

Dinner for two with Gemini: takeaway or restaurant?

Maia Grotelaps - Mahya Mir Habibi

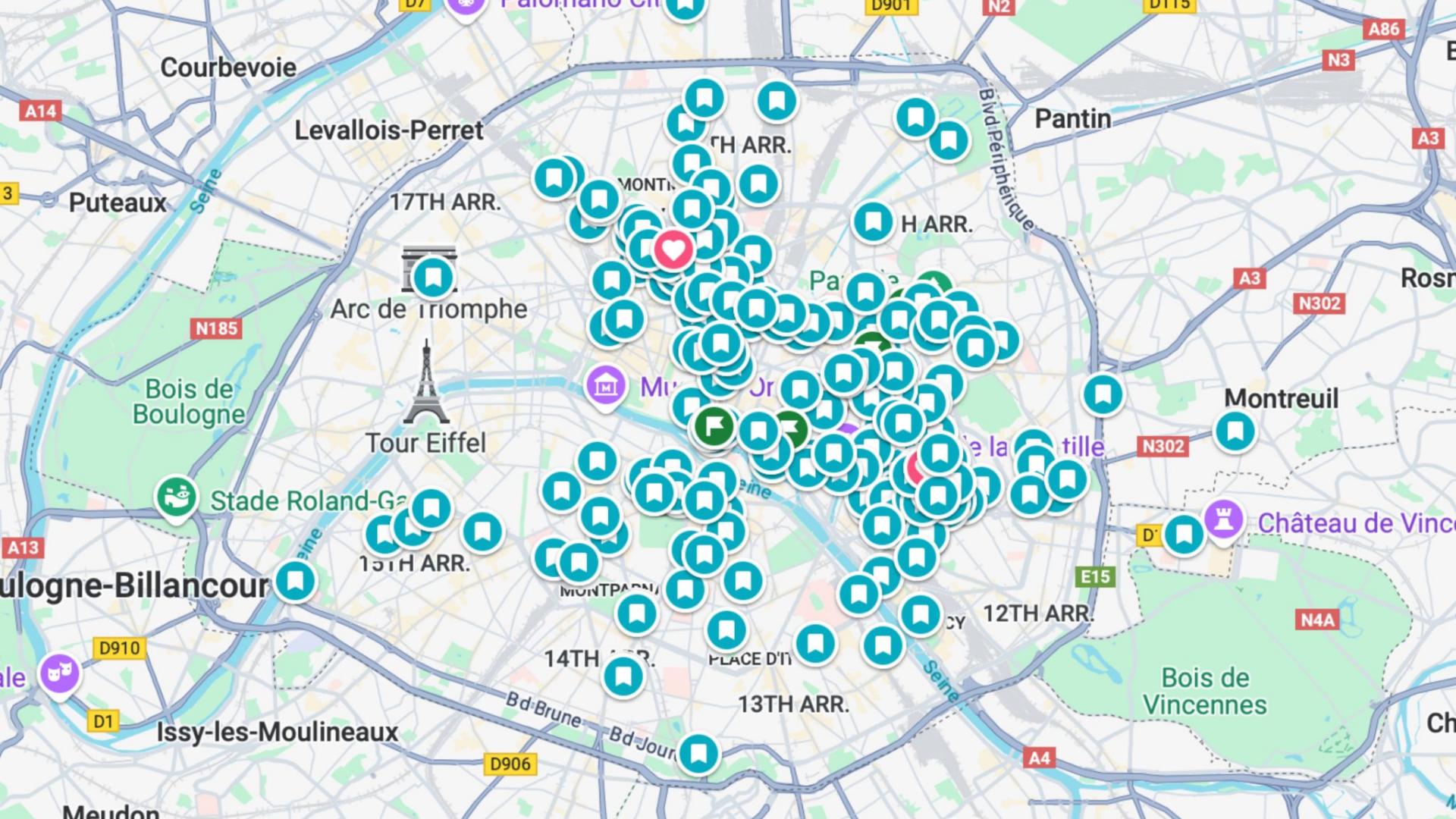








safety glass



Courbevoie

Puteaux

Levallois-Perret

17TH ARR.



