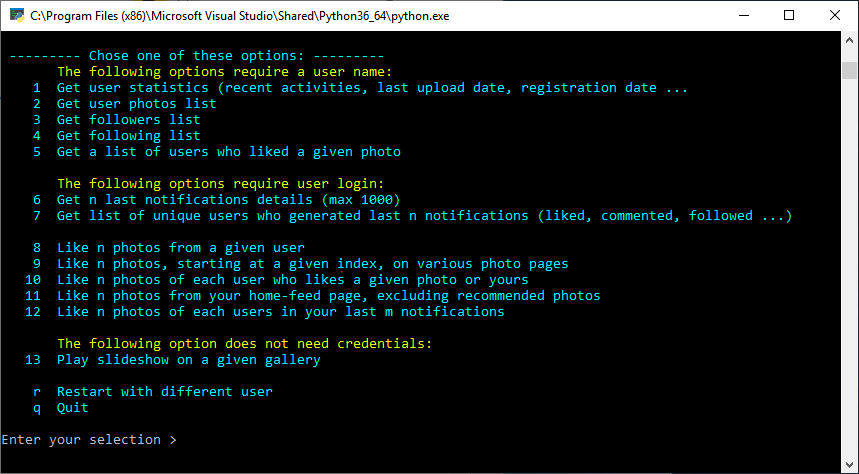
Main Menu



The first 7 options are for data collection

The results of these options are saved on disk as CSV files. You will be offered to view the output in the web browser when the process finished.

The next 5 options, from 8 to 12, are the automated processes, or bots

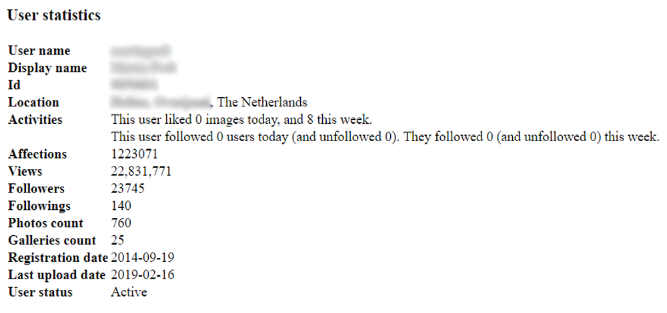
Note: Photographer names and photo titles in the demo screenshot in this document are not real, or blurred.

Option 1: Get user statistics

Automatic processing:

* Open user home page [https://500px.com/[user\_name](https://500px.com/%5buser_name)]
* Run the document JavaScript to render the page content
* Use lxml to extract interested data
* Use regular expression to extract the JSON part in the body, and obtain more data from it.

Sample output:

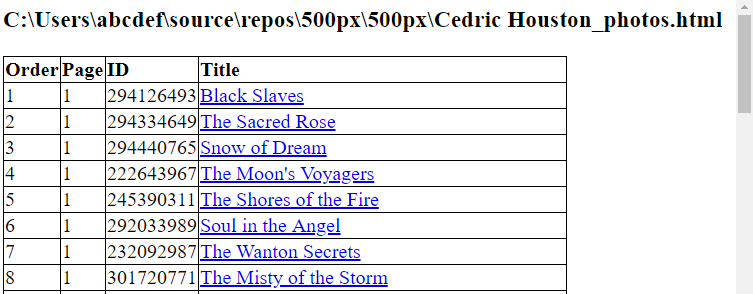


Option 2: Get User Photos list

Automatic processing:

* Open user home page. Scroll down until all photos are loaded
* Run the document JavaScript to render the page content
* Use lxml library to parse and extract photos details
* To construct the href of a photo, we need the page number where the photo was assigned to, the user id and user name

Sample output:

