**Mapping with Geopandas**

The following tutorial explains the steps necessary in order to download Social Explorer data and use it within Geopandas.

For this tutorial, we will be downloading **Population** **Density** data by Harris County **CENSUS TRACTs** from the **Census 2010**.

## Step 1: Getting the data from Social Explorer

1. go to the social explorer [Reports](http://www.socialexplorer.com/pub/reportdata/home.aspx) page
2. click on the [Census 2010](http://old.socialexplorer.com/pub/reportdata/GeoSelection.aspx?Census=C2010)
3. for “select geography type” choose “census tract”
4. for “state” choose Texas
5. for “county” choose Harris
6. highlight “all census tracts in Harris County” and click the “add” button
7. click “next”
8. click on the “search” tab and enter “Population Density”
9. highlight “T2 Population Density” and click “add”
10. click on “show results”
11. click on the “Data Download” tab
12. uncheck “output labels on 2nd line” (IMPORTANT)
13. click on the “Census Data (CSV)” and save the file

## Step 2: Getting the matching boundary data

Tiger shapefiles

<https://catalog.data.gov/dataset/tiger-line-shapefile-2013-county-harris-county-tx-current-all-lines-shapefile>

## Step 3: Mapping the data in Geopandas