Before the Lab

• Software version: ArcGIS 10
• Lab materials:
  – The scanned version of the old lab manual (9.3) can be downloaded from Gauchospace
  – The updates of the new screenshots can also be downloaded from Gauchospace
  – Lab data as well as the answer templates are on the Gauchospace
Lab 1
An introduction to ArcGIS Desktop, OpenGeoda, and Google Earth

Yingjie Hu
Objectives

• Get familiar with the three GIS applications
• Learn how to create a basic map
ArcGIS 10

Legend

Map Viewer

Toolbars
ArcGIS 10: Adding data
ArcGIS 10: Attribute table
ArcGIS 10: Render a Map
ArcGIS 10: Select records
ArcGIS 10: Output Map

- Title (2)
- Legend (2)
- Scale Bar (2)
- North Arrow (2)
- Neatline (2)
- Data Source and Geographic Coordinate System text (2)
- Name and Date (1)
- Color ramp is one color that ranges from light to dark (1)
- Thousands comma separators visible in the legend (1)
OpenGeoDa

- Powerful geo-statistics tool
Google earth

• A cool tool to fly around the earth, and view the virtual environment.
Tips

• When creating folder on your flash drive, don’t use space in your folder name; instead use an underscore or no space.
  – Bad case: “Yingjie Hu”
  – Good cases: “Yingjie_Hu”, “YingjieHu”
Tips

• Use relative path for your map files
  – Originally: F:\yingjie\lab1
  – Relative path: \yingjie\lab1
Tips

• Q1: Write one paragraph in your own words summarizing the possible definitions for GIS.
Assignment

• Complete lab 1 (the template can be downloaded from Gauchospace).

• Name your homework using your name followed by ‘lab1’. E.g. YingjieHuLab1.doc

• Submit your homework through Gauchospace.

• Due date:
  – Oct. 17th 2:00pm for Wednesday’s section
  – Oct. 18th 5:00pm for Thursday’s section
Notes about the assignment policy

• Each time, we will post two labs on Gauchospace, and both of them will be due two weeks later.
  – E.g. this week, lab1 and lab2 are on Gauchospace, and they will be due in the third week (Oct. 17th)
  – In this way, we encourage you to do the labs before the lab section begins so that you can ask TA questions during the lab.
  – Please don’t wait until the last day to complete your labs.