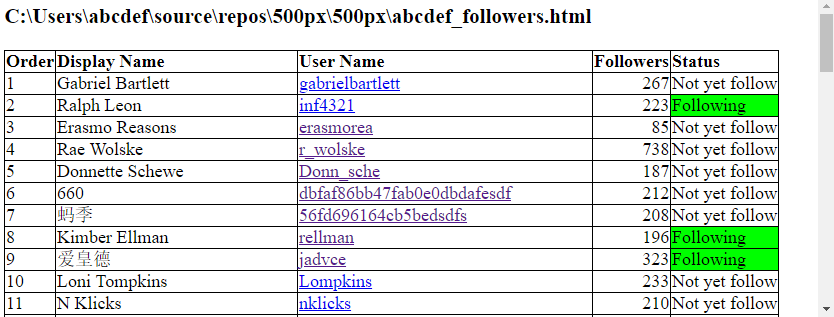


Option 3, and 4: Get Followers and Friend list

Automatic processing:

* Open user home page, locate the text “Followers” and click on it to open a model windows containing the list of users
* Keep scrolling down until all items are loaded
* Run the document JavaScript to render the page content
* Extract data and write it to a list. An item contains Display Name, User Name and Number of Followers
* Write the list to a csv file. When done, offer the user option to view the file in html format

Sample output:



Option 5: Get a list of users who likes a given photo

Automatic processing:

* Ask user for the link to the photo. Open it.
* Run the document JavaScript to render the page content
* Extract photographer name and the title of the photo
* Locate the Like count number and click on it to open the modal window containing all users who had liked the photo
* Keep scrolling down until all users have been loaded
* Extract info ( Display Name, User Name (with link) and Number of Followers
* Save list in a csv file. And provide a html version for viewing

Sample output:

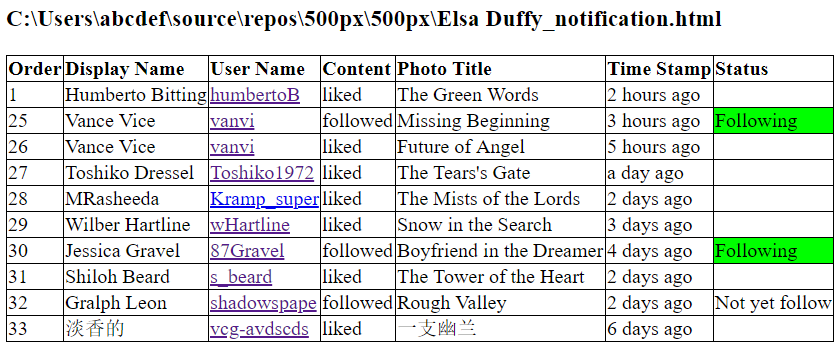
The output is the same as previous figure (in step 3, 4)

Option 6: Get n last notifications details

Automatic processing:

* Ask the user for desired number of notifications (n) and to enter the password
* Open the login page, submit the credentials. Then open the user’s notification page
* Scroll down (m) times for (n) notifications to show up on screen. (m) is calculated using NOTIFICATION\_PER\_LOAD=20
* Extract info, write to csv file. Offer to show the file in html format

Sample output:



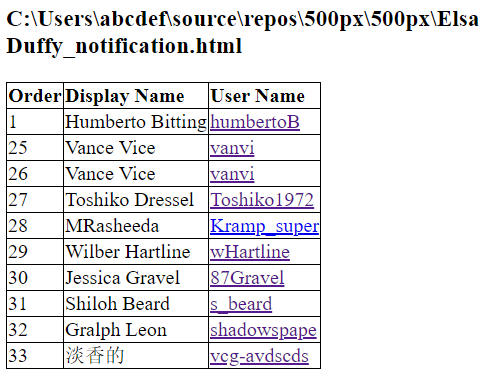
Option 7: Get list of unique users who generated last n notifications

Automatic processing:

Same process as in the previous option (Option 6: Get n last notifications). But the output list just contains the pairs of [display name, user name].

