MLDS 422 - Intro to Python Lab 1

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Lab and Office Hours

- ► Lab Wednesdays 11 12 pm
 - Weekly until the end of quarter
 - ► No lab during the week of Thanksgiving
- New office hours
 - ► Tuesdays 11 12 pm
- ► We can also schedule alternate times

Homeworks

▶ Due on Fridays one week after

► Submissions of Jupyter notebooks

▶ It's helpful to have submissions with outputs visible

Lab Structure

▶ Materials related to lectures and homeworks

► Q&A

Today's Lab Materials

Setup Virtual Environment

- ► Code Style and Documentation
- ► Homework 1
 - ► File I/O
 - Functions and Variables

Anaconda

https://docs.conda.io/projects/conda/en/latest/
user-guide/install/index.html

► Package Management

► Environment Management

Virtual Environment

► An isolated python environment

Libraries installed in a virtual environment are isolated from other environments and your system python

Easier and cleaner to manage version controls

Conda

- Create a virtual environment and install packages
 - conda create -n lab1 python=3.9
 - conda activate lab1
 - conda install jupyter
 - conda install matplotlib
 - conda install scipy numpy
 - conda deactivate lab1

Conda

- https://docs.conda.io/projects/conda/en/4.6.0/
 _downloads/52a95608c49671267e40c689e0bc00ca/
 conda-cheatsheet.pdf
- conda env list
- conda list -n lab1
- conda update -n lab1 scipy (conda update -n lab1 all)