10.13.23

Topic: Collecting Data

- **Techniques of Collecting Data**
  - Observe a sample → collect data unobtrusively
  - Survey a sample → Collect data by asking people directly
    - Questionnaires
    - Interviews
  - Experiment on a sample
  - Use data someone else has responsibly collected.
- **API Requests**
  - The act of using HTTP requests in order to access datasets collected and maintained by other people.
  - Common HTTP requests: GET, POST, PUT, DELETE
    - **GET → retrieve data**
    - POST → modify the underlying data by creating new data
    - PUT → modify the underlying data by updating existing data
    - DELETE → remove existing data

```python
import requests
url = "https://api.imgflip.com/get_memes"
response = requests.get(url).json()
```

- **Web Scraping**
  - The act of extraction data from websites using the structure of its HTML
  - **Scraping and crawling exists in legal gray zones. Please make sure to review the Terms of Service of the sites you are trying to scrape.**