

# Package: gemini.R (via r-universe)

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**Title** Interface for 'Google Gemini' API

**Version** 0.5.2.9000

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**Description** Provides a comprehensive interface for Google Gemini API, enabling users to access and utilize Gemini Large Language Model (LLM) functionalities directly from R. This package facilitates seamless integration with Google Gemini, allowing for advanced language processing, text generation, and other AI-driven capabilities within the R environment. For more information, please visit  
[<https://ai.google.dev/docs/gemini\\_api\\_overview>](https://ai.google.dev/docs/gemini_api_overview).

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**Depends** R (>= 4.0.0)

**URL** <https://github.com/jhk0530/gemini.R>

**BugReports** <https://github.com/jhk0530/gemini.R/issues>

**Encoding** UTF-8

**Imports** base64enc, cli, httr2

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.2

**Suggests** testthat (>= 3.0.0)

**Config/testthat.edition** 3

**Config/Needs/website** rmarkdown

**Repository** <https://jhk0530.r-universe.dev>

**RemoteUrl** <https://github.com/jhk0530/gemini.R>

**RemoteRef** HEAD

**RemoteSha** 5f03658584c291f9bdda1f9d14a7261319880813

## Contents

addHistory . . . . .	2
gemini . . . . .	2
gemini_chat . . . . .	3
gemini_image . . . . .	4
<b>Index</b>	<b>6</b>

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addHistory      *Add history for chating context*

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### Description

Add history for chating context

### Usage

```
addHistory(history, role = NULL, item = NULL)
```

### Arguments

history	The history of chat
role	The role of chat: "user" or "model"
item	The item of chat: "prompt" or "output"

### Value

The history of chat

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gemini      *Generate text from text with Gemini*

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### Description

Generate text from text with Gemini

### Usage

```
gemini(prompt, model = "1.5-flash", temperature = 0.5, maxOutputTokens = 1024)
```

**Arguments**

<code>prompt</code>	The prompt to generate text from
<code>model</code>	The model to use. Options are '1.5-flash', '1.5-pro', '1.0-pro'. Default is '1.5-flash' see <a href="https://ai.google.dev/gemini-api/docs/models/gemini">https://ai.google.dev/gemini-api/docs/models/gemini</a>
<code>temperature</code>	The temperature to use. Default is 0.5 value should be between 0 and 2 see <a href="https://ai.google.dev/gemini-api/docs/models/generative-models#model-parameters">https://ai.google.dev/gemini-api/docs/models/generative-models#model-parameters</a>
<code>maxOutputTokens</code>	The maximum number of tokens to generate. Default is 1024 and 100 tokens correspond to roughly 60-80 words.

**Value**

Generated text

**See Also**

[https://ai.google.dev/docs/gemini\\_api\\_overview#text\\_input](https://ai.google.dev/docs/gemini_api_overview#text_input)

**Examples**

```
## Not run:  
library(gemini.R)  
setAPI("YOUR_API_KEY")  
gemini("Explain dplyr's mutate function")  
  
## End(Not run)
```

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gemini\_chat                  *Multi-turn conversations (chat)*

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**Description**

Generate text from text with Gemini

**Usage**

```
gemini_chat(  
  prompt,  
  history = list(),  
  model = "1.5-flash",  
  temperature = 0.5,  
  maxOutputTokens = 1024  
)
```

## Arguments

<code>prompt</code>	The prompt to generate text from
<code>history</code>	history object to keep track of the conversation
<code>model</code>	The model to use. Options are '1.5-flash', '1.5-pro', '1.0-pro'. Default is '1.5-flash' see <a href="https://ai.google.dev/gemini-api/docs/models/gemini">https://ai.google.dev/gemini-api/docs/models/gemini</a>
<code>temperature</code>	The temperature to use. Default is 0.5 value should be between 0 and 2 see <a href="https://ai.google.dev/gemini-api/docs/models/generative-models#model-parameters">https://ai.google.dev/gemini-api/docs/models/generative-models#model-parameters</a>
<code>maxOutputTokens</code>	The maximum number of tokens to generate. Default is 1024 and 100 tokens correspond to roughly 60-80 words.

## Value

Generated text

## See Also

[https://ai.google.dev/docs/gemini\\_api\\_overview#chat](https://ai.google.dev/docs/gemini_api_overview#chat)

## Examples

```
## Not run:
library(gemini.R)
setAPI("YOUR_API_KEY")

chats <- gemini_chat("Pretend you're a snowman and stay in character for each")
print(chats$outputs)

chats <- gemini_chat("What's your favorite season of the year?", chats$history)
print(chats$outputs)

chats <- gemini_chat("How do you think about summer?", chats$history)
print(chats$outputs)

## End(Not run)
```

## Description

Generate text from text and image with Gemini

**Usage**

```
gemini_image(  
  image = NULL,  
  prompt = "Explain this image",  
  model = "1.5-flash",  
  temperature = 0.5,  
  maxOutputTokens = 1024,  
  type = "png"  
)
```

**Arguments**

image	The image to generate text
prompt	The prompt to generate text, Default is "Explain this image"
model	The model to use. Options are '1.5-flash', '1.5-pro'. Default is '1.5-flash' see <a href="https://ai.google.dev/gemini-api/docs/models/gemini">https://ai.google.dev/gemini-api/docs/models/gemini</a>
temperature	The temperature to use. Default is 0.5 value should be between 0 and 2 see <a href="https://ai.google.dev/gemini-api/docs/models/generative-models#model-parameters">https://ai.google.dev/gemini-api/docs/models/generative-models#model-parameters</a>
maxOutputTokens	The maximum number of tokens to generate. Default is 1024 and 100 tokens correspond to roughly 60-80 words.
type	The type of image. Options are 'png', 'jpeg', 'webp', 'heic', 'heif'. Default is 'png'

**Value**

Generated text

**See Also**

[https://ai.google.dev/docs/gemini\\_api\\_overview#text\\_image\\_input](https://ai.google.dev/docs/gemini_api_overview#text_image_input)

**Examples**

```
## Not run:  
library(gemini.R)  
setAPI("YOUR_API_KEY")  
gemini_image(image = system.file("docs/reference/figures/image.png", package = "gemini.R"))  
  
## End(Not run)
```

# Index

addHistory, [2](#)

gemini, [2](#)

gemini\_chat, [3](#)

gemini\_image, [4](#)