

Web Scrapping

Alex Liu

Web Scraping (overview)

- Systematically retrieve data displayed on a website
- Types of websites
 - Basic - html
 - Dynamic - javascript
- Tools
 - "Inspect" the webpage (e.g. [link](#))
 - Create a css selector ([link](#))
 - Get the attribute (e.g. text, link, class name, etc.)

Web Scrapping (process)

1. Get the url of website you'd like to scrape
2. Explore the website code
 - a. Right-click → "inspect" (Chrome)
 - b. Build a "Selector" to collect the data you want
 - i. Understand attributes
 - ii. Understand chaining selections
3. Use BeautifulSoup to get the data
 - a. Create a "Soup" with the url
 - b. Get the Object with `soup.select(selector)`
 - c. Get the correct Attribute (e.g. the text)

Exercise

- url: <https://chess-results.com/tnr669871.aspx?lan=1>
- First, practice making the css selector
 - Questions
 - For the table of players, how would you select the 9th row?
 - How would you select the element that contains the title of the tournament?
 - Tools
 - ctrl-f in the html inspector
 - css-selector building ([link](#))
- Second, place the selector into `soup.select()` to get data and format it