Files:

***Population Data***

**tenessee\_county\_pop\_data.csv** - original file with just country, population, and average po

(not the target pop for each district)

**tenessee\_county\_pop\_data\_with\_white\_pop.csv** - includes white pop and percent white

pop for each county

**tenessee\_data\_large\_counties\_assigned\_a\_district.csv** - just the counties large enough to

get their own district (if their population was 70% or more of the target district population)

target\_pop for each district = total state pop / num\_districts

num\_districts = 9

total\_pop = 6910840

6910840 / 9 = 767871

target\_pop = 767871

Bit more detail. I divided each county’s population by the target pop. If the remainder was over

70% of the target pop I rounded up, otherwise rounded down. (I based the 70% number off th

rough percentages from the examples in the assignment. Happy to adjust if needed)

For example, Shelby county had 1.2x the target population for a district.

Davidson county had 0.93 of the target pop.

Both got one district.

That leaves 93 counties and 7 districts to assign.

**tenessee\_data\_counties\_without\_a\_district.csv** - the remaining 93 counties that need to be

assigned to a district

**Tennessee\_county\_lat\_longs.csv -** the raw lat/long + other data from

<https://www.census.gov/geographies/reference-files/time-series/geo/gazetteer-files.2020.html#list-tab-264479560>

Manually deleted out all the non TN counties

**County\_lat\_longs\_without\_davidson\_or\_shelby.csv -** cleaned to just county names and lat longs (cleaning script is clean\_county\_lat\_longs.ipynb)

***Adjacency Data*** (pulled from https://www2.census.gov/geo/docs/reference/county\_adjacency.txt)

**Adjacency\_entire\_us.txt** - the whole list

**Adjacency\_tennessee\_only.txt** - just Tennessee

**Adjacency\_tennessee\_shelby\_davidson\_counties\_removed.txt** - just Tennessee minus Shelby and Davidson, assuming we give them their own districts

***Code files***

**pull\_population\_for\_tennessee\_counties.ipynb** - code to pull population and race data

assign\_districts\_to\_large\_counties.ipynb - code to assign districts. There ended up only

being two so we could have just done this manually

Also saved them as html so they’re easier to browse through without opening a notebook

**Clean\_county\_lat\_longs.ipynb -**  cleans the county lat long .txt to just a names and lat longs csv