

How to work with Lisette

An Introduction to Answer.ai's Lisette Library

2024-01-15

This is how to write some text including some citations as sidenotes

Quarto (abbreviated Qto, 4to or 4^o) is the format of a book or pamphlet produced from full sheets printed with eight pages of text, four to a side, then folded twice to produce four leaves. The leaves are then trimmed along the folds to produce eight book pages. Each printed page presents as one-fourth size of the full sheet.¹

The earliest known European printed book is a quarto, the Sibyllenbuch, believed to have been printed by Johannes Gutenberg in 1452–53, before the Gutenberg Bible, surviving only as a fragment. Quarto is also used as a general description of size of books that are about 12 inches (30 cm) tall, and as such does not necessarily indicate the actual printing format of the books, which may even be unknown, as is the case for many modern books. These terms are discussed in greater detail in book sizes.

```
# this is a sample code block to reverse a list
def reverse_list(list):
    if something_happens:
        print('this happened')
    else:
        print('this happened because the other did not')
```

① will this code annotation work ? hardly

This is how to embed an image



What can we do with lisette lib

Overview

Feature	Description
DataBlock API	A flexible, lego-like system to build datasets from scratch.
lr_find()	Automatically plots loss vs. learning rate to find the optimal hyperparameter.
fine_tune()	One-line transfer learning method to adapt pre-trained models.
One-Cycle Policy	A training schedule that varies learning rates for faster convergence.
Layered API	A hierarchy of APIs ranging from high-level defaults to pure PyTorch access.

Pro Tip: This dataset was cleaned using the Pandas library before ingestion.

```
!uv pip list # this is how you look for what is installed
```

this is the exact code-block used to
render this environment

Imagine you need to write a simple tools(or fuctions).How can you do that ?. Here is how and it is so easy.

```
def adder(a:float,b:float):  
    '''This adds two number a and b'''  
    return a + b
```

① you always need to add a docstring.

```
!uv pip install lisette -qq
```

```
from litellm import (acompletion, completion, stream_chunk_builder, Message,  
ModelResponse, ModelResponseStream, get_model_info, register_model, Usage)
```

```
from lisette import *
```

```
!uv pip install ipywidgets
```

Using Python 3.12.8 environment at: /Users/lochana-
mbp/q/.venv
Resolved 20 packages in 793ms
Installed 3 packages in 17ms.0.16
+ ipywidgets==8.1.8
+ jupyterlab-widgets==3.0.16
+ widgetsnbextension==4.0.15

```
import os  
from dotenv import load_dotenv
```

```
load_dotenv()
```

```
True
```

```

model = 'gemini/gemini-2.5-pro'

c = Chat(model)

res = c('What is the capital of Australia')

from lisette.core import Chat
from fastcore.utils import patch
import ipywidgets as widgets
from IPython.display import display, clear_output

@patch
def edit_last(self: Chat):
    """
    Displays an interactive widget to edit the last message in history.
    Updates the Chat history in-place upon clicking 'Update'.
    """
    if not self.hist:
        print("No history to edit.")
        return

    # 1. Get the last message object
    last_msg = self.hist[-1]

    # 2. Extract current content safely (handle dict vs object)
    if isinstance(last_msg, dict):
        current_content = last_msg.get('content', '')
    else:
        # It is a litellm Message object
        current_content = getattr(last_msg, 'content', '')

    # Guard against non-text content (like tool calls or images)
    if not isinstance(current_content, str):
        print(f"Cannot edit content type: {type(current_content)}")
        return

    # 3. Create Widgets
    textarea = widgets.Textarea(
        value=current_content,
        placeholder='Type something...',
```

```

        description='Edit:',
        layout=widgets.Layout(width='100%', height='200px')
    )

save_btn = widgets.Button(
    description='Update History',
    button_style='success', # 'success', 'info', 'warning', 'danger' or ''
    icon='check'
)

out_log = widgets.Output()

# 4. Define Save Action
def on_save(_):
    new_text = textarea.value

    # Update the history object in-place
    if isinstance(last_msg, dict):
        last_msg['content'] = new_text
    else:
        last_msg.content = new_text

    with out_log:
        clear_output()
        print(" History updated successfully!")

save_btn.on_click(on_save)

# 5. Display
display(widgets.VBox([textarea, save_btn, out_log]))


from litellm import (acompletion, completion, stream_chunk_builder, Message,
                     ModelResponse, ModelResponseStream, get_model_info, register_model, Usage)
from IPython.display import Markdown, Image

from litellm import ModelResponse

