Easy Demographics

Fall 2023

SCHOLARS' LAB

Drew Macqueen
GIS Specialist
dmacqueen@virginia.edu

Chris Gist
GIS Specialist
cgist@virginia.edu

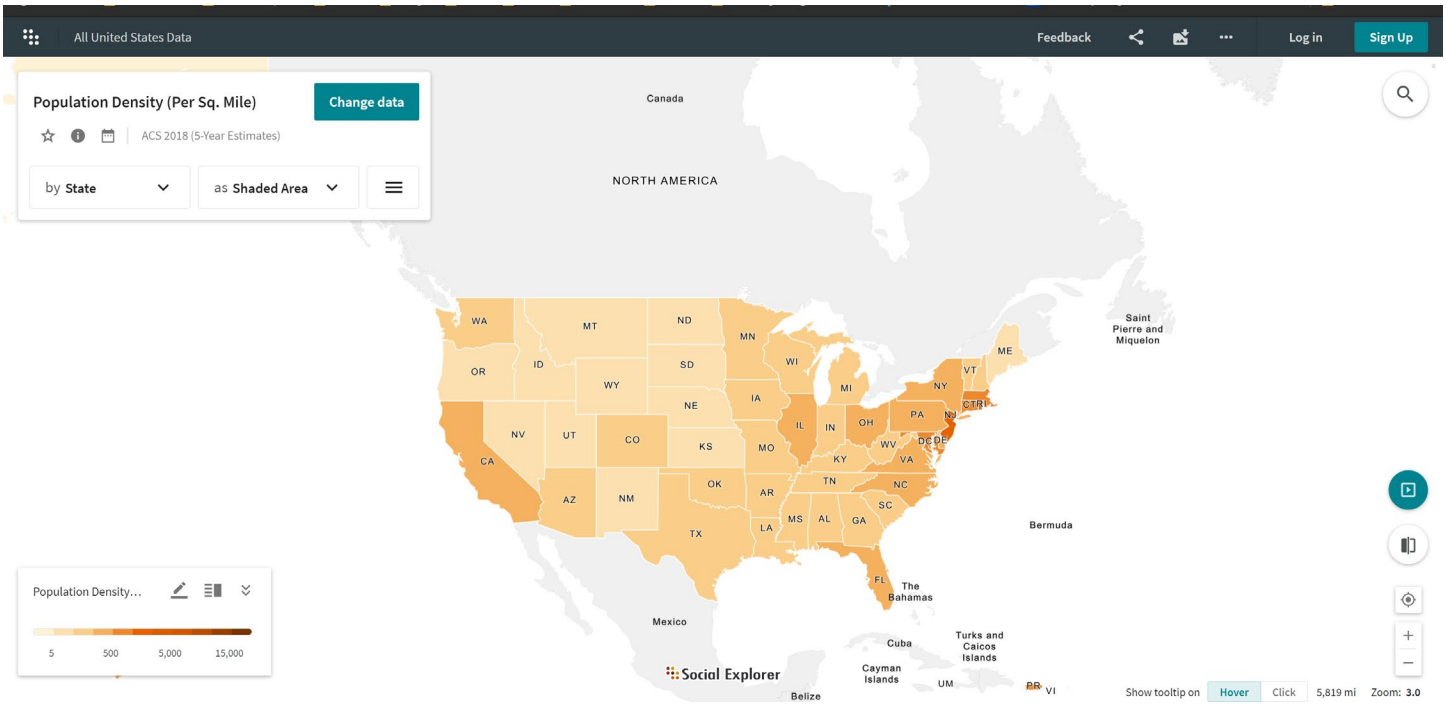
Scholars' Lab Fall 2023 GIS Workshops
https://guides.lib.virginia.edu/gis/teaching_resources

Social Explorer
http://www.socialexplorer.com/

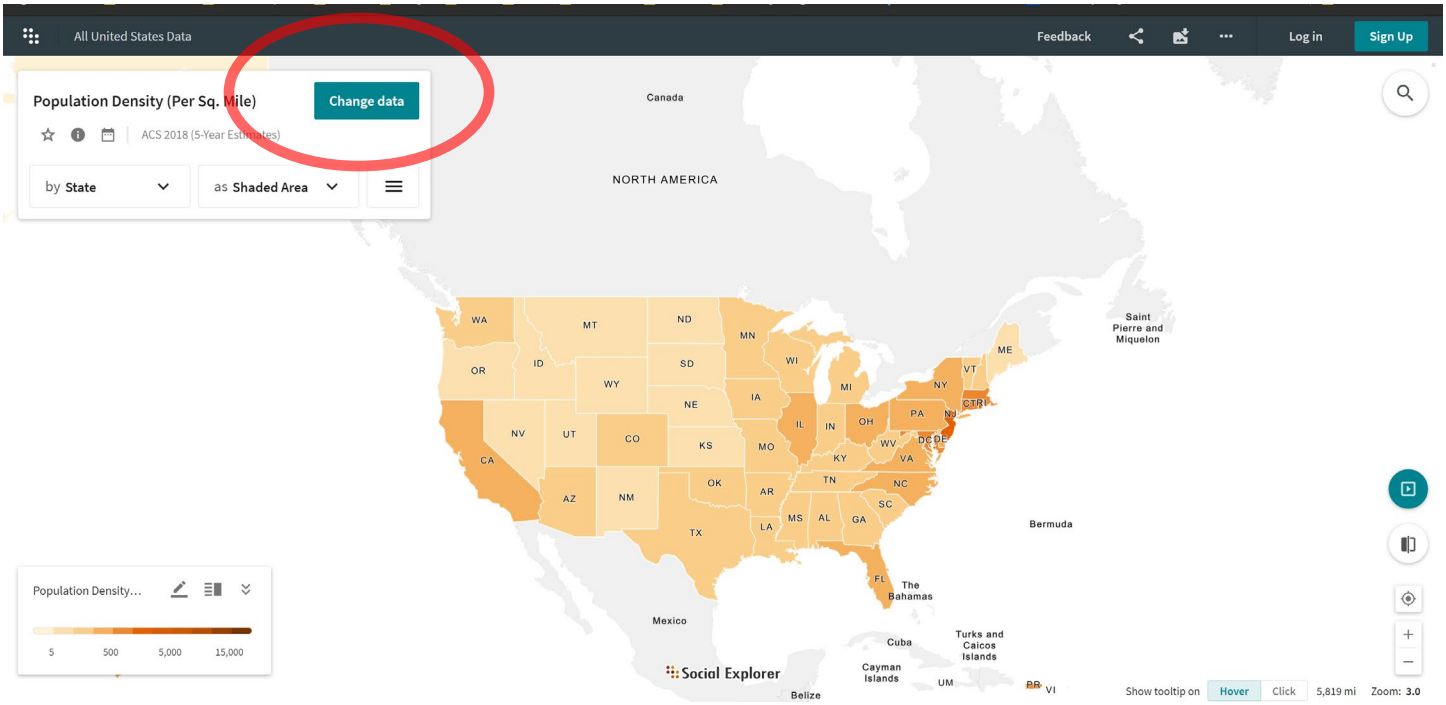
Social Explorer Help
http://www.socialexplorer.com/help

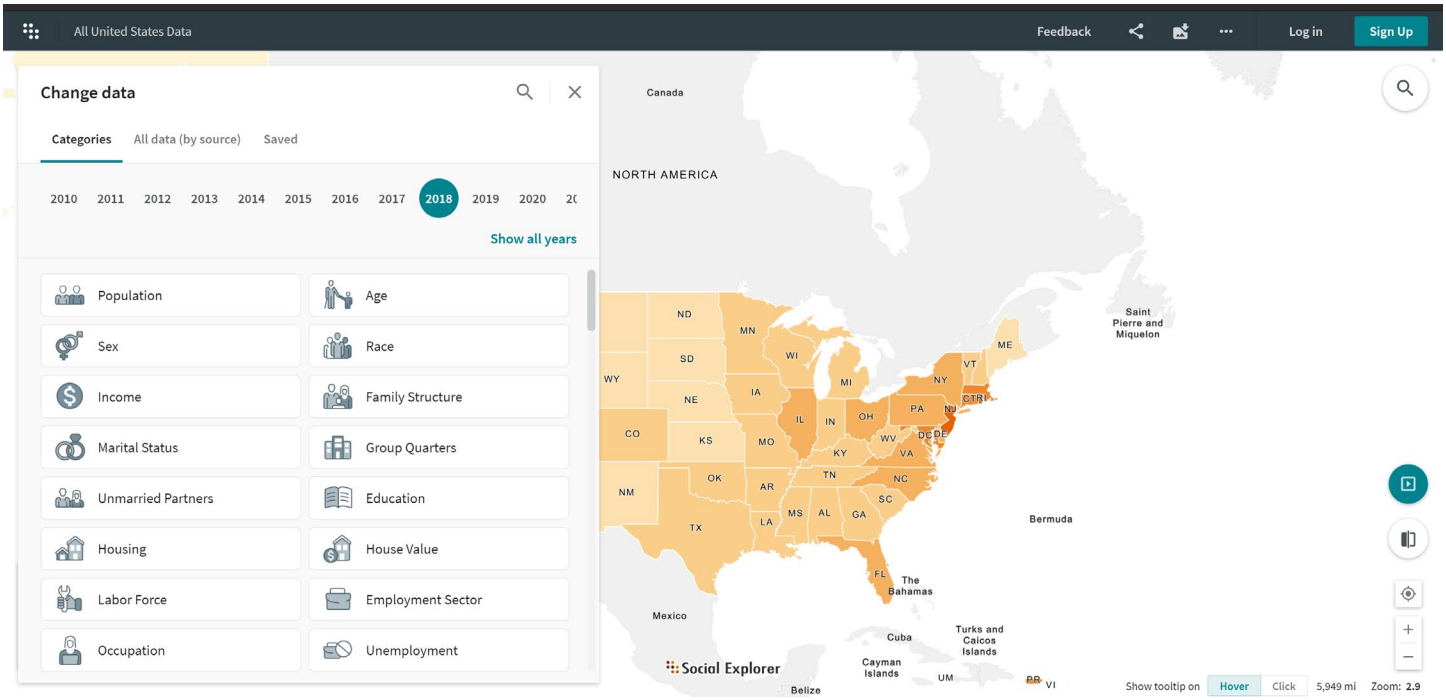
Making a Map

Click the **Explore** button.



