Introduction to GIS with ArcGIS Pro

Working with Tabular Data:
Creating Features from Tabular Data

Session 13

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Lecture Outline

- Introduction & Recap (5 minutes)
- Creating Features from Tabular Data (45 minutes)
- Guided Exercise & Q&A (10 minutes)

Week 5: Controlling Feature Display and Selection

- **Class 9:** Selecting Features with Queries
- **Class 10:** Managing Feature Visibility
- **Milestone:** Assignment 1 (Data Creation and Mapping) will be assigned.

Week 6: Adding Text to a Map

- **Class 11:** Creating and Modifying Labels
- **Class 12:** Using Label Classes

Week 7: Working with Tabular Data

- **Class 13:** Creating Features from Tabular Data
- **Class 14:** Associating Tabular Data (Joins and Relates)

Week 8: Editing Features and Attributes

Recap of Season 12

- Label classes
- Label expressions

Creating Features from Tabular Data

in ArcGIS Pro

Add x,y coordinate data as a layer

Coordinates describe points on the earth's surface, such as the location of fire hydrants in a city or the points where water samples were collected.

You can collect coordinate data directly using a GPS device, or you can obtain tabular data that contains geographic locations in the form of x,y coordinates from a variety of data sources.

You can then add that tabular data to a map. If the table also contains z-coordinates, such as elevation values, you can add the tabular data as 3D content to a scene.

XY Table To Point (Data Management)

Creates a point feature class based on x-, y-, and z-coordinates from a table.

XY To Line (Data Management)

Creates a feature class containing geodetic or planar line features from the values in a start x-coordinate field, start y-coordinate field, end x-coordinate field, and end y-coordinate field of a table.

Exercise

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1. Import the data in an ArcGIS Project
2. Create feature class from the data
3. Create custom symbology for the feature classes

Bird Migration Data

https://www.kaggle.com/datasets/turhancankargin/bird-migration

Preview for Season 14

Working with Tabular Data: Associating Tabular Data (Joins and Relates)