```

```

def _response(self: litellm.ModelResponse):
    response = self.model_dump.get('choices')[0]['message']['content']
    return response

```

NameError: name 'litellm' is not defined

```

NameError Traceback (most recent call last)
Cell In[90], line 1
----> 1 def _response(self: litellm.ModelResponse):
      2     response = self.model_dump.get('choices')[0]['message']['content']
      3     return response
NameError: name 'litellm' is not defined

```

```

res.model_dump()

```

```

{'id': '6BsxabbaJoGL4-EP146qiQE',
 'created': 1764826083,
 'model': 'gemini-2.5-pro',
 'object': 'chat.completion',
 'system_fingerprint': None,
 'choices': [{'finish_reason': 'stop',
   'index': 0,
   'message': {'content': "The capital of Australia is **Canberra**.\n\nA common misconception known cities. However, Canberra was chosen as a compromise between these two rivals in 1908."}},
   'role': 'assistant',
   'tool_calls': None,
   'function_call': None,
   'images': [],
   'thinking_blocks': [],
   'provider_specific_fields': None}]],
 'usage': {'completion_tokens': 520,
   'prompt_tokens': 7,
   'total_tokens': 527,
   'completion_tokens_details': {'accepted_prediction_tokens': None,
     'audio_tokens': None,
     'reasoning_tokens': 464,
     'rejected_prediction_tokens': None,
     'text_tokens': 56,
     'image_tokens': None},
   'prompt_tokens_details': {'audio_tokens': None,
     'image_tokens': None}}
}

```

```
'cached_tokens': None,  
'text_tokens': 7,  
'image_tokens': None}},  
'vertex_ai_grounding_metadata': [],  
'vertex_ai_url_context_metadata': [],  
'vertex_ai_safety_results': [],  
'vertex_ai_citation_metadata': []}
```

```
model_dump = res.model_dump()
y = model_dump.get('choices')[0]['message']['content']
y
```