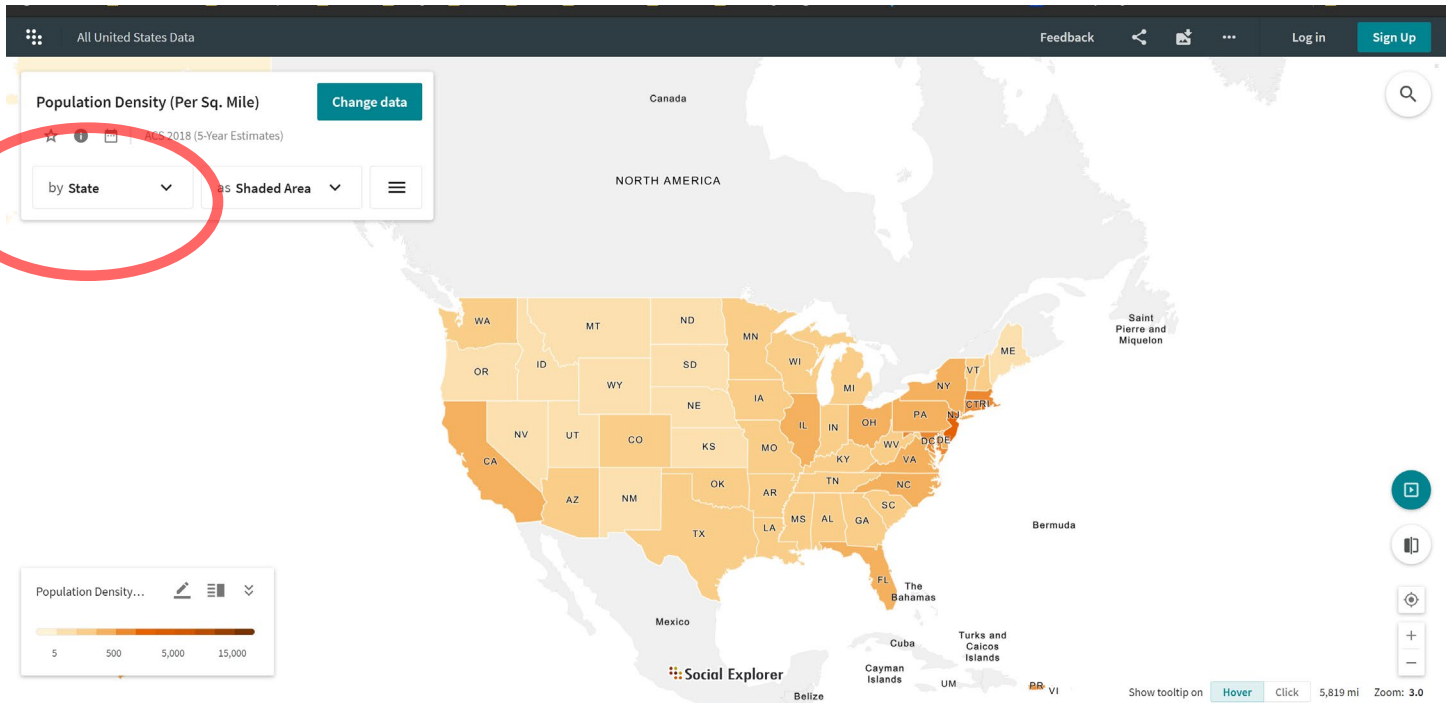
Change Indicator

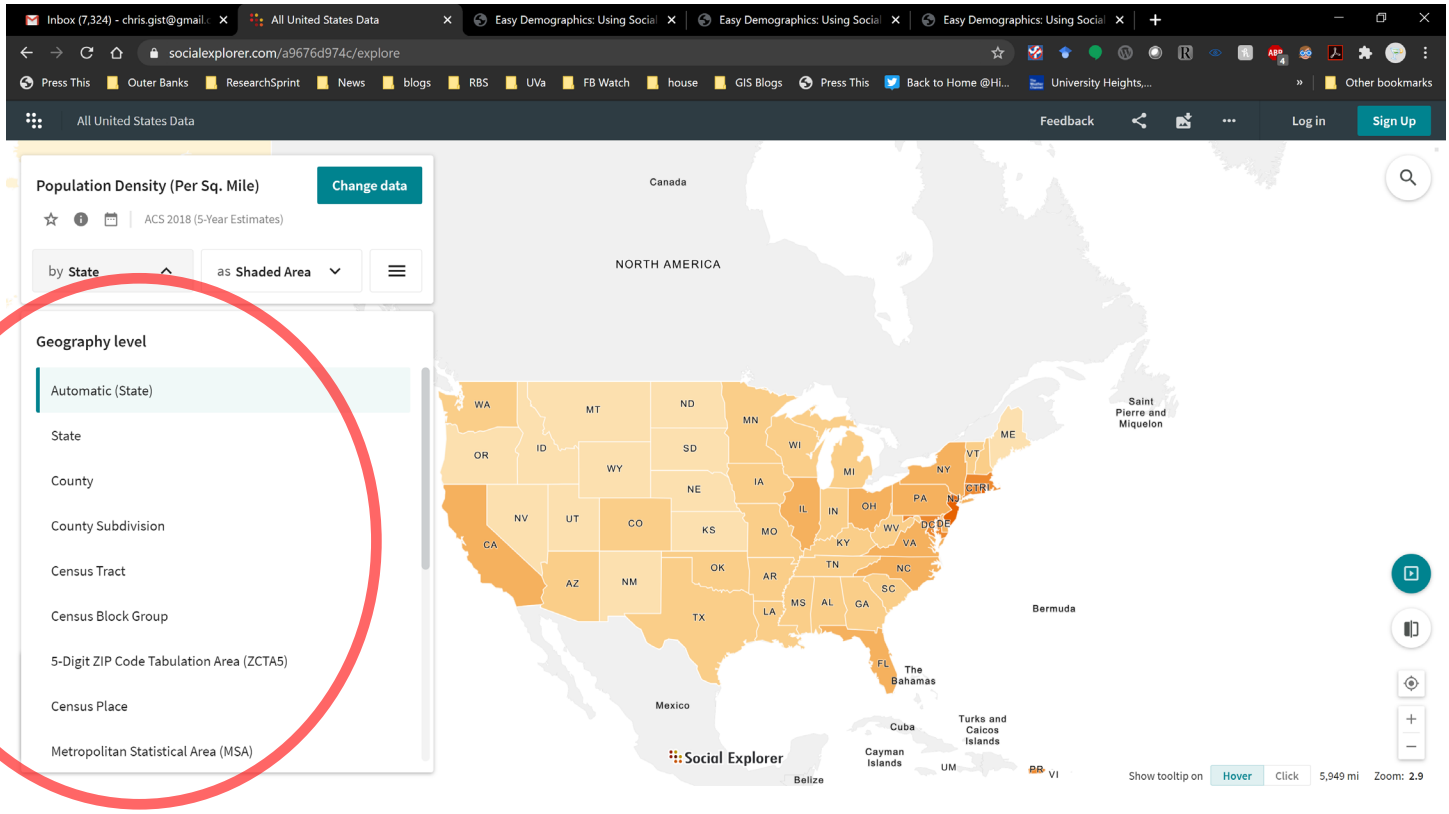




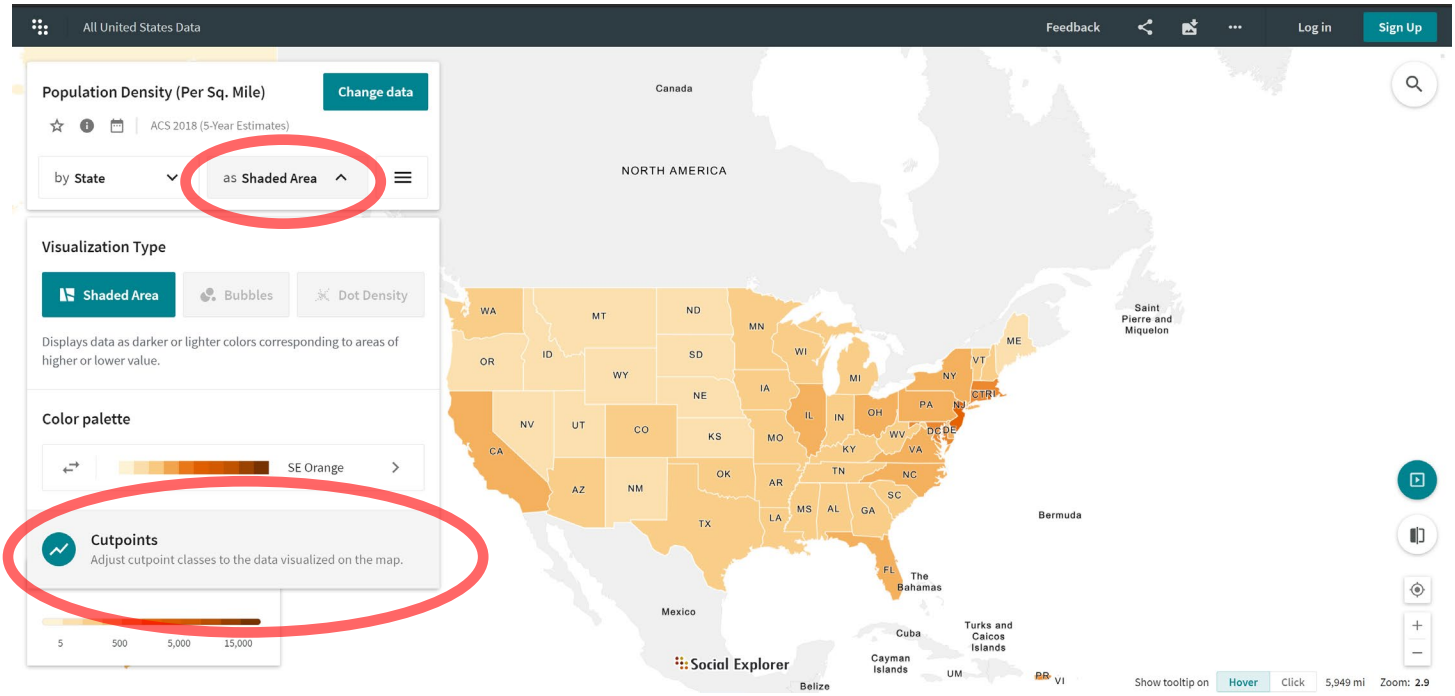
You can browse by category or by survey and use the slider to show available data for particular years.