Arc de Triomphe



Tour Eiffel

Bois de Boulogne



Stade Roland-Ga

15TH ARR.

ulogne-Billancourt

Issy-les-Moulineaux

Palomino Ch

Champagne Ch

D901

N2

D115

A86

E

A14

A3

Ros

N185

N302

MONT

7H ARR.

H ARR.

MU

Pa

Or

Or

Or

la

tille

Montreuil

Château de Vinc

A13

N302

E15

12TH ARR.

MUNTPARN

14TH ARR.

13TH ARR.

PLACE D'IT

12TH ARR.

13TH ARR.

Seine

D910

D1

Bd-Brun

Bd-Jour

D906

A4

N4A

Bois de
Vincennes

Meudon



À Mon Café



À Mon Café

4.4 ★★★★★ (1,104) ⓘ - €10–20

Restaurant ⌂

Overview

Reviews

About



Directions



Saved



Nearby



Send to phone



Share

RESERVE A TABLE

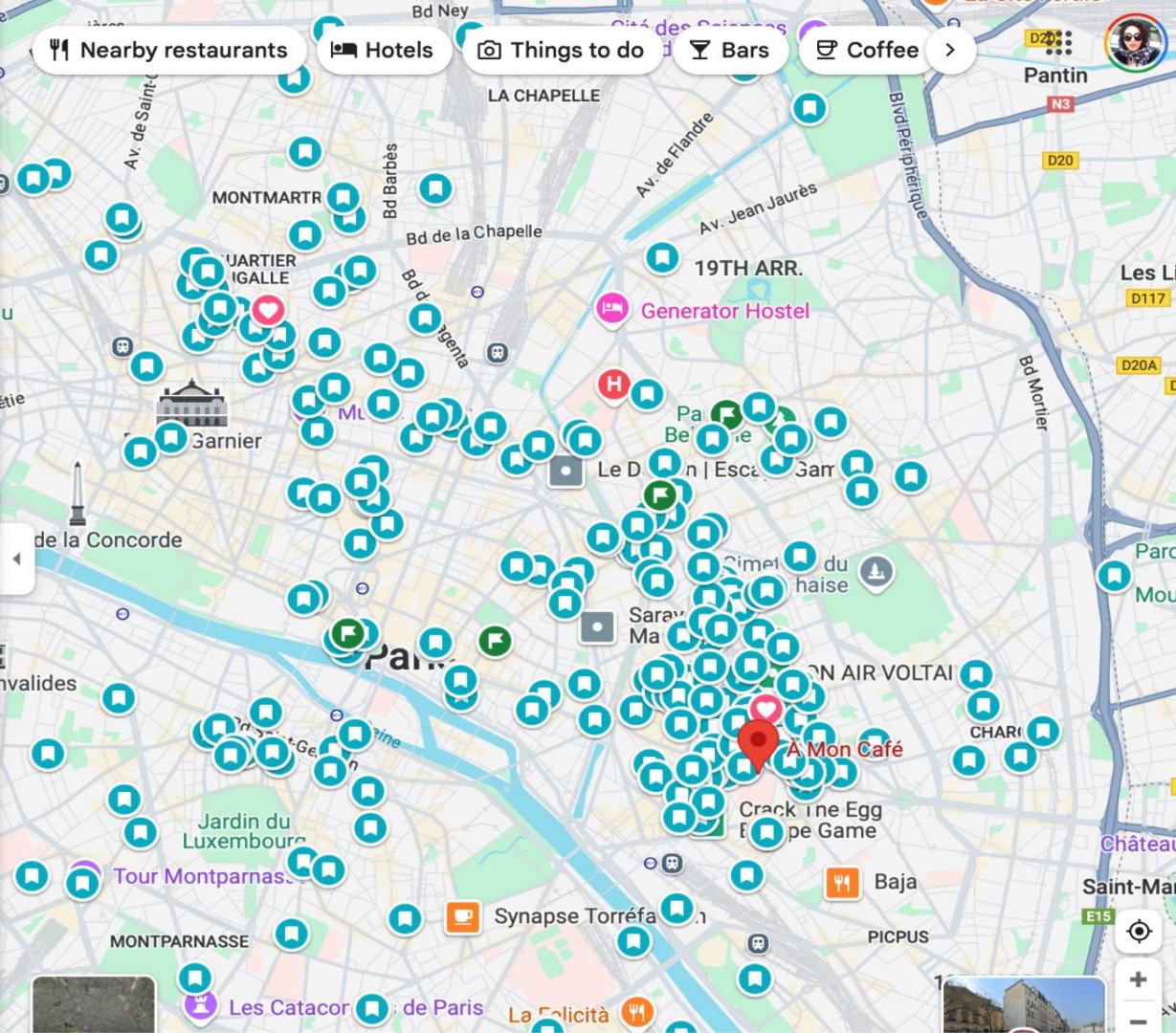
Convivial café with sidewalk tables serving classic dishes like duck & veal, plus pastries & coffee.

