测试 Grok API

- 使用中国签发的 Visa 卡是可以的。

- https://console.x.ai

- `grok-2-latest` 模型: 输入 2 USD 每百万 tokens，输出 10 USD 每百万 tokens。

代码：

```python
import os
import requests
import json
from dotenv import load_dotenv

load_dotenv()

GROK_API_KEY = os.environ.get("GROK_API_KEY")
if not GROK_API_KEY:
    raise ValueError("GROK_API_KEY 环境变量未设置")

url = "https://api.x.ai/v1/chat/completions"
headers = {
    "Content-Type": "application/json",
    "Authorization": f"Bearer {GROK_API_KEY}"
}
data = {
    "model": "grok-2-latest",
    "messages": [
        {
            "role": "user",
            "content": " 解释 AI 的工作原理"
        }
    ]
}

try:
    response = requests.post(url, headers=headers, json=data)
    response.raise_for_status()
    json_response = response.json()
    if 'choices' in json_response and json_response['choices']:
        first_choice = json_response['choices'][0]
```

```python
        if 'message' in first_choice and 'content' in first_choice['message']:
            print(first_choice['message']['content'])
        else:
            print(" 意外的响应格式：缺少消息或内容")
    else:
        print(" 响应中未找到选择")
except requests.exceptions.RequestException as e:
    print(f"API 请求期间出错：{e}")
    if e.response:
        print(f" 响应状态码：{e.response.status_code}")
        print(f" 响应内容：{e.response.text}")
except json.JSONDecodeError as e:
    print(f" 解码 JSON 响应时出错：{e}")
```