Practical Web Scraping for Data-driven Social Science

Collecting data from online

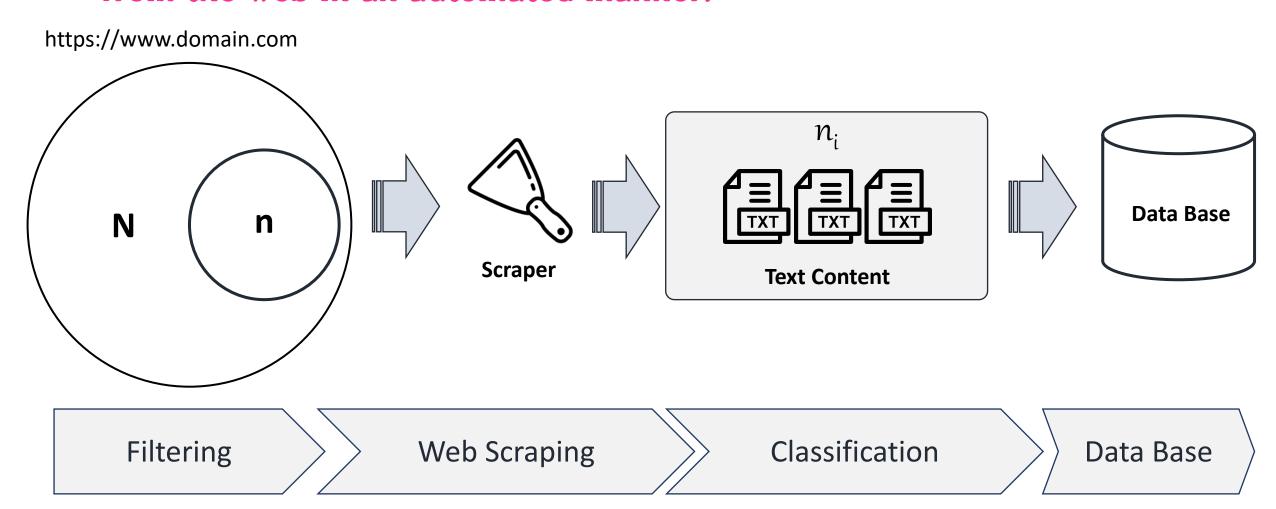
Week 06

WEB SCRAPING



What is Web Scraping and Why?

'the construction of an agent to download, parse, and organize data from the web in an automated manner."



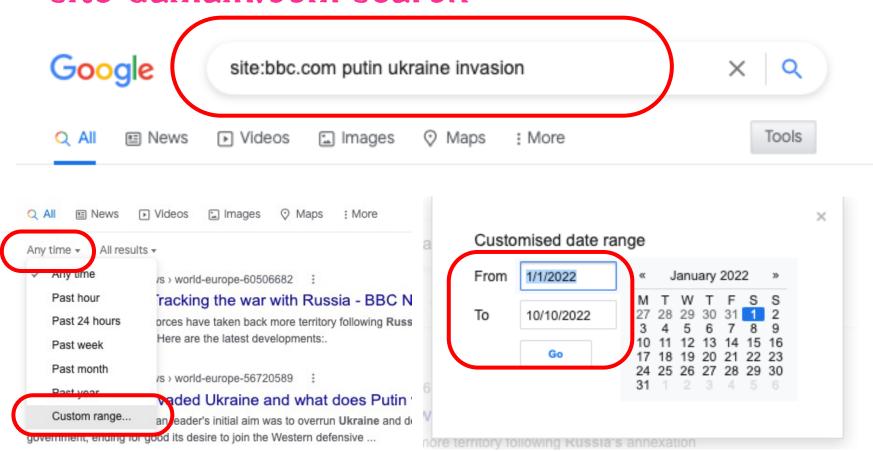
Lecture Task

If you think, "Somehow, I was able to get data from the website. I did it! "After this lecture, it will be a perfect score.

- Find a site that has the data you want.
- You know where your data is located on your website.
- Write code in R to get data.

