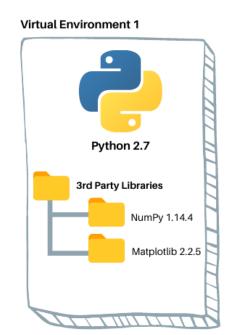
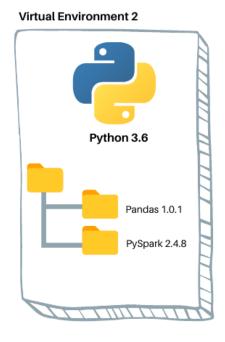
Hardware, Software, and Data Management

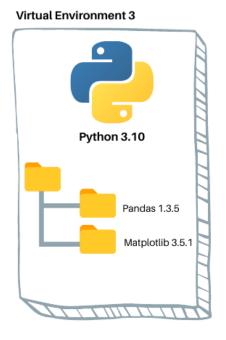
Tasks for This Week

- Understanding computing hardware
- Organizing and managing projects
- Managing environments
- Working with Jupyter lab/notebooks
- Working in Google Colab
- Introduction to SQL

File Management







1. Clean



- 1. Clean
- 2. Dependency conflicts



- 1. Clean
- 2. Dependency conflicts
- 3. Reproducibility



Let's set one up!

Getting started

Windows

- · Open Anaconda Prompt
- Dir: list files
- cd: change directory

macOS

- Open the terminal
- ls: list files
- cd: change directory

Linux

- Open the terminal
- ls: list files
- cd: change directory

Add Conda Forge

conda config -add channels conda-forge
conda config -set channel_priority strict

Creating an Environment

conda create -n ENVNAME python=x.x

conda activate ENVNAME

conda deactivate ENVNAME

conda install PACKAGE

conda list

conda env export > ENVIRONMENT.yml

Conda env create –n ENVNAME –file ENVIRONMENT.yml

Create a new environment with the following: Python 3.8, jupyterlab, pandas, matplotlib, and seaborn

Vocab

- Virtual/Conda/Computing environment
- Dependency
- RAM
- CPU
- \cdot GPU
- Hard drive/storage