

Python: do básico à autonomia intermediária

aula 12

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APIs2 – Twitter + SQL

Basic APIs

”.. a script for web scraping inevitably involves a large amount of trial and error.”[1, p.139]

- ▶ API is an acronym for Application Programming Interface.
 - ▶ An API call is any request sent to the API.
 - ▶ Requests are typically sent to the API in one of two ways:
 1. Manually using a web browser (such as navigating to the URL <https://api.fda.gov/drug/label.json>) or
 2. Programmatically sending the request via executing code that sends the API call and processes the response.
- Continue reading this documentation for more details on how to compose an API call for openFDA specifically.

API JSON

The API returns individual results as JSON by default.

The JSON object has two sections:

1. ‘meta’: Metadata about the query, including a disclaimer, link to data license, last-updated date, and total matching records, if applicable.
2. ‘results’: An array of matching results, dependent on which endpoint was queried.

Exemplos

- ▶ `api0.py`
- ▶ `api1.py`
- ▶ `dados.gov.br` (reúne bases de dados, mas não (sic) tem API)... é possível automatizar o acesso (com algum esforço)... → siga para BOTs.
- ▶ Tem o link, mas não consegui acessar:
https://ck.govdata.gov.br/api/3/action/organization_list

BOTs

Requirements

- ▶ `selenium`
- ▶ `pynput` obs. para o `bot_imoveis`
- ▶ Download `chromedriver` (engine)

`bot_dou.py` & `bot_imoveis.py`

Tweet API

`tweet_base_exemplo.py` & `tweet_sql_example.py`

Referência

- [1] David Mertz. *Cleaning Data for Effective Data Science*. Packt, Birmingham, UK, 2021.