"The capital of Australia is **Canberra**.\n\nA common misconception is that it's Sydney or Melbourne. However, Canberra was chosen as a compromise between these two rivals in 1908."

```
dir(res)
```

```
'__abstractmethods__',  
'__annotations__',  
'__class__',  
'__class_getitem__',  
'__class_vars__',  
'__contains__',  
'__copy__',  
'__deepcopy__',  
'__delattr__',  
'__dict__',  
'__dir__',  
'__doc__',  
'__eq__',  
'__fields__',  
'__fields_set__',  
'__format__',  
'__ge__',  
'__get_pydantic_core_schema__',  
'__get_pydantic_json_schema__',  
'__getattr__',  
'__getattribute__',  
'__getitem__'
```

```
'__getstate__',  
'__gt__',  
'__hash__',  
'__init__',  
'__init_subclass__',  
'__iter__',  
'__le__',  
'__lt__',  
'__module__',  
'__ne__',  
'__new__',  
'__pretty__',  
'__private_attributes__',  
'__pydantic_complete__',  
'__pydantic_computed_fields__',  
'__pydantic_core_schema__',  
'__pydantic_custom_init__',  
'__pydantic_decorators__',  
'__pydantic_extra__',  
'__pydantic_fields__',  
'__pydantic_fields_set__',  
'__pydantic_generic_metadata__',  
'__pydantic_init_subclass__',  
'__pydantic_on_complete__',  
'__pydantic_parent_namespace__',  
'__pydantic_post_init__',  
'__pydantic_private__',  
'__pydantic_root_model__',  
'__pydantic_serializer__',  
'__pydantic setattr_handlers__',  
'__pydantic_validator__',  
'__reduce__',  
'__reduce_ex__',  
'__replace__',  
'__repr__',  
'__repr_args__',  
'__repr_name__',  
'__repr_recursion__',  
'__repr_str__',  
'__rich_repr__',  
'__setattr__',
```

```
'__setstate__',  
'__signature__',  
'__sizeof__',  
'__slots__',  
'__str__',  
'__subclasshook__',  
'__weakref__',  
'_abc_implementation',  
'_calculate_keys',  
'_copy_and_set_values',  
'_get_value',  
'_iter',  
'_repr_markdown_',  
'_response_ms',  
'_setattr_handler',  
'choices',  
'construct',  
'copy',  
'created',  
'dict',  
'from_orm',  
'get',  
'id',  
'json',  
'model',  
'model_computed_fields',  
'model_config',  
'model_construct',  
'model_copy',  
'model_dump',  
'model_dump_json',  
'model_extra',  
'model_fields',  
'model_fields_set',  
'model_json_schema',  
'model_parametrized_name',  
'model_post_init',  
'model_rebuild',  
'model_validate',  
'model_validate_json',  
'model_validate_strings',
```

```
'object',
'parse_file',
'parse_obj',
'parse_raw',
'schema',
'schema_json',
'system_fingerprint',
'to_dict',
'to_json',
'update_forward_refs',
'verify']
```

```
list_of_choices
```

```
[{'finish_reason': 'stop',
 'index': 0,
 'message': {'content': "The capital of Australia is **Canberra**.\n\nA common misconception is that Canberra was chosen as the capital because it is the most centrally located known city. However, Canberra was chosen as a compromise between these two rivals in 1908.",
 'role': 'assistant',
 'tool_calls': None,
 'function_call': None,
 'images': [],
 'thinking_blocks': [],
 'provider_specific_fields': None}]]
```

```
k = Chat(model)
```

```
res = k('what is the capital of sri lanka')
```

```
res.hist
```

```
AttributeError: 'ModelResponse' object has no attribute 'hist'
```

```
-----  
AttributeError                                     Traceback (most recent call last)  
Cell In[100], line 1  
----> 1 res.hist  
File ~/q/.venv/lib/python3.12/site-packages/pydantic/main.py:1026, in BaseModel.__getattribute__(self, name)  
    1023     return super().__getattribute__(item) # Raises AttributeError if appropriate  
    1024 else:
```

```
1025      # this is the current error
-> 1026      raise AttributeError(f'{type(self).__name__}!r} object has no attribute {item!r}')
AttributeError: 'ModelResponse' object has no attribute 'hist'
```

Import Cachy

```
from cachy import enable_cachy
enable_cachy()

res = c('This is nice, can you tell me a joke?')
res
```

Of course!

Why don't scientists trust atoms?

...Because they make up everything!

- id: YbwaaeaPMd7ijuMPrIGt2A0
- model: gemini-2.5-pro
- finish_reason: stop
- usage: Usage(completion_tokens=556, prompt_tokens=25, total_tokens=581, completion_tokens_details=CompletionTokensDetailsWrapper(accepted_predictions=1, audio_tokens=None, reasoning_tokens=535, rejected_prediction_tokens=None, text_tokens=21, image_tokens=None), prompt_tokens_details=PromptTokensDetailsWrapper(audio_tokens=None, cached_tokens=None, text_tokens=25, image_tokens=None))

Ok now if we try to do the same prompt again what would happen?

```
res_2 = c('This is nice, can you tell me a joke?')
res_2
```

Glad you liked it! Here's another one for you:

What do you call a fake noodle?

...An impasta!

