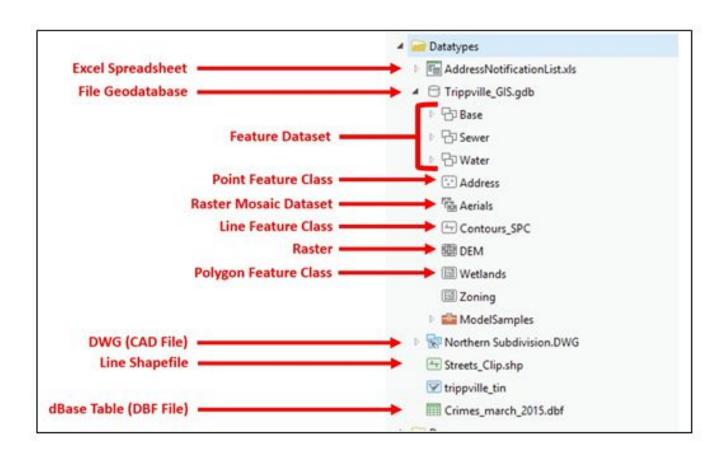
Outline for Session 9

- Editing Spatial Data
- Introduction to Geocoding

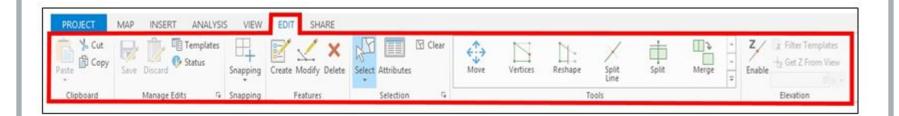
Data format	Display	Edit	Comments			
Personal geodatabase	No	No				
File, workgroup, and enterprise (SDE) geodatabase	Yes	Yes	Workgroup and enterprise geodatabases require Standard or above license. Topologies, Geometric Network and Parcel Fabric editing not currently supported.			
Shapefiles	Yes	Yes				
Coverage	No	No				
CAD files (DWG, DGN, and DXF)	Yes	No	ArcGIS Pro will display DWG files created with AutoCAD 2016 or earlier.			
ArcGIS feature service	Yes	Yes	Published with ArcGIS Server.			
ArcGIS feature layer	Yes	Yes	Published from ArcGIS Online or Portal with ArcGIS. Editing must be enabled.			
Web map services	Yes	No	ArcGIS Pro can access web map services, including ArcGIS Server, ArcGIS Online, WMS, and WMTS.			
Excel Spreadsheet	Yes	No				
DBF file	Yes	Yes				
Text files (TXT or CSV)	Yes	No				



Preparing to edit data

- 1. Pick coordinate system
- 2. Add and symbolize layers
- 3. Simplify attribute fields
 - a. Less is more
- 4. Adjust Project Option settings
 - a. Pick units: distance, area, direction
 - b. Save settings
- 5. Set snapping options

The EDIT tab



Geocoding

- Process of creating geometric representations for locations (e.g. points) from descriptions of locations (e.g. street addresses)
- Uses code tables to standardize address components called a geocoding engine

Geocoding

- Two ways to geocode
 - Batch geocoding attempts to match all addresses
 - Interactive rematching sophisticated user interface to match addresses

Examples

- Local technology council maps technology businesses by street addresses to see technology rich areas in a city
- Emergency dispatch operators geocode an address to determine who should respond to an emergency call

Examples

- County health director maps personal care and nursing homes and compares them to elderly population by neighborhood
- Business maps store locations and compares to competitor locations

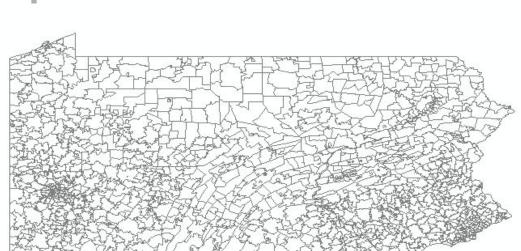
Input data

- Tabular data (text or dbase)
 - street addresses
 - zip codes
 - latitude and longitud∈