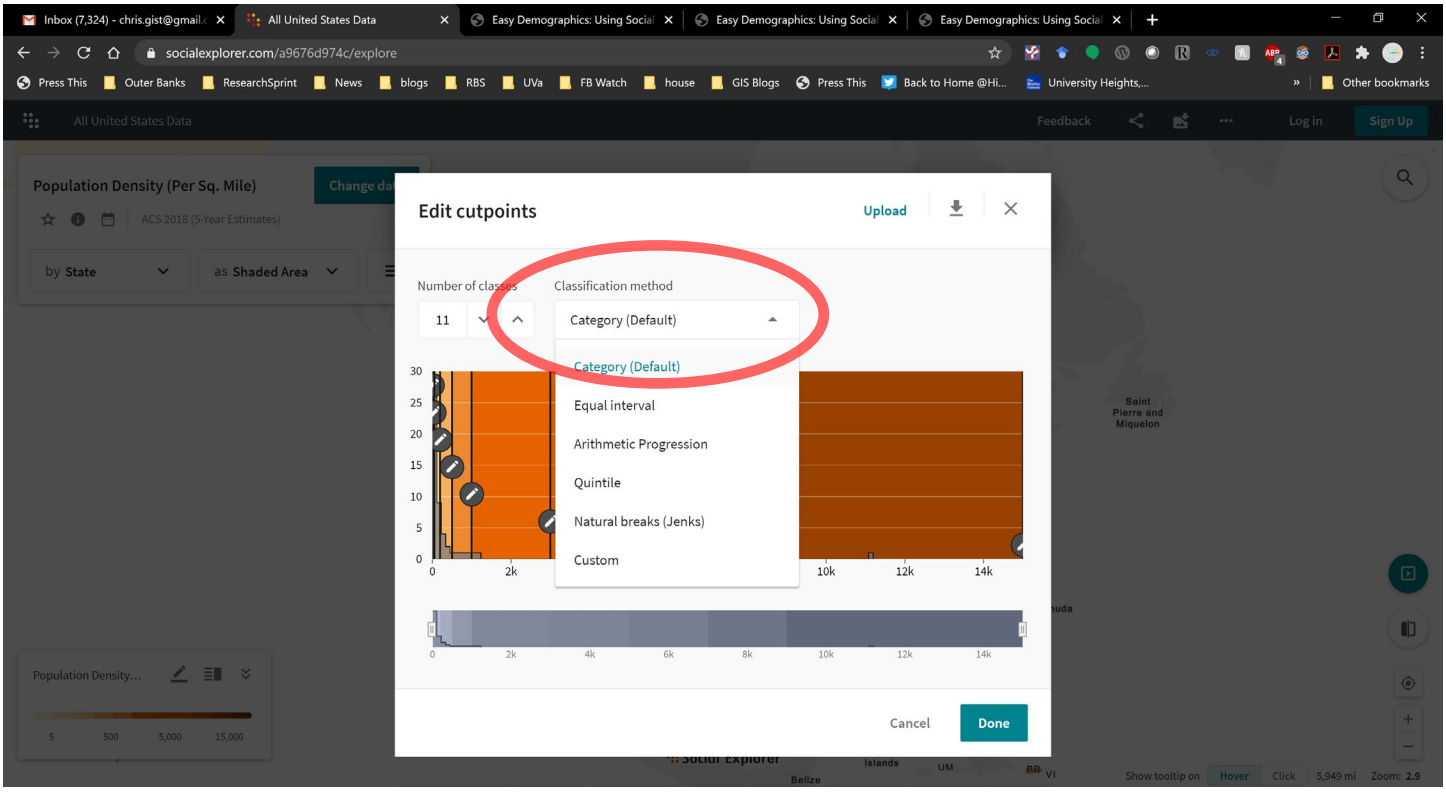
Change Geography



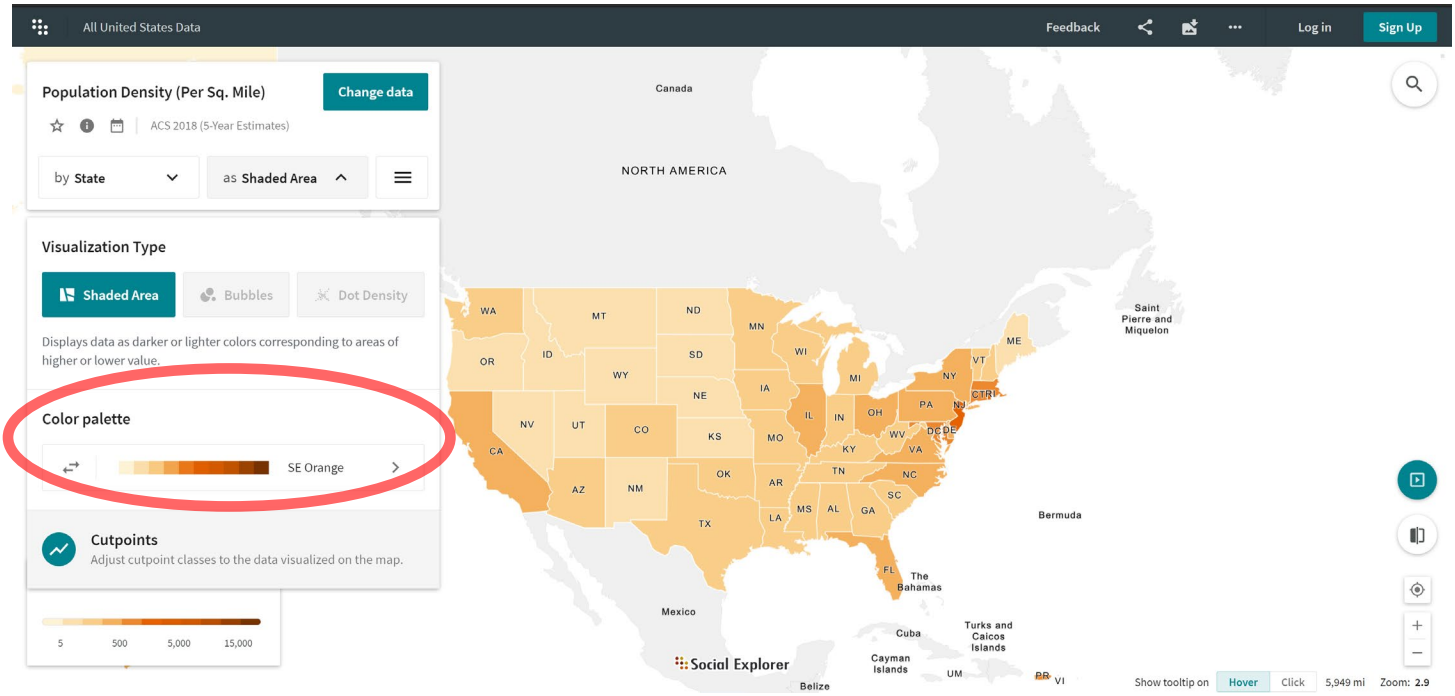


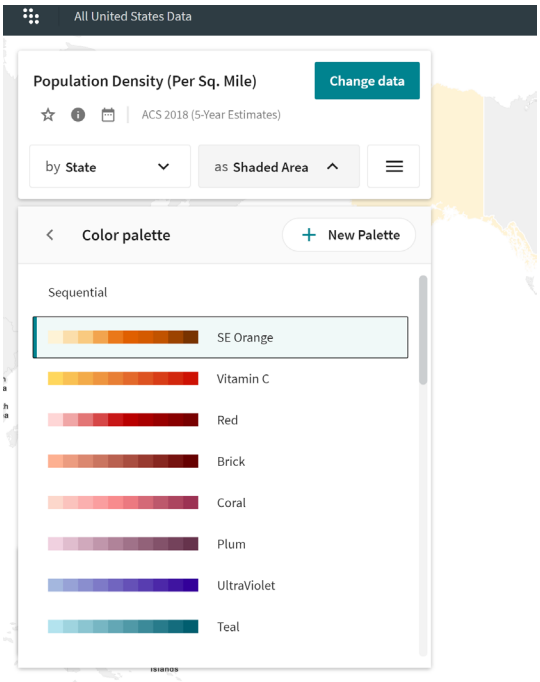
Change Category Bins (Cutpoints in SE)