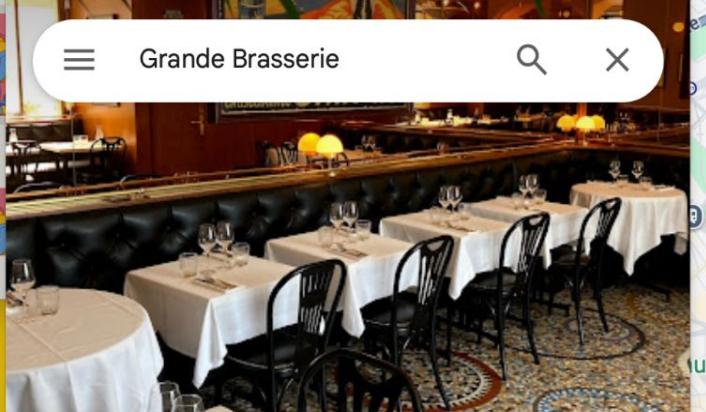


✓ Dine-in · ✓ Takeaway · ✗ Delivery



Saved in Bar





☰ Grande Brasserie



Grande Brasserie

4.3 ★★★★★ (926) ⓘ

Restaurant

Overview

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About



Directions



Saved



Nearby



Send to phone



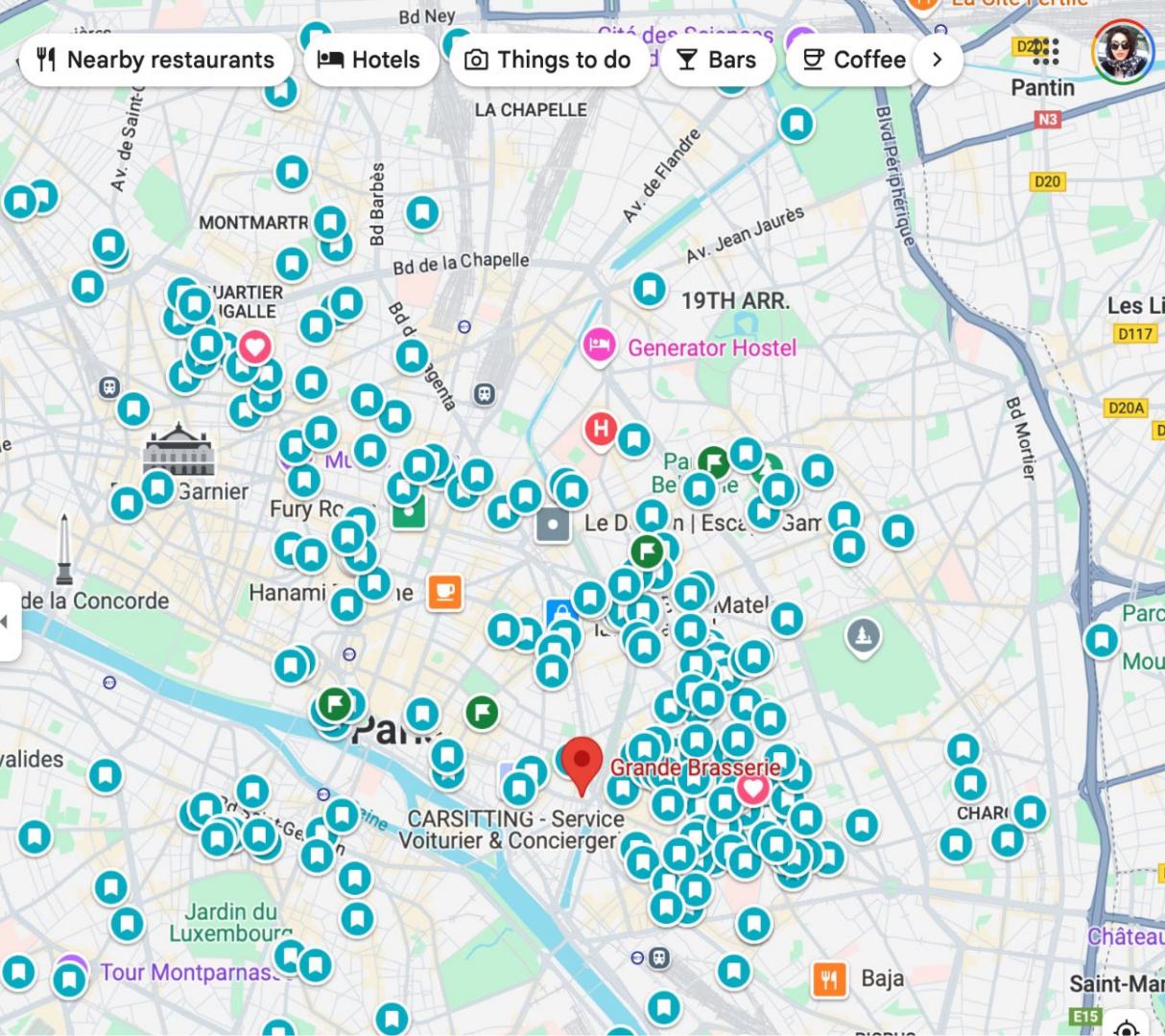
Share

✓ Dine-in · ✗ Takeaway · ✗ Delivery



☰ Saved in Food 🥑

ouef mayo





Caution

The Google AI SDK for Android is recommended for prototyping only.

Data portability API

```
{  
  "Title": "Kolam Paris",  
  "Note": "",  
  "URL": "https://www.google.com/maps/place/Kolam+Paris/data=!4m2!3m1!1s0x47e66f4fae885255:0x8de816e8f78ef50c",  
  "Comment": ""  
},
```

Places API - searchNearby

```
"result" :  
{  
    "business_status" : "OPERATIONAL",  
    "delivery" : false,  
    "dine_in" : true,  
    "editorial_summary" :  
        {"language": "en"},  
    "icon" : "https://maps.gstatic.com/mapfiles/place_api/icons/v1/png_71/restaurant-71.png",  
    "name" : "Kolam Paris",  
    "opening_hours" :  
        {"open_now": false...},  
    "place_id" : "ChIJ1V2sf_jq9EcRWTXXJl-REgA",  
    "rating" : 4.4,  
    "reservable" : true,  
    "reviews" :  
        [ 5 elements... ],  