- id: srwwafe4EofKg8UPjvDlkQ4
- model: gemini-2.5-pro
- finish_reason: stop
- usage: Usage(completion_tokens=544, prompt_tokens=59, total_tokens=603, completion_tokens_details=CompletionTokensDetailsWrapper(accepted_prediction_tokens=None, reasoning_tokens=515, rejected_prediction_tokens=None, text_tokens=29, image_tokens=None), prompt_tokens_details=PromptTokensDetailsWrapper(audio_tokens=None, cached_tokens=None, text_tokens=59, image_tokens=None))

I think you need `patch_litellm()`

```
patch_litellm()
```

```
first = c('Tell me about Sri Lanka')
```

```
first
```

Of course! Sri Lanka is a fascinating and beautiful country with a rich history and diverse culture. Here's a comprehensive overview for you.

An Introduction to Sri Lanka

Often called the “**Pearl of the Indian Ocean**” or the “**Re-splendent Isle**,” Sri Lanka is a teardrop-shaped island nation located just south of India. It’s a country of incredible diversity packed into a relatively small area. You can go from sun-drenched beaches to cool, misty mountains covered in tea plantations in just a few hours.

Key Aspects of Sri Lanka

1. Geography and Nature

- **Diverse Landscapes:** The coastal belt is lined with stunning beaches and lagoons. The interior features a central highland region with mountains, waterfalls, and vast tea estates. The northern and eastern parts are flatter and drier.
- **Incredible Wildlife:** Sri Lanka is one of the world's top biodiversity hotspots. It's famous for its large population of **Asian elephants**, which can be seen in national parks like Udawalawe and Minneriya. It's also one of the best places in the world to spot **leopards** (in Yala National Park) and **blue whales** (off the southern coast near Mirissa).
- **National Parks:** The country has numerous protected areas, including Sinharaja Forest Reserve, a UNESCO World Heritage Site and the last viable area of primary tropical rainforest in the country.

2. History and Culture

- **Ancient Roots:** Sri Lanka has a documented history of over 2,500 years. The ancient cities of **Anuradhapura** and **Polonnaruwa** were magnificent capitals with enormous stupas (dome-shaped Buddhist shrines) and advanced irrigation systems.
- **The Cultural Triangle:** This area in the center of the country is home to several UNESCO World Heritage Sites, including:
 - **Sigiriya Rock Fortress:** An ancient palace and fortress built atop a massive rock column, famous for its stunning frescoes.
 - **Dambulla Cave Temple:** A complex of caves filled with hundreds of Buddha statues and intricate paintings.
 - **The Sacred City of Kandy:** Home to the Temple of the Tooth Relic, which houses a sacred tooth of the Buddha.
- **Colonial Influence:** The island was colonized by the Portuguese, Dutch, and finally the British, who introduced tea cultivation on a massive scale. This colonial past is

visible in the architecture of cities like **Galle**, with its famous Dutch Fort.

- **People and Religion:** The majority of the population is **Sinhalese** (mostly Buddhist), with a significant **Tamil** minority (mostly Hindu). There are also Muslim and Christian communities. This mix of cultures makes for a vibrant tapestry of festivals, traditions, and languages (Sinhala and Tamil are the official languages).

3. The Economy and Famous Exports

- **Ceylon Tea:** Sri Lanka (formerly known as Ceylon) is one of the world's largest tea exporters. A visit to the hill country isn't complete without a tour of a tea plantation.
- **Spices:** The island has been a hub for the spice trade for centuries. It's famous for its high-quality **cinnamon**, as well as cloves, nutmeg, and pepper.
- **Gems:** Known as the "Gem Island," Sri Lanka is a source of beautiful sapphires, rubies, and other precious stones.
- **Tourism:** Tourism is a vital part of the economy, attracting visitors with its blend of nature, culture, adventure, and wellness.

4. Food

Sri Lankan cuisine is a treat! It's known for its vibrant colors and rich, spicy flavors. * **Rice and Curry:** This is the national dish, but it's not just one curry. It's a plate of rice served with a variety of small, flavorful dishes made from vegetables, meat, or fish, often using coconut milk and a unique blend of spices.

* **Kottu Roti:** A popular street food made from chopped flatbread, vegetables, egg, and/or meat, all stir-fried on a hot griddle with a rhythmic clanging of metal blades. * **Hoppers (Appa):** Bowl-shaped pancakes made from fermented rice flour and coconut milk. They are crispy on the edges and soft in the center, often served with an egg cooked inside (**Egg Hopper**). * **String Hoppers (Idiyappam):** Steamed nests of rice flour noodles, usually eaten for breakfast with a coconut sambol and curry.

