The file search store names to search.

metadata_filter string (optional) Metadata filter to apply to the semantic retrieval documents and chunks.

top_k integer (optional) The number of semantic retrieval chunks to retrieve.

type object (required) No description provided.

Always set to `"file\_search"`.

GoogleMaps A tool that can be used by the model to call Google Maps.

enable_widget boolean (optional) Whether to return a widget context token in the tool call result of the response.

latitude number (optional) The latitude of the user's location.

longitude number (optional) The longitude of the user's location.

type object (required) No description provided.

Always set to `"google\_maps"`.

Retrieval A tool that can be used by the model to retrieve files.

exa_ai_search_config ExaAISearchConfig (optional) Used to specify configuration for ExaAISearch.

Used to specify configuration for ExaAISearch.

Fields

api_key string (optional) Required. The API key for ExaAiSearch.

custom_config object (optional) Optional. This field can be used to pass any parameter from the Exa.ai Search API.

parallel_ai_search_config ParallelAISearchConfig (optional) Used to specify configuration for ParallelAISearch.

Used to specify configuration for ParallelAISearch.

Fields

api_key string (optional) Optional. The API key for ParallelAiSearch.

custom_config object (optional) Optional. Custom configs for ParallelAiSearch.

rag_store_config RagStoreConfig (optional) Used to specify configuration for RagStore.

Use to specify configuration for RAG Store.

Fields

rag_resources RagResource (optional) Optional. The representation of the rag source. The definition of the Rag resource.

Fields

rag_corpus string (optional) Optional. RagCorpora resource name.

rag_file_ids array (string) (optional) Optional. rag_file_id. The files should be in the same rag_corpus set in rag_corpus field.

rag_retrieval_config RagRetrievalConfig (optional) Optional. The retrieval config for the Rag query.

Specifies the context retrieval config.

Fields

filter Filter (optional) Optional. Config for filters.

Config for filters.

Fields

metadata_filter string (optional) Optional. String for metadata filtering.
vector_distance_threshold number (optional) Optional. Only returns contexts with vector distance smaller than the threshold.
vector_similarity_threshold number (optional) Optional. Only returns contexts with vector similarity larger than the threshold.
hybrid_search HybridSearch (optional) Optional. Config for Hybrid Search.
Config for Hybrid Search.

Fields

alpha number (optional) Optional. Alpha value controls the weight between dense and sparse vector search results.
ranking Ranking (optional) Optional. Config for ranking and reranking.
Config for ranking and reranking.
top_k integer (optional) Optional. The number of contexts to retrieve.
retrieval_types array (enum (string)) (optional) The types of file retrieval to enable.

Possible values:

- `rag\_store`
- `exa\_ai\_search`
- `parallel\_ai\_search`

type object (required) No description provided.

Always set to `"retrieval"`.
updated string (optional) Output only. The time at which the response was last updated in ISO 8601 format (YYYY-MM-DDThh:mm:ssZ).
usage Usage (optional) Output only. Statistics on the interaction request's token usage. Statistics on the interaction request's token usage.

Fields

cached_tokens_by_modality ModalityTokens (optional) A breakdown of cached token usage by modality.
The token count for a single response modality.

Fields

modality ResponseModality (optional) The modality associated with the token count.

Possible values

- `text`
Indicates the model should return text.
- `image`
Indicates the model should return images.
- `audio`
Indicates the model should return audio.
- `video`
Indicates the model should return video.
- `document`

Indicates the model should return documents.
tokens integer (optional) Number of tokens for the modality.
grounding_tool_count GroundingToolCount (optional) Grounding tool count.
The number of grounding tool counts.

Fields

count integer (optional) The number of grounding tool counts.
type enum (string) (optional) The grounding tool type associated with the count.

Possible
values:

- `google\_search`

Grounding with Google Web Search and Image Search, \& Web Grounding
for Enterprise.

- `google\_maps`

Grounding with Google Maps.

- `retrieval`

Grounding with customer's data, for example, VertexAISearch.

input_tokens_by_modality ModalityTokens (optional) A breakdown of input token usage by
modality.

The token count for a single response modality.

Fields

modality ResponseModality (optional) The modality associated with the token count.

Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

tokens integer (optional) Number of tokens for the modality.

output_tokens_by_modality ModalityTokens (optional) A breakdown of output token usage by
modality.

The token count for a single response modality.

Fields

modality ResponseModality (optional) The modality associated with the token count.

Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

tokens integer (optional) Number of tokens for the modality.

tool_use_tokens_by_modality ModalityTokens (optional) A breakdown of tool-use token usage by modality.

The token count for a single response modality.

Fields

modality ResponseModality (optional) The modality associated with the token count.

Possible values

- `text`

Indicates the model should return text.

- `image`

Indicates the model should return images.

- `audio`

Indicates the model should return audio.

- `video`

Indicates the model should return video.

- `document`

Indicates the model should return documents.

tokens integer (optional) Number of tokens for the modality.

total_cached_tokens integer (optional) Number of tokens in the cached part of the prompt (the cached content).

total_input_tokens integer (optional) Number of tokens in the prompt (context).

total_output_tokens integer (optional) Total number of tokens across all the generated responses.

total_thought_tokens integer (optional) Number of tokens of thoughts for thinking models.

total_tokens integer (optional) Total token count for the interaction request (prompt + responses + other

internal tokens).

total_tool_use_tokens integer (optional) Number of tokens present in tool-use prompt(s).

webhook_config WebhookConfig (optional) Optional. Webhook configuration for receiving notifications when the

interaction completes.

Message for configuring webhook events for a request.

Fields

uris array (string) (optional) Optional. If set, these webhook URIs will be used for webhook events instead of the

registered webhooks.

user_metadata object (optional) Optional. The user metadata that will be returned on each event emission to the

webhooks.

last_pause_time string (optional) Output only. The time when the trigger was last paused.

last_resume_time string (optional) Output only. The time when the trigger was last resumed.

last_run_time string (optional) Output only. The time when the trigger was last run.
max_consecutive_failures integer (optional) Optional. The maximum number of consecutive failures allowed before the trigger is automatically paused (status becomes ERROR).
next_run_time string (optional) Output only. The time when the trigger is scheduled to run next.
previous_interaction_id string (optional) Output only. The ID of the last interaction created by this trigger.
schedule string (optional) Required. The cron schedule on which the trigger should run. Standard cron format.
status enum (string) (optional) Output only. The current status of the trigger.

Possible values:

- `active`

The trigger is active and will fire on schedule.

- `paused`

The trigger is paused and will not fire.

- `error`

The trigger has entered an error state due to consecutive failures.

time_zone string (optional) Required. Time zone in which the schedule should be interpreted.

update_time string (optional) Output only. The time when the trigger was last updated.

TriggerExecution

An execution instance of a trigger.

Fields

end_time string (optional) Output only. The time when the execution finished.
environment_id string (optional) Output only. The environment ID used for the execution.
error string (optional) Output only. The error message if the execution failed.
id string (optional) Required. Output only. Identifier. The ID of the trigger execution.
interaction_id string (optional) Output only. The ID of the interaction created by this execution, if any.
scheduled_time string (optional) Output only. The time when the execution was scheduled to run.
start_time string (optional) Output only. The time when the execution started.
status enum (string) (optional) Output only. The status of the execution.

Possible values:

- `in\_progress`

The execution is currently in progress.

- `completed`

The execution completed successfully.

- `failed`

The execution failed.

- `skipped`

The execution was skipped (e.g., previous execution still running).

- `timed\_out`

The execution timed out.

trigger_id string (optional) Required. Output only. Identifier. The ID of the trigger that created this execution.