1. Download Anaconda for your operating system. Python 3.6 version: <https://www.anaconda.com/download/>

Note that Anaconda is Python with a bunch of additional built in libraries. Just like FIJI is ImageJ with additional libraries.

1. Select the Anaconda Navigator icon on your desktop, open spyder, and then open Random\_filename\_generator.py
2. Go to the bottom of the script. You will see a function named random\_rename:

random\_rename(“/path/to/input/directory”, “/path/to/output/directory”, “.czi”)

1. Paste in your *input directory*. It must be the full path to where your original files are located. The path must be enclosed in quotes. **This directory should only contain the files that you want to be renamed and nothing else**. Paste in your *output directory*. It must be the full path where you want the random number renamed files to be located. The path must be enclosed in quotes. **This directory must be empty before the code is run, and it must be different from the input directory**. Then paste in your extension (“.txt”, “.czi”, “.tif”, etc). The extension must be enclosed in quotes.
2. Hit the green play button on the top of spyder toolbar. The play button is to the immediate right of the save buttons.



1. If the code is successfully run, the console will display *random\_rename(“/path/to/input/directory”, “/path/to/output/directory”, “.czi”)*
2. Your specified output directory will contain your random number renamed files and two csv files:

1) Details.csv, which records a timestamp, username, hostname, etc

2) Key.csv, which matches each random number renamed file with its original filename

EXAMPLE:

I’m using a mac. But the code should also work on windows and linux machines.

I’ve acquired a few dozen images on the microscope and now I need to rename them for unbiased scoring. The images are .czi files (zeiss format). The images are in a folder called czi\_input. I go to this folder, select it with my mouse, and press:

(Note that if you are using Windows, you will likely have to select the full path through some other means.)

This copies the full path of this folder: /Users/davidtyrpak/Desktop/python\_playground/czi\_input

I paste this path into random\_rename, and then I enclose the path with quotes 🡪 *random\_rename(“/Users/davidtyrpak/Desktop/python\_playground/czi\_input”)*

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I then create an output folder named czi\_output. I copy the path to czi\_output in exactly the same way and then paste this path into random rename 🡪

random\_rename(“/Users/davidtyrpak/Desktop/python\_playground/czi\_input”, “/Users/davidtyrpak/Desktop/python\_playground/czi\_output”)

The final step is to add my file extension. These are .czi files, so I paste “.czi” into the final slot in random\_rename 🡪 random\_rename(“/Users/davidtyrpak/Desktop/python\_playground/czi\_input”, (“/Users/davidtyrpak/Desktop/python\_playground/czi\_output”, “.czi”)