Recent History

It's also important to acknowledge that Sri Lanka has faced significant challenges. The country endured a long and painful civil war from 1983 to 2009. In recent years, it has also faced economic difficulties. Despite these hardships, the people are known for their resilience, warmth, and hospitality.

In short, Sri Lanka is a land of contrasts and immense beauty, offering everything from ancient history and spiritual sites to thrilling wildlife safaris and relaxing beach holidays.

- id: chatcmpl-xxx
- model: gemini-2.5-pro
- finish_reason: stop
- usage: Usage(completion_tokens=2564, prompt_tokens=95, total_tokens=2659, completion_tokens_details=CompletionTokensDetailsWrapper(accepted_prediction_tokens=None, reasoning_tokens=1471, rejected_prediction_tokens=None, text_tokens=1093, image_tokens=None), prompt_tokens_details=PromptTokensDetailsWrapper(audio_tokens=None, cached_tokens=None, text_tokens=95, image_tokens=None))

```
# now let's see how cached response work
cached_response = c('Tell me about Sri Lanka')
cached_response
```

You got it! Since we've covered the general overview, let's dive into some of the most unique and fascinating facts about Sri Lanka.

Here are some things that make the island truly special:

1. The Origin of the Word “Serendipity” The English word “serendipity,” which means a fortunate or happy accident, comes from *Serendib*, an old Arabic name for Sri Lanka. The term was coined by Horace Walpole in 1754, inspired by a Persian fairy tale about three princes from Serendib who were always making discoveries by accident.

2. Home to the World's First Female Prime Minister

In 1960, Sri Lanka (then Ceylon) made history when Sirimavo Bandaranaike became the world's first-ever female head of government.

3. The National Flag is One of the Oldest in the World

The Sri Lankan flag is rich with symbolism. The golden lion represents the Sinhalese people, the four Bo leaves in the corners represent the four Buddhist virtues, and the orange and green stripes represent the Tamil and Muslim minorities, respectively.

4. It's the True Home of Cinnamon While many countries use cinnamon, the “true cinnamon” (*Cinnamomum verum*) is native to Sri Lanka. For centuries, the island was the world's primary source, making it a priceless hub for spice traders.

5. The National Sport Isn't Cricket Although cricket is wildly popular and the country has a world-class team, the official national sport of Sri Lanka is actually **volleyball**.

6. A Haven for Elephants Sri Lanka has the highest density of wild Asian elephants in the world. Every year, hundreds of elephants gather at the Minneriya National Park in an event known as “The Gathering,” which is the largest meeting of Asian elephants on the planet.

7. The Sacred Tooth of the Buddha The city of Kandy is home to the *Sri Dalada Maligawa* (Temple of the Sacred Tooth Relic). This temple houses what is believed to be a real tooth of the Buddha, making it one of the most sacred pilgrimage sites for Buddhists worldwide.

8. A Very High Literacy Rate Despite its economic challenges, Sri Lanka boasts one of the highest literacy rates in South Asia, at over 92%. Education is highly valued in the culture.

Is there any of these points you'd find interesting to explore further? For example, we could talk more about the history of the spice trade or the significance of the Temple of the Tooth.

