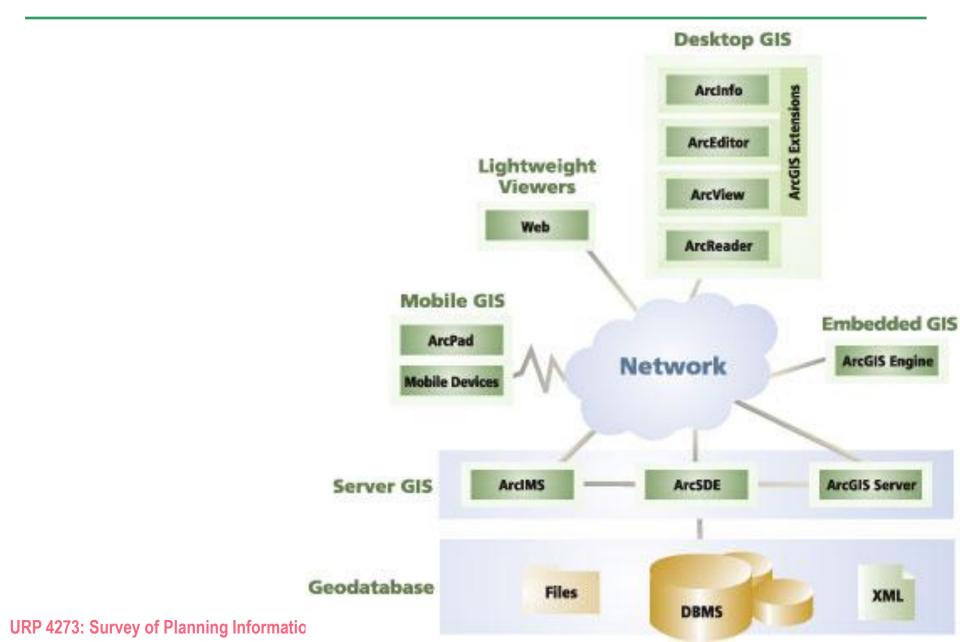
INTRODUCTION TO ARCGIS Version 10.*

topics of the week

- □ Overview of ArcGIS
- ☐ Using ArcCatalog

Overview of ArcGIS



Desktop ArcGIS Overview

- Scalable desktop applications
 - □ ArcView
 - □ ArcEditor
 - □ ArcInfo
 - □ ArcGIS extensions



- All support data creation, management, analysis, storage
- All can work with the same data formats
- All share a common interface / same look and feel
- The higher the functionality, the higher the buying price

Desktop ArcGIS Functionality

ArcView

- □ ArcMap
- ArcCatalog
- □ ArcToolbox

ArcInfo = ArcEditor +

- □ Advanced ArcToolbox
- Advanced Geoprocessing
- □ Workstation ArcInfo:

Arc, ArcEdit, ArcPlot, Grid, TIN

ArcEditor = ArcView +

- □ Editing, coverage and ArcSDE Geodatabase
- □ Create and edit features with behavior
 - Geometric networks
 - Feature linked annotation
 - Subtypes
 - Relationship classes

Use ArcView if you need to...

- Create, edit personal geodatabases and shapefiles
- Create high quality maps, graphs, and reports
- Perform advanced geographic query and analysis
- Perform network tracing analysis
- Create, apply attribute domains
- Create, edit simple annotation
- Geocode addresses

Use ArcEditor if you need to ...

- Create, edit and manage coverages and ArcSDE geodatabases
- Create, edit subtypes and relationship classes
- Build the geodatabase from CASE diagrams
- Create, edit geometric networks
- Create and edit feature-linked annotation
- Create and edit custom features

Use ArcInfo if you need to...

 Create, edit, and analyze coverages using ArcInfo Workstation

Run AML programs from ArcToolbox

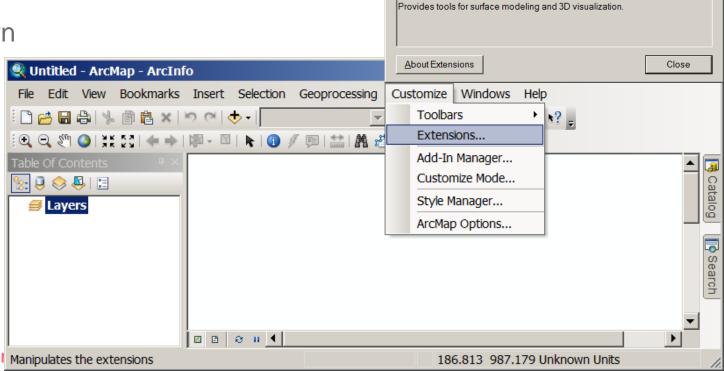
Convert from multiple GIS data formats into coverage format

