

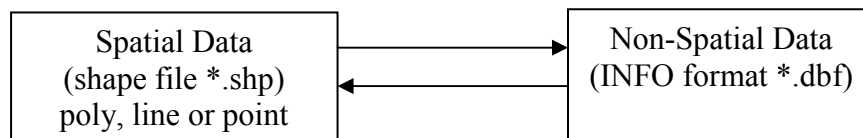
Lab Session 2

Database in ARCVIEW – Visualization of Geo Data

1. Preparation

- Working directory: **D:\your_dir**
- Copy data set **\MuangPathumthani** to your directory.

2. Database in ArcView



For example: Theme **Road** , there are 3 files in your directory

road.shp, road.shx, road.dbf

Support format:

- ARC/INFO coverage (vector)
- ARC/INFO grid (raster)
- Image data (satellite or aerial photograph)
- CAD
- Tabular data (dBASE, delimited text, connect to a database server such as Oracle or Sybase)
- MapInfo Interchange format (*.MIF)

Exercise1: Recognizing format data used

In this exercise, you will practice how various kinds (ArcView shapefile, ArcInfo coverage, image, CAD) of data formats are stored in , how can they be added to your project.

- ArcView Shapefile
 - Data set ***MuangPathumthani***
 - We have already practiced with ArcView shapefile last week.
 - Add theme *Road* (line) and *Landuse* (polygon) in your View. These files are stored in your disk
- Arc/Info coverage
 - Data set ***MuangPathumthani***

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- There are two coverages *Lu90* and *Road*.
- Add theme *Road* and *Landuse* in your View. Which files are stored in your disk Look at the differences between Arc/Info coverage and ArcView Shapefile.
- Open Theme table.
- Image
 - Data set *c:\esri\av_gis30\avtutor\arcview\images*
 - Open a new view in your project
 - Click Add Theme. In **Data Source Type** drop-down list, select **Image Data Source** instead of select **Feature Data Source**. You will see *spotimg.bil* in the file list. Add this image
 - Double-click at *spotimg.bil* in Tables of Content to enter in **Image Legend Editor**. This image is 1 Band image. Click **Linear** Button to see the histogram of the image. Adjust its histogram and check the effect
 - Go to **File** menu and select **Extension** item, then stick in **IMAGINE Image support**
 - Click Add Theme again, now there are two images in your file list. Select *spring.img*
 - Practice with its histogram.
- CAD
 - Data set *c:\esri\av_gis30\arcview\avtutor\CAD*
 - Go to **File** menu and select **Extension** item, then stick in **CAD Reader**
 - Click Add Theme. Open *index.dwg* as line theme and *parcel.dwg* as polygon theme.

3. Visualization of GeoData

In this part, you will practice how to display your geo data, update your tabular data, chart your data, layout and print your map

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Exercise2: Creating Landuse map.

- Open the new View and change the name to Landuse
- Add Theme *Landuse.shp*
- Open Theme table. Look at the fields *Mlu_code*, *Plu_code*, and *Lucode_e*
- Symbolize this theme by *Mlu_code* and *Plu_code* in turn (by Legend Editor -> Unique Value Type).
- Make layout

Exercise3: Creating Road map.

- Open the new View and change the name to Road
 - Add Theme *Road.shp*
 - Open Theme table. Look at the fields *Trans_typ*
 - Make the Project window active. Add an existing table *t_type.dbf*
 - Join the table of Road theme and *t_type.dbf* by the common field *Trans_typ*
 - Symbolize this theme by *Typ_nam_e*
 - Select the table of Road theme. Go to **Table** menu and click **Start Editing** item
 - Go to **Edit** menu and click **Add Field**.
 - Define the new field
 - Name: *Name*
 - Type: *string*
 - Width: *30*
 - Type the name of road in the table (the names are selected by yourself)
 - Go back to **Table** menu and click **Stop Editing** item
 - Label by name of road
 - Add *boundary.shp*
 - Make layout.
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