

MET 3601 Syntax Problem #12

Please do your work in the syntax-problems folder on the JupyterHub and **DON'T** forget to also **upload both the figure and the .ipynb file to Canvas!**

<https://fit24f-1.ees220002.projects.jetstream-cloud.org/>

Objectives

1. Practice writing and running Python code
2. Use File I/O for input into program
3. Using Pandas read functionality and isolate pieces of read in data

Due by 11:00 am 11/08/2024

Problem

1. Write a Python program that will plot US Interstate highways in red for a Midwest region. Use a Lambert Conformal projection for plotting.

Interstate Highways can be identified where the column labeled RTTYP has a value of I.

The datafile tl_2021_us_primaryroads.zip can be accessed on the JupyterHub in the “share” folder, i.e. /home/jovyan/share/

Notes:

- Save the image as **roads.png**
 - Make sure documentation (e.g., comment block and comments throughout code) is present in your source code
 - Make output informative so that anyone running your program understand what is being produced without seeing the assignment.
- Rename the program (notebook)

syntax12_lastname.ipynb

where ‘lastname’ is your lastname 😊