    "serves_beer" : true,  
    "serves_breakfast" : false,  
    "serves_brunch" : false,  
    "serves_dinner" : true,  
    "serves_lunch" : true,  
    "serves_vegetarian_food" : false,  
    "serves_wine" : true,  
    "types" :  
        [ 4 elements... ],  
    "url" : "https://maps.google.com/?cid=5226387440350553",  
    "user_ratings_total" : 1191  
},
```

[Get API key](#)[Create Prompt](#)[Stream Realtime](#)[Starter Apps](#)[Tune a Model](#)[Library](#)[Enable chat history](#)[Prompt Gallery](#)[API documentation](#)[Developer forum](#)[Changelog NEW](#)

^ System Instructions

Optional tone and style instructions for the model

What will you build?

Push Gemini to the limits of what AI can do
using the Gemini API

[Run ⌘ ↵](#)

Run settings

[Get code](#)

Model

Gemini 1.5 Pro

Token count

0 / 2,000,000

Temperature



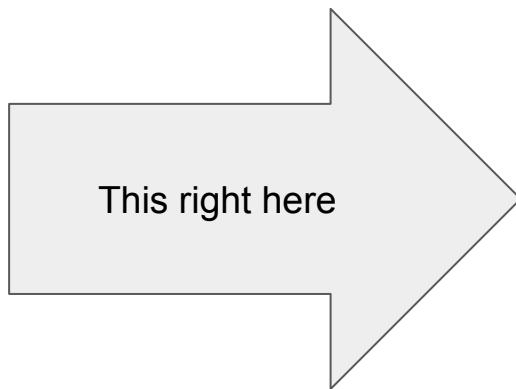
1

Tools

Structured output



Edit



Run settings ⌂

< > [Get code](#)

⊗ Model

Gemini 1.5 Pro ▾

TokenName
0 / 2,000,000

🌡 Temperature
1

^ Tools

Structured output

Edit

Structured output schema

X

Enter an [OpenAPI schema object](#) to constrain the model output. See the [API documentation](#) for examples.

