

AEDE 6120 Lab 2

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Outline

- 1 Environment and Setup Recap
- 2 Programming Habits
- 3 Intro to Python (continued)

Conda + Jupyter Setup (Windows)

- Two icons installed:
 - Anaconda Prompt (install packages)
 - Jupyter Notebook (run / write code)
- Keep the terminal window open while coding
- If package missing: install via
`conda install -c conda-forge <package>`

Conda + Jupyter Setup (macOS)

- No desktop icons created
- After installation, open Terminal
- Verify installation: `conda info`
- Install packages: `conda install -c conda-forge <package>`
- Launch Notebook: `jupyter notebook`

Alternative Setup (macOS)

- To mimic Windows “click-to-launch” behavior:
 - Option 1: Install full Anaconda distribution (adds Jupyter icon)
 - Option 2: Keep Miniconda but create Automator launcher

Tools and Workflow Habits

- Editors: PyCharm, VS Code, or others are fine
- Save frequently
- Use snippets or build your own template library
- Aim for reproducibility

Project Organization Tips

- Create a dedicated project folder
- Use subfolders: data, code, output, etc.
- Separate cleaning vs. analysis code
- Data cleaning stage:
 - import raw data
 - clean data
 - save as cleaned dataset
- Analysis stage:
 - load cleaned data
 - summarize, plot, model

Today's Practice

- Code file: Lab 2 Code SP26.ipynb
- Data file: sodaprice.xlsx
- Main contents:
 - Continue using pandas + numpy
 - Write small scripts for: indexing / grouping / transforming/ ...