- id: `chatmpl-xxx`
- model: `gemini-2.5-pro`

- finish_reason: stop
- usage: Usage(completion_tokens=1617, prompt_tokens=1677, total_tokens=3294, completion_tokens_details=CompletionTokensDetailsWrapper(accepted_prediction_tokens=None, reasoning_tokens=1068, rejected_prediction_tokens=None, text_tokens=549, image_tokens=None), prompt_tokens_details=PromptTokensDetailsWrapper(audio_tokens=None, cached_tokens=None, text_tokens=1677, image_tokens=None))

```
dir(Chat)
```

```
['__call__',  
 '__class__',  
 '__delattr__',  
 '__dict__',  
 '__dir__',  
 '__doc__',  
 '__eq__',  
 '__format__',  
 '__ge__',  
 '__getattribute__',  
 '__getstate__',  
 '__gt__',  
 '__hash__',  
 '__init__',  
 '__init_subclass__',  
 '__le__',  
 '__lt__',  
 '__module__',  
 '__ne__',  
 '__new__',  
 '__reduce__',  
 '__reduce_ex__',  
 '__repr__',  
 '__setattr__',  
 '__sizeof__',  
 '__str__',  
 '__subclasshook__',  
 '__weakref__',  
 '_call',  
 '_prep_msg',  
 'print_hist']
```

```
display(c.print_hist())

{'role': 'user', 'content': 'hey'}

Message(content='Hey there! How can I help you today?', role='assistant', tool_calls=None, function_name='assistant')

{'role': 'user', 'content': 'This is nice, can you tell me a joke?'}

Message(content="Of course!\n\nWhy don't scientists trust atoms?\n\n...Because they make up everything!")

{'role': 'user', 'content': 'This is nice, can you tell me a joke?'}

Message(content="Glad you liked it! Here's another one for you:\n\nWhat do you call a fake noodle?")


{'role': 'user', 'content': 'Tell me about Sri Lanka'}


Message(content='Of course! Sri Lanka is a fascinating and beautiful country with a rich history. It is a diamond-shaped island nation located just south of India. It\'s a country of incredible diversity packed into a small space. From sun-drenched beaches to cool, misty mountains covered in tea plantations in just a few hours.\n\n---\n\n***Key Aspects of Sri Lanka***\n\n### **1. Geography and Nature**\n* **Diverse Landscapes:** Sri Lanka has a variety of landscapes, from coastal plains to highland plateaus. The island is known for its lush greenery and diverse flora and fauna.\n* **Buddhist Shrines:** Sri Lanka is home to many ancient Buddhist shrines and temples, such as the Lion Rock in Kandy and the Temple of the Tooth in Colombo.\n* **Advanced Irrigation Systems:** The ancient Sri Lankans developed sophisticated irrigation systems to manage water resources in a dry climate.\n* **The Cultural Triangle:** This region is rich in cultural heritage, featuring ancient cities like Anuradhapura and Polonnaruwa, and famous landmarks like Sigiriya.\n* **Cinnamon:** Sri Lanka is famous for its high-quality cinnamon, as well as cloves, nutmeg, and pepper.\n* **Gems:** Known as the "Gem Island," Sri Lanka is a major producer of sapphires, rubies, and other precious stones.\n* **Food:** Sri Lankan cuisine is a blend of Indian, Chinese, and local influences. A popular dish is hoppers (Appa), which are fried on a hot griddle with a rhythmic clanging of metal blades.\n* **Hoppers (Appa):** Bowl-shaped pancakes made from fermented rice flour and coconut milk. They are crispy on the edges and soft in the center.\n* **Recent History:**\nIt's also important to acknowledge that Sri Lanka has faced significant political challenges in recent years, particularly the civil war and the subsequent peace process.\n\n---\n\n### **Recent History**\n\nIt's also important to acknowledge that Sri Lanka has faced significant political challenges in recent years, particularly the civil war and the subsequent peace process.\n\n---\n\nIs there a particular part of that you'd like to know more about? For example, do you want to know about the country's history, culture, or economy?')


{'role': 'user', 'content': 'Tell me about Sri Lanka'}