Code Editor

Visual Editor

```
1  {
2      "type": "object",
3      "properties": {
4          "response": {
5              "type": "array",
6              "description": "Array of items with name and URL",
7              "items": {
8                  "type": "object",
9                  "description": "Item with name and URL",
10                 "required": ["name", "url"],
11                 "properties": {
12                     "name": {
13                         "type": "string",
14                         "description": "The name of the item"
15                     },
16                     "url": {
17                         "type": "string"
18                     }
19                 }
20             }
21         }
22     }
23 }
```

Reset

Save

Get code



X

You can run this prompt from the [Gemini API](#), after installing the [relevant package](#), by running the following code:

Android (Kotlin) ▾

Prompt history

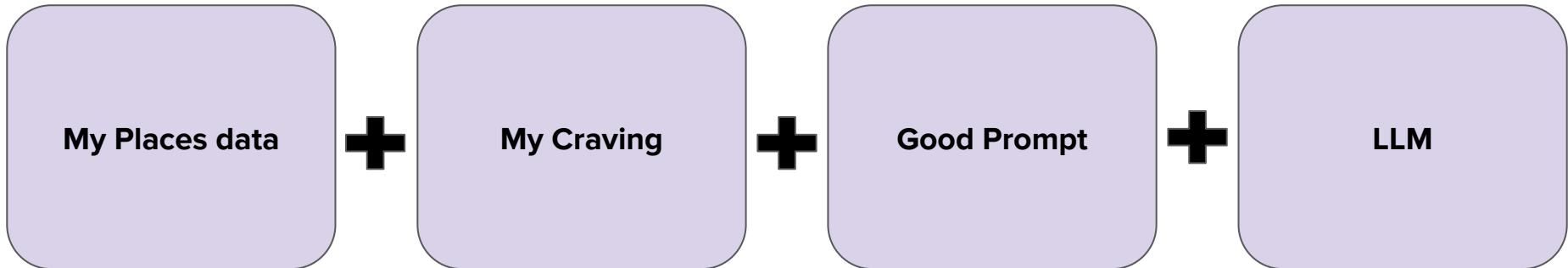


Copy

API Docs

```
1 import com.google.ai.client.generativeai.GenerativeModel
2
3 val model = GenerativeModel(
4     "gemini-1.5-pro",
5     // Retrieve API key as an environmental variable defined in a Build Configuration
6     // see https://github.com/google/secrets-gradle-plugin for further instructions
7     BuildConfig.geminiApiKey,
8     generationConfig = generationConfig {
9         temperature = 1f
10        topK = 40
11        topP = 0.95f
12        maxOutputTokens = 8192
13        responseMimeType = "application/json"
```

```
suspend fun sendMessage(userPrompt: String): GenerateContentResponse {  
    val model = GenerativeModel(  
        modelName = "gemini-2.0-flash-lite",  
        apiKey = GEMINI_API_KEY,  
        generationConfig = generationConfig {  
            temperature = 0.3f  
            responseMimeType = "application/json"  
            responseSchema = buildResponseSchema()  
        },  
        systemInstruction = buildSystemInstruction()  
    )  
  
    return model  
        .startChat()  
        .sendMessage(userPrompt)  
}
```



End up at the right place at the right time

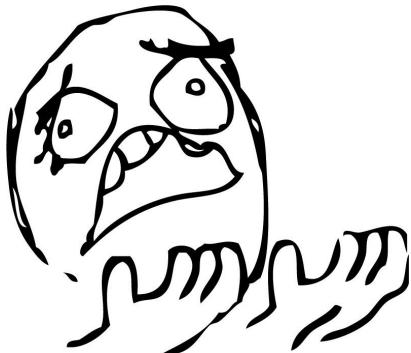
USE AI TO PROTOTYPE AI PRODUCTS



But doesn't google have a solutions for this? 🤔



Bring it all together with Gemini and your favorite apps



 Google Maps
@Google Maps

Tap into location-based information to bring your plans to life

Using Google Maps, Gemini can:

- ✓ Find places such as business, stores, restaurants, parks and attractions
- ✓ Find directions based on mode of transport and help you avoid things like tolls
- ✓ Provide you with addresses, descriptions, websites and ratings and opening hours for a place
- ✓ Use your saved work and home locations to get directions

Google Maps cannot:

- ✗ Save your location history
- ✗ Provide live traffic updates
- ✗ Get user reviews or restaurant menus

✗ Use your saved places, other than work or home

Live Demo (what could go wrong?)

