# INFO-664-01 Programming For Cultural Heritage

API

# API

- End points, URLs on the web that return JSON.

- Two types of requests we will be using:

  - "get" - ask for things

  - "post" - send things

# API

- In python the best library to use for talking with APIs is the "requests" module.

  - http://docs.python-requests.org/en/latest/

- We need to install it using pip, in the terminal we will type:

  - pip3 install requests

# Requests - Basics

```python
import requests

r = requests.get("http://www.pratt.edu")

print("The request code was:",r.status_code)

print("Here is the text of the webpage:",r.text)
```

# API - Workflow

- Get the API response using requests

- Parse the JSON text string into a Python dictionary.

- Work with the data.

# Challenge

- Do something cool with the Smithsonian API Use their more advance API endpoints

  - Think of its use in a bigger project, how would you start?

- **OR** find another API to do something with and try to get data out of its like the CitiBike station status API:

  - https://gbfs.citibikenyc.com/gbfs/en/station_information.json

  - Or other APIs:

  - https://github.com/toddmotto/public-apis