Input Data

- Geographic Data
 - street centerlines
 - zip code polygons



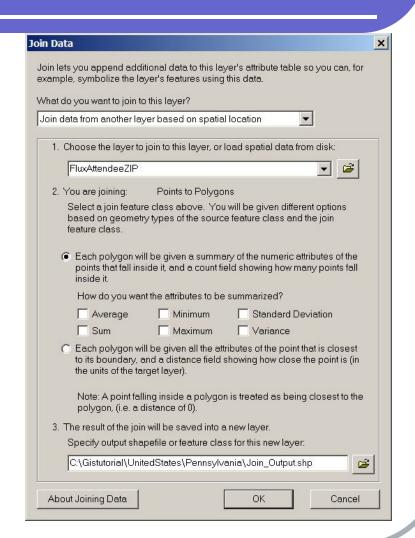


Polygon Geocoding

- Method to map data whose identifier is a polygon (e.g. zip code, city, or county)
 - Create an aggregate table with a single record for each unique polygon
 - Count the records for each polygon
 - Join table to corresponding polygon layer
 - Symbolize with a choropleth map or graduated point symbols

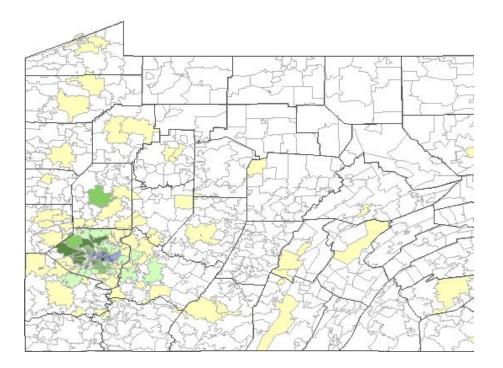
Example of polygon geocoding

 Spatial join by zip code to create a chorpleth map



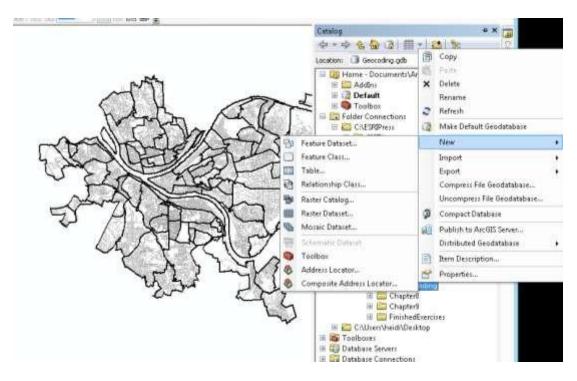
Example of polygon geocoding

Spatial join by zip code to create a chorpleth map



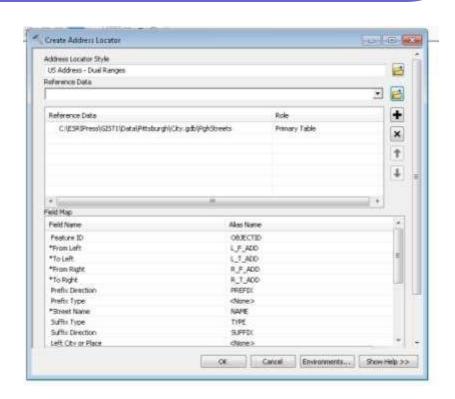
Geocoding by address

#1 Create a new Address Locator in ArcCatalog



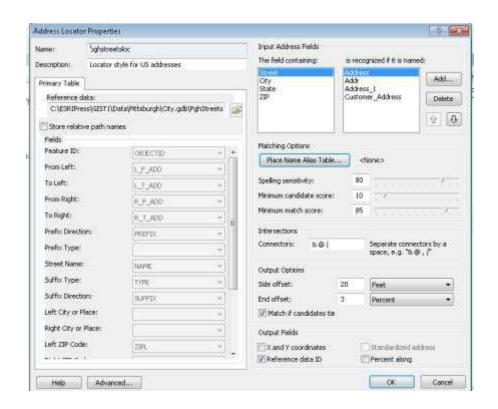
Geocoding by address

 #2 set address locator style



Geocoding by address

 #3 set address locator properties



Geocoding by address

Address Locator is created

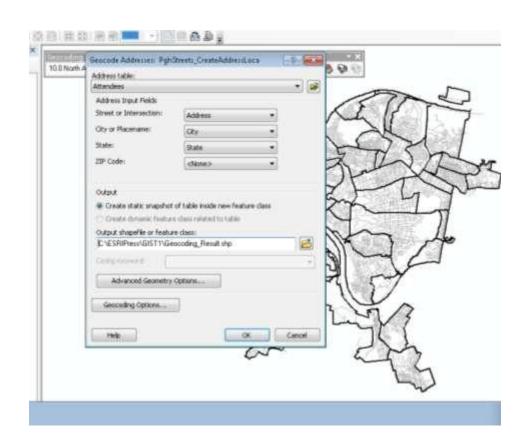
Geocoding by address

#4 add tabular and street layers in ArcMap