Conference **wifi**

Gradle wants to **sync**

Gradle wants to **build**

Gradle wants to **download** the Internet

API says **401**

BlahBlahBlahException

Debug in **LogCat**

USB cable does it work?

Do I have **data** for a hotspot?









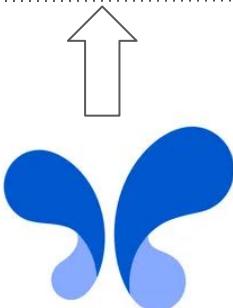








e.g Gemini 2.0 Flash



easy

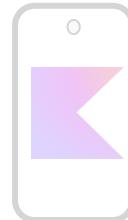
aistudio.google.com

Android Studio
wizard

SDK Android



REST



Gemini

e.g. Gemini 2.0 Flash

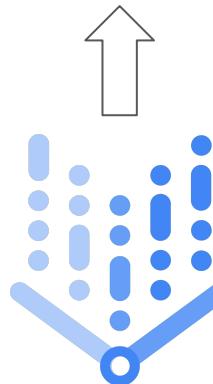


easy

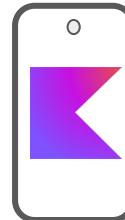
aistudio.google.com

Android Studio
wizard

SDK Android



REST



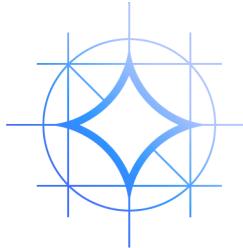


Gemini

Gemini Nano

Pixel 8,9 and
Samsung \$\$\$





Gemma 3
Media Pipe

- Open weights
- Download to device
- No cost
- No internet
- Results? Tweak with LoRA
- 😞 uses device memory and cpu

How much did it cost?

Billing

Reports GENERATE QUERY PRINT SHARE SAVE VIEW LEARN

Billing account My Billing Account 1

Overview

Cost management

Reports

Cost table

Cost breakdown

Budgets & alerts

Billing export

Cost optimisation

FinOps hub

Committed-use discounts...

CUD analysis

Pricing

Saved views

1–15 June 2024 (total cost) ?
US\$0.00
includes US\$0.00 in credits

– ?
US\$0.00 over 17–31 May 2024

June 2024 (forecasted total cost) ?
US\$0.01
includes US\$0.00 in credits

– ?
US\$0.00 over May 2024

Show cumulative

June 21, 2024

This screenshot shows the AWS Billing Reports interface. The left sidebar contains navigation links for Billing, Reports, Cost management, and various analytical tools like Cost table, Cost breakdown, Budgets & alerts, and Billing export. The main content area displays two summary sections: '1–15 June 2024 (total cost)' and 'June 2024 (forecasted total cost)'. Both sections show US\$0.00. Below these are detailed breakdowns for May 2024 costs and forecasts for June 2024. A 'Show cumulative' toggle is present. At the bottom, a timeline from June 1 to June 29 is shown with a callout for 'June 21, 2024'.

Model	Feature	Type	Price (=< 128K context window)	Price (> 128K context window)
Gemini 1.5 Flash	Multimodal	Image Input	\$0.0001315 / image	\$0.000263 / image
		Video Input	\$0.0001315 / second	\$0.000263 / second
		Text Input	\$0.000125 / 1k characters	\$0.00025 / 1k characters
		Audio Input	\$0.0000125 / second	\$0.000025 / second
	Text Output		\$0.000375 / 1k characters	\$0.00075 / 1k characters

$$\text{Image} + \text{input text} + \text{output text} = 0.0001315 + 0.000125 + (0.000375 * 2)$$

USD 0.0010065 per call

10USD = 9935 calls

one call each every day of the year

10USD ≈ 13 years

What's next?



github.com/mahyami/mapi2



Questions?



github.com/RuggedOdyssey/dinner