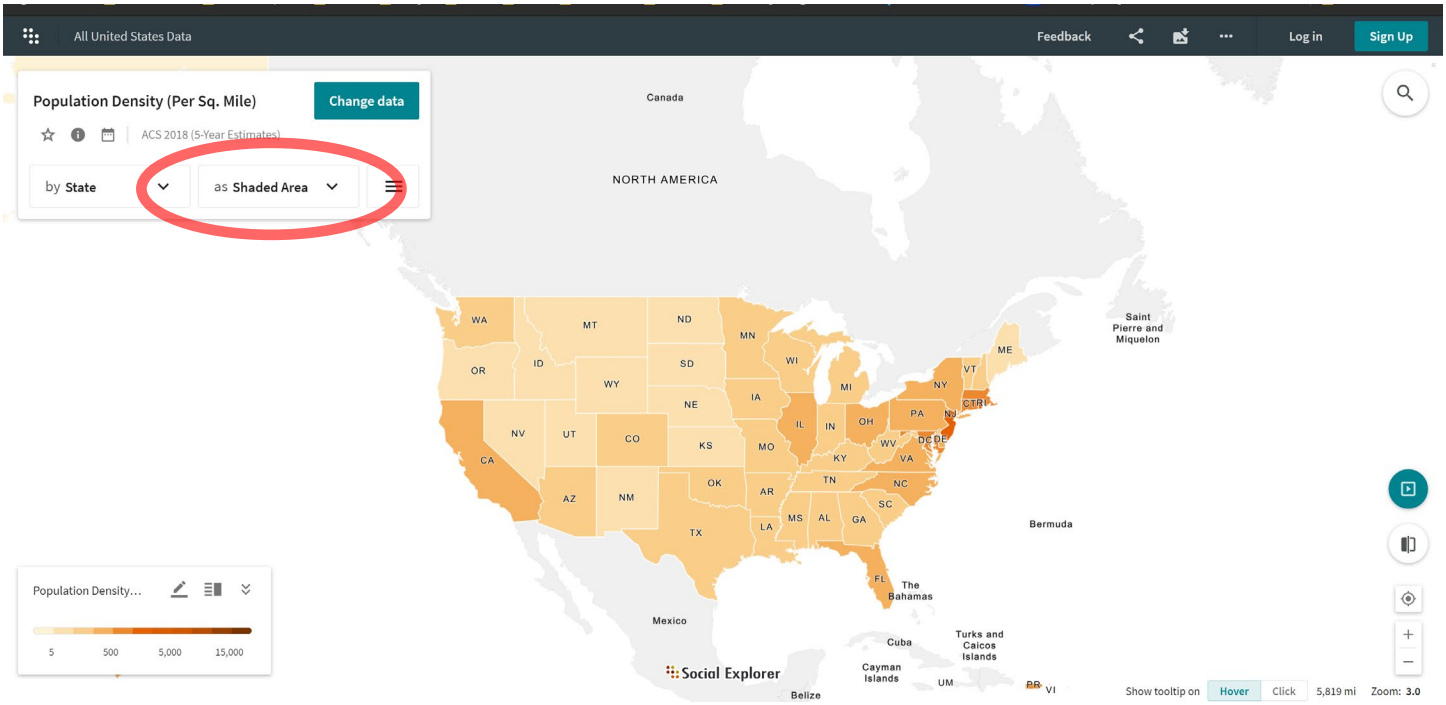


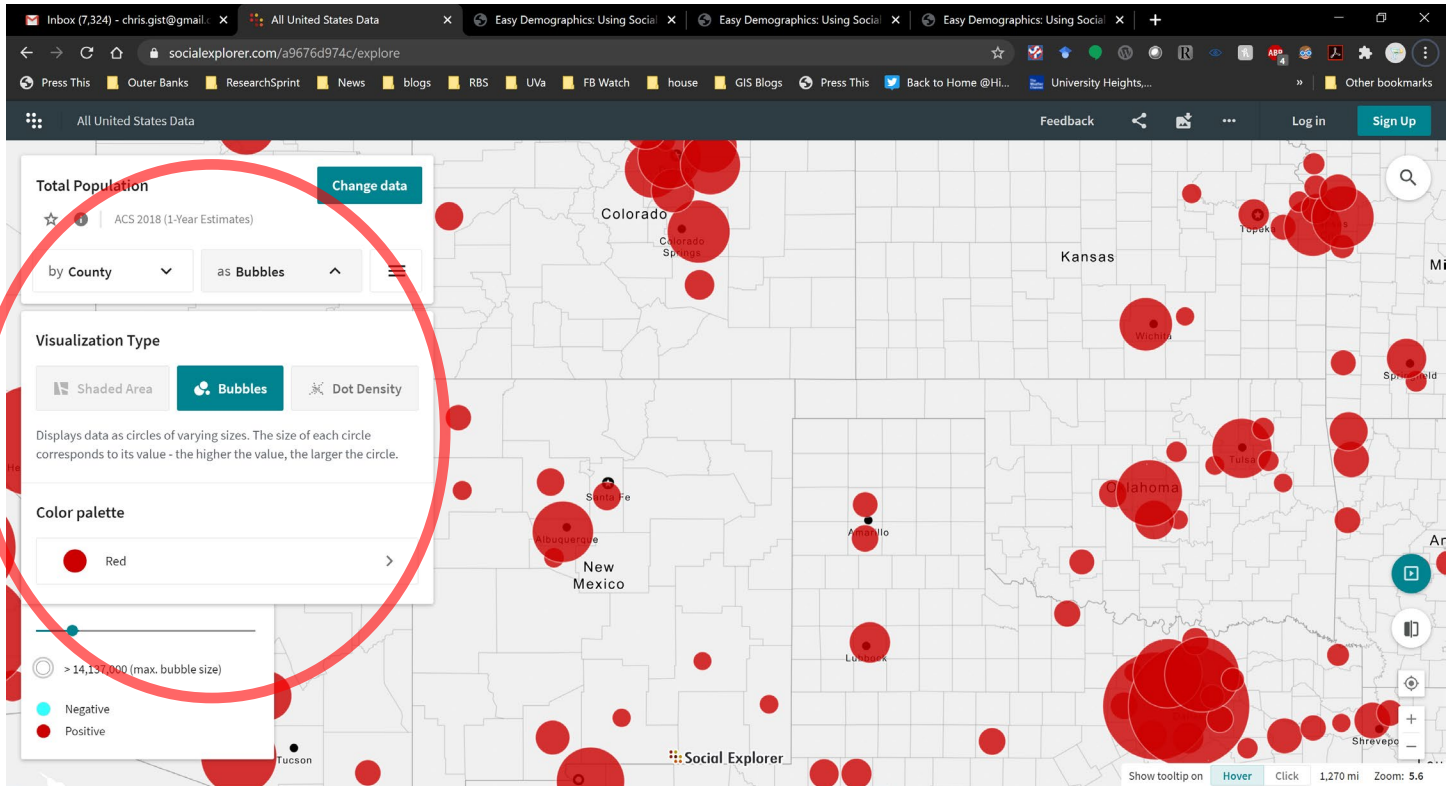
Change Color ramp



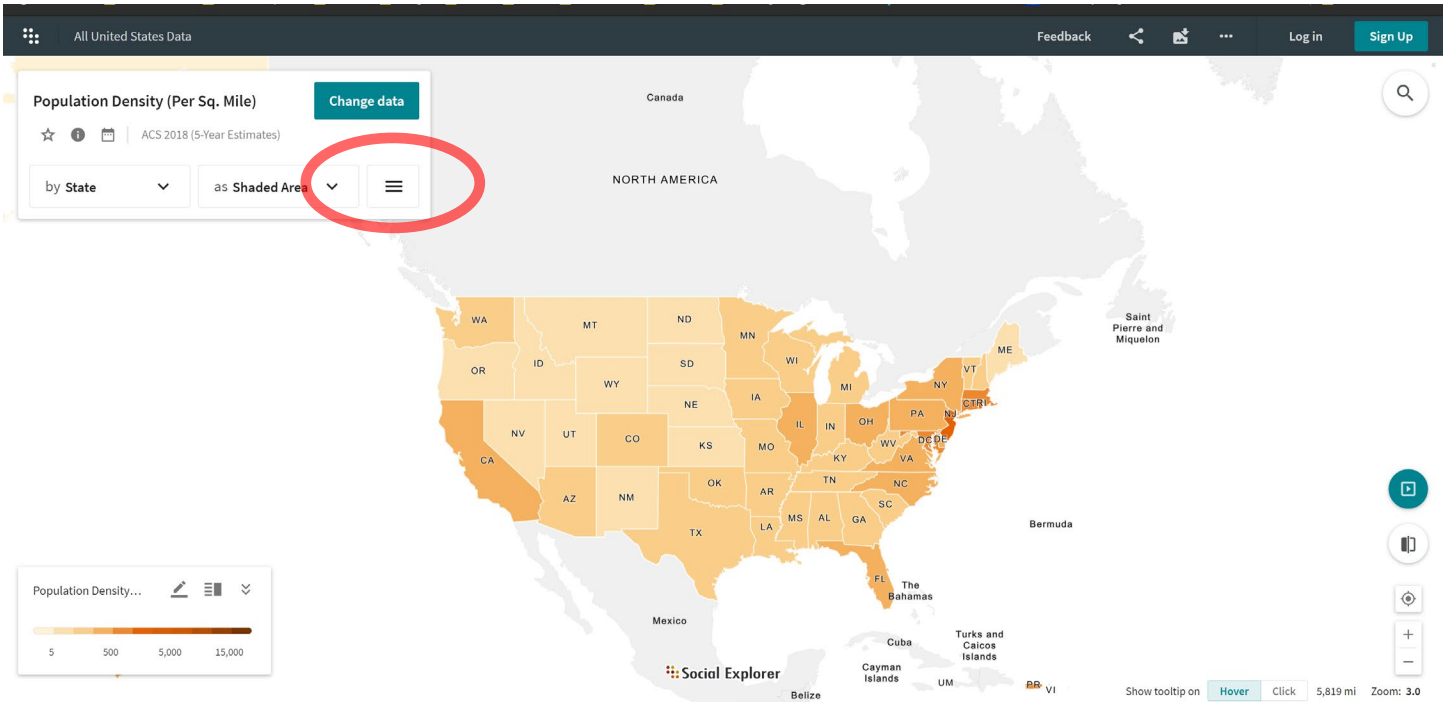


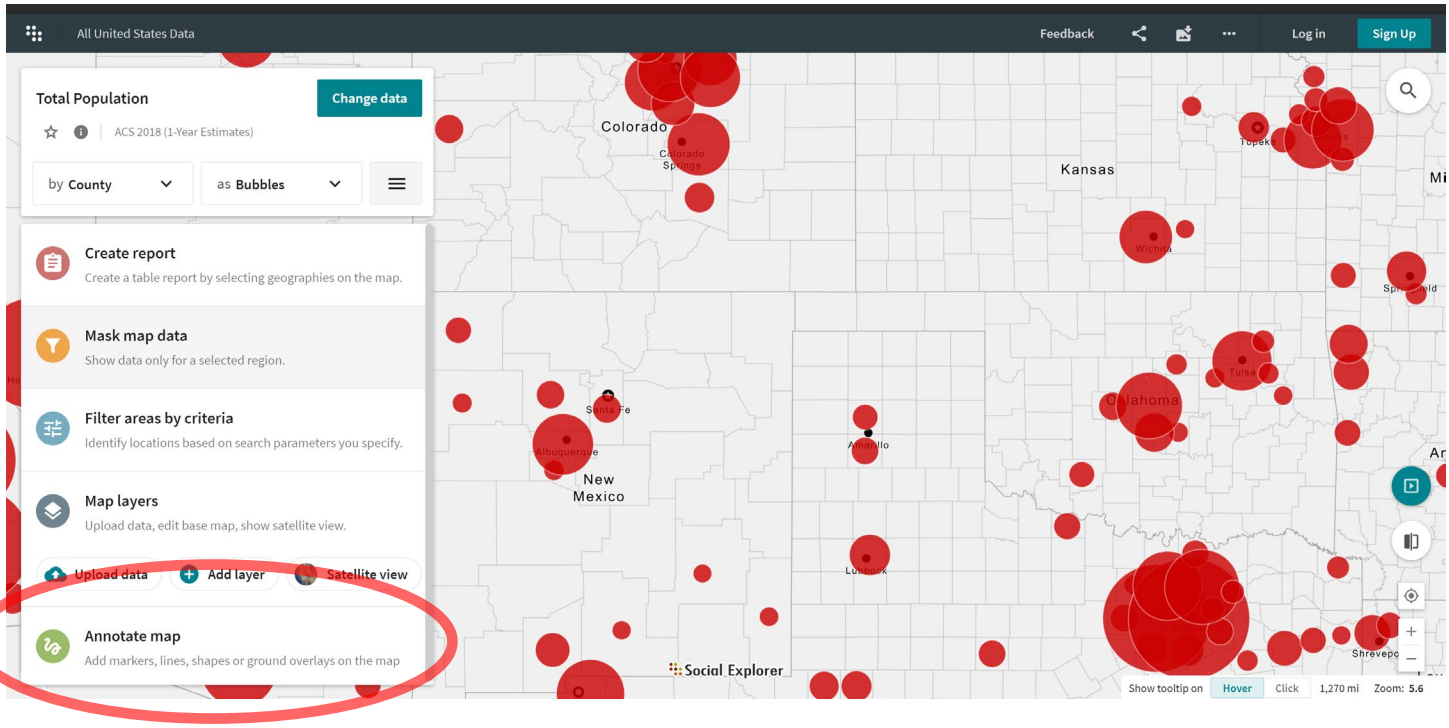
Change Symbology

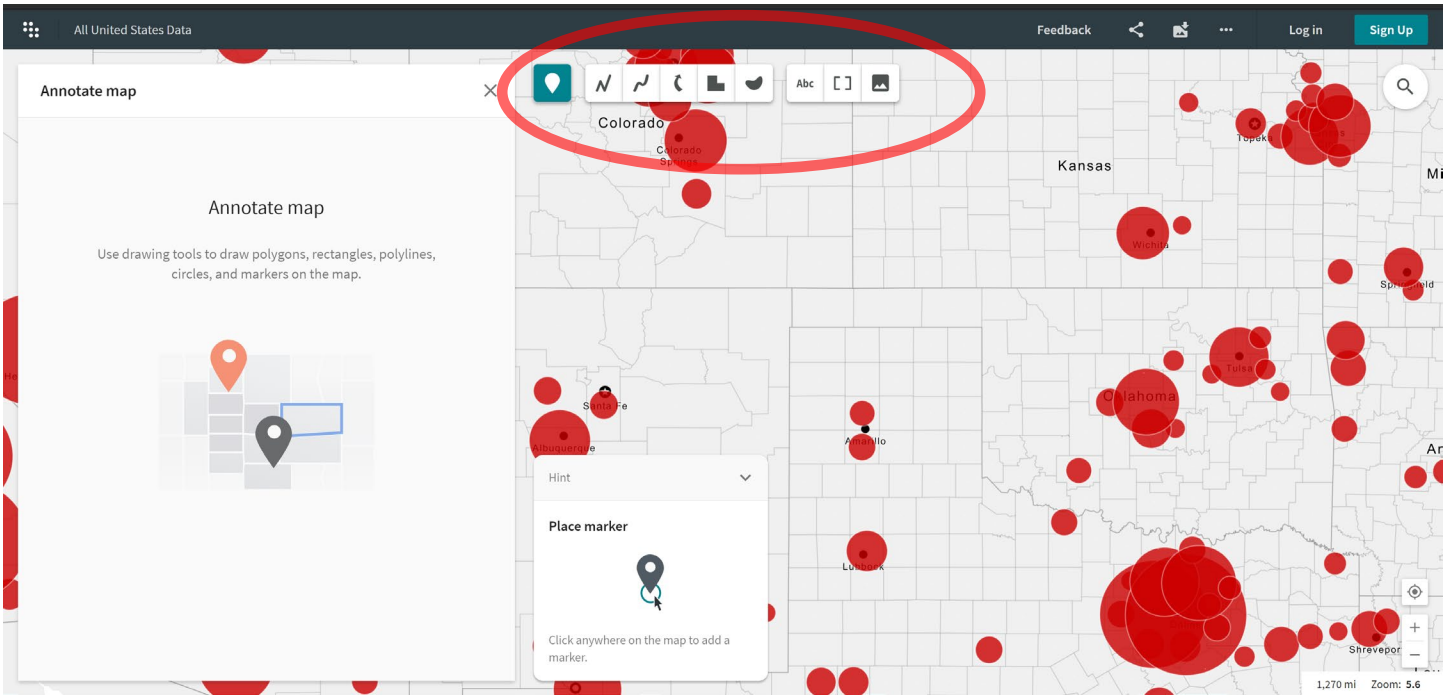




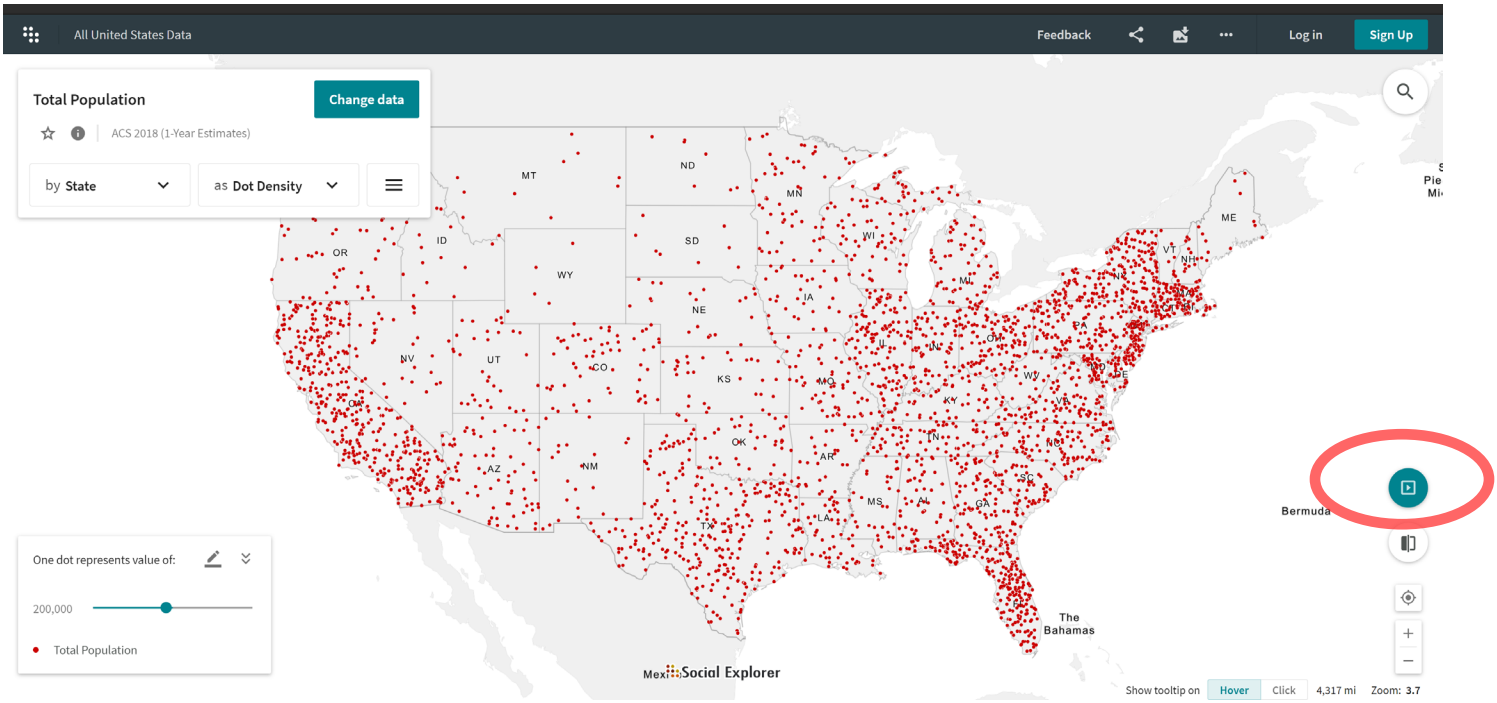
Annotate Map

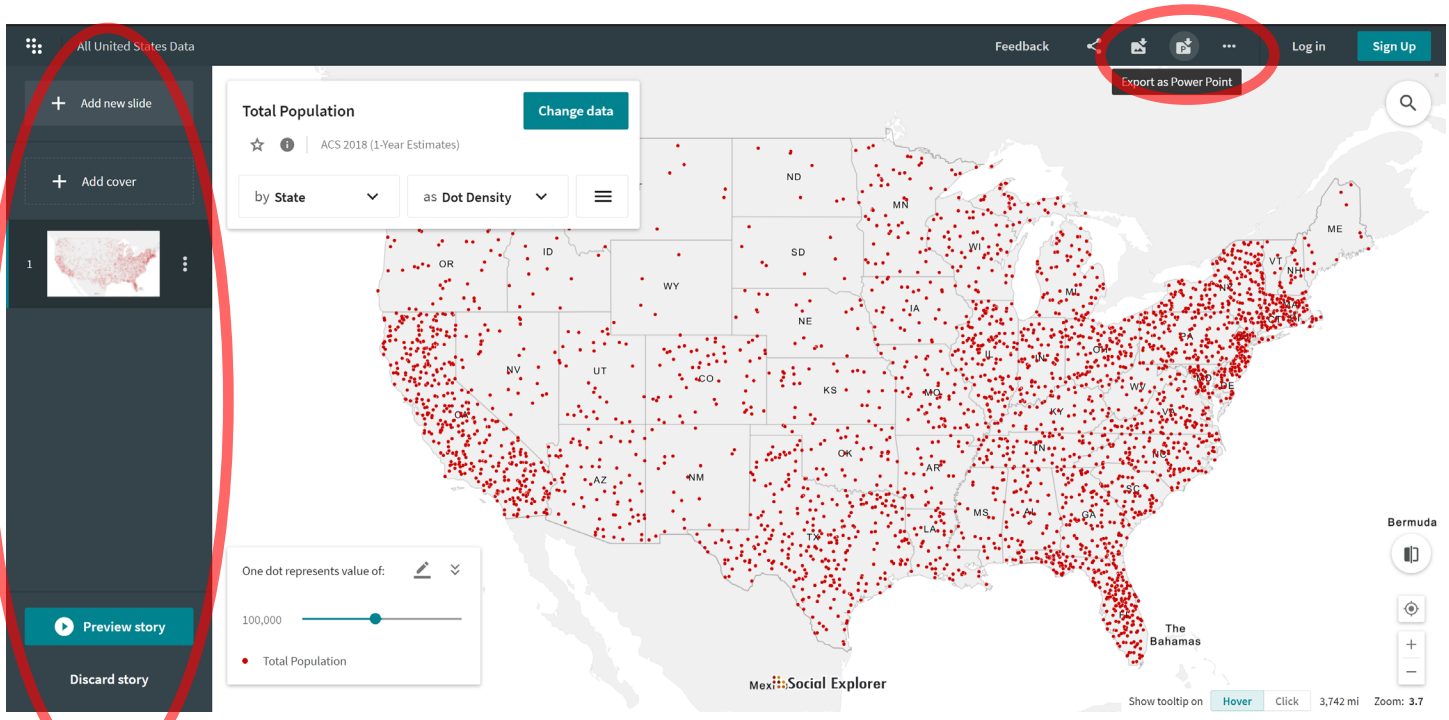




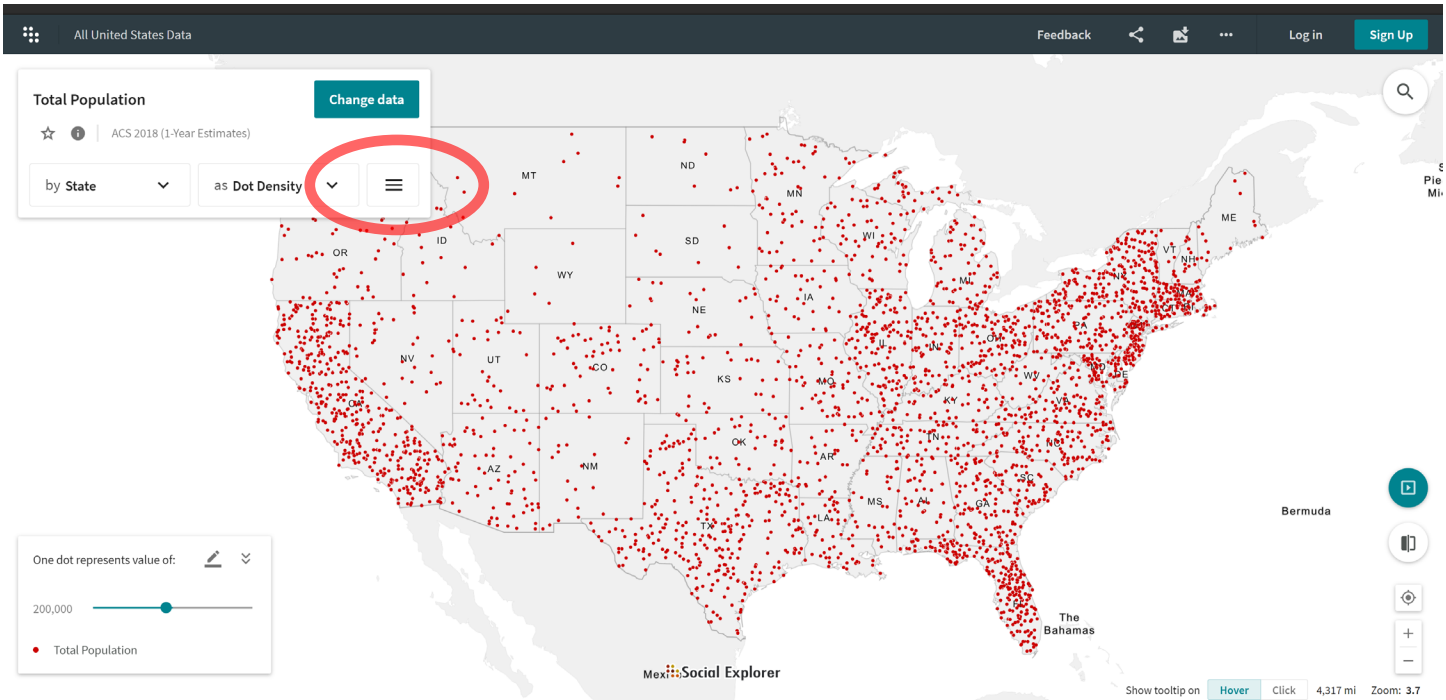


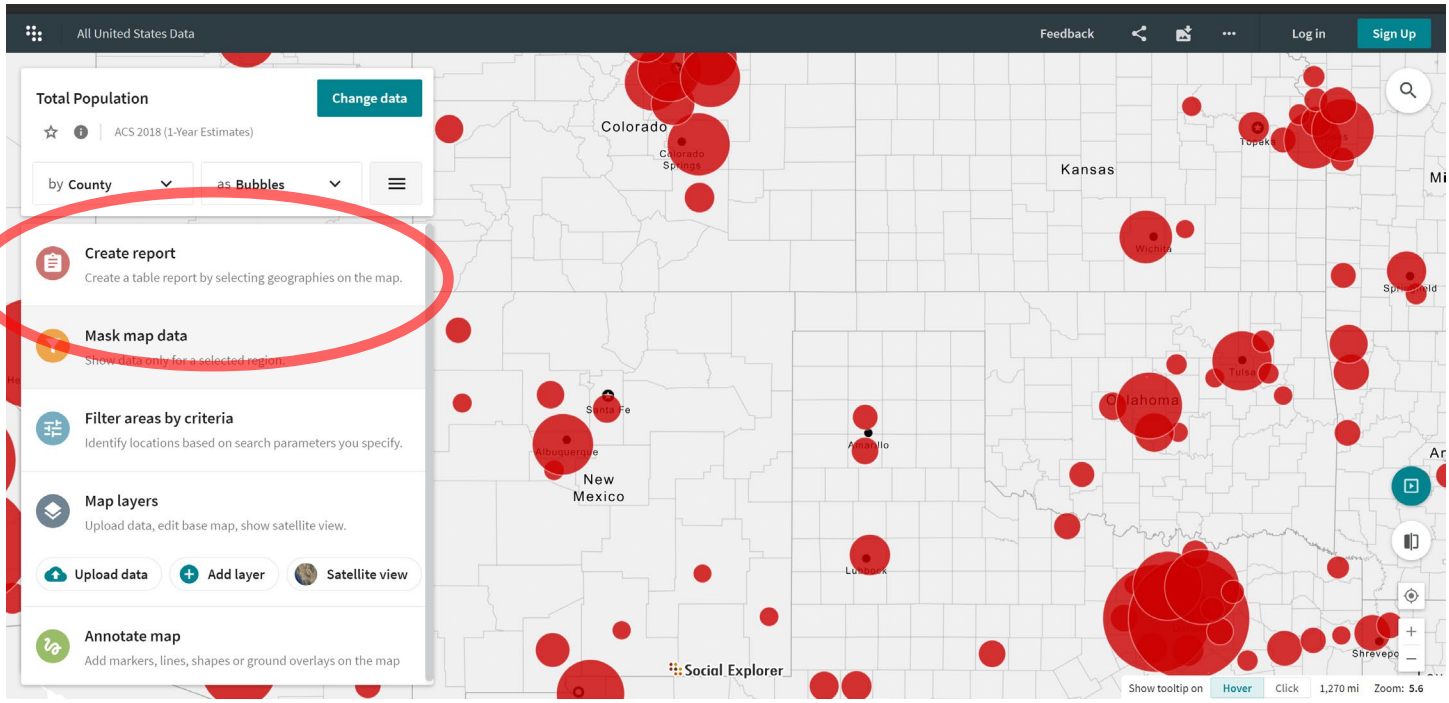
Snapshots and Powerpoint Export

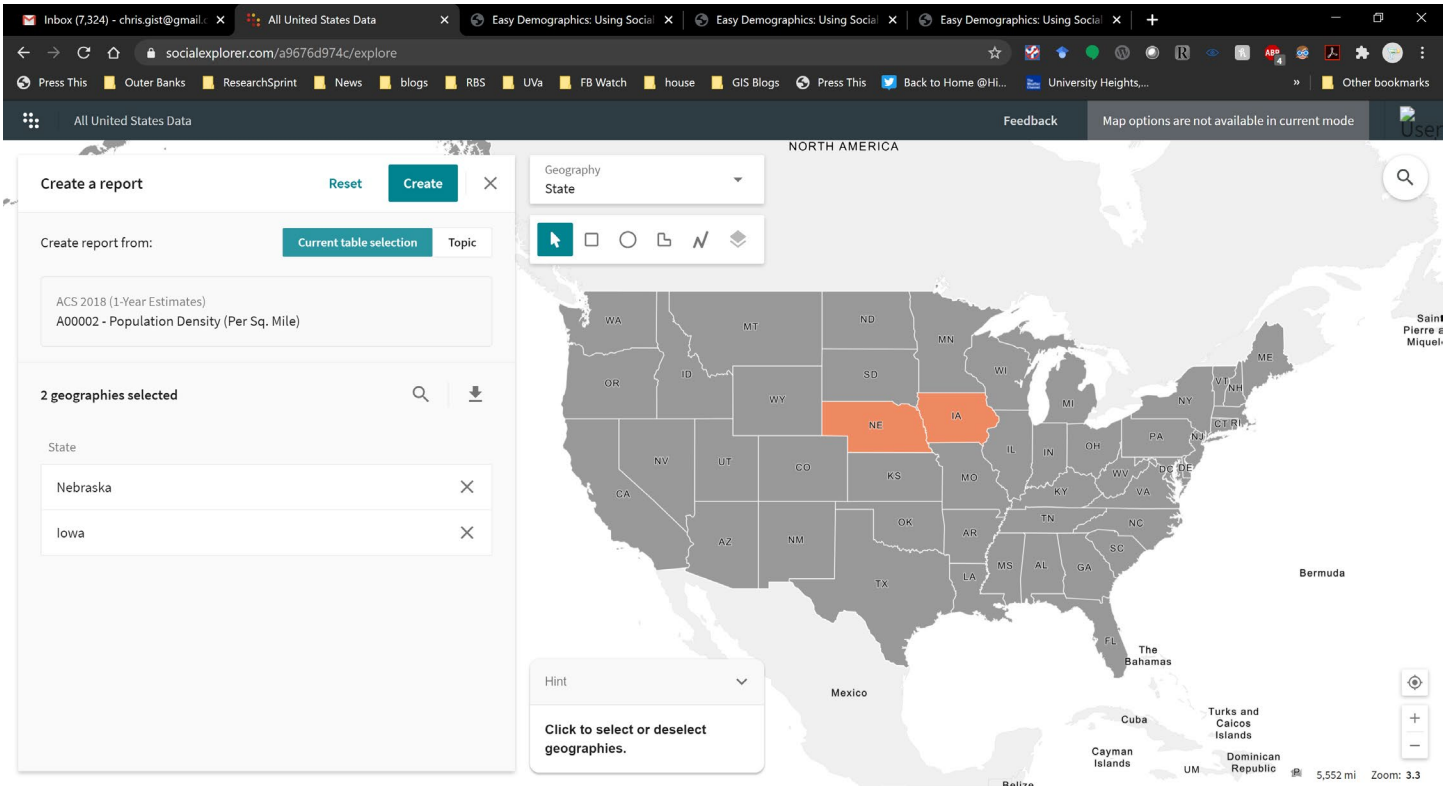




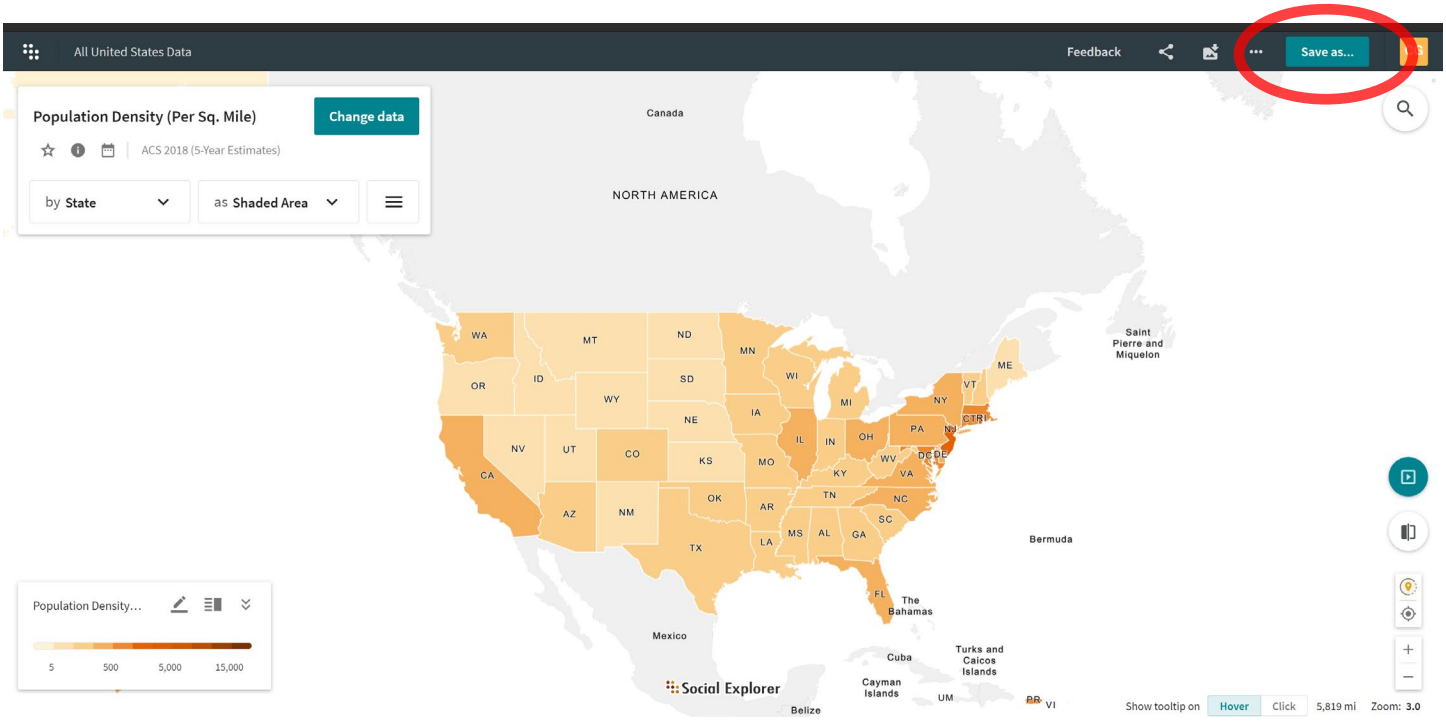
Make a Report




All United States Data
Feedback
Log in
Sign Up
Total Population
Change data
ACS 2018 (1-Year Estimates)
by County
as Bubbles
Create report
Create a table report by selecting geographies on the map.
Mask map data
Show data only for a selected region.
Filter areas by criteria
Identify locations based on search parameters you specify.
Map layers
Upload data, edit base map, show satellite view.
Upload data
Add layer
Satellite view
Annotate map
Add markers, lines, shapes or ground overlays on the map
Colorado
Kansas
New Mexico
Oklahoma
Social Explorer
Show tooltip on
Hover
Click
1,270 mi
Zoom: 5.6


socialexplorer.com/a9676d974c/explore
All United States Data
Feedback
Map options are not available in current mode
Create a report
Reset
Create
Create report from:
Current table selection
Topic
ACS 2018 (1-Year Estimates)
A00002 - Population Density (Per Sq. Mile)
2 geographies selected
State
Nebraska
Iowa
Geography
State
NORTH AMERICA
Hint
Click to select or deselect geographies.
Mexico
Cuba
Bermuda
The Bahamas
Cayman Islands
Turks and Caicos Islands
Dominican Republic
5,552 mi
Zoom: 3.3

