Challenge Collecting Data Web Scraping

Scraping the links — Collecting property's data — Csv output

How we did it

- 1. Inspection
- 2. Using Selenium, BeautifulSoup and threading to get the links of properties
- 3. Using requests and PyQuery to collect the properties' data
- 4. Creating a csv file with the results
- 5. Issues

Inspection

- Captcha on Zimmo ⇒ too hard to scrape
- Cookie on Immoweb ⇒ manageable
- Inspection of the HTML to understand the structure of the site



Getting the links

- Selenium to bypass the cookie click button (interaction)
- BeautifulSoup to find the 'a' and 'href' of all the properties' links
- "For loop" to go through all the pages
- Thread class to speed up the process of data collection
- Write results to a .txt file (+/- 33.000 links)

Getting the properties' data

- PyQuery to get the desired features from the HTML
- Check the differences between different types of properties
- Formatting the data ('Yes' = 1, 'No' = 2, ...)
- Cleaning the data

Result csv

- "For loop" to go through all the links
- Dict.writer to create a row for each property
- Sample of 5.001 results (not enough time)

Issues

- Who does what?
- Problem with requests so Selenium/BeautifulSoup instead
- Problem with timeout ⇒ time.sleep()
- Inconsistency in HTML structures: table (th, td, th, ...)
- Hard to locate all desired features
- Multi-threading not applicable ⇒ time lost
- "None" values ⇒ not showing in csv
- Multi-contribution in git repo