Getting Data in Python

Access APIs

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What is API?

Many websites and web services provide Application Programming Interfaces (APIs), which allow you to get data in a structured format. This saves you the trouble of web scraping!

Get Free API JSON FORMAT

These APIs are serialized into JavaScript Object Notation (JSON) format and does not need authentication

We will use requests library to call/fetch the API and json library to load the JSON file into Python Object (Dictionary or List)

Get Free API JSON FORMAT

```python
import requests
import json


url = requests.get(API Address URL)
# deserializing the JSON String Format into Python Object
data = json.loads(url.text)
# deserializing the JSON local file into Python Object
data = json.load(jsonfile)
```

Get Free API XML Format

We can use beautifulsoup library to parse XML APIs

```python
import requests
from bs4 import BeautifulSoup


xml = requests.get(API Address URL)
soup = BeautifulSoup(xml.content, 'lxml-xml')
```

Warm Up Practice

P1: Find Free JSON APIs and try to access them in Python

P2: Write a Python script to get and read an xml file API. You can find the sitemap.xml for any website.

P3: Write a Python script to read JSON file locally.

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