Use Geoprocessing Server to perform ArcToolbox operations on a designated computer

ArcGIS extensions

Applications that plug into existing

- Spatial Analyst
- 3D Analyst
- Geostatistical Analyst
- **Others**
- Create your own



Extensions

Select the extensions you want to use

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Geostatistical Analyst

3D Analyst □ ArcScan

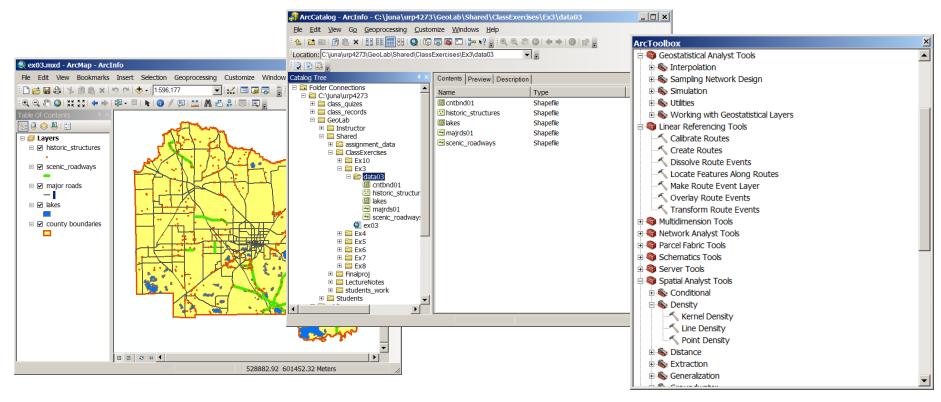
■ Maplex □ Network Analyst

 Publisher Schematics □ Spatial Analyst Tracking Analyst

Description: 3D Analyst 10.0 ? | x |

Integration of the three applications

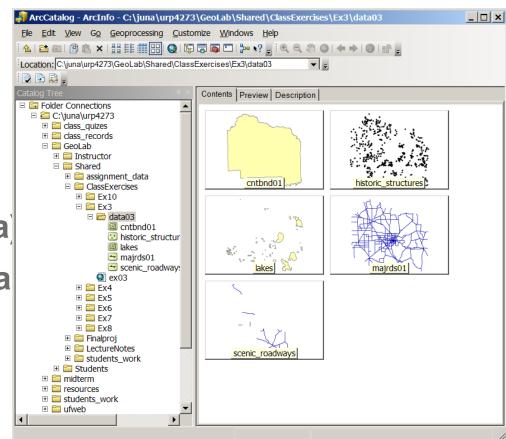
- All share common applications
- ArcCatalog, ArcMap, ArcToolbox
- Each is single or multiuser (what's the difference?)



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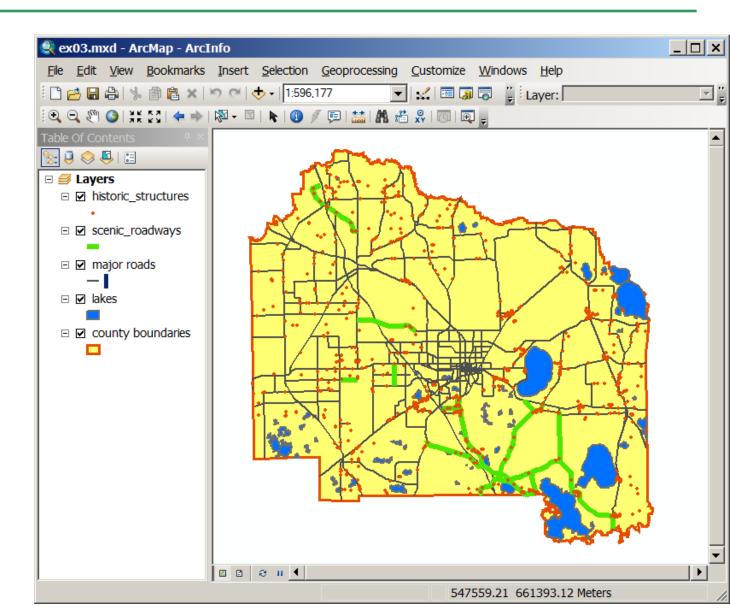
ArcCatalog

