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1 GFA_Renamer: Utility for renaming consecutive image files based on a set of names

This is a small utility script written for my internship.

While I have tested it extensively and can try to maintain it if users require, understand that there are things which will fall outside the scope of this program.

Simply drag a folder containing ordered image files onto the GUI and follow the Instructions.

1.1 THE GUI

Below you can see an overview on the two main GUIs:

Please drag and drop the folder you want to use on this window.

Chosen folder:

D:\Dokumente neu\000 AAA Dokumente\000 AAA HSRW
\General\AHK scripts\Projects\GFA_Renamer\assets\Image
Test Files

Enter Group names, delimited by a comma ','.

G14,G21,G28,G35,G42,UU

Please set the number of pots/plants per group.
Value must be an integer.

7

used Stick: Device 'Ultra' could not be found.

Submit Help About Config **S**et Testset

v.1.1.2 by ~Gw

Fig. 1 *Main GUI Overview*

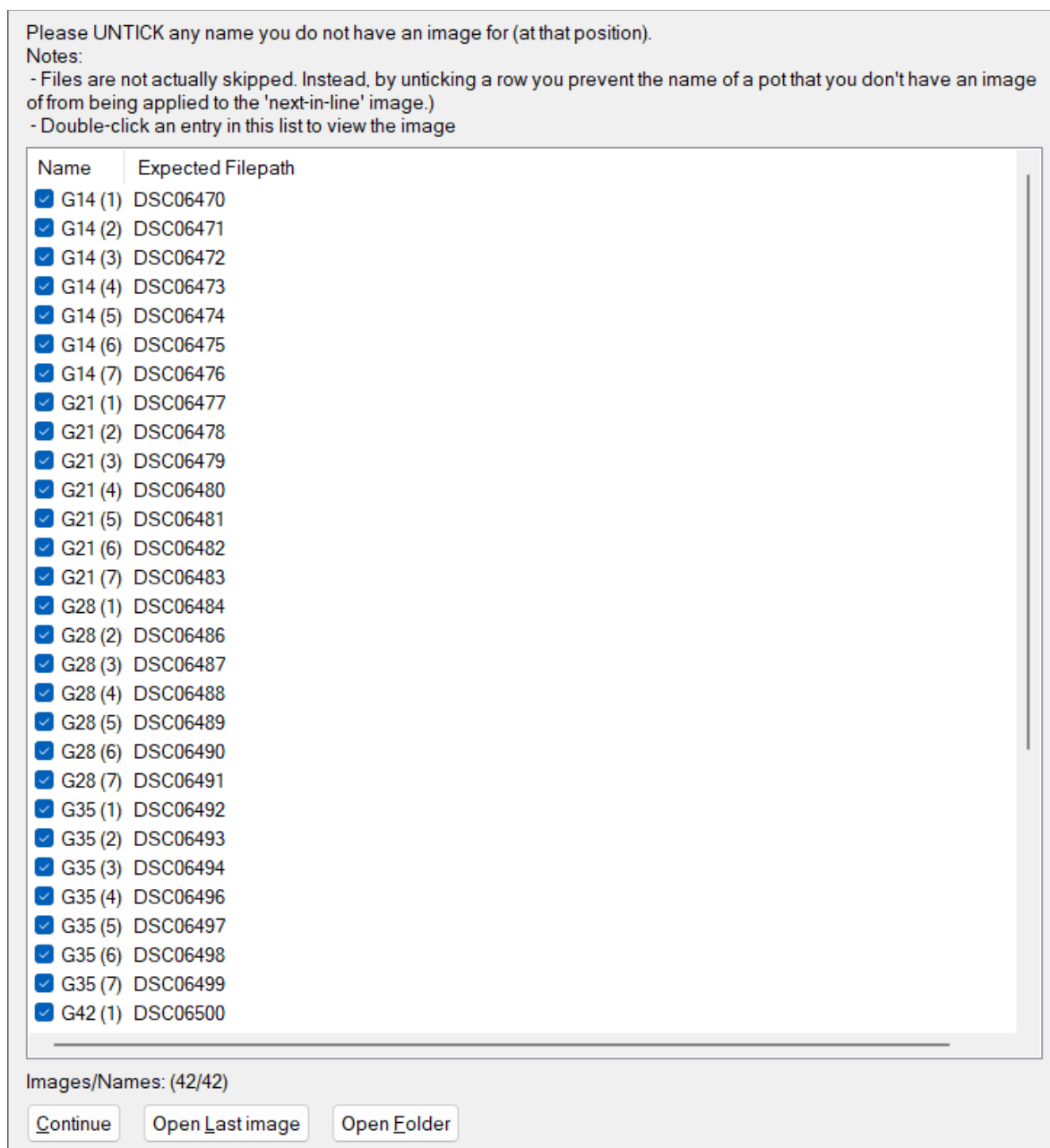


Fig. 2 *Plant-Name Exclusion GUI: Use this to untick NAMES which do not line up with the expected File. Double-click an image to open the image file itself - do so if you want to verify the files being named correctly*

