Assignment 6: Workflows Software Engineering for Scientists

Objectives: Become familiar with encoding scientific workflows into a workflow language.

This assignment will build off of the work done in Assignment 5, so use the same repository.

Tasks:

- 1. Develop a small scientific presentation about the data from Agrofood_co2_emission.csv. This will include a few sentence in your README covering:
 - a. Introduction: What are you looking at?
 - b. Results: What did you find? At least 3 figures.
 - i. Feel free to base your visualization on this example file. https://github.com/swe4s/lectures/blob/master/src/workflow/snakemake/fire/hist.py
 - ii. NOTE: This file does not use our best practices. All files you submit must use best practices.
 - c. Methods: What steps did you take to get your results?
- 2. Develop a Snakemake pipeline that reproduces all of the statistics and figures used in your results.
- 3. New code must be properly test. To test if a file is created in ssshtest use the following assert assert_equal \$file_name \$(ls \$file_name)
- 4. All unit and functional tests must be run and passing with github actions
- 5. Create a release from master tagged as 5.0