Duplications are removed as well

Sample output:



Option 8: Like n photos of a given user

Automatic processing:

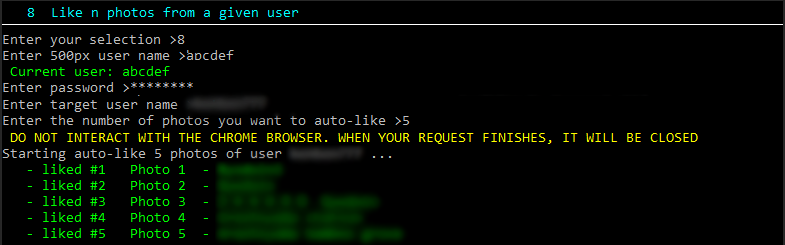
* Ask user for some inputs, as in figure below.
* Login, then open the given user’s home page
* Locate the first photo, click on like-icon if it is not yet liked, or move to the next photo if it is
* Continue until the asking number of photos is reached, scrolling down the page if needed

Note about the counting of the desired number (n):

When you process a photo, if it is already liked, you will count it as if it was done by the process. For example, if the request is three photos, and you found that in the first three photos in the list, two of them were already liked, then you just need to like one.

To change this behavior, there is a Boolean named include\_already\_liked\_photos\_in\_count that you need to change it to False.

Sample result:

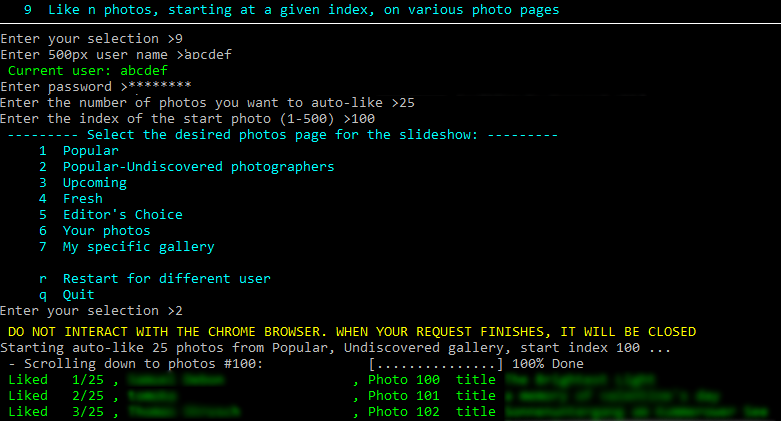


Option 9: Like n photos on various photo pages, starting from a given index

Automatic processing:

The process is similar to the previous option ( option 8: Like n photos of a given user). But it will open the given photo page instead of the user home page.

Sample result: Like (5) photos, starting at photo (#100) on the page (Popular of Undiscovered photographers)

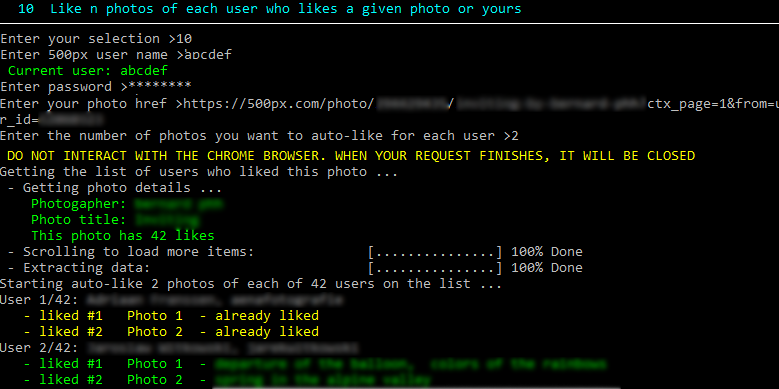


Option 10: Like n photos of each user who liked a given photo

Automatic processing:

* First step, do as in option 5 (Get a list of users who likes a given photo)
* Second step, for each user in the list, do as in option 8 (Like n photos of a given user)

