ARCGIS DESKTOP GEOCODING

Amanda O’Daniel
Geographic Information Office
Indiana Office of Technology
amodaniel@iot.in.gov
http://www.in.gov/gis/
GEOCODING:
The Indiana Composite Locator
Geocoding is the process of transforming a description — such as a pair of coordinates, an address, or a name of a place — to a location on the earth's surface. (ESRI)
Add the address table to the map

Choose the Address Locator

Set the geocoding parameters

Match the Addresses

Adjust geocoding parameters

Geocoding can be done from ArcCatalog or ArcMap.
• Contains multiple locators
• Allows for more address matching types.
• Order is important...the locators are searched from the top down.
• Once an address is matched searching stops for that address.
Addresses may be stored in any common table format: .xls, .xlsx, .dbf, .txt, .csv, .mdb, Oracle table
Geocoding Example

Adding the Geocoding Toolbar

Customize → Toolbars → Geocoding

- Manage address locators
- Search and view single address
- Inspect addresses
- Geocode address table
- Rematch addresses
Geocoding Example
Adding the State Composite Locator

From the Geocoding Toolbar:
• Choose Manage address locators
• Navigate to GIS Servers
• Add State ArcGIS Server
• URL: https://gis.in.gov/arcgis/services
• Locate Indiana_Composite_Locator
Many ways to get started

1. Right-click on address table in Table of Contents
   OR
2. Select Geocode tool from Geocoding Toolbar
   OR
3. Choose Geocoding Tools > Geocode Addresses from ArcToolbox
Unmatched addresses can be matched manually.

Some records may not be matched due to data entry errors!!!
Finding out why an address has not been matched can be difficult and may require extensive investigation.

- Spelling errors are probably the most common reason for an unmatched address.
  - To verify spelling errors, you may need to compare the addresses to other sources, such as phonebook (or online), address directories or reference data.

- Other sources of error might include:
  - Incorrect prefixes or suffixes
  - Incorrect house numbers
  - Incorrect ZIP Codes
  - **EXTRA BLANK SPACES** (either between words or at the beginning or the end of the address field).
QUESTIONS ABOUT GEOCODING?

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