



GE110 Fall 2008 - Lab 2

October 13, 2008

Build a GIS Project Using Existing Data

Make a Map

Make a map using everything that you have learned up to today

Working Directory D:\GE110\Lab_2

▽ **Save Your Project** - Make a new project in your student folder > Ge110_Lab2.mxd

▽ **Document Properties**

- ✓ Title your map
- ✓ Author your map
- ✓ Data Source Options - store relative path names

▽ **Set Your Data Frame Properties**

General Tab

- ✓ Name your Data Frame
- ✓ Set the units – Map & Display
- ✓ Simulate layer transparency in legend

Coordinate System Tab

- ✓ Set Coordinate System

▽ **Page and Print Setup**

- ✓ Set Map Page Size - choose letter

▽ **Add Data**

- ✓ Add a points
- ✓ Add lines
- ✓ Add Image
- ✓ Add Hillshade
- ✓ Add DEM

REMEMBER

There is no “correct” way to classify data, no one “right” map, Changing the number of classes or the class ranges through different classification schemes creates maps that emphasize different aspects about the distribution of an attribute.

Map complexity

Try not to confuse or overwhelm a reader; Map data when displayed or printed should ***not show more than 8–10*** categories, symbols or colors

▽ Work with the TOC

- ✓ Group the Layers by data type
- ✓ Give the Layers Logical Names
- ✓ Change the symbology for the layers
- ✓ Use a .lyr file to symbolize Tien_Shan_CI (tien_shan_cl.lyr)
- ✓ Change the transparency for Tien_Shan_CI
- ✓ Use a .style file to symbolize Faults.shp (Value:LCLASSSTR)(In style folder GPSec.style)
- ✓ Label chrono_data_kuitun_river_terraces1_UTM.shp (use “Name” field)

▽ Add a Second Data frame for an inset map

- ✓ **Set Your Data Frame Properties as Before**
- ✓ **Add data as Before**
 - ◇ Boundary.shp
 - ◇ Cities.shp

▽ Working with Your Layout

- ✓ Place your data frames in your layout
- ✓ Add Frame around your Data Frames
- ✓ Add Graticules to the Main Data Frame
- ✓ Add extent rectangles for the Inset Map
- ✓ Add north arrow
- ✓ Add two scale bars – one in Km and one in Mi
- ✓ Add title
- ✓ Add “Create by”

To Turn In:

1. Create a layout and save it to a *.pdf in your folder