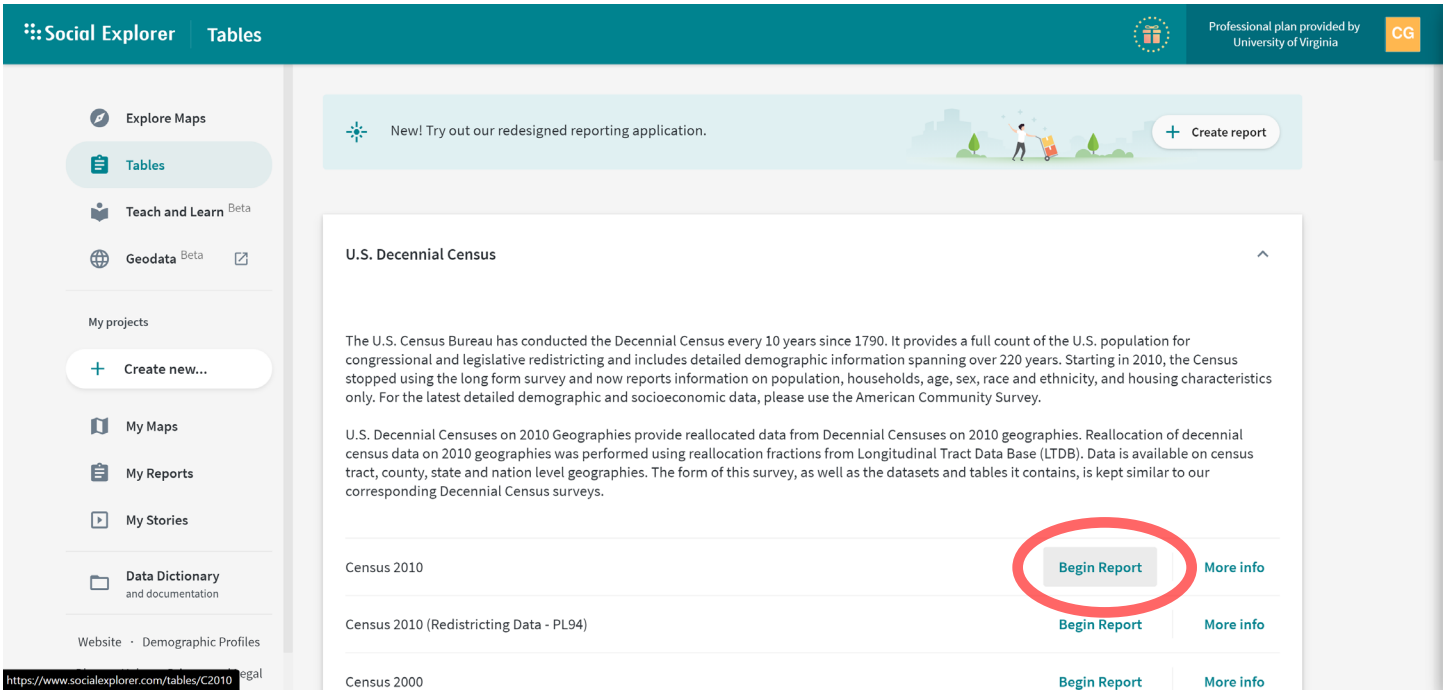
Save Project



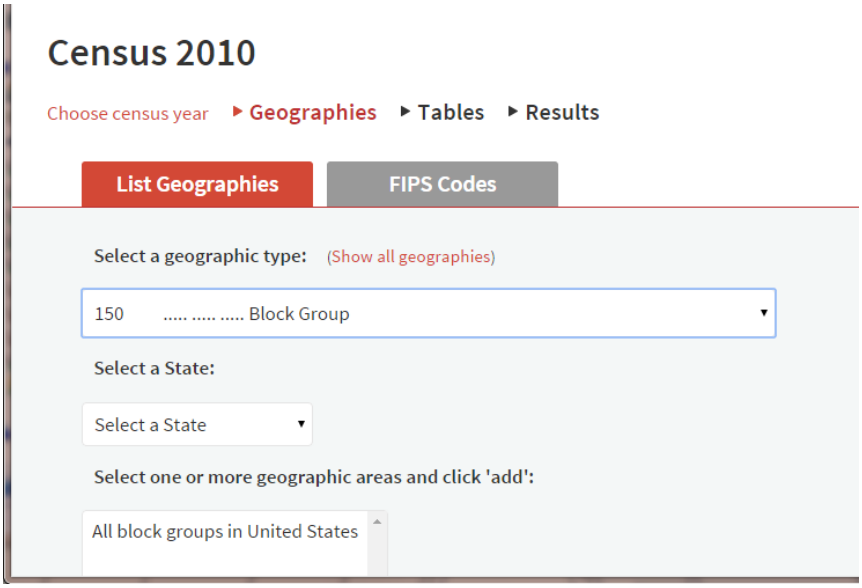
Must be logged on to save project.

Extract Tabular Data

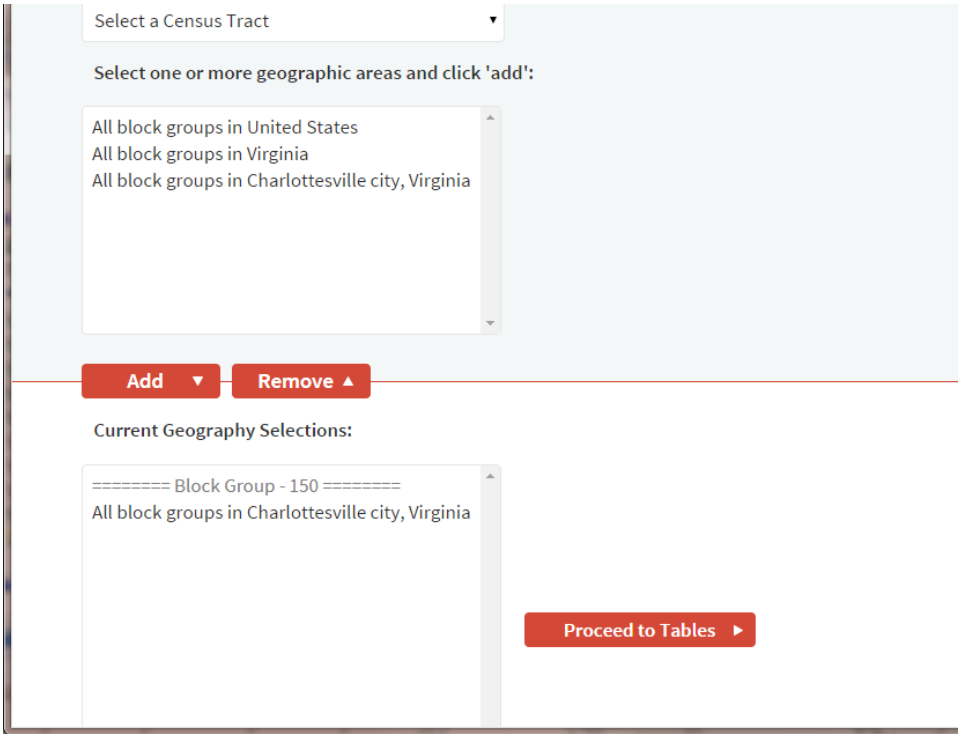
1. Click on **Tables** in the Social Explorer side panel.
2. Expand dataset of interest and select **Begin Report** link.