1. Search the website from google.com

site:damain.com search

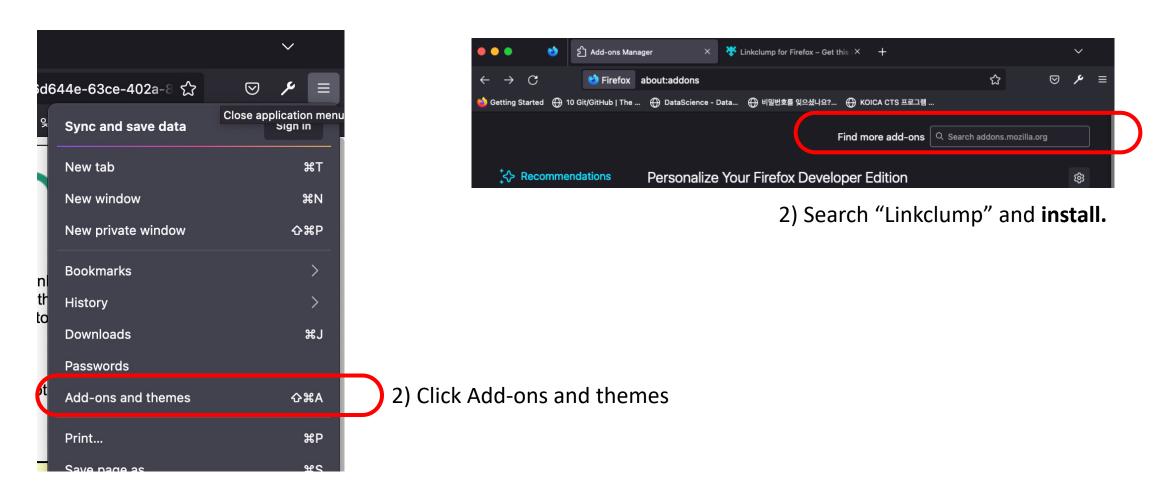


The recommended search date range is **3month.**

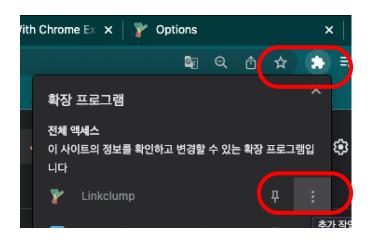
In general, google gives lesser than 400 results.

1) Install Firefox Developer edition

https://www.mozilla.org/en-US/firefox/developer/



- You can do it with Google Chrome, but I recommend FDE.
 - 1) You need to download a semi-automatic URL selector.
 - 2) Visit the following **"Chrome web store"** link. <u>https://chrome.google.com/webstore/category/extensions</u>
 - 3) Search "Linkclump" and install.