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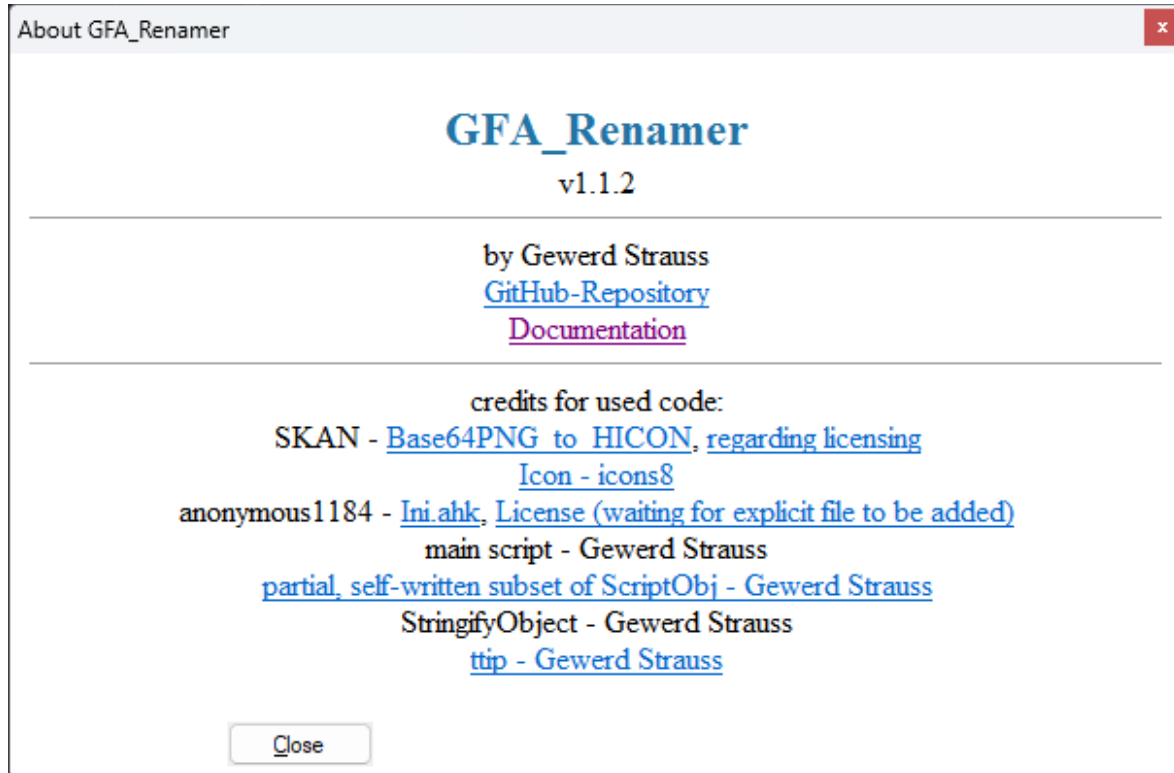


Fig. 3 *About-Window containing links to the Github-Repository, its documentation, as well as links to all code credited to others - and their licensing requirements, if applicable.*

Please drag and drop the folder you want to use on this window.

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Enter Group names, delimited by a comma ','.

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Fig. 4 Field outlining the folder which the script operates upon. This also delimites the area upon which the user should drop the folder for selecting it.

Then enter the required group names and number of pots per group and confirm your choices.

The image files in that folder will then be duplicated into a subfolder GFAR_WD, wherein they will be renamed according to the information provided.

The script additionally provides a log file stating

1. The number of expected files
2. The number of renamed files, and
3. For every file its original and new filename.

The original files will never be altered directly as a precaution. It is the user's responsibility to decide to delete the original backup files.

1.2 How to deal with missing images / NEW

1.3 How to deal with missing images / DEPRECATED

OUTDATED - WAIT FOR UPDATE

In cases where a certain group has fewer images than the other - as could be the case if you loose a single pot at some point due to damage - simply select the image of the **NEXT** pot and create a copy by pressing Duplicate to shift frame.

If we assume that the image for G14D2 is missing *initially*, aka in the image above the file DSC06472 actually contains the image of G14D3, select DSC06472 and press on Duplicate to shift frame.

The result will look something like this:

Example:

You have a group of plants which get watered at half the normal volume for 14 days, and every group has 7 pots.

The pot G14D4 (14 Days at reduced water supply, then back up to normal) was removed because it got dropped a day before.

In this case, all groups have seven images, but the G14-Group only has six. Thus, imagine you have the following images to work with:

Number	Filename	plant label
1	DSC10111.JPG	G14D1
2	DSC10112.JPG	G14D2
3	DSC10113.JPG	G14D3
4	DSC10114.JPG	G14D5
5	DSC10115.JPG	G14D6
6	DSC10116.JPG	G14D7

In this example, DSC10111-DSC10113 are G14D1-G14D3, and DSC10114-DSC10116 are G14D5-G14D7. Thus, the image for G14D4 is missing. If you just run the program, you would falsely rename all files beyond DSC10113 because there would be a frame shift.

To prevent this, create a copy of DSC10113 - it is important that you copy the image of the pot *immediately before the one that is missing*:

Number	Filename	plant label
1	DSC10111.JPG	G14D1
2	DSC10112.JPG	G14D2
3	DSC10113.JPG	G14D3
4	DSC10113 - Copy.JPG	Placeholder for the missing G14D4
5	DSC10114.JPG	G14D5
6	DSC10115.JPG	G14D6
7	DSC10116.JPG	G14D7

Because the script will read images in the folder based on their name, this method ensures the gap is filled appropriately.

This repository contains a sample set in the folder assets\Image Test Files. It contains the raw images, as well as the resulting output in the subfolder GFAR_WD. To use the test-set, use the button Set Testset. A message will pop up notifying you if the testset is loaded.

Note that if the testset folder does no longer exist, the program will attempt to download it from the program's github repository. Be aware that this may be blocked by Firewalls, computer settings or a lack of internet connection.

Please drag and drop the folder you want to use on this window.

Chosen folder:

D:\Dokumente neu\000 AAA Dokumente\000 AAA HSRW
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Fig. 5 *Press this button to load the included testset. This is intended for debugging only;
the resulting output files will be deleted at each*