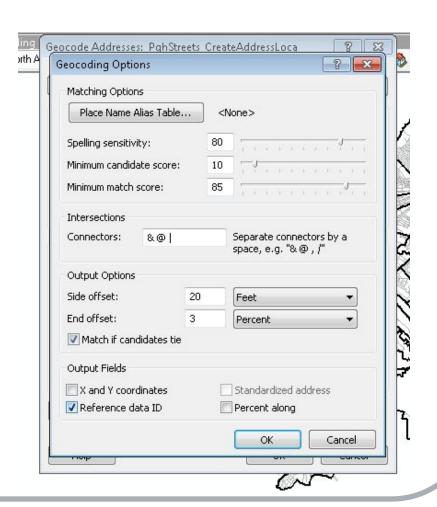
Geocoding by address

#5
Geocoding toolbar



Geocoding by address

#6 Geocoding options

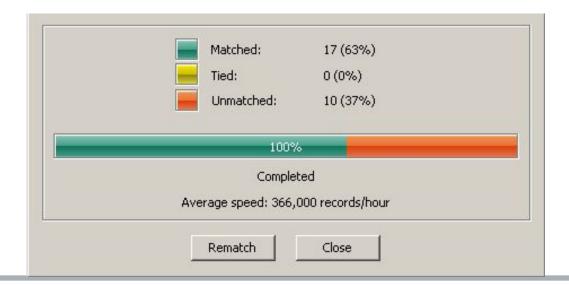


Geocoding by address

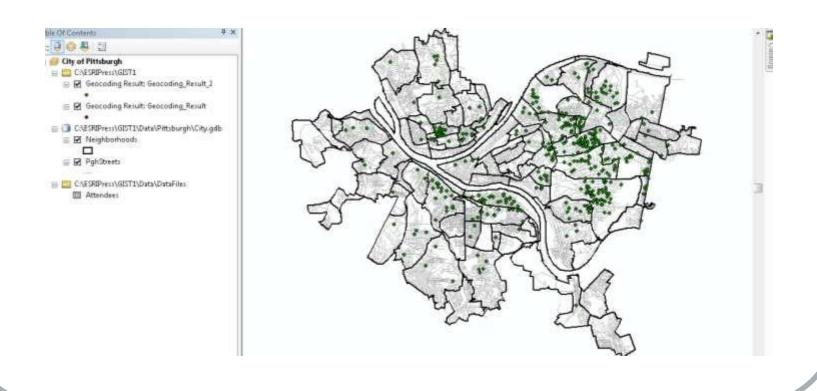
• #7 Geocode

Geocoding by address: 3 types of Output

- Matched (address is found)
- Tied
- Unmatched (address is not found for your location)



Geocoding by address resulting data



Geocoding by address resulting table

	FID	Shape	Status	Score	Match_type	Side	X	Y	Match_addr	ARC_Street	ID	LAST
	0	Point	M	100	А	L	1342193.762411	412711.5295	133 7TH ST	133 Seventh St	3	Robert
	1	Point	M	100	А	Ľ	1341992.787534	412334.122967	615 PENN AVE	615 Penn Ave	4	Johnsi
	2	Point	M	100	А	L	1343161.309811	410118.669143	309 ROSS ST	309 Ross St	5	Clark
	3	Point	M	100	А	R	1341559.248605	412681.786356	118 6TH ST	118 6th Street	6	Peters
	4	Point	U	0	А		0	0		490 Penn Ave	7	Young
	5	Point	M	100	А	£	1342352.504707	412140.139619	711 LIBERTY AVE	711 Liberty Ave	8	Thomp
	6	Point	U	0	А		0	0		111 Hawksworth	9	Reed
П	7	Point	U	0	A		0	0		900 Smallman St	10	Baker