

Snapping



Multiple ways of inputting GPS data

- Use a cable connected to the serial port and Minnesota DNR free software.
 - ▶ Can download tracks or waypoints.
 - ▶ Can save .csv file, or
 - ▶ Can save ArcGIS shapefile as point, polyline, or polygon.
- Or type points into columns in a Excel file
 - ▶ Export as .csv
 - ▶ From ArcCatalog, create a feature class from XY data
 - ▶ Can only specify point data.

The advantage of point data

- Can specify which points to include or exclude.
- Can draw a polyline based on all or part of the point data.
- Can easily separate the points into multiple polylines with different representations.
- Easily modified or corrected.

Creating a polyline from point data

- Create an empty polyline shape file using ArcCatalog
- In ArcMap, add the empty shapefile and the point data.
- Open the editor toolbar.
 - ▶ Pick Start Editing.
 - ▶ Choose Snapping from the dropdown menu.
 - ▶ Check Vertices for the layer with the point data.
 - ▶ Digitize the track as we did previously, but note the change in the cursor when you hover over the point.

In-class example

- Find your Swiss Valley trail data.
 - Add it to your Dubuque County map, if it isn't already added.
 - Zoom in so that the points occupy most of the screen.
- Open ArcCatalog
 - Create a new shapefile, with a polyline geometry.
 - Set the coordinate system to UTM 15, as usual.
- Open ArcMap
 - Add the new shapefile to your map.
 - Open the editor toolbar, and proceed as discussed on the previous slide.

Online Exercise

- Use the website for Dubuque County GIS listed under Useful Tools on the class website to find out about my house:
- 111 Devon Drive, Dubuque, IA 52001.
- Look for the name of the previous owner, the deed, and a photo of the house.

Continued book work,

- Chapter 15 today.
