

## SOC 4650/5650: Lab-15

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### Directions

Please complete all steps below. Your map should be uploaded to your GitHub assignment repository by 4:20pm on Tuesday, May 2<sup>nd</sup>, 2017. This lab uses data from /StLouis.

### Clean and Map Condemned Property Data

The condemnation data contains individual variables for house number (addrnum), street direction (stdir), street name (stname), and street type (sttype). These data will have to be combined to create a single address field.

1. Create a new geodatabase for this lab.
2. Add the file STL\_STRUCTURE\_Condemn.csv to your map document, and check to make sure the attribute table imports properly (each observation should be in its own row with variable names clearly labeled). If there are any issues with the table, save it as an Excel file and use that version of the table instead.
3. Save the table (Right click > Data > Export...) to your geodatabase.
4. Using the *feature class* version of the condemnation table, add a new field named address.
5. Using the Field Calculator..., combine the four address variables using this statement:

```
[addrnum] & " " & [stdir] & " " & [stname] & " " & [sttype]
```

This statement will concatenate the four variables, combining them into a single variable where data is separated with a single space. It is important that you put one space between the double quotes to achieve the desired effect. If your data looks like this - 123MainSt - you need to re-create the address variable and check the addition of spaces between each set of double quotes.

6. Geocode the condemned building data using the address geocoder that we built during the lecture. You should have a total of 30,885 matches, 327 ties, and 1,351 unmatched observations.

7. Check the attribute table for a variable named `status_1`, and query it for boarded up buildings. The query should look like this:

```
status_1 = 'B'
```

This will give you a map of all buildings that have been ordered boarded up by the City of St. Louis.

8. Export a .pdf image of your geocoded data.