

ArcGIS Desktop III: GIS Workflows and Analysis Hot Springs Course (December 18 - 19, 2008, 2-days) (Intermediate)

- Getting data into the geodatabase: Advantages of migrating data to the geodatabase; File and personal geodatabases; Loading and importing data; Data sources available for conversion; ArcToolbox conversion tools; Importing and exporting data in ArcCatalog; Importing and exporting data using XML; Copying and pasting data between geodatabases; Batch and single conversions; Loading data into existing feature classes using the Simple Data Loader; Displaying x,y coordinate data from a table; Accessing tabular data using an OLE DB connection; Adding data from a GIS server; Working with map projections and datums.
- Geodatabase behavior: What is behavior?; Advantages of using behaviors; Default values; Subtypes; Domains; Geodatabase topology.
- Editing GIS data: Creating new data (digitizing, copying and pasting features, Editor menu commands); Constructing an edit sketch using constraints (direction, length, parallel); Creating adjacent polygons using the Auto-Complete Polygon task; Modifying existing features; Reshaping existing features and boundaries; Exploding multipart features; Editing using domains, subtypes, and topology.
- Alligning spatial data: Common data alignment problems; Georeferencing CAD data; Matching layer boundaries; Transformation; Rubber sheeting; RMS error.
- Managing geoprocessing tools and settings: Types of toolboxes and how they are stored; Types of tools (system tools, models, scripts); Locating tools in ArcToolbox; Executing tools; Tool parameters; Parameter error detection; Environment settings; Tool layers; Geoprocessing results.
- Analyzing GIS data: Review of common analysis tools (Buffer, Clip, Intersect, Select, Union); Working with feature proximity tools (Near, Spatial Join, Multiple Ring Buffer, Create Thiessen Polygons); Analyzing tabular data; Creating a raster subset; Analysis options outside of core ArcGIS Desktop; Typical analysis workflow.
- Using ModelBuilder for analysis: Working with ModelBuilder; Creating and designing models; Model elements (tools and variables); Setting general model properties; Setting model parameters; Environment settings; Intermediate data; Running and troubleshooting a model; Creating model documentation.
- GIS analysis projects: Real-world GIS analysis projects (Find the best site for a new shelter, Find the mileage of flooded roads); The analytical process for each project.

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