

# **GEOG 432/832: Programming, Scripting, and Automation for GIS**

## **Week 11.02: Mapping with choropleths**

**Dr. Bitterman**

# Today's schedule

- Open discussion
- Slides, discussion and exercises
- For next class

# Open discussion

# Today's prep:

- New libraries (add them to your environment):
  - `mapclassify`
  - `pysal`
  - `libpysal`
- Download unit10\_02inclass.ipynb from GitHub page (in-class notebooks directory)

# Today will be a bit different... how?

- We're going to use datasets built into the libpysal package
- I'm going to share with you an .ipynb file
- Why? Because I want to replicate the experience of how we "feel around" to accomplish a new task

# Today's goal: make some choropleth maps

- What's a choropleth map?
- What are its characteristics?
- What are some limitations of choropleth mapping?

**What does choropleth mapping require we do to our data?**

# Classification methods

What are they?

TO THE WHITEBOARD!!!!



# Interactive look at the Jupyter notebook

## On your own:

- Choose a different variable
- Choose a different color scheme (where to look?)
- Play around... ESDA

## For next class

- Lab 5 starts Friday
- Readings are linked/posted on Canvas