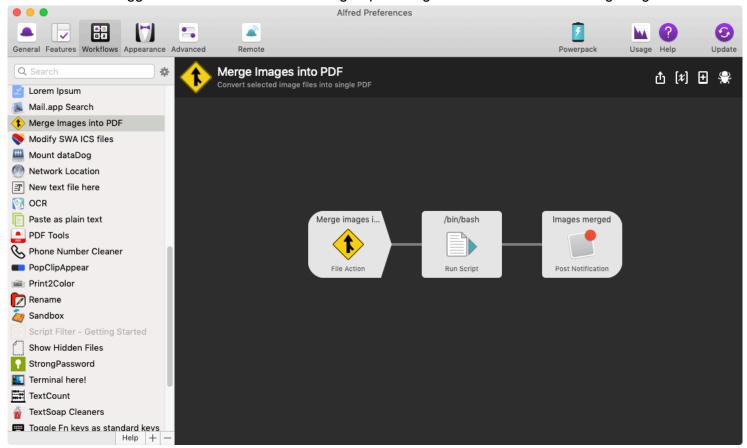
# Merge Images into PDF - an ALFRED workflow

I initially created Automator workflows to perform image merging and then launched those via Alfred. All of that function has now been replaced by Python code using Johannes 'josch' Schauer's <a href="mailto:img2pdf">img2pdf</a> tool.

## **Overview**

The workflow is triggered as a file action. Select a group of image files or a folder containing images.



## **Library installation**

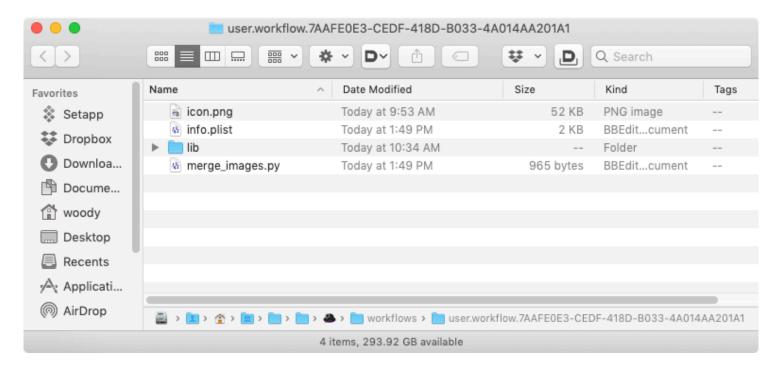
The library must be install in the workflow folder. The user manual is here. I also found this article very relevant.

Open a terminal session in the workflow folder. That is, right-click on the workflow and select **Open in Finder**. Point your terminal session here.

#### Install img2pdf using pip

```
pip install --target=lib img2pdf
```

This will create a lib folder in the workflow folder as shown below:



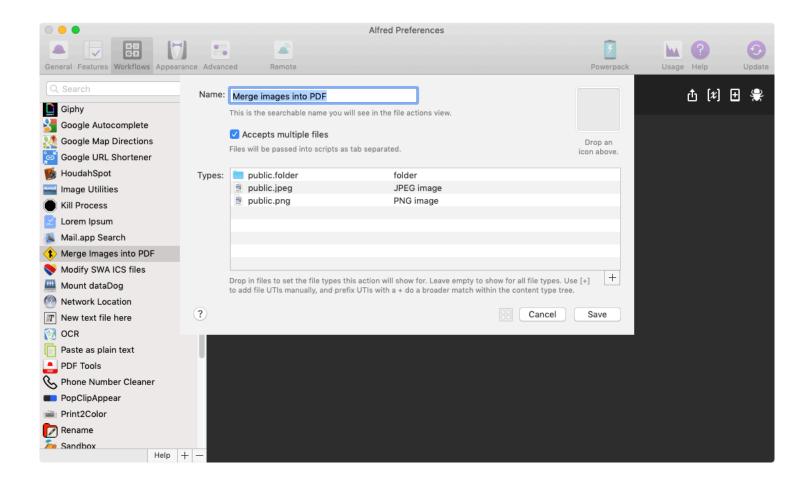
Besides the usual library imports, img2pdf and PIL both need to be imported from lib

```
from lib import img2pdf
from lib import PIL
```

## **Workflow components**

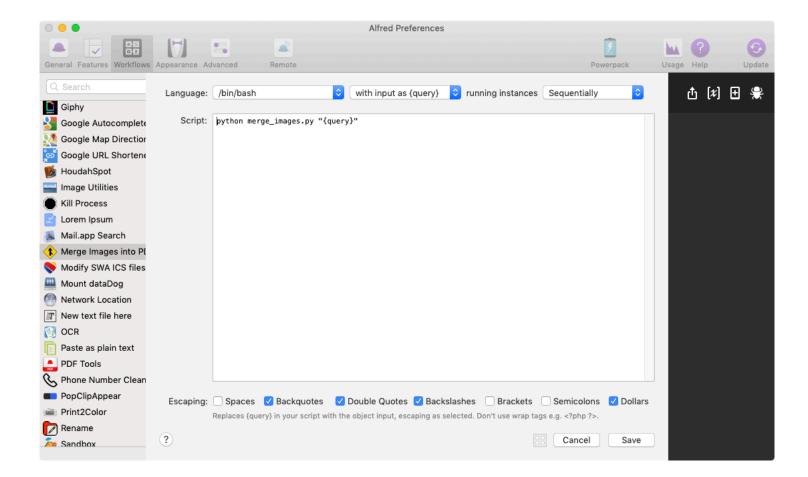
#### File action

The File Action trigger is configured to accept folders or multiple image files



## **Run Script**

The Run Script action runs the **merge\_images.py** code.



### Code

The Python code discerns whether the inputs are folder or file. If folder, the contents are filtered by accepted image formats. The resulting files are then converted to a time-stamped PDF.

```
#!/usr/bin/env python
from lib import img2pdf
from lib import PIL
import os
import sys
import re
from time import gmtime, strftime
#
# must install img2pdf into workflow library
# open terminal in workflow folder
# pip install --target=libs img2pdf
#
  command line version works
     img2pdf --output out_02.pdf test_3.jpg test_4.jpg test_1.jpeg
input = sys.argv[1].split('\t')
formats = ['.tif', '.tiff', '.png', '.PNG', '.jpg', '.JPG', '.JPEG', '.jpeg']
if os.path.isdir(input[0]): # It is a directory
    fnames = os.listdir(input[0])
    files = [input[0] + '/' + x for x in fnames if os.path.splitext(x)[1] in formats]
elif os.path.isfile(input[0]): # It is a file
    files = input
pdf bytes = img2pdf.convert(files)
path_prefix = re.match('(\/Users\/\w*)', files[0]).group()
time_str = strftime("%Y%m%d %H%M%S", gmtime())
fname = path_prefix + '/Desktop/' + time_str + '.pdf'
outfile = open(fname, "wb")
outfile.write(pdf_bytes)
sys.stdout.write(str(len(files)) + ' images >> ' + time_str + '.pdf')
```