

## Mapping Conformance Exercise

### Instructions:

Using python 3.x, convert the three input datasets into the target dataset. The task is to extrapolate the relationship between input and output data, then write a script to convert it

### Core Requirements:

- Output should match provided output (target.csv)

### Expected Submission:

- main.py – this will be executed to test your code
  - Comment python version used in this file
  - Code should be organized
  - Comments should be used to explain reasoning
- requirements.txt – A virtual environment will be used, only packages defined here will be installed

### Submission Requirements:

- Code executes as follows

python3 main.py <**absolute** path to directory containing input\_data>/input\_data

- Code should create and write to a file called 'result.csv'
  - target.csv will be compared to your output
- Working directory should not affect results as absolute path is passed to the code

### Bonus:

Use multiprocessing package to parallelize transformation – performance decreases due to overhead + small data can be ignored