Some notes to better facilitate use of the web-scraping tool

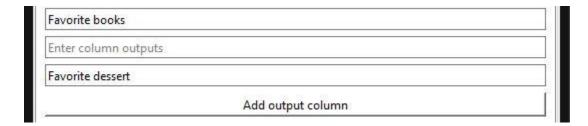
This tool has been built for the purposes of automating web scraping. It takes an input csv (containing at least the categories of name and institution) and outputs an Excel file. Previous iterations of the tool were rigorous in how they parsed information and what they outputted—this one is not. The user is able to alter the headers of the Excel file, the prompts given to the model used to parse data (GPT), as well as sites they believe would be good to search for to retrieve needed information; see below for a comprehensive explanation on these features of the tool. After each person is scraped, their results will be saved to the output file, meaning that if the tool runs into issues late into the process all earlier results will be saved.

If you have any questions, I would be happy to answer them via, evandzook@gmail.com. Happy scraping!

On changing the output

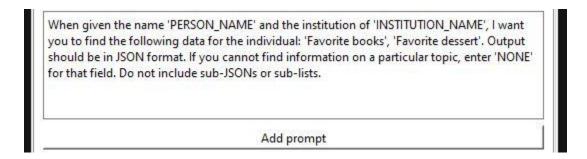
Using the tab entitled 'Alter output', the internal workings of the tool can be reformatted in several notable ways: the output columns of the Excel file, the prompts used by GPT when analyzing text taken from websites, and search terms used by the tool when gathering links. Furthermore, the name of the output file can be chosen in the textbox labeled with 'Output file name'. (If no name is chosen, then the output file will take the name of the input csv and add " output" to the end).

Columns of the output Excel file can be changed by adding new ones to the text input of the output column section (pictured below)



Any column can be entered here and that will appear verbatim on the output file. If there is a blank slot left, then that will be ignored. The output Excel for this set of columns would only have 'Favorite books' and 'Favorite dessert'.

Prompts given to GPT can be changed in the prompt section, seen below.



This particular prompt was gotten by pressing the 'Generate prompts' button. This will generate prompts based on the inputted columns. In order to get the best results from GPT, the tool will fit a maximum of three requests per prompt. If there are four inputted headers and prompts are generated by the tool, then there will be two prompts, one with three requests and the other with only one.

The text "PERSON_NAME" and "INSTITUTION_NAME" are stand-in variables that will be switched out with the pertinent name/institution from the input csv file, as each name is processed. For example, if the input csv file contains "Bilbo Baggins" as a name and "Burglar" as an institution, the prompt would automatically be converted to

When given the name 'Bilbo Baggins' and the institution of 'Burglar', I want you to find the following data for the individual: 'Favorite books', 'Favorite dessert'. Output should be in JSON format. If you cannot find information on a particular topic, enter 'NONE' for that field. Do not include sub-JSONs or sub-lists.

when Bilbo's turn comes to be scraped. As you can see, Burglar is hardly an institution and more like an occupation. There is some leeway here, as this category is to help the tool narrow down individuals that Google returns; perhaps there are multiple Bilbo Baggins that Google picks up. Beyond this, you are able to build or alter prompts as you see fit, maybe to add clarifying information for a specific prompt, but without requesting that the output be in JSON format the tool will very likely fail to output anything.

If you want the Excel output to have a certain column but not scrape any information for that column, simply include that column in the header section and keep it out of the prompt section.

If you want to include columns from the input csv, just put them in the header section and keep them out of the prompt section. The tool will prioritize information from the csv over information from GPT, so if you put in a prompt/header that shares the same name as something from the input csv, the tool will output the information from the input file verbatim instead of anything from GPT.

If processing starts and no prompts are selected, the tool will automatically generate them.

There are a few output columns that will not be included in automatically generated prompts:

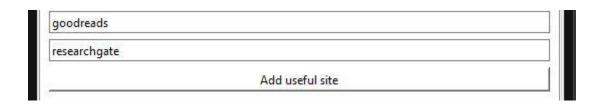
- "email", "emails", "Email", or "Emails"
 - Emails are scraped using a method separate from GPT (regular expression) and so aren't included
- "Other key notes", "other key notes"
 - Due to the origin of the tool, this is reserved specifically to hold information on patents and awards
- "Relevant links", "relevant links"
 - This column holds all links used to scrape
- "Name", "name"
- "Institution", "institution"
 - Name and institution are required to be in the input csv, so if you want them in the output just include them in the header.

If you want to save an output format, you can do so by pressing the 'Save formatting' button. Saved formats can be loaded using the drop down menu.

IF there is no input whatsoever given and the drop down menu is set to its default text, then the scraping option for scientometrics will be used, which this tool was originally developed for.

There is currently no way to delete saved formats (they can be overwritten by using the same name when saving) due to a fear of cluttering the GUI. If an output needs to be deleted, they can be found in the folder named '/saved_output_formats/' where this tool is loaded from. They are saved as txt files.

Additional sites can be used for searching by adding them to the search section.



Specifying these as additional links will lead to additional search terms, i.e.

- Bilbo Baggins Burglar
- Bilbo Baggins Burglar goodreads
- Bilbo Baggins Burglar researchgate

Would be the searches used by the tool in finding good sites to scrape. If no additional sites are specified, then only the first search will be used.

Due to concerns on scraping and information validity, the following locations will be disregarded in scraping

- Facebook
- Instagram
- LinkedIn
- Twitter
- ratemyprofessors
- Coursicle
- YouTube
- Amazon
- Wiki (of any sort)
- .doc
- .pdf
- imgres