Message(content='Of course! We just touched on it, but I can give you a more focused summary on Sri Lanka. Let's take a closer look at Sri Lanka:\n\n**Sri Lanka: The Essentials**\n* **Nickname:** The Pearl of the Orient\n* **Geography:** Sri Lanka is an island nation located in the Indian Ocean, off the southern coast of India. It is roughly the size of West Virginia.\n* **Climate:** Sri Lanka has a tropical climate with two main seasons: the wet season (May to September) and the dry season (October to April).\n* **People:** The population of Sri Lanka is approximately 21 million, with the majority being Sinhalese. Other ethnic groups include Tamils, Moors, and Malays.\n* **Religion:** Buddhism is the dominant religion in Sri Lanka, followed by Hinduism, Christianity, and Islam.\n* **Language:** The official languages are Sinhala and Tamil.\n* **Food:** Sri Lankan cuisine is a blend of Indian, Chinese, and local influences. A popular dish is hoppers (Appa), which are fried on a hot griddle with a rhythmic clanging of metal blades.\n* **Hoppers (Appa):** Bowl-shaped pancakes made from fermented rice flour and coconut milk. They are crispy on the edges and soft in the center.\n* **Recent History:**\nIt's also important to acknowledge that Sri Lanka has faced significant political challenges in recent years, particularly the civil war and the subsequent peace process.\n\n---\n\nIs there a particular part of that you'd like to know more about? For example, do you want to know about the country's history, culture, or economy?')


{'role': 'user', 'content': 'Tell me about Sri Lanka'}


Message(content='You got it! Since we've covered the general overview, let's dive into some specific facts about Sri Lanka.\n\n**1. The Oldest National Flag:**\nSri Lanka's national flag is one of the oldest in the world, having been adopted in 1948. It features five horizontal stripes of equal width, with the colors being red, yellow, blue, white, and green. The flag also features a lion in the center, which is the national animal of Sri Lanka.\n\n**2. The First Female Head of Government:**\nSri Lanka has had several female heads of government, but the first was Prime Minister Ranasinghe Premadasa, who served from 1989 to 1993. She was the first woman to hold the position in Sri Lanka.\n\n**3. The National Flag is One of the Oldest in the World:**\nSri Lanka's national flag is one of the oldest in the world, having been adopted in 1948. It features five horizontal stripes of equal width, with the colors being red, yellow, blue, white, and green. The flag also features a lion in the center, which is the national animal of Sri Lanka.\n\n**4. The National Sport:**\nSri Lanka's national sport is volleyball. The Sri Lankan national volleyball team, the official national sport of Sri Lanka is actually **volleyball**.\n\n**5. The Oldest National Flag:**\nSri Lanka's national flag is one of the oldest in the world, having been adopted in 1948. It features five horizontal stripes of equal width, with the colors being red, yellow, blue, white, and green. The flag also features a lion in the center, which is the national animal of Sri Lanka.\n\n**6. The Oldest National Flag:**\nSri Lanka's national flag is one of the oldest in the world, having been adopted in 1948. It features five horizontal stripes of equal width, with the colors being red, yellow, blue, white, and green. The flag also features a lion in the center, which is the national animal of Sri Lanka.\n\n---\n\nNone')
```

```
patch_litellm(seed=42)
pr = 'tell me a joke'
```

```
j = Chat(model)
first_joke = j(pr)
first_joke
```

Why don't scientists trust atoms?

Because they make up everything

- id: chatcmpl-xxx
- model: gemini-2.5-pro
- finish_reason: stop
- usage: Usage(completion_tokens=556, prompt_tokens=5, total_tokens=561, completion_tokens_details=CompletionTokensDetailsWrapper(accepted_prediction_tokens=None, reasoning_tokens=542, rejected_prediction_tokens=None, text_tokens=14, image_tokens=None), prompt_tokens_details=PromptTokensDetailsWrapper(audio_tokens=None, cached_tokens=None, text_tokens=5, image_tokens=None))

```
second_joke = j(pr)
second_joke
```

I'm reading a book on anti-gravity.

It's impossible to put down

- id: chatcmpl-xxx
- model: gemini-2.5-pro
- finish_reason: stop
- usage: Usage(completion_tokens=788, prompt_tokens=25, total_tokens=813, completion_tokens_details=CompletionTokensDetailsWrapper(accepted_prediction_tokens=None, reasoning_tokens=769, rejected_prediction_tokens=None, text_tokens=19, image_tokens=None), prompt_tokens_details=PromptTokensDetailsWrapper(audio_tokens=None, cached_tokens=None, text_tokens=25, image_tokens=None))