3. Select **Geography** (Use **Blockgroups** to tutorial continuance).

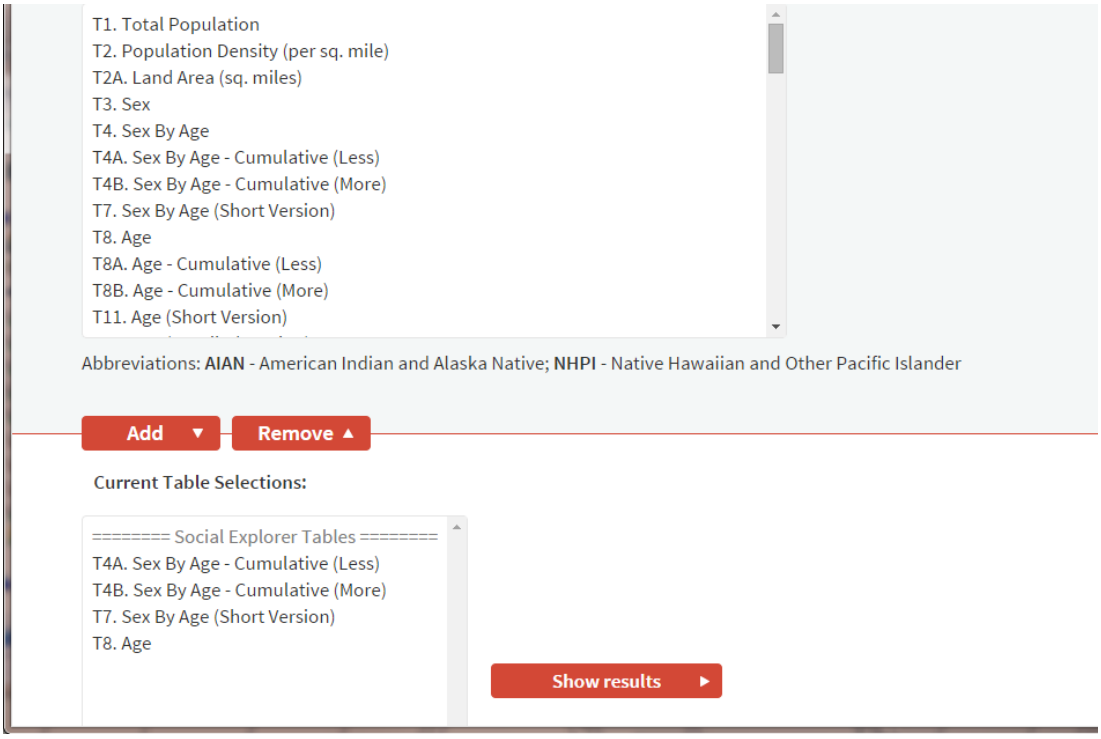


4. Select **State** (**Virginia**).
5. Select **County** (**Charlottesville City** – cities at bottom of list).

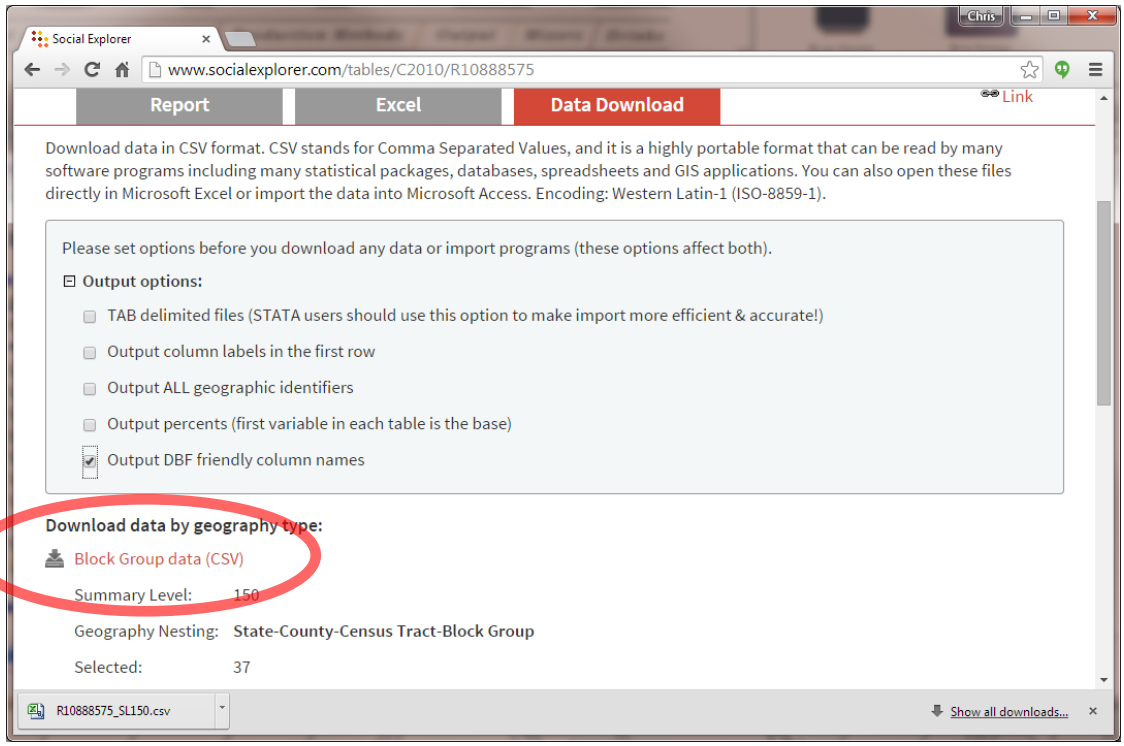


6. Select **All block groups for Charlottesville city, Virginia**.
7. Click the **Add** button to add your selection to **Current Geography Selections**.
8, Click **Proceed to Tables**.
9. Select attributes by highlighting and using the **Add** button..

10. Click the **Show results** button..



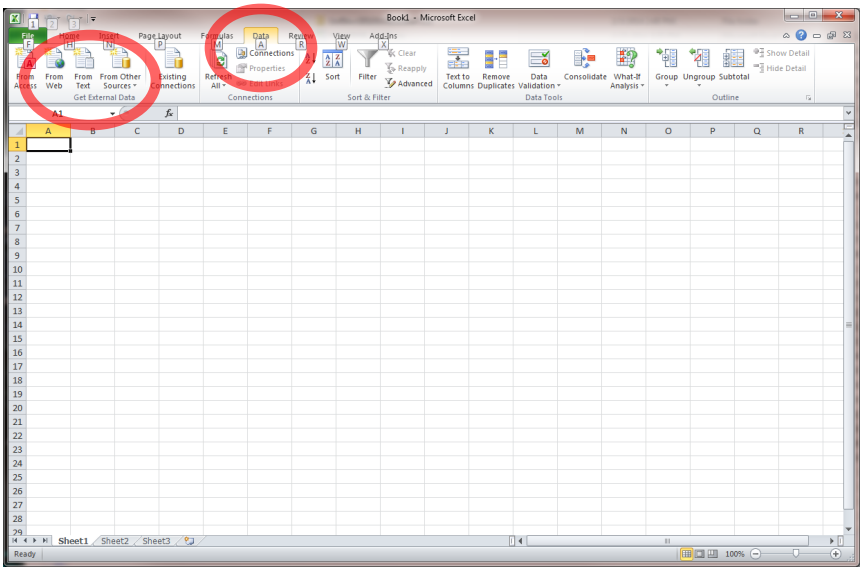
11. Click **Data Download**.
12. Check **Output DBF friendly column names**
14. Click link under **Download data by geography type** to download CSV.



Adding new tabular data to boundary shapefile

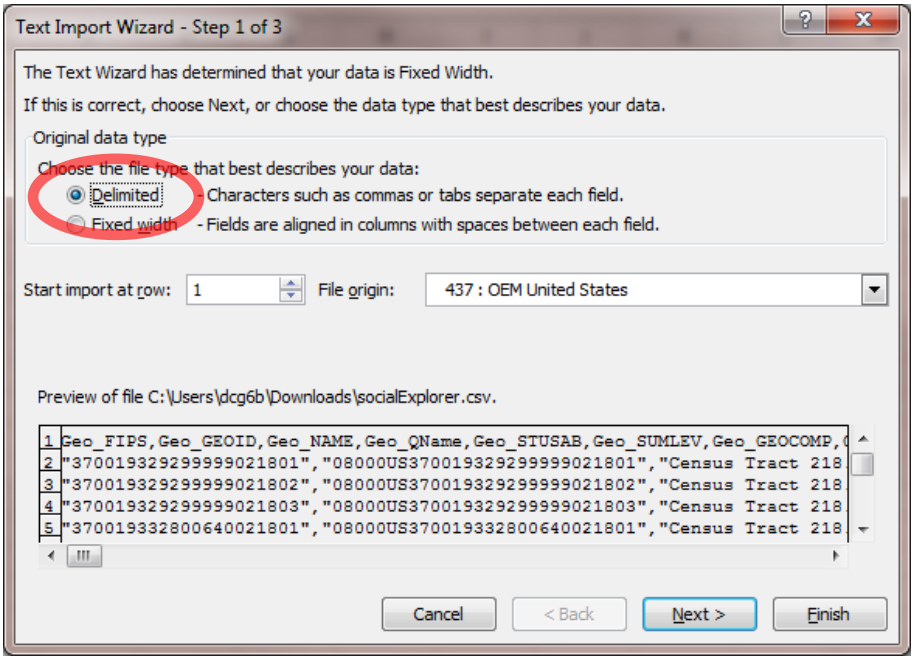
To join two tables, you need a unique key they have in common. With census data, that is usually the FIPS code. This data table has a slight issue with the formatting of the FIPS. Since these codes can have leading zeros, they must be stored as text in order to keep the leading characters intact. However if you just open the table from Social Explorer in a normal fashion in Excel, the FIPS codes are numbers and in scientific notation. Not good.

The following steps will guide you through the process of casting the FIPS codes correctly and joining to the boundary files.

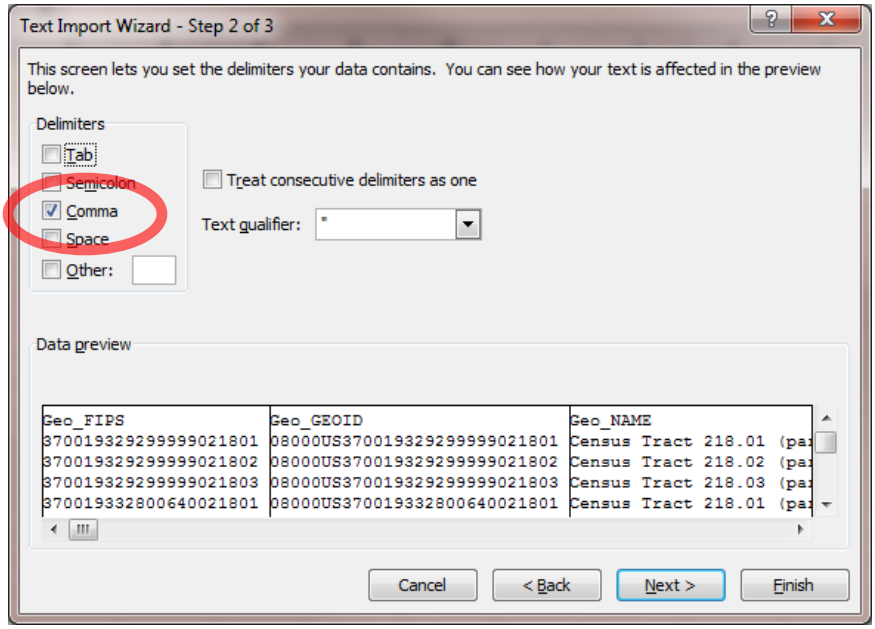


1. Open Excel.
2. Click the **Data** tab.
3. Click **From Text** button.

4. Open downloaded CSV file.
5. Selected **Delimited** for file type.

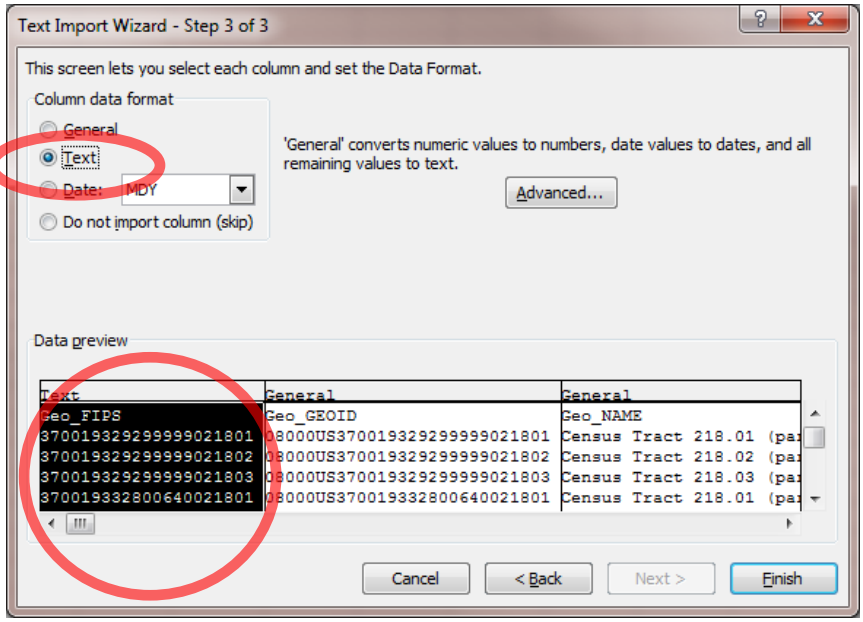


6. Click **Next**.
7. Select **Comma** for **Delimiters**.



8. Click **Next**.

9. Highlight the **Geo_FIP**S column and change the Column data format to **Text**.



10. Click **Finish**.
11. Save spreadsheet.