

IS430 Tutorial For Sweigart Chapter 11

Agenda

- This Work in Relation to the Final Project
- A Tour of the Project
- Work Remaining on Project
- Lessons Learned

This Work in Relation to the Final Project

- This project is based upon Sweigart Chapter 11 file organization features.
- It was inspired by a scenario for depositing data at the Illinois Data Bank.
- This combination of a manageable new set of Python skills and an attractive job-related project is the sweet spot for project selection.
- This was a project for me that helps illustrate what would make up a reasonable Final Project for you.
- It put me in touch with the stress of a project and the need to manage project scope in order to meet the deadline.

A Tour of the Project

- The infrastructure code that I created.
- The synthetic research data files that I generated.
- The tutorial notebook that implements the research data preparation workflow.

Work Remaining on Project (TODO)

- Design and implement research project data separation and packaging.
- Improve research data filenames to include date references.
- Refactor file generation code to correct chaotic coding style.
- Refactor file generation code to be implemented in easier to follow notebooks.
- Create Pytest unit tests to replace current semi-manual unit testing .py programs.
- Create a companion coding assignment as originally intended.

Lessons Learned

- **Don't make the students wait while you develop the courseware.**
- Project scope *always* turns out bigger than you expected.
- Always look for ways to reduce current project scope and still meet the important goals.
- Constantly look for features to delay until the next version of the project.

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