

ISA 401: Business Intelligence & Data Visualization

06: Scraping Multiple Webpages

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 Automated Scheduler for Office Hours

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Quick Refresher from Last Class

- ✓ Understand when can we scrape data (i.e., `robots.txt`)
- ✓ Scrape a webpage using 

Non-Graded Assessment of Your Understanding

Scrape the Names and Positions of the current cabinet members from <https://www.whitehouse.gov/administration/cabinet/> and save the results into a **data frame** that contains two columns: (a) name, and (b) position.

Learning Objectives for Today's Class


- Scrape multiple webpages using  and .
- Use loops and/or tidymodeling approaches to scrape data from multiple webpages.

Web Scraping Demos (Cont.)

Demo 1: Scraping all Plane Crashes 2013-2020

- We will build on the previous example and we will scrape all the plane crashes that were recorded in the [plane crash database](#) between 2013-2020.
- Then, we will create a single **data frame** for all crashes. It will contain the fields in the individual tables as well as the year of crash.
- Then, we will **export the results to a CSV** so that we can analyze that in a separate program if we wanted to.

Practice Outside of Class


The most popular listings on Netflix are rated and reviews on IMDb are available at <https://www.imdb.com/search/title/?companies=co0144901>. Write an  script that will produce a tibble that contains the **following information for the first 300 entries**:

- title, which you will save in a column titled `title`
- year/years of show, which you will save in a column titled `year`
- 1-2 sentence summary of show, which you save in a column titled `summary`

Recap

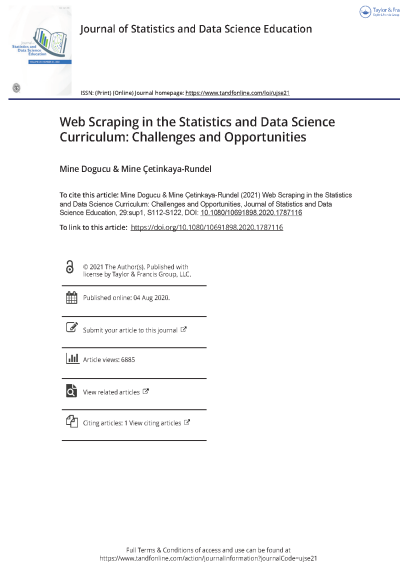
Summary of Main Points

By now, you should be able to do the following:

- Scrape multiple webpages using .
- Use loops and/or tidy modeling approaches to scrape data from multiple webpages.

Things to Do to Prepare for Next Class

- Go over your notes, read through the supplementary material (below), and complete **Assignment 05** on Canvas.



- PDF of Published Paper
- ePub of Published Paper
- Practical Web Scraping in R