Sample result: Auto-like (1) photo of each user who liked a given photo, skipping already-liked photos



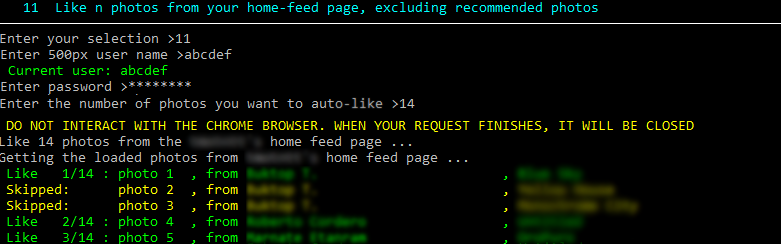
Option 11: Like n photos from the user’s home feed page, excluding the recommended photos

Automatic processing:

* Open the user home page, locate the 500px logo and click on it to open the user’s home feed page
* Get the list of all <img> elements on the page
* Remove from the list unwanted images such as thumbnails, avatar, recommended photos
* For each of remain image elements on the list, like it if it is not yet like, move to the image if it is already liked

Note: there are users who may upload 5, 10 photos at a time. We don’t want to like all of them. So the process will skip all consecutive photos of the same users.

Sample result: Auto-like (15) photos from the user’s home feed page, excluding the recommended photos and skipping consecutive photos of the same users

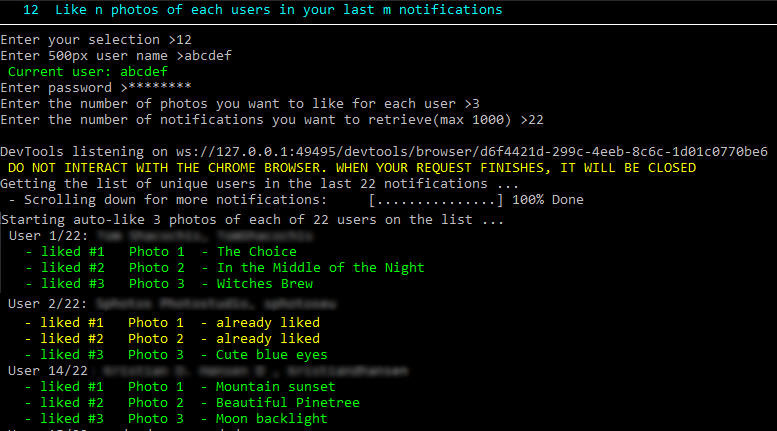


Option 12: Like n photos of each user in the last m notifications

Automatic processing: In general, there are two steps:

* First step, do as in option 7 ( Get list of unique user who generated last **m** notifications)
* Second step, for each user in the list, do as option 8 ( Auto-like n photos of a given user)

Sample result: Auto-like (2) photos of each user in the last (10) notifications



Option 13: Playing slide show on a selected gallery

Automatic processing:

* The user is asked to enter the desired gallery, and the duration of each photo
* Open the given gallery page in full-screen browser, with scroll bar and info bar hidden.
* Click on the first photo of the gallery to open the photo page
* Locate the Expand icon at the top right corner, click on it to expand the photo
* After the interval time, locate the Next icon at the middle-right side of the photo, click on it to advance to the next photo

Note:

* In single-monitor system, the full-screen browser will cover the control terminal (console). To stop the slideshow before the last

photo is played, on the browser, press “ESC” keys three times

* The user is asked to select one in 5 public galleries, as in figure below, or enter a specific gallery
* Specific gallery may be a personal gallery of any user, or a category-filtered gallery. For example, a link of the popular gallery, with macro and nature categories, is: <https://500px.com/popular/family-people-travel>
* If you want to show the NWFW ( not-suitable-for-work) contents, the on-screen instruction will give you a chance to login

Sample result: Play a slideshow from a public or private photo gallery.

