

## *SOC 4650/5650: Lab-09 - The 1830 Census*

*Christopher Prener, Ph.D.*

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### *Directions*

Using data accessed from the `module-4-arcgis-online` repository, create the maps below related to the boundaries of St. Louis County Council Districts. Links to your Feature Layer and both maps should be added to an issue in your GitHub assignments repository by **Monday, April 5<sup>th</sup>** at 4:15pm. Make sure all three are shared publicly so that Chris can view them!

### *Analysis Development*

The goal of this section is to create the hosted Feature Layer in ArcGIS Online's content section needed to make both maps below. Please ensure **all** required elements are present. You will need the `.geojson` file included in the `data/lab-data/` subfolder in the `module-4-arcgis-online` repository. Once you have uploaded the `.geojson` file, fill out the metadata with a quick description as well as a note about the licensing restrictions (see the `module-4-arcgis-online` repository's `README.md` file).

### *Part 1: Mapping Missouri*

Using the hosted Feature Layer with the 1830 Census data, create a reference map where Missouri is in feature and there are two ground layers - other U.S. Territories and States in one layer and the contested Oregon Country (claimed by both Great Britain and the U.S.) in the other layer. All three should be based on the same Feature Layer, but symbolized differently. Use the filtering/subsetting tool to customize each of the three layers, and rename them appropriately.

### *Part 2: Mapping Population*

Using the hosted Feature Layer with the 1830 Census data, create a thematic choropleth map of 1830 Census population data (appropriately normalized) where there are two ground layers - other U.S.

Territories with no data in one layer and the contested Oregon Country (claimed by both Great Britain and the U.S.) in the other layer. All three should be based on the same Feature Layer, but symbolized differently. Use the filtering/subsetting tool to customize each of the three layers, and rename them appropriately.