- Explore the data
- Browse maps and data
- Manage data sources
- View and create documentation (metadata)
- Search for maps and data
- Use data in ArcMap and ArcToolbox



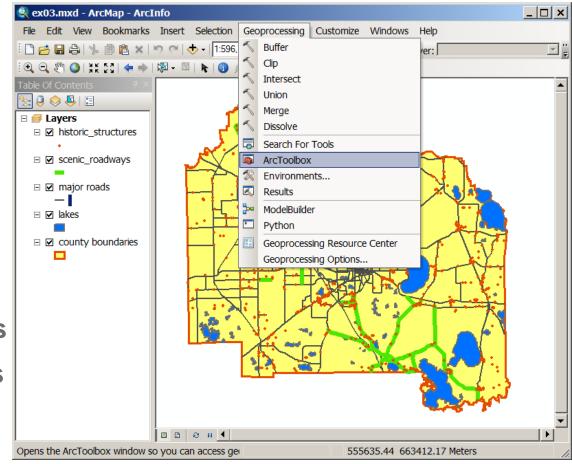
ArcMap

- Visualize
- Create
- Solve
- Present
- Develop
- Edit
- Query
- □ Analyze
- □ Chart
- Report



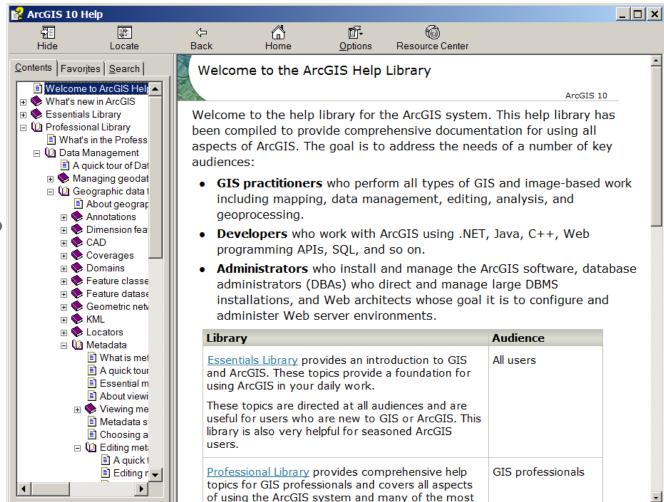
ArcToolbox

- Geoprocessing
- Data management
- Analysis
- Conversion
- Two versions of ArcToolbox
 - □ For ArcInfo ~150 tools
 - □ For ArcView ~20 tools



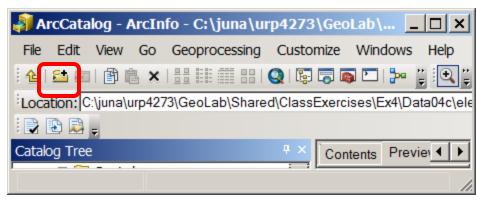
When you need help

- Contents tab
- Index tab
- Search tab
- Other
 - □ What's this?
 - Tool tips



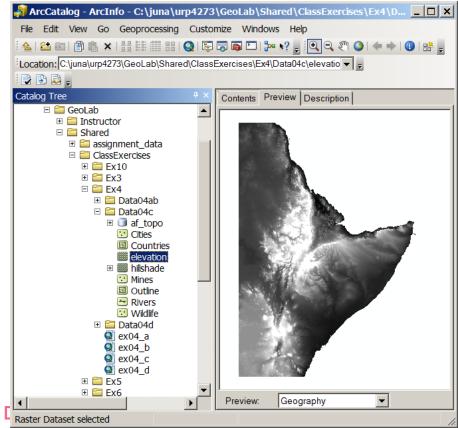
Using ArcCatalog

- Provides a way to explore your data
- Can define or modify table and feature class definitions
- Can manage data: copy, rename, delete, convert



