

ASSIGNMENT 7

Purpose

This assignment uses the skills and techniques learned so far to create meaningful table associations through relates and/or joins.

Data

This assignment uses census datasets. The data is at:

~\Shared\HomeAssignments\assign_data\assign7, where you will find the following files:

- Census dataset as a shapefile [**cenblk.shp**, **cenblk.dbf**, **cenblk.shx**, **cenblk.prj**]
- Census accompanying table in dbf format [**sf3.dbf**]
- Metadata for both above files [**cenblk.html**]

Preparatory work

- Load census dataset into a new ArcMap project. Zoom to Alachua County.
- Rename the layer and use a single symbol legend.
- Go under File>Map Document Properties and check button 'Store Relative Pathnames'
 - Save the project.
- Add the **sf3.dbf** table just as you would add any dataset. Highlight **sf3** in the table of content and click on 'Open' in the context menu. Make sure you find item **P022002** is in the table. Then go into its metadata to understand what **P022002** represents.
- The metadata, is the file [**cenblk.html**] in the **assign7** folder, which you can open from Windows Explorer as any html file. After you open the file, scroll down to the [**sf3.dbf**] table section and look up the descriptions listed for its Fields (P022002 is one of them).

Main Task

Once you have become familiar with both datasets (the census shapefile and the sf3 table), your task is to create a map of the block level distribution of the *Households with one or more people 60 years or older*.

- The information that will be conveyed by the map is stored in the item **P022002** of the table **sf3.dbf**.
- So you will need to associate **sf3.dbf** with the census shapefile (**cenblk.shp**). The common fields in these two tables are: **BLOCK2000** for table 'cenblk.dbf' and **BLOCK** for table 'sf3.dbf'.
- Either in ArcMap or ArcCatalog, check if these fields have the same definitions.
- Then, based on your exploration of the metadata and of the tables, decide the cardinality type of these two tables.

- Based on cardinality type, either Join or Relate the two tables: **cenblk.dbf** and **sf3.dbf** on their common fields.
- Bring up **cenblk** layer with associated table results in ArcMap to create the required map. For the Legend go under: Properties>Symbology>Quantities>Graduated colors> scroll down in Fields/Value and find the Field **P022002**. Click Apply.
- You can experiment with different number of classes in the symbology to see how that changes the map.
- Save as layer file (*.lyr).
- Be prepared to explain what you did and why, and submit a pdf document explaining what you did.

Home assignments always due a week later.