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import openmeteo_requests

import requests_cache
import pandas as pd
from retry_requests import retry

# Setup the Open-Meteo API client with cache and retry on error
cache_session = requests_cache.CachedSession('.cache', expire_after =
3600)
retry_session = retry(cache_session, retries = 5, backoff_factor =
0.2)
openmeteo = openmeteo_requests.Client(session = retry_session)

# Make sure all required weather variables are listed here
# The order of variables in hourly or daily is important to assign
them correctly below
url = "https://api.open-meteo.com/v1/forecast"
params = {
    "latitude": 52.52,
    "longitude": 13.41,
    "current": ["temperature_2m", "relative_humidity_2m",
"precipitation", "wind_speed_10m"],
    "timezone": "America/Los_Angeles",
    "start_date": "2025-01-23",
    "end_date": "2025-01-24",
    "models": "best_match"
}
responses = openmeteo.weather_api(url, params=params)

# Process first location. Add a for-loop for multiple locations or
weather models
response = responses[0]
print(f"Coordinates {response.Latitude()}°N {response.Longitude()}°E")
print(f"Elevation {response.Elevation()} m asl")
print(f"Timezone {response.Timezone()}
{response.TimezoneAbbreviation()}")
print(f"Timezone difference to GMT+0 {response.UtcOffsetSeconds()} s")

# Current values. The order of variables needs to be the same as
requested.
current = response.Current()

current_temperature_2m = current.Variables(0).Value()
current_relative_humidity_2m = current.Variables(1).Value()
current_precipitation = current.Variables(2).Value()
current_wind_speed_10m = current.Variables(3).Value()

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print(f"Current time {current.Time()}")  
  
print(f"Current temperature_2m {current_temperature_2m}")  
print(f"Current relative_humidity_2m {current_relative_humidity_2m}")  
print(f"Current precipitation {current_precipitation}")  
print(f"Current wind_speed_10m {current_wind_speed_10m}")
```

Coordinates 52.52000045776367°N 13.419998168945312°E

Elevation 38.0 m asl

Timezone b'America/Los_Angeles' b'GMT-8'

Timezone difference to GMT+0 -28800 s

Current time 1737763200

Current temperature_2m 6.949999809265137

Current relative_humidity_2m 84.0

Current precipitation 0.0

Current wind_speed_10m 10.966712951660156