Connect to Folder

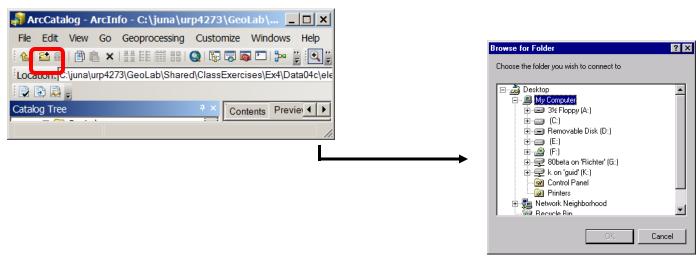




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Creating folder connections

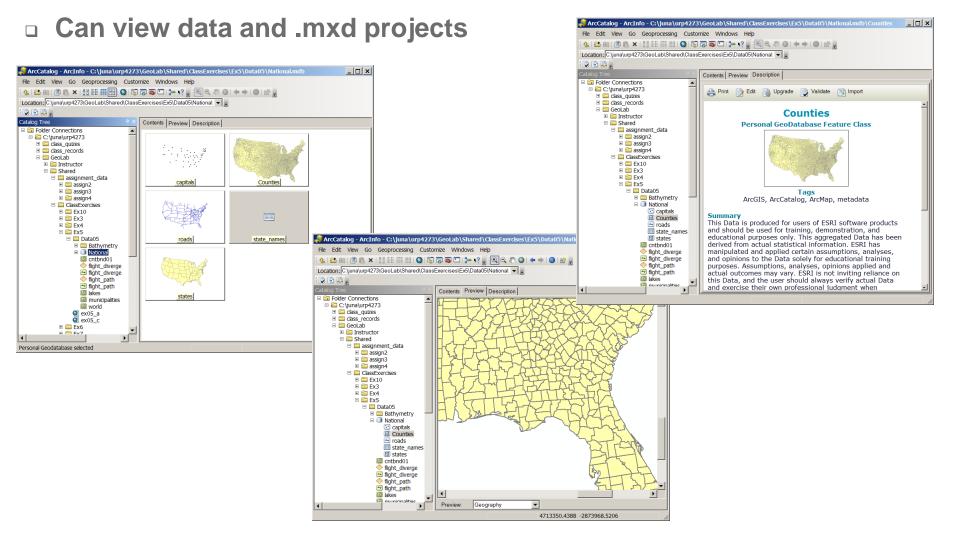
MUST connect to folders in the network



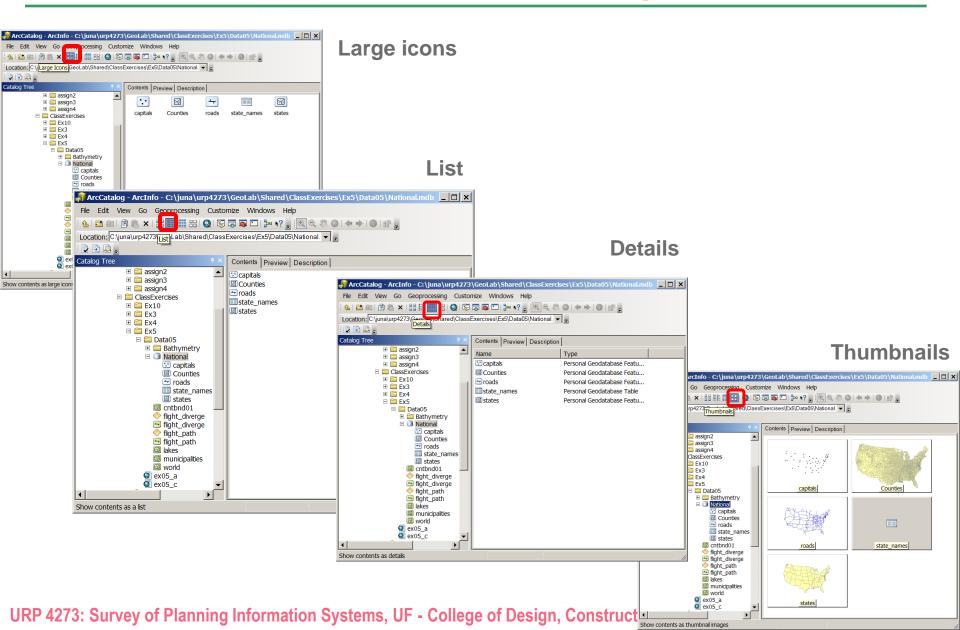
- Connections can be saved but can disconnect from folders at any time
- Can create a catalog of connections by connecting to several different folders in different locations (local or remote)

