**Guide**

Get started with Mem0 quickly!

Welcome to the Mem0 quickstart guide. This guide will help you get up and running with Mem0 in no time.

## **[​](https://docs.mem0.ai/open-source/quickstart#installation)**

## **Installation**

To install Mem0, you can use pip. Run the following command in your terminal:

pip install mem0ai

## **[​](https://docs.mem0.ai/open-source/quickstart#basic-usage)**

## **Basic Usage**

### **[​](https://docs.mem0.ai/open-source/quickstart#initialize-mem0)**

### **Initialize Mem0**

* Basic
* Advanced
* Advanced (Graph Memory)

from mem0 import Memory

m = Memory()

### **[​](https://docs.mem0.ai/open-source/quickstart#store-a-memory)**

### **Store a Memory**

Code

# For a user

result = m.add("Likes to play cricket on weekends", user\_id="alice", metadata={"category": "hobbies"})

# messages = [

# {"role": "user", "content": "Hi, I'm Alex. I like to play cricket on weekends."},

# {"role": "assistant", "content": "Hello Alex! It's great to know that you enjoy playing cricket on weekends. I'll remember that for future reference."}

# ]

# client.add(messages, user\_id="alice")

### [**​**](https://docs.mem0.ai/open-source/quickstart#retrieve-memories)Output

{'message': 'ok'}

### **Retrieve Memories**

Code

# Get all memories

all\_memories = m.get\_all()

Output

[

{

"id":"13efe83b-a8df-4ec0-814e-428d6e8451eb",

"memory":"Likes to play cricket on weekends",

"hash":"87bcddeb-fe45-4353-bc22-15a841c50308",

"metadata":"None",

"created\_at":"2024-07-26T08:44:41.039788-07:00",

"updated\_at":"None",

"user\_id":"alice"

}

]

Code

# Get a single memory by ID

specific\_memory = m.get("m1")

Output

{

"id":"13efe83b-a8df-4ec0-814e-428d6e8451eb",

"memory":"Likes to play cricket on weekends",

"hash":"87bcddeb-fe45-4353-bc22-15a841c50308",

"metadata":"None",

"created\_at":"2024-07-26T08:44:41.039788-07:00",

"updated\_at":"None",

"user\_id":"alice"

}

### **[​](https://docs.mem0.ai/open-source/quickstart#search-memories)**

### **Search Memories**

Code

related\_memories = m.search(query="What are Alice's hobbies?", user\_id="alice")

Output

[

{

"id":"ea925981-272f-40dd-b576-be64e4871429",

"memory":"Likes to play cricket and plays cricket on weekends.",

"hash":"c8809002-25c1-4c97-a3a2-227ce9c20c53",

"metadata":{

"category":"hobbies"

},

"score":0.32116443111457704,

"created\_at":"2024-07-26T10:29:36.630547-07:00",

"updated\_at":"None",

"user\_id":"alice"

}

]

### **[​](https://docs.mem0.ai/open-source/quickstart#update-a-memory)**

### **Update a Memory**

Code

result = m.update(memory\_id="m1", data="Likes to play tennis on weekends")

Output

{'message': 'Memory updated successfully!'}

### **[​](https://docs.mem0.ai/open-source/quickstart#memory-history)**

### **Memory History**

Code

history = m.history(memory\_id="m1")

Output

[

{

"id":"4e0e63d6-a9c6-43c0-b11c-a1bad3fc7abb",

"memory\_id":"ea925981-272f-40dd-b576-be64e4871429",

"old\_memory":"None",

"new\_memory":"Likes to play cricket and plays cricket on weekends.",

"event":"ADD",

"created\_at":"2024-07-26T10:29:36.630547-07:00",

"updated\_at":"None"

},

{

"id":"548b75f0-f442-44b9-9ca1-772a105abb12",

"memory\_id":"ea925981-272f-40dd-b576-be64e4871429",

"old\_memory":"Likes to play cricket and plays cricket on weekends.",

"new\_memory":"Likes to play tennis on weekends",

"event":"UPDATE",

"created\_at":"2024-07-26T10:29:36.630547-07:00",

"updated\_at":"2024-07-26T10:32:46.332336-07:00"

}

]

### **[​](https://docs.mem0.ai/open-source/quickstart#delete-memory)**

### **Delete Memory**

# Delete a memory by id

m.delete(memory\_id="m1")

# Delete all memories for a user

m.delete\_all(user\_id="alice")

### **[​](https://docs.mem0.ai/open-source/quickstart#reset-memory)**

### **Reset Memory**

m.reset() # Reset all memories

## 

## **Chat Completion**

Mem0 can be easily integrated into chat applications to enhance conversational agents with structured memory. Mem0’s APIs are designed to be compatible with OpenAI’s, with the goal of making it easy to leverage Mem0 in applications you may have already built.

If you have a Mem0 API key, you can use it to initialize the client. Alternatively, you can initialize Mem0 without an API key if you’re using it locally.

Mem0 supports several language models (LLMs) through integration with various [providers](https://litellm.vercel.app/docs/providers).

## **[​](https://docs.mem0.ai/open-source/quickstart#use-mem0-platform)**

## **Use Mem0 Platform**

from mem0.proxy.main import Mem0

client = Mem0(api\_key="m0-xxx")

# First interaction: Storing user preferences

messages = [

{

"role": "user",

"content": "I love indian food but I cannot eat pizza since allergic to cheese."

},

]

user\_id = "alice"

chat\_completion = client.chat.completions.create(messages=messages, model="gpt-4o-mini", user\_id=user\_id)

# Memory saved after this will look like: "Loves Indian food. Allergic to cheese and cannot eat pizza."

# Second interaction: Leveraging stored memory

messages = [

{

"role": "user",

"content": "Suggest restaurants in San Francisco to eat.",

}

]

chat\_completion = client.chat.completions.create(messages=messages, model="gpt-4o-mini", user\_id=user\_id)

print(chat\_completion.choices[0].message.content)

# Answer: You might enjoy Indian restaurants in San Francisco, such as Amber India, Dosa, or Curry Up Now, which offer delicious options without cheese.

In this example, you can see how the second response is tailored based on the information provided in the first interaction. Mem0 remembers the user’s preference for Indian food and their cheese allergy, using this information to provide more relevant and personalized restaurant suggestions in San Francisco.

## **APIs**

Get started with using Mem0 APIs in your applications. For more details, refer to the [Platform](https://docs.mem0.ai/platform/quickstart.mdx).

Here is an example of how to use Mem0 APIs:

from mem0 import MemoryClient

client = MemoryClient(api\_key="your-api-key") # get api\_key from https://app.mem0.ai/

# Store messages

messages = [

{"role": "user", "content": "Hi, I'm Alex. I'm a vegetarian and I'm allergic to nuts."},

{"role": "assistant", "content": "Hello Alex! I've noted that you're a vegetarian and have a nut allergy. I'll keep this in mind for any food-related recommendations or discussions."}

]

result = client.add(messages, user\_id="alex")

print(result)

# Retrieve memories

all\_memories = client.get\_all(user\_id="alex")

print(all\_memories)

# Search memories

query = "What do you know about me?"

related\_memories = client.search(query, user\_id="alex")

# Get memory history

history = client.history(memory\_id="m1")

print(history)