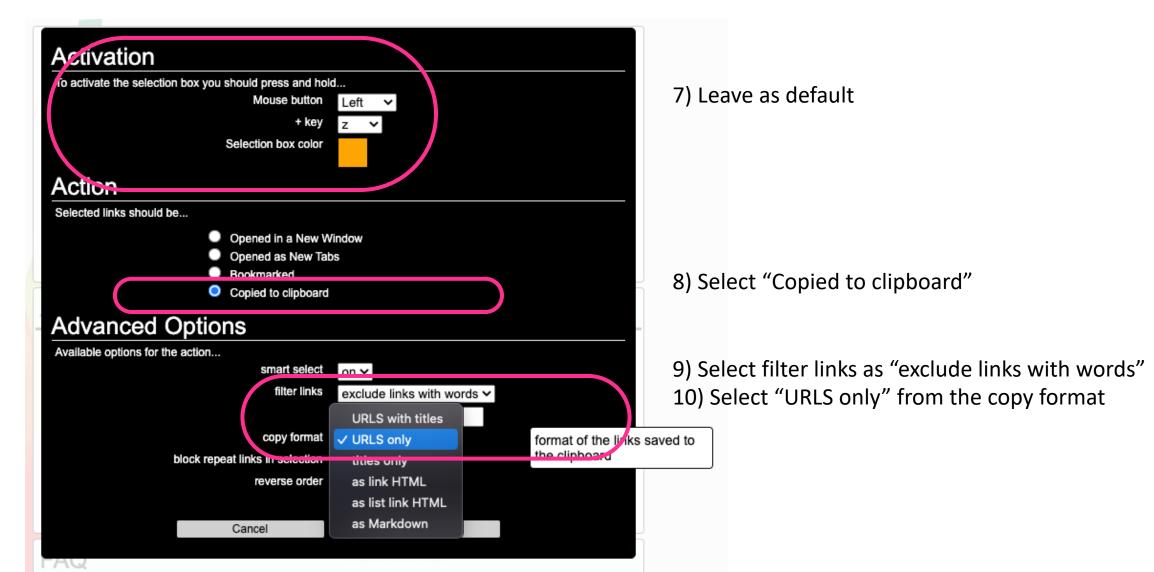


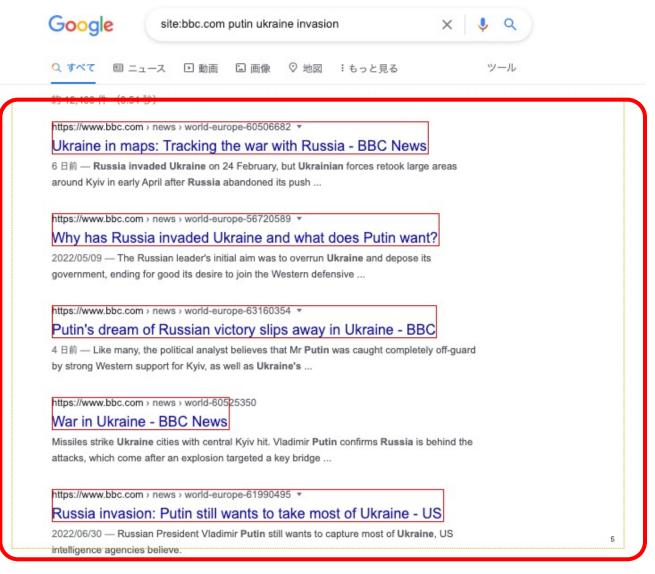
4) Chrome Extension logo

5) Click the "additional work" and select "option"



Scrape the URL manually





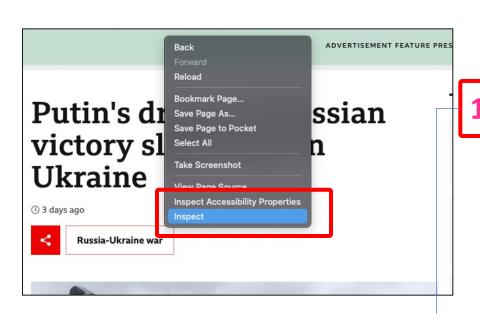
- 11) Press "Z" from the keyboard and drag the search results with the "left" click the mouse.
- * This will save automatically to the clipboard

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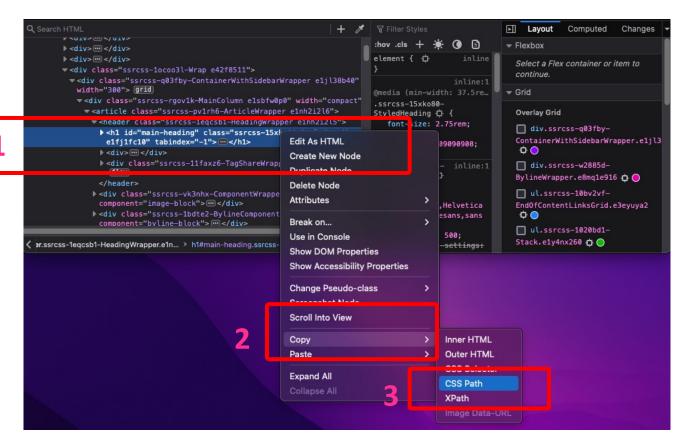
12) Open excel, create the "url" cell, and paste it above the "url" cell.

CSS, Xpath and Cording Practice: Web Scraping

Search the location of actual data



1) Role over to the target to inspect, click the "right" mouse button, and select "inspect".



2) Move your mouse to the highlighted area and click the "right" mouse and select "copy", and select either option of "CSS path" or "Xpath."

Next Week

Please bring your laptop.

Week 7: Text mining fundamentals

Text manipulation in R, Quanteda grammar basics, and frequency tests

- What is data mining in a practical sense?
- Narrative Analysis
- Metaphor Analysis