Three tabs for three ways to view the data

Contents; Preview (Geography & Attributes); Description

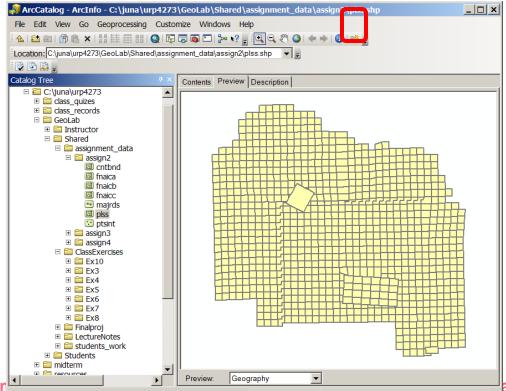


The Contents tab – window's ways to view files



Creating thumbnail images

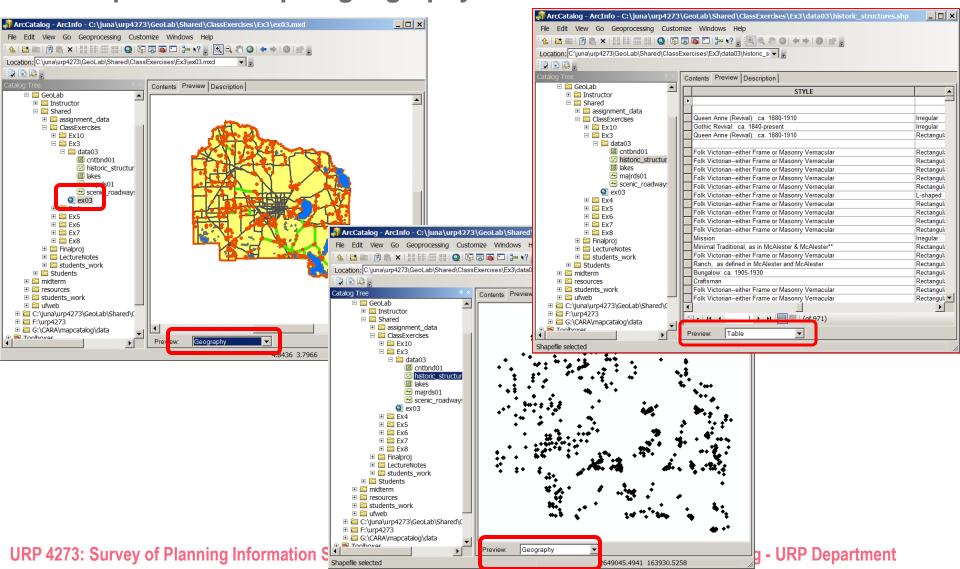
- Both maps (.mxd) and data can have thumbnails
- A thumbnail is a snapshot of the source file at one point in time
- A thumbnail is an image, therefore it needs to be updated
- When an (.mxd) is saved, a thumbnail is generated automatically



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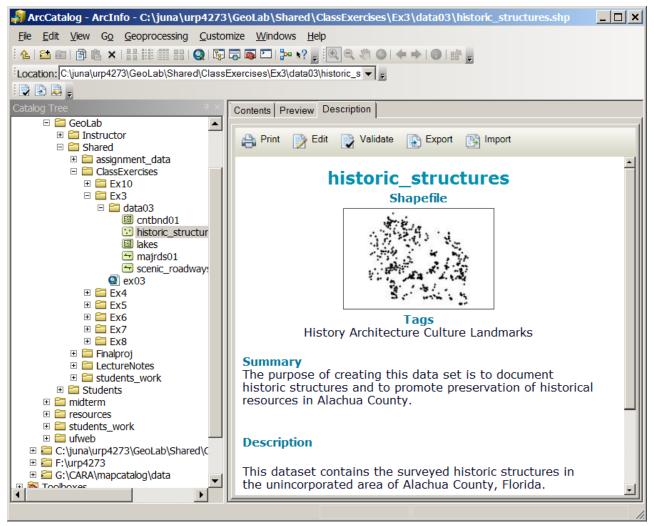
The Preview tab

Can preview a map or geography and attributes for data sources



The Description tab

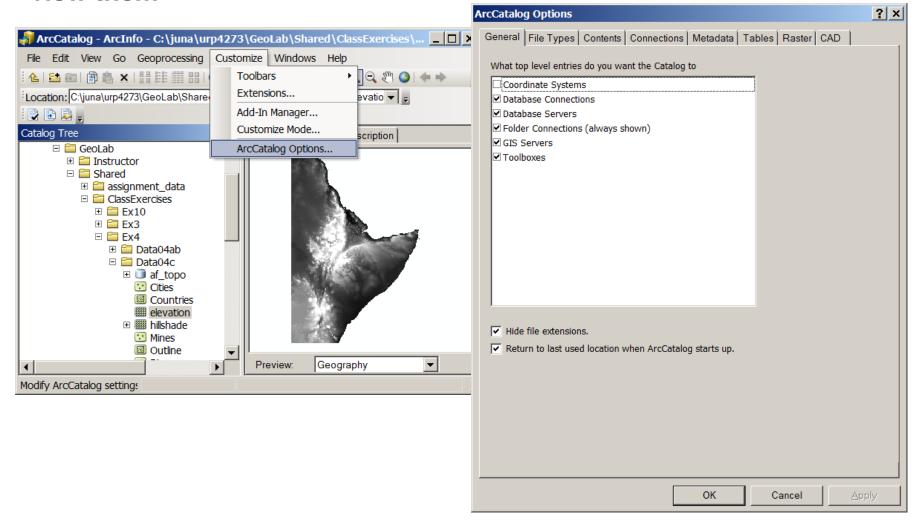
Displays metadata



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Setting viewable data types

In ArcCatalog you can filter out certain file types so that you don't view them



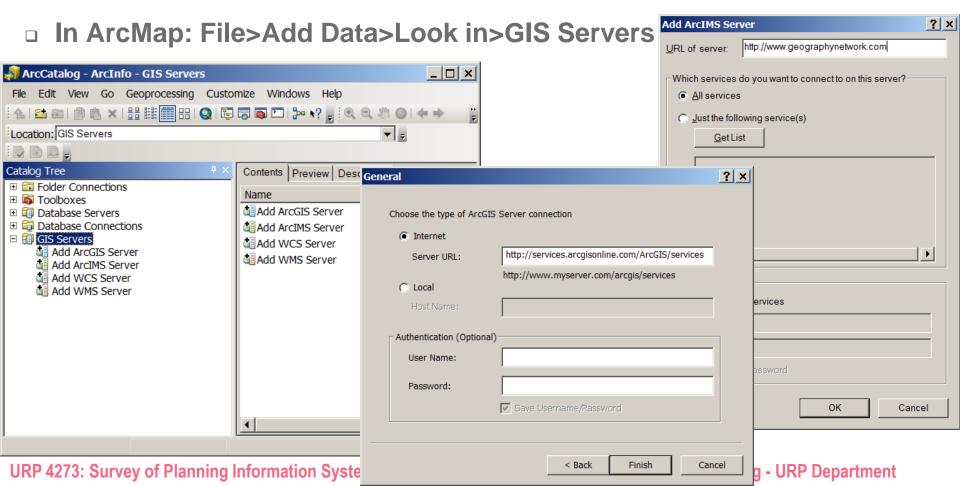
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Data on the net – Internet GIS

- GIS services or Geoservices are automated geographic information services that are published and accessed over the Web.
- Types of Geoservices i.e. Internet GIS
 - □ Map Services (Live data layers) most common
 - Image Services (Integrated Images from many sources)
 - Geoprocessing Services (Layer with functionality such as with a tools interface)
 - Search Services (searchable content in GIS files/folders)

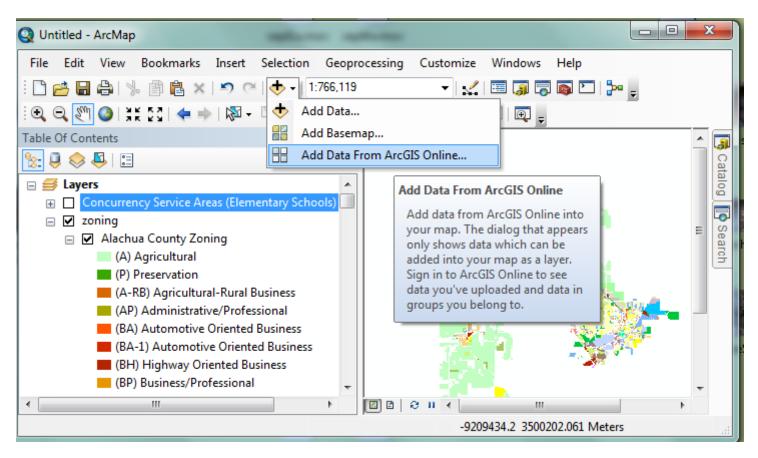
Connecting to GIS Services

- ArcGIS and ArcIMS services (two types based on publishing technology)
- In ArcCatalog: GIS Servers: double click over service type and enter URL of service (web address to the service)



Connecting to ArcGIS online

- ArcGIS online offers many ways to connect to either user created data or ESRI's data.
- Accessibility